

SECURITY CLASSIFICATION

UNCLASSIFIED

PD-ACC-363

COUNTRY PROGRAM BOOK

PROGRAM COMPOSITION SUBMISSION

INDIA

BUDGET PROPOSAL FY 1961

SECURITY CLASSIFICATION

UNCLASSIFIED

D	FORM ICA 10-124 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	ICA ADMINISTERED PROGRAM	D
		COUNTRY ECONOMIC PROGRAM			PROGRAM PROGRESS TO DATE		

D. Program Progress to Date

The period covered here ranges from the aid program's inception in FY 1952 through the budget year projection for FY 1961, with emphasis on program progress during the actual year (FY 1959).

During FY 1959, TC obligations totalled \$8.6 million, of which \$7.4 million derived from NOA funds and the balance, \$1.2 million from prior-year deobligations; SA obligations totalled \$10.3 million, of which \$10.2 million derived from NOA funds and the balance, \$141 thousand, from prior-year deobligations. In addition, DA funds totalling \$1.4 million were obligated through PAAs from prior-year deobligations.

Participants funded in FY 1959 totalled 700, i.e., 109 contract and 591 non-contract; in addition, 75 extensions were funded for participants already in process of training overseas. The FY 1959 participant total (700) reflected a sharp increase over the FY 1958 total (391).

At the end of FY 1959, technicians (contract, non-contract, and 42 TS) on board totalled 138; as compared with 161 on board at the end of FY 1958. Authorized technician positions at the end of FY 1959 totalled 335; thus at the close of FY 1959 technician strength on board was but 40 per cent of the total authorized technician strength, with obvious untoward consequences in terms of program progress.

The following tabulation illustrates technician and participant trends since the aid program's inception:

FY	Technicians (Cont. & Non-Cont.) on Board End of FY	Participants	
		Cont.	Non-Cont.
1952	64	}	157
1953	95		120
1954	107		88
1955	141	}	41
1956	182		108
1957	207	75	87
1958	161	115	276
1959	138	109	591
1960 ^{1/}	155	92	558
1961 ^{1/}	185	194	593
<u>Total</u>		<u>673</u>	<u>2,640</u>

^{1/} Estimated.

As against 62 TC projects and 1 SA project funded in FY 1959, 50 TC projects and 1 SA project are recommended for FY 1960 funding.

In the local currency (L/C) programming sector, during FY 1959 6 projects were funded with L/C obligations totalling Rs. 1.471 billion (US \$309 million), detailed as follows:

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Source	Project	(Rs. Millions)		(US \$ Millions)	
		Grant	Loan	Grant	Loan
P.L. 480	River Valley Devel. (Multi-Purpose)	59.4	791.6	12.50	166.28
P.L. 480	Refinance Corp.		262.0		55.04
P.L. 480	Sharavathi (Hydro-Electric)		69.7		14.64
P.L. 480	Ind. Credit & Inv. Corp. of India		100.0		21.01
P.L. 480	Ind. Fin. Corp.		100.0		21.01
Sec. 402	Rihand Dam (Multi-purpose)		88.3		18.55
<u>Total</u>		59.4	1,411.6	12.50	296.53

In addition to the above L/C loans, Sec. 402 grant-aid funds totalling Rs. 3.4 million (US \$714 thousand) were obligated during FY 1959 to finance international travel costs of non-contract participants. In the revised FY 1960 TC and SA (OPAR) program budgets, however, utilization of Sec. 402 rupees has been expanded to cover all participant travel costs and all contract technician costs payable in rupees, as well as all "Other Costs"; Sec. 402 rupees thus budgeted total the equivalent of \$1.737 million, thereby releasing a commensurate total of program dollars for other program requirements.

While structurally few changes have been effected in the FY 1960 TC and SA programs, the FY 1961 CPB as here presented reflects a full-scale restructuring of the TC program (except for

the Health and Sanitation MAF) in terms of project consolidation, as a necessary prelude to intensive program concentration in subsequent years, i.e., complete restructuring of the TC program to focus available funds and limited staff upon a small number of key areas of the economy wherein critical technical assistance needs exist. One sub-MAF, Community Development, was phased out in FY 1959; moreover, peripheral projects in the Labor MAF have been eliminated (in FY 1960) and TC assistance concentrated on one major project, i.e., Bombay Central Training Institute for Craftsmen and Instructors.

One interesting development re FY 1960 has been a heavy increase in GOI requests for TC assistance, far in excess of the fundable volume of such requests.

Another noteworthy feature of the FY 1960 and FY 1961 TC budget submissions is the declining level of commodity support elements, 9.8 per cent in FY 1960 and 11 per cent in FY 1961.

While it is difficult to assess program progress precisely in any given fiscal year, in terms of attainment of U.S. objectives the SA program for malaria eradication has achieved marked progress; conversely, TC funds are so limited as compared with the totality of India's TA needs that they are negligible in their impact on attainment of U.S. (short-term) objectives. However, within these inherent limitations, the TC program progressed in general conformance with schedules for individual project implementation and, during the course of the year (FY 1959), some 8 TC projects were brought to completion and 4 other (marginal) projects were phased out.

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E. Proposed Program for the Budget Year

1. Program Content

The following discussion deals initially with substantive (MAF) components of the FY 1961 budget proposal as compared with principal (MAF) components of the FY 1959 and FY 1960 program budgets (all cost figures in US \$ thousands).

<u>Agriculture and Natural Resources:</u>	FY 1959	-	2,231
	FY 1960	-	2,109
	FY 1961	-	4,560

Increased requirements here reflect greater program emphasis on India's overriding economic problem, insufficient food production. The principal elements in the FY 1961 increase over FY 1960 are contract services, technician, and participant costs. In terms of individual project costs, Agr. Ed. & Research is up \$1,664; Agr. & Home Sc. Ext. and Training, up \$337; Soil and Water Cons., up \$136; and Agr. Econ. & Research, up \$31. While these increased project costs are partly resultant from forward contract funding, in the main they stem from expansion in the scope of project activities.

<u>Industry and Mining:</u>	FY 1959	-	1,700
	FY 1960	-	2,234
	FY 1961	-	1,928

The increase (\$534) in FY 1960 over FY 1959 appears because in FY 1959 the Indian Institute of Technology - Kanpur (IIT - Kanpur) project was funded mainly from deobs (\$312), whereas in FY 1960

this project is being funded with NOA money (\$568); the balance of the increase (\$534) arises principally from contract services extension costs for the Training of Const. Equip. Operators & Mechanics and Elec. Dist. Systems Maint. Training Centers projects (combined increase \$275); partly offset by minor cost reductions elsewhere in the I&M MAF. The decrease in FY 1961 from FY 1960 results mainly from the inclusion of the IIT-Kanpur and Tech. Ed. Institutions projects in the FY 1960 I&M MAF, whereas in the FY 1961 budget these two projects are placed in the education MAF (as sub-projects of the Engineering Education project).

<u>Transportation:</u>	FY 1959	-	44
	FY 1960	-	83
	FY 1961	-	257

The increase (\$39) in FY 1960 over FY 1959 is accounted for by FY 1960 funding of the project, Highways & Bridges, that was NFCD'd, but not funded, in FY 1959. The increase (\$174) in FY 1961 over FY 1960 results mainly from equipment requirements for the Aviation Ground Facilities project, i.e., communications equipment for demonstrating and controlling jet aircraft traffic.

<u>Labor:</u>	FY 1959	-	6
	FY 1960	-	36
	FY 1961	-	836

The increase (\$800) in FY 1961 over FY 1960 results mainly from proposed institution of the Bombay Central Training Inst. for Craftsmen & Instructors project (\$760), including forward contract funding.

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Health and Sanitation:

FY 1959	-	545
FY 1960	-	762
FY 1961	-	2,252

The increase (\$217) in FY 1960 over FY 1959 occurs in part because anticipated costs for participants under the Medical Education project were largely funded from deobs in FY 1959 as against NOA funds needed for FY 1960; also, General Nursing project costs rise with increased (on-board) technician expectations for FY 1960.

The FY 1961 increase (\$1,490) over FY 1960 is mainly due to two factors: (1) the increased cost of the Medical Education project (\$661, of which \$480 is required for new contract funding), and (2) increased cost (\$511) of the National Water Supply & Sanitation project (of which \$511, some \$450 is for the Calcutta Water Supply sub-project). However, to the extent SA funds become available for this sub-project in FY 1961, the TC costs will be commensurately reduced.

Education:

FY 1959	-	1,153
FY 1960	-	956
FY 1961	-	2,915

The FY 1960 decrease (\$197) from FY 1959 is due to a general scaling down of requirements enforced by funding limitations.

The FY 1961 increase (\$1,959) over FY 1960 results from several major programming adjustments; notably, transfer of the IIT-Kanpur and Tech. Ed. Institutions projects from the I&M MAF

to the Education MAF (as sub-projects of Engineering Education). The other major cost increase factor is \$650 for the Ext. Training Program for Secondary School Teachers project, i.e., funds needed to finance the expanded project concept embracing multi-purpose, higher secondary schools.

Public Administration:

FY 1959	-	56
FY 1960	-	109
FY 1961	-	75

The FY 1960 increase here (\$53) over FY 1959 reflects technician arrival expectations for the Indian Statistical Institute project, plus several minor upward adjustments in project costs. The FY 1961 decrease (\$34) under FY 1960 is occasioned by several minor downward adjustments in project costs.

Community Development, SW and Housing:

FY 1959	-	\$211
FY 1960	-	-
FY 1961	-	-

The FY 1959 MAF activities, comprising the Community Development and Social Welfare Education projects, were phased-out at the close of FY 1959.

General and Miscellaneous:

FY 1959	-	1,454
FY 1960	-	1,711
FY 1961	-	2,088

The FY 1960 increase (\$257) over FY 1959 is for two new projects, the All India Investment Center (\$442) and the Life

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<p>Insurance Corporation project (\$24); offset by a decrease (\$165) in TS requirements and minor decreases (\$25) in other project costs.</p> <p>The FY 1961 increase (\$377) over FY 1960 will disappear with the substitution of Sec. 402 rupees for program dollars, particularly in TS.</p> <p>The major project components of the budget year (FY 1961) presentation, in terms of TCM's newly initiated project consolidation approach to programming, may be summarized as follows:</p> <p><u>Agriculture and Natural Resources</u> (\$4,560)</p> <p>Agriculture Education and Research (\$2,858), and Food Production (\$1,156).</p> <p><u>Industry and Mining</u> (\$1,928)</p> <p>Industrial Development (\$1,235), Water and Power Development (\$396), and Mineral Development (\$297).</p> <p><u>Transportation</u> (\$257)</p> <p>Aviation Ground Facilities (\$210), and Highways and Bridges (\$47).</p> <p><u>Labor</u> (\$836)</p> <p>Bombay Central Training Institute for Craftsmen and Instructors (\$760).</p> <p><u>Health and Sanitation</u> (\$2,252)</p> <p>Medical Education (\$959), National Water Supply and Sanitation (\$597), General Nursing (\$303), and Health Education (\$120).</p> <p><u>Education</u> (\$2,915)</p> <p>Engineering Education (\$1,723), Extension Training Program for Secondary School Teachers (\$700), and National Professional Education Center (\$462).</p> <p><u>Public Administration</u> (\$75)</p> <p>Organization and Management (\$39), and Indian Statistical Institute (\$36).</p> <p><u>General and Miscellaneous</u> (\$2,088)</p> <p>Banking, Finance and Investment (\$440), Nuclear Engineering (\$94), and TS (\$1,554).</p> <p>The foregoing discussion has dealt with TC program activities; the ensuing discussion relates to SA program activities which, in FY 1959 and FY 1960, were confined to a single project.</p> <p><u>Health and Sanitation:</u></p> <table> <tr> <td>FY 1959</td> <td>-</td> <td>10,220</td> </tr> <tr> <td>FY 1960</td> <td>-</td> <td>12,646</td> </tr> <tr> <td>FY 1961</td> <td>-</td> <td>18,900</td> </tr> </table>								FY 1959	-	10,220	FY 1960	-	12,646	FY 1961	-	18,900
FY 1959	-	10,220														
FY 1960	-	12,646														
FY 1961	-	18,900														
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The FY 1960 increase (\$2,426) over FY 1959 reflects expansion in the scope of the Malaria Eradication Project, as does, to some extent, the FY 1961 increase (\$6,254) over FY 1960. The major cause for the increase in the FY 1961, however, is the development of more precise estimates of project requirements based on experience gained during the first year's operations (based on a comprehensive program review and evaluation study by the National Malaria Eradication Program).

As explained above in the TC discussion, under Health and Sanitation, if SA funds become available (in excess of the \$18,900 programmed for the Malaria Eradication project in FY 1961), these added SA funds would be utilized, in lieu of TC funds, for the Calcutta Water Supply sub-project under the National Water Supply & Sanitation project.

In addition to increased TC program emphasis on food production in the Agriculture & Natural Resources MAF; significant program trends include the proposal to render substantial aid toward solution of the skilled labor shortage problem through the Bombay Central Training Institute in the Labor MAF; a greater contribution to alleviation of the shortage of engineers through the Engineering Education project in the Education MAF, and through the Steel Training project in the Industry & Mining MAF; and increased support for vocational education through the Ext. Training Program for Secondary School Teachers project in the Education MAF. In general, the FY 1961 (TC) program trend reflects TCM's response to the GOI's increasingly sharp awareness and identification of India's critical manpower needs, which must be met, if economic development is to proceed effectually at the pace envisaged in the Third Five-Year Plan.

2. Participation of Cooperating Country in Program Planning

While forward program planning is conducted on a joint (GOI/TCM) basis, for the most part such joint planning is accomplished at the functional level, i.e., by TCM's Functional Divisions working in close collaboration with GOI agencies (including State Government bodies) having administrative responsibility for ICA-aided projects. However, whereas at the functional level joint program planning proceeds on a generally satisfactory basis, there is need for more effective participation in joint planning operations by the GOI's central coordinating agency—the Department of Economic Affairs (DEA) of the Ministry of Finance, and this has now been initiated. To a large extent, in any case, the annual TC and SA operational program budget submissions are now based on informal requests received by TCM from DEA in documentary form (but subject to later GOI official confirmation). Most of the projects in the budget year program submission are of a continuing nature and, hence, they have previously received both GOI and ICA/W approval in principle. There is general recognition by GOI officials that active participation in ICA program planning carries no assurance of ultimate funding availabilities. The entire budget year submission undergoes detailed scrutiny by a Country Team Staff Committee (TCM, EMB, USIS) organized for that purpose, and is subject to further review and approval by the Country Team, per se, prior to the TCM Director's sign-off. Political considerations are carefully weighed in advance to determine their suitability for discussion with GOI officials. Specific aid levels are not discussed at the planning stage with cooperating government officials.

3. Degree of Firmness of the Budget Year Program

As explained in para 2 above, there is adequate GOI partici-

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pation in ICA program planning at the functional level, and the requirements estimates reflected in the budget year submission may be regarded as firm in the sense that they connote joint agreement by the GOI and TCM technical divisions concerned, plus formal approval by the Country Team. (It should perhaps be reiterated here that most of the projects in the FY 1961 budget year submission are supported by project agreements executed in previous years.) In the event the proposed U.S. aid is approved and made available, the budget year program would be executed without major change (barring unforeseen contingencies beyond the Country Team's control). On the other hand, any substantial reduction in the proposed budget year aid level would automatically force drastic re-structuring of the program's composition.

4. Program Limitations

In principle, the overriding limitation is that of unavailability of program funds. There are, however, other limiting factors of a severely practical nature, e.g., those imposed by recruitment lags, contract negotiations delays and TCM (and GOI) staffing gaps. Obviously, a TC program limited to \$15.0 million and a proposed American staff limited to 364 (most of whom will not, in fact, materialize), projected against the backdrop of problems arising from a primitive economy in a country of India's physical dimensions and immense population, has inherent limitations which militate against any appreciable short-term impact on the country's sweeping economic objectives and goals. Such inherent limitations transcend the capabilities of external aid programs with modest funding resources and circumscribed administrative contexts, viz., the TC program, UN-assisted projects and program activities aided by the various Foundations.

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E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-11-004	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Determination of Soil Fertility and Fertilizer Use		

1	PROJECT BEGINS FY 52 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contrib- utions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
																	Non- Contract	Con- tract	Non-Contract U.S.	3rd Country
A. All Prior Years	SA TC	169 732	- 382	- 49	- -	169 301	- -	- -												
B. Net Deob.-Reob.	TC	(29)	4	(3)	-	(30)	-	-												
Current Funds	TC	42	36	6	-	-	-	-												
Total Actual Year FY 59	TC	13	40	3	-	(30)	-	-	5			5			2	-	3	-	-	
C. Operational Year FY 60	TC	82	44	14	-	24	-	-	7			7			2	-	3	-	-	
D. Budget Year FY		-																		
E. All Subsequent Years		-																		
F. Total All Years	SA TC	169 827										12								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub- Obligated in FY 59	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	SA TC	169 579	- 8	- 153	- (29)	- (21)	- (21)	- -	- 124	- 103	- 21		- 21	- 13	- 8
	Actual Year FY 59	TC				42	42	42	-	42	35	7		7	6	1
	Operational Year FY 60	TC											82	82	36	46
	TOTAL	SA TC	169 579	- 8	- 153	- 13	- 21	- 21	- -	- 166	- 138	- 28	82	110	55	55

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-19-180, Food Production, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	PROJECT NO. 386-18-005	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE FISHERIES		

1 PROJECT BEGINS FY 52 ENDS FY 62	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
															Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	SA TC	1,757 1,090	- 150	- 23	- 53	1,757 864	- -	- -										
B. Net Deob.-Reob.		(41)	4	-	(22)	(23)	-	-										
Current Funds		106	81	25	-	-	-	-										
Total Actual Year FY 59	SA TC	(10) 75	- 85	- 25	- (22)	(10) (13)	- -	- -	7							1	-	1
C. Operational Year FY 60	TC	42	14	28	-	-	-	-	12							1	-	6
D. Budget Year FY 61	TC	15	14	-	-	-	1	-	-							1	-	-
E. All Subsequent Years	TC	38																
F. Total All Years	SA TC	1,747 1,366																

2 Dollar Obliga- tion and Expend- iture	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub- Obligated in FY 59	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	SA TC		1664 738	- 149	93 352	(10) (31)	(10) 118	(10) 118	- -	83 321	70 125	13 196		13 196	7 100	6 96
Actual Year FY 59	TC				106	106	106	-	106	67	39		39	31	8	
Operational Year FY 60	TC											42	42	16	26	
TOTAL	SA TC		1664 738	- 149	93 352	(10) 75	(10) 224	(10) 224	- -	83 427	70 192	13 235	- 42	13 277	7 147	6 130

Problems Addressed: **Problem: I: Need to increase crop yields and total food production.**

E-1	FORM ICA 10-120 (4-59) Continuation Sheet	DATE PREPARED 1 November, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-18-005	E-1
				COUNTRY ECONOMIC PROGRAM		FISHERIES	

A. General Description of the Project

The aim of this project is to assist the Government of India to establish an effective exploratory fisheries program. The GOI established more than 10 years ago a pilot Deep Sea Fishing Station in Bombay with the object of charting fishing grounds and assessing the suitability of different gear and types of commercial fishing. Under the Second Five Year Plan similar stations are being established at Cochin, Visakhapatnam, and Port Blair. Ten Fisheries Extension Centers for inland fisheries training are also proposed to be established.

This is a continuing project, the present activities of which are being concentrated on assistance with work being undertaken by GOI at the Deep Sea Fishing Station in Bombay.

B. Specific Activity Targets or End Results of the Project

- a. To demonstrate off-shore gill netting and long-line trolling and trawling.
- b. To demonstrate to crews all aspects of mechanized and modern fishing methods and operations.
- c. To develop and expand the use of modern fish cultural methods and techniques.
- d. To provide training facilities in extension and technical subject matters to fisheries and extension personnel that will improve methods and techniques of catch handling, distribution and marketing of fish and fish products.

C. Progress Toward Achievement of Project Activity Targets

(1) Work Accomplished To Date

Specific information of a measurable nature as to the effect of TCM contributions to the GOI fisheries program is not available. However, with the association of TCM with the project, various modern fishing methods have been introduced at the GOI Deep Sea Fishing Station in Bombay and much useful information concerning fishery resources has been obtained. TCM has provided in prior fiscal years the services of 6 U.S. technicians and made provision for 2 Japanese technicians; 3 U.S. short-term consultants; training facilities for 17 participants; and commodities amounting to \$2,635,855. As of June 1957, U.S. technicians have helped to train 57 persons in mending and making modern nets, including trawl nets and another group of 50 men in handling modern fishing gear.

(2) Work Remaining to be Done

Two Japanese technicians will begin in FY60 to conduct demonstrations in purse-seine fishing at the Deep Sea Fishing Station in Bombay. Continued assistance will be extended in improvement and use of fishing gear and allied equipment. Attention will also be given to activities concerned with fishing villages.

The two purse-seine technicians from Japan as well as commodities in support of these technicians are yet to arrive in India due to delay in the finalization of contract. However, GOI is attempting to expedite the contract and the technicians are expected to arrive during FY60.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-18-005	E-1
				COUNTRY ECONOMIC PROGRAM		FISHERIES	

(3) Progress Toward Achievement of Project Activity Targets

Measurable information on specific progress is not available. Work thus far has been purely on a demonstrational and exploratory basis and the improved techniques have not yet been widely accepted and adopted. Although the catches have increased considerably after the use of TCM-supplied equipment, in general the masses of village fishermen have not materially benefitted as yet.

D. Nature of U.S. Contribution

a. Previous Fiscal Years thru FY59

During prior years, TCM has provided the services of 6 U.S. technicians and 3 short-term consultants, training facilities for 17 participants and commodities amounting to \$2,635,855. TCM has also provided funds under a GOI contract for the services of two Japanese Purse Seine technicians for a period of 1 year each.

b. Operational Year - FY60

Provision is made in FY60 OPAR for \$28,000 for training 6 participants, and \$14,000 to cover the services of one U.S. Fishery Advisor (Gear & Equipment) - PSN #64, who is assigned to the Deep Sea Fishing Station in Bombay. Section 402 rupees amounting to \$12,000 are provided to cover international roundtrip travel for participants and other costs.

c. Budget Year - FY61

In FY61, TCM will provide the continued services of the U.S. technician and \$500 for other costs.

Technician

FISH ADV GEAR & EQUIP - 10480.09. Position No.64. To work with the GOI Deep Sea Fishing Station in Bombay. FSR-5. 12 months. \$13,600.

Other Costs: \$500.

d. Future Fiscal Years

As presently planned, this project is to phase out in FY62 with the completion of assignment of the U.S. technician presently in India. Funds amounting to \$38,000 will be required in FY62 - \$12,000 to cover the technician's salary for 6 months and return travel to U.S., \$25,000 for training 6 participants, and \$1,000 for other costs. However, the GOI fisheries development program is on a continuing basis and TCM assistance may still be required with more emphasis placed on activities directed to the fishing villages and villagers.

E. Nature of Cooperating Country Contribution

Specific information as to GOI exact rupee contribution is not available. However, GOI provides for the maintenance and operation of the Deep Sea Fishing Station in Bombay, including establishment and operation of similar stations at Cochin, Visakhapatnam and Port Blair, as well as the ten Fisheries Extension Training Centers proposed to be established. Also GOI meets all the recurring costs related to the project.

F. Contributions from Other Sources and Relationship to Other Projects

The GOI fisheries program is being assisted by FAO and the Indo-Norwegian Foundation. Exact dollar contributions from these sources are, however, not available, but technicians, training of Indian personnel abroad and commodities are being provided.

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-18-005	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	India		
				COUNTRY ECONOMIC PROGRAM	FISHERIES		

Fish and fishery products are becoming an important component of the Indian diet. Therefore this project is related to Projects, 386-19-180, Food Production and 386-13-181, Livestock.

G. Financial Considerations

It is planned that TCM assistance to this project will phase out in FY62. However, GOI has plans to continue this project throughout the third Five Year Plan, and TCM assistance might be requested. It is understood that the GOI will make available necessary funds during the life span of the project.

Pipeline: Prior year pipeline of \$102,000 represents undelivered refrigeration equipment and contract services under a GOI contract, which is yet to be finalized. FY59 unexpended balance of \$8,000 is against uncompleted participant training. However, all unexpended balances are expected to be eliminated by June 30, 1961.

H. Cooperating Country-TCM Coordination

All elements included in the FY60 OPAR under this project are covered by requests from GOI. In general, contents of this presentation have been discussed with GOI officials concerned.

It is understood that the financial contributions proposed under this project for FY61 by TCM and GOI are subject to availability of funds in each case and such other factors as may arise.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1	
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-11-007		
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE			
				Agricultural and Home Science Extension and Training				

PROJECT BEGINS FY 51 ENDS FY 60	(A) Function of Funds	(B) Dollar Obligations (\$1,000)							(C) L/C Commitments or Obligations					(D) Numbers of People				
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper-ating Country	(1) Technicians Authorized		(2) Participants		
														Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	SA	215	-	-	-	215	-	-										
	TC	1,463	700	96	-	667	-	-										
B. Net Deob.-Reob.		(18)	1	(4)	-	(15)	-	-										
Current Funds		92	87	-	-	5	-	-										
Total Actual Year FY 59	SA	(9)	-	-	-	(9)	-	-										
	TC	83	88	(4)	-	(1)	-	-	1			1		6	-	-	1	-
C. Operational Year FY 60	TC	198	133	50	-	15	-	-	24			24		9	-	12	-	-
D. Budget Year FY		-																
E. All Subsequent Years		-																
F. Total All Years	SA	206																
	TC	1,744										25						

FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
		(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	SA	206	-	9	(9)	(9)	(9)	-	-	-	-		-	-	-
	TC	1,354	-	109	(9)	(9)	(9)	-	100	71	29		29	16	13
Actual Year FY 59	TC				92	92	87	5	92	73	19		19	14	5
Operational Year FY 60	TC											198	198	110	88
TOTAL	SA	206	-	9	(9)	(9)	(9)	-	-	-	-	-	-	-	-
	TC	1,354	-	109	83	83	78	5	192	144	48	198	246	140	106

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-19-180, Food Production, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-12-012	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Ground Water Exploration	

1	PROJECT BEGINS FY 52 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-Modities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	SA TC	3,400 699	- 98	- 17	1,010 153	2,390 431													
B. Net Deob.-Reob.		(2)																	
Current Funds		-																	
Total Actual Year FY 59	SA TC	(17) 15				(17) 15													
C. Operational Year FY																			
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years	SA TC	3,383 714																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	SA TC	3,015 542	- -	385 157	(17) 15	(17) 15	(17) 15	- -	368 172	364 20	4 152		4 152	4 76	76
	Actual Year FY 59															
	Operational Year FY 60	SA TCA														
TOTAL	SA TC	3,015 542	- -	385 157	(17) 15	(17) 15	(17) 15	- -	368 172	364 20	4 152	-	4 152	4 76	76	

Problems Addressed:

Commencing with FY 61, this project becomes a sub-project component of consolidated project 386-25-173, 'Water and Power Development and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-19-022	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Training in Agricultural Machinery Utilization		

1	PROJECT BEGINS FY 54 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years	TC	172	54	5	-	113	-												
B.	Net Deob.-Reob.																			
	Current Funds	TC	16	16	-	-	-	-												
	Total Actual Year FY 59	TC	16	16	-	-	-	-								1	-	-	-	-
C.	Operational Year FY 60	TC	24	20	-	-	4	-	1			1			1	-	-	-	-	
D.	Budget Year FY 61		-																	
E.	All Subsequent Years		-																	
F.	Total All Years	TC	212									1								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	146	4	26	-	4	4	-	26	15	11		11	6	5
	Actual Year FY 59	TC				16	16	16	-	16	15	1		1	1	-
	Operational Year FY 60	TC											24	24	16	8
	TOTAL	TC	146	4	26	16	20	20	-	42	30	12	24	36	23	13

Problems Addressed: Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-19-180, Food Production, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 November 1959		UNCLASSIFIED	India	386-11-028	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE AGRICULTURAL EDUCATION AND RESEARCH			

1	PROJECT BEGINS FY 53 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	SA TC	973 5,654	- 57	- 22	505 3,085	468 2,490														
B. Net Deab.-Reab.		159	2	(4)	458	(297)														
Current Funds		1,028	20	-	1,008	-														
Total Actual Year FY 59	SA TC	- 1,187	- 22	- (4)	- 1,466	- (297)									1	43	-	-	92	
C. Operational Year FY 60	TC	878	35	-	743	100	-	-	225						-	43	-	-	60	
D. Budget Year FY	-	-																		
E. All Subsequent Years	-	-																		
F. Total All Years	SA TC	973 7,719																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years.	SA TC	445 1,371	365 430	528 4,283	- 159	365 589	365 419	- 170	528 4,442	70 1,409	458 3,033		458 3,033	229 1,516	229 1,517
	Actual Year FY 59	TC				1,028	1,028	1,028	-	1,028	19	1,009		1,009	200	809
	Operational Year FY 60	TC											878	878	35	843
TOTAL	SA TC	445 1,371	365 430	528 4,283	- 1,187	365 1,617	365 1,447	- 170	528 5,470	70 1,428	458 4,042	- 878	458 4,920	229 1,751	229 3,169	

Problems Addressed: Commencing with FY61, this project becomes a sub-project component of consolidated Project 386-11-182, Agricultural Education and Research, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-15-031	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Modern Storage of Foodgrains	

1	PROJECT BEGINS FY 54 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	1,409	51	-	-	1,358	-													
B. Net Deob.-Reob.	TC	1	1	-	-	-	-													
Current Funds	TC	16	16	-	-	-	-													
Total Actual Year FY 1959	TC	17	17	-	-	-	-								1	-	-	-	-	
C. Operational Year FY 1960	TC	86	16	-	-	70	-								1	-	-	-	-	
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	1,502																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/ 59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	1,379	28	30	1	29	29	-	31	4	27		27	14	13
	Actual Year FY 59	TC				16	16	16	-	16	15	1		1	1	-
	Operational Year FY 60	TC											86	86	16	70
	TOTAL	TC	1,379	28	30	17	45	45	-	47	19	28	86	114	31	83

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-19-180, Food Production, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-13-041	E-1
				COUNTRY ECONOMIC PROGRAM			

1	PROJECT BEGINS FY 56 ENDS FY 60	(A) Function of Funds	(B) Dollar Obligations (\$1,000)							(C) L/C Commitments or Obligations					(D) Numbers of People						
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		Other External Financing	(1) Technicians Authorized		(2) Participants		
																	Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	505	116	23	-	366	-														
B. Net Deob.-Reob.	TC	(35)	1	(4)	-	(32)	-														
Current Funds	TC	74	30	44	-	-	-														
Total Actual Year FY 1959	TC	39	31	40	-	(32)	-		5			5			6	-	8	-	-		
C. Operational Year FY 1960	TC	90	34	36	-	20	-		13			13			2	-	7	-	-		
D. Budget Year FY																					
E. All Subsequent Years																					
F. Total All Years	TC	634										18									

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	348	43	157	(35)	8	8	-	122	97	25		25	13	12
	Actual Year FY 59	TC				74	74	74	-	74	27	47		47	35	12
	Operational Year FY 60	TC											90	90	28	62
	TOTAL	TC	348	43	157	39	82	82	-	196	124	72	90	162	76	86

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-13-181, Livestock, and the project description is included therein.

PROJECT NO. 386-11-042

E-1

GENERAL INFORMATION,
PERSONNEL AND TRAINING

Country	(C) Other External Financing	(D) Numbers of People			
		(1) Technicians Authorized		(2) Participants	
		Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
		2			

(C) Operational Year FY 60			
(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	39	18	21
	3	3	-
-	-	-	-
-	42	21	21

CONTRIBUTIONS TO THIS PROJECT

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-11-042	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	AGRICULTURAL INFORMATION, PRODUCTION AND TRAINING		

A. General Description of the Project

Assistance under this project was directed to Indian States and the Indian Council of Agricultural Research, which was responsible for developing a nation-wide Agricultural Information Program.

Agricultural information is for the purpose of bringing research findings and scientific knowledge through extension workers to cultivators, who will, in turn, apply this knowledge in agricultural production. There is a considerable gap between information available and the information applied by cultivators in production. Application of research findings by farmers will substantially assist the food production program.

This project, initiated in FY52, phased out in FY59 with the return of 2 U.S. technicians to U.S. However, since agricultural information and extension are inter-related, from FY60 assistance to the agricultural information phase has been included under the Extension sub-project of consolidated project No.386-19-180, Food Production.

B. Specific Activity Targets or End Results of the Project

To develop Agricultural Information Units at Central and State levels and train their staff in the operation and use of mass communication media.

C. Progress Toward Achievement of Project Activity Targets

(1) Work Accomplished To Date

With the establishment of Extension Wing by the Ministry of Food and Agriculture the responsibility of the ICAR for the Extension phase of the Agricultural Information Program

has been transferred to the Information Section of the Extension Wing. The Information Section consists of various units such as: Extension Publications, Visual Aids, Training, Exhibition, Photographic, Radio, Art, Offset Press, and Distribution. The Information Section has established an active program of publication of agricultural magazines, bulletins, leaflets, pamphlets and posters.

Agricultural information units have been organized and staff have been appointed in each State. In most of the States the unit is active in the preparation and production of agricultural information materials. However, since no TCM technicians have been working at State level except for conducting information workshops, some of the States are far behind in progress than others.

A film production unit has been set up at Center level and a number of films in agricultural teaching has been produced.

TCM has supplied 20 off-set printing presses to Center and States as well as cameras, films, audio-visual aids, etc.

TCM technicians have assisted the staff of the Information Unit in holding workshops and short-courses to train State Information Officers as well as Central officers in the use of the printing presses and cameras and in the production and utilization of bulletins, pamphlets, posters and other audio-visual aids. This activity has included an "All-India Information Seminar", one month's "All-India Information Short-Course" and thirteen State Information Workshops.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-11-042	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	AGRICULTURAL INFORMATION, PRODUCTION AND TRAINING		

<p>(2) <u>Work Remaining to be Done</u></p> <p>From FY60, activities in agricultural information will be provided under the sub-project "Agricultural Extension" of Project 386-19-180, Food Production.</p> <p>(3) <u>Progress Toward Achievement of Project Activity Targets</u></p> <p>Work under this project has been handicapped because of lack of coordination between Information Staff and Extension workers. Moreover, information program in most of the States has been ineffective mainly because TCM advisors, who were assigned at the Center, could spend only a very limited amount of time at the State level. However, since the agricultural information activities have now mostly been transferred to the Extension Wing, which is also responsible for extension activities, better coordination is expected.</p> <p>D. <u>Nature of U.S. Contribution</u></p> <p>a. <u>Previous Fiscal Years thru FY59</u></p> <p>TCM has provided the services of 7 technicians at the Center level; training facilities for 4 participants; and commodities worth about \$205,000.</p> <p>b. <u>Operational Year - FY60</u> - See 'd' below.</p> <p>c. <u>Budget Year - FY61</u> - See 'd' below.</p> <p>d. <u>Future Fiscal Years</u></p> <p>Agricultural information activities, beginning FY60, are carried under "Agricultural Extension", a sub-project of 386-19-180, Food Production.</p>	<p>E. <u>Nature of Cooperating Country Contribution</u></p> <p>Information as to exact rupee expenditure by GOI is not available. However, GOI provides for the information staff both at the Center and State levels, buildings, paper and supplies for the maintenance of the information units. Also GOI meets all the recurring costs directly related to the project.</p> <p>F. <u>Contributions from Other Sources and Relationship to Other Projects</u></p> <p>Insofar as is known no other external assistance has been available to this project.</p> <p>Since agricultural information is closely related to agricultural extension, and since both the activities contribute substantially to increased food production, this project is related to Project 386-19-180, Food Production.</p> <p>G. <u>Financial Considerations</u></p> <p>Although this project has phased out in FY59, GOI proposes to maintain the agricultural information units at Center and State levels during the Second Five Year Plan. Discussions with GOI officials concerned indicate that they propose to expand the Extension and Information activities side by side in the Third Five Year Plan. TCM will assist in these fields under the Food Production Project.</p> <p><u>Pipeline:</u> No pipeline is involved.</p> <p>H. <u>Cooperating Country-TCM Coordination</u></p> <p>Inapplicable since project phased out.</p>
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PAGE 27 OF 371 PAGES	SECURITY CLASSIFICATION UNCLASSIFIED	SHEET 3 OF 3 SHEETS TO THIS Project
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E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	India	58 6-14-045	
			COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Agricultural Production and Marketing Economics		

1	PROJECT BEGINS FY 55 ENDS FY 65	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years	TC	218	90	25	-	105	-												
B.	Net Deob.-Reob.		(8)	-	(1)	-	(2)													
	Current Funds		20	1	19	-	-													
	Total Actual Year FY 59	TC	17	1	18	-	(2)	-	2						1	-	5			
C.	Operational Year FY 60	TC	79	18	10	-	51	-	4						1	-	2			
D.	Budget Year FY 61	TC	110	44	16	-	50	-							2	-	3			
E.	All Subsequent Years	TC	292																	
F.	Total All Years	TC	716																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	170	-	48	(5)	(3)	(3)	-	45	36	9		9	7	2
	Actual Year FY 59	TC				20	20	20	-	20	1	19		19	14	5
	Operational Year FY 60	TC											79	79	16	65
	TOTAL	TC	170	-	48	17	17	17	-	65	37	28	79	107	37	70

Problems Addressed:

Problem I - Need to increase crop yields and total food production.

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	58 6-14-043	E-1
				COUNTRY ECONOMIC PROGRAM			

A. General Description of the Project

The GOI Ministry of Food and Agriculture carries forth its work in Agricultural Economics through the Directorate of Economics and Statistics. The objectives of this work are: (1) Measure and interpret relevant economic changes, (2) Keep the Ministry informed on economic conditions, and (3) conduct other relevant research.

To date most work in Agricultural Economics has had to do with data collection and reporting. To assist in doing this job, agricultural economics centers directly connected with the Central Directorate have been established in Poona; Calcutta; Delhi School of Economics, New Delhi; Madras and Bhopal. Also State Departments of Agriculture collect data and do economic intelligence work as a service for GOI and their respective States. For the most part, the statistical analysis method has been relied upon and the work undertaken has related primarily to prices.

MFA wishes to improve on its techniques of sampling and data collection and expand this into more reliable forecasts as a service to planning bodies. It also realizes that the base of agricultural economics work should be broadened and more emphasis put on production and marketing economics. With assistance from TCM an outlook service will be developed at the Central Directorate in New Delhi. Materials from this work will provide information to policy makers; also economic data will be interpreted and put in a form which will be of valuable use to cultivators and those people working more directly with them.

Under this project TCM assists the Directorate of Economics and Statistics in improving techniques in data collection, processing and reporting for agricultural economic planning purposes as well as in practical farm production and marketing economics research in order to provide guidance intelligible to cultivators and farm workers.

B. Specific Activity Targets and End Results of the Project

- a. To improve data collection in the field, to process mass economic data into usable form, and to develop a systematic schedule of meaningful reports, primarily to meet the needs of economic planners and policy makers.
- b. To develop plans and to carry out practical economic research in farm production economics and marketing with a view to provide the best possible guidance to cultivators and to agricultural workers.

C. Progress Toward Achievement of Project Activity Targets

(1) Work Accomplished To Date

- a. Agricultural economics centers established by the Directorate have been furnished TCM equipment. Staff at these centers collect and analyze local data and supply materials to the Central Directorate in New Delhi which is responsible for periodic economic reports and appraisals of agricultural trends. Participants trained in the U.S. in the field of statistics have now returned to Directorate and to the field centers.
- b. Some 600 villages have been surveyed by the Directorate in order to obtain basic data for more intensive studies. The Production Economist while in India conducted studies in six representative villages in four States. These studies have shown that by developing a good farm plan, production and income can be doubled, labor much more efficiently utilized, and the return per work day increased at least by 50%. These findings are encouraging further research efforts in this field.

E-1	FORM ICA 16-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-14-043	E-1
				COUNTRY ECONOMIC PROGRAM		Agricultural Production and Marketing Economics	
<p>(2) <u>Work Remaining to be Done</u></p> <p>There is still need to (1) up-grade the statistical and reporting work, and advice in the area will be provided by the technicians to be assigned in FY60 and FY61, (2) to further carry out farm management research and also to build up agricultural economics materials and services that will have more direct value to cultivators on a problem-solving basis.</p> <p>(3) <u>Progress Toward Achievement of Project Activity Targets</u></p> <p>TCM equipment has been furnished to the 5 Agro-Economic research centers. Six participants have completed training and are on job; three additional participants are currently in training. Studies conducted in four states reveal that with development of improved farm plans production and income can be doubled.</p>				<p>Section 402 rupees amounting to \$4,000 have been provided to cover international roundtrip travel for the participants.</p> <p>c. <u>Budget Year- FY61</u></p> <p>In FY61, TCM will provide the continued services of an Agricultural Economics Statistician. It will also provide for the services of a 6-month consultant in display of food and agricultural statistics. Upon request from GOI, provision will also be made for the services of an Agricultural Economics Advisor (Farm Management). Training facilities for 3 participants are anticipated. Commodities amounting to \$50,000 will also be provided.</p> <p><u>Participants:</u> 3 for 12 months each for training in the U.S. in agricultural outlook. \$15,800.</p> <p><u>Technicians:</u></p> <p>AGR ECON STAT. 10117.03. Position No.322. FSR-4. To advise the Directorate of Economics and Statistics, MFA, in the collection and processing of agricultural outlook data. 12 months. \$15,800.</p> <p>AGR ECON ADV FARM MGT. 10117.01. New. No position number assigned. FSR-4. To work with Directorate of Economics and Statistics, MFA, to advise on farm management research and other related fields. ETA October 1960. 9 months. \$18,000.</p> <p><u>Consultant:</u> 6-month consultant in display of food and agricultural statistics to work with the Directorate of Economics and Statistics, MFA. ETA in FY61. Full costs covered. \$10,000.</p> <p><u>Commodities:</u> Agro-Economic survey and processing equipment (Code 880) to fill out equipment requirements at Center and regional stations. \$50,000.</p>			
<p>D. <u>Nature of U.S. Contribution</u></p> <p>a. <u>Previous Fiscal Years thru FY59</u></p> <p>Nine participants have been trained, two U.S. technicians (one Production Economist and the other a Cooperative Credit Specialist) completed 2-year tours of duty each, and commodities in the amount of \$107,000 have been provided.</p> <p>b. <u>Operational Year -FY60</u></p> <p>During the FY60 Operational Year TCM proposes that assistance involving agricultural outlook work, including reporting be commenced. Provision has therefore been made for one U.S. technician (AGR ECON STAT, Position No.322) in this field (\$18,000). Requests for the training of two participants have been received from GOI, for which \$10,400 has been provided. Also commodities amounting \$51,000 have been provided.</p>				<p>PAGE 30 OF 371 PAGES</p> <p>SECURITY CLASSIFICATION UNCLASSIFIED</p> <p>SHEET 3 OF 4 SHEETS TO THIS Project</p>			

E-1	FORM ICA 16-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-14-045	E-1
				COUNTRY ECONOMIC PROGRAM		Agricultural Production and Marketing Economics	

d. Future Fiscal Years

Through the Third Five Year Plan TCM will continue to assist GOI in agricultural economics. It is expected that requests for TCM technicians to advise and help to improve work in the Central Directorate of Economics and Statistics and for limited participant training will continue. Requests for technicians in production and marketing economics research are expected.

TCM assistance in future fiscal years will include 5 technicians to be on board each for 4 years or a total of 12 man-years till the end of FY65, training facilities for 12 participants at an average of 3 per year, and a small amount of commodities of \$12,000 at an average of \$5,000 each year. Total TCM contribution from FY62 through the life span of the project is estimated to be \$292,000.

E. Nature of Cooperating Country Contribution

The GOI has, with commodity assistance from TCM, established five Agricultural Economics Research Centers in as many States, and has staffed them. It also maintains the Central Directorate in New Delhi. Field surveys are handled and financed by GOI as are the publication of reports and other operational costs. Exact rupee contribution from GOI is not available.

F. Contribution from Other Sources and Relationship to Other Projects

Ford Foundation has provided several technicians who have been assigned to colleges in Poona, Cuttack, Madras and Chandigarh to work directly with graduate students at these schools primarily in research methods. Agricultural economics serves as the primary discipline for this training. Rockefeller Foundation has also indicated an interest in graduate work in agricultural economics, but no definite program is established in this field. This project,

as designed, would supply technicians in Project 386-19-180, Food Production, with current results of economic research, and other economics information that will be beneficial to cultivators.

G. Financial Consideration

The U.S. contribution for FY61 is expected to be \$109,400, to provide training facilities for 3 participants, to cover the services of two technicians and one consultant, and to provide commodities amounting to \$50,000.

GOI will continue to take care of annual recurring costs for operating the Directorate and the field Agricultural Economics Centers.

Pipeline:

Pipeline shown in prior fiscal years represents uncompleted participant training, which is expected to be eliminated by June 30, 1961.

H. Cooperating Country-TCM Coordination

All elements in our FY60 program are backed by requests from GOI. As in other projects some of these elements carry over into the budget year. Proposals expressed herein are in line with GOI-TCM thinking at this time.

It is understood that the financial contributions proposed herein for FY61 by TCM and GOI are contingent upon the availability of funds and such other limiting factors as may arise.

PAGE 31 OF 371 PAGES	SECURITY CLASSIFICATION UNCLASSIFIED	SHEET 4 OF 4 SHEETS TO THIS
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E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-13-061	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Crop Production & Development			

1	PROJECT BEGINS FY 55 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A.	All Prior Years	SA TC	10 363	- 134	- 102	- -	10 127	- -											
B.	Net Deob.-Reob.		3	-	(3)	-	6	-											
	Current Funds	TC	106	57	-	-	29	-											
	Total Actual Year	SA	(2)	-	-	-	(2)	-											
	FY 1959	TC	111	57	17	-	37	-							6	-	3	-	
C.	Operational Year	TC	105	64	32	-	9	-	15			15			3	-	7	-	
D.	Budget Year																		
E.	All Subsequent Years																		
F.	Total All Years	SA TC	8 579									15							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
			Dollar Obligation and Expenditure	All Prior Years	SA TC	8 166	- -	2 197	(2) 5	(2) 5	(2) 5	- -	- 202	- 104	- 98	
	Actual Year FY 59	TC				106	106	106	-	106	49	57		57	28	29
	Operational Year FY 60	TC											105	105	55	50
	TOTAL	SA TC	8 166	- -	2 197	(2) 111	(2) 111	(2) 111	- -	- 308	- 153	- 155		- 260	- 141	- 119

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-19-180, Food Production, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-14-067	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Farmers' Organization		

1	PROJECT BEGINS FY 56 ENDS FY 60	(A) Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	160	8	152	-	-	-	-												
B. Net Deob.-Reob.	TC	37	-	37	-	-	-	-												
Current Funds	TC	19	12	-	-	7	-	-												
Total Actual Year FY 1959	TC	56	12	37	-	7	-	-	40						1	-	20	-	-	
C. Operational Year FY 1960	TC	56	16	40	-	-	-	-	37						1	-	20	-	-	
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	272																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	80	-	80	37	37	37	-	117	76	41		41	30	11
	Actual Year FY 59	TC				19	19	19	-	19	10	9		9	4	5
	Operational Year FY 60	TC											56	56	15	41
TOTAL	TC	80	-	80	56	56	56	-	136	86	50		56	106	49	57

Problems Addressed: Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-14-183, Agricultural Cooperatives & Farm Organizations, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 NOVEMBER 1959		UNCLASSIFIED	INDIA	386-13-069	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Dairy Development			

PROJECT BEGINS FY 55 ENDS FY 60	(A) Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
															Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	627	28	24	-	575	-											
B. Net Deab.-Reab.		193	-	3	-	190	-											
Current Funds		55	35	20	-	-	-											
Total Actual Year FY 1959	SA TC	190 58	- 35	- 23	-	190	-		9			9		7	-	5	-	-
C. Operational Year FY 1960	TC	47	42	-	-	5	-	-	1			1		3	-	-	-	-
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	SA TC	190 732										10						

Dollar Obligation and Expenditure	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years		TC	580	-	47	(13)	(13)	(13)	-	34	34	-		-	-	-
Actual Year FY 59		SA TC				190 58	190 58	190 58	- -	190 58	- 29	190 29		190 29	38 21	152 8
Operational Year FY 60		TC											47	47	33	14
TOTAL		SA TC	- 580	- -	- 47	190 45	190 45	190 45	- -	190 92	- 63	190 29	- 47	190 76	38 54	152 22

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-13-181, Livestock, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-15-093	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Cooperative Marketing & Warehousing of Agricultural Produce		

1	PROJECT BEGINS FY 57 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	7	7	-	-	-	-	-												
B. Net Deob.-Reob.		-	-	-	-	-	-	-												
Current Funds	TC	23	-	23	-	-	-	-	12											
Total Actual Year FY 1959	TC	23	-	23	-	-	-	-	12						2	-	7	-	-	
C. Operational Year FY																				
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	30																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY					
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60		
	All Prior Years	TC	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dollar Obliga- tion and Expend- iture	Actual Year FY 59	TC				23	23	23	-	23	-	23			23	15	8	
	Operational Year FY 60	TC																
	TOTAL	TC	7	-	-	23	23	23	-	23	-	23	-	23	15	8		

Problems Addressed: Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-14-183, Agricultural Cooperatives & Farm Organizations, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-13-100	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Calcutta Milk Scheme		

PROJECT BEGINS FY 56 ENDS FY 60	Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		(1) Total	(2) U.S. Technicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
															Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	357	-	5	-	352	-	-											
B. Net Deob.-Reob.		88	-	-	-	88	-	-											
Current Funds		5	-	5	-	-	-	-											
Total Actual Year FY 1959	SA	89	-	-	-	89	-	-											
	TC	4	-	5	-	(1)	-	-									2	-	1
C. Operational Year FY 1960	TC	38	30	8	-	-	-	-	5			5					2	-	2
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years	SA	89																	
	TC	399										5							

FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
		(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	TC	321	-	36	(1)	(1)	(1)	-	35	33	2		2	2	-
Actual Year FY 59	SA				89	89	89	-	89	-	89		89	20	69
	TC				5	5	5	-	5	-	5		5	4	1
Operational Year FY 60	TC											38	38	25	13
TOTAL	SA	-	-	-	89	89	89	-	89	-	89	-	89	20	69
	TC	321	-	36	4	4	4	-	40	33	7	38	45	31	14

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-13-181, Livestock, and the project description is included therein.

ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	PROJECT NO. 386-11-147	E-1
REVISION NO.	COUNTRY ECONOMIC PROGRAM		PROJECT TITLE U. P. AGRICULTURAL UNIVERSITY	

Contributions (\$1,000)				(B) L/C Commitments or Obligations					(C)	(D) Numbers of People				
(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country	Other External Financing	(1) Technicians Authorized		(2) Participants		
										Non-Contract	Contract	Non-Contract		Contract
												U.S.	3rd Country	
148	-	-												
20	-	-												
132	300	-												
152	300	-												2
182	-	-	-	34							-	13	-	4

Estimated Obligations 10/58	(B) Actual Year FY 59							(C) Operational Year FY 60			
	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
48	20	168	148	20	168	-	168		168	84	84
	432	432	-	432	432	-	432		432	90	342
								182	182	-	182
48	452	600	148	452	600	-	600	182	782	174	608

Project becomes a sub-project component of consolidated project 386-11-182, search, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-14-149
			COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Cooperative Membership Education	

1	PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP 402	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract	Contract	U.S.
A. All Prior Years	TC	21	-	-	-	21	-													
B. Net Deob.-Reob.	TC	4	-	-	-	4	-													
Current Funds	TC	20	20	-	-	-	-													
Total Actual Year FY 1959	TC	24	20	-	-	4	-								1	-	-	-	-	
C. Operational Year FY 1960	TC	26	18	3	-	5	-		2						1	-	1	-	-	
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	71																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior				(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/ 58	(2) Un-Sub-Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/ 59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/ 60	
Dollar Obligation and Expenditure	All Prior Years	TC	-	21	21	4	25	25	-	25	-	25		25	12	13	
	Actual Year FY 59	TC				20	20	20	-	20	19	1		1	1	-	
	Operational Year FY 60	TC											26	26	16	10	
TOTAL	TC	-	21	21	24	45	45	-	45	19	26	26	52	29	23		

Problems Addressed: Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-14-183, Agricultural Cooperatives & Farm Organizations, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	India	386-19-180	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE			
				FOOD PRODUCTION			

1	PROJECT BEGINS FY 1961 ENDS FY 1966	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People						
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants			
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract	
A.	All Prior Years																				
B.	Net Deob.-Reob.																				
	Current Funds																				
	Total Actual Year FY																				
C.	Operational Year FY																				
D.	Budget Year FY 61	TC	1,156	754	206	-	180	16									49	-	52	-	-
E.	All Subsequent Years	TC	9,323																		
F.	Total All Years	TC	10,479																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY								
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/					
Dollar Obligation and Expenditure	All Prior Years																				
	Actual Year FY																				
	Operational Year FY																				
	TOTAL																				

Problems Addressed: Problem I: Need to increase crop yields and total food production.

E-1	FORM ICA 18-120 (4-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-19-180	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	FOOD PRODUCTION		

A. General Description of the Project

This covering project is composed of five supporting sub-projects which bear directly on food production in India, and a sixth sub-project, grain storage, which is included here because of its relationship to the food problem. By consolidating these activities clearly defined objectives in agriculture can be pursued and relationships between sub-projects can be established. This change in presentation represents an attempt to point objectives toward a definite target.

This project is designed to assist India, in certain specific areas, with its food production program. In particular, it proposes to bring about changes in agricultural practices of the cultivators which, in turn, will result in higher yields per acre of cultivated land. An outline of sub-projects under Food Production, with new short titles, are shown opposite those project numbers and titles, under which these activities were submitted in previous fiscal years.

<u>Sub-Projects</u>	<u>Number and Old Titles</u>
Agr. Extension	386-11-007, Agr. & Home Science Extension & Training
Fertilizer Use	386-11-004, Determination of Soil Fertility & Fertilizer Use
Crop Improvement	386-13-061, Crop Production & Development
Soil & Water Conservation	386-12-156, Soil & Water Conservation
Agr. Machinery	386-19-022, Training in Agr. Machinery Utilization
Grain Storage	386-15-031, Modern Storage of Foodgrains

A major problem in Indian agriculture to which a solution must be found is that of converting development plans from Central and State Government levels to action by cultivators. Or put in another way, a method must be found and effectively utilized to narrow the gap between desk and laboratory know-how, and actual farm know-how and practice. In India this gap is extremely wide and the problem is how to bridge it. For example, a considerable amount of knowledge is being accumulated from soil tests and other resources on fertilizer use, but on farms knowledge of proper use is decidedly limited. Improved soil conservation practices and methods of hybrid corn culture have been successfully demonstrated in certain areas, but wide dissemination of the results obtained proves to be a very difficult problem. Indian scientists know many of the technical answers to agricultural problems but getting them applied by the cultivators in day-to-day farm operations is a major obstacle. From every article and report by TCM personnel and others, need for removing this obstacle is indicated.

The Food Production Project, as proposed, will give special emphasis to agricultural extension and will include two major aspects:

- a. Extension teams of not less than 5 U.S. technicians each to be posted in each Indian State beginning with five pilot States in FY61 and progressively covering additional States so that by FY63 such a team will be posted in each of the 14 States.
- b. Back-stopping service by GOI and U.S. specialists working on fertilizer requirements and use, crop improvement, soil and water conservation (including farm irrigation and drainage), and, to a more limited extent, farm machinery.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-19-180	E-1
				COUNTRY ECONOMIC PROGRAM		FOOD PRODUCTION	

A tabular presentation of the major project in FY61 may be summarized as shown below:

(Dollar costs in thousands)

Sub-Projects	Participants		Technicians		Commo- dities	Other Costs	Total Costs
	No.	Cost	No.	Cost			
Agr. Extension	15	58	29	361	100	6	525
Fertilizer Use	5	20	3	58	5	1	84
Crop Improvement	10	40	6	95	35	2	172
Soil & Water Cons.	20	78	15	199	40	5	322
Agr. Machinery	-	-	1	13	-	1	14
Grain Storage	2	10	1	28	-	1	39
Total	52	206	55	754	180	16	1,156

B. Specific Activity Targets or End Results of the Project

- To develop by 1966 a well organized and effective agricultural extension system in each State manned by trained personnel and backstopped by specialists and a sustained flow of information on improved farm practices.
- To get cultivator usage of improved farm practices by 1966 sufficiently to realize at least 5 per cent yearly increase in per acre yields of food crops.

C. Progress Toward Achievement of Activity Targets

(1) Work Accomplished To date

Since the several sub-projects which now comprise this new major project were submitted individually in prior years, past accomplishments of each will be covered briefly. This

presentation will preface a later and consolidated description of the work remaining to be done.

Sub-Projects

1. Agricultural Extension

This sub-project was initiated in FY51 as an independent project and has continued to the present as Project 86-11-007, Agricultural and Home Science Extension and Training. It provides assistance to GOI in an attempt, through pre-service and in-service training, to build up and maintain a competent staff of District and Block Development Officers, and a corps of Village Level Workers. For the most part, TCM personnel have been assigned to States and participated through Departments of Community Development and Departments of Agriculture as advisors in State training programs. Whereas this service by TCM technicians has, no doubt, been valuable, it has been almost impossible due to the nature of the assistance rendered to delineate specific project objectives from the much broader GOI goals in this field.

Under the project to date, 51 technicians and one consultant have been assigned, training has been provided for 75 participants, and commodities funded in the amount of \$885,000. This assistance has contributed to the training of approximately 30,000 male and 1,000 female Village Level Workers (VLW's) in India.

In FY61, the elements of the major project which would support this particular activity are:

<u>Participants</u> (No.)	<u>Technicians</u> (No.)	<u>Commodities</u> (\$)	<u>Other Costs</u> (\$)
15	29	100,000	6,000

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-19-180	E-1
				COUNTRY ECONOMIC PROGRAM		FOOD PRODUCTION	

ii. Fertilizer Use

Work in this activity field has been carried under Project 86-11-004, Determination of Soil Fertility and Fertilizer Use. Assistance has been directed to the GOI Ministry of Food and Agriculture in problems related to fertilizer use and soil testing.

A large proportion of cultivable land in India is heavily depleted of plant nutrients. Major emphasis of this project activity has been placed on popularizing commercial fertilizers. Attention has been directed to plans for internal manufacture and to problems of handling and distribution of fertilizers. Fertilizer demonstrations and field trials were begun in FY1952 by TCM and GOI technicians. These have been followed up wholly with GOI initiative and until now some 800,000 demonstrations and trials on cultivator fields (an average of about one and one-half per village) are completed.

Every available report clearly shows that commercial fertilizer when applied on an approved basis is one of the quickest and most profitable methods to insure increased yields. Nevertheless, estimates are that only about 5 per cent of India's cultivators apply commercial fertilizers. For the most part, these are more enlightened, larger farm operators in irrigation districts. Even this small proportion of cultivators represents more than twice the number of fertilizer users in FY52. Problems confronted in this field may be indicated as insufficient supplies, insufficient purchasing power and farm credit and lack of a comprehensive and coordinated system of distribution. This latter problem may become more severe if GOI is successful in increasing fertilizer availabilities.

Another aspect of fertilizer work has to do with soil testing wherein TCM provided technical advice and equipment sufficient to establish 24 soil testing laboratories. Twenty-three of the laboratories are now in operation and 15 have reached the goal of analyzing 1,000 soil samples per month. Efforts are being made to bring the other 8 operating laboratories up to this standard and to put the remaining one in operation.

In prior fiscal years, 31 participants have been trained in various aspects of soils and fertilizers, 14 technicians and 7 short-term consultants have been assigned, and commodities amounting to \$440,000 were furnished largely out of DA funds. This sub-project is scheduled to phase out in FY62 and such assistance as may subsequently be provided will be included in Agricultural Extension and Crop Improvement.

In FY61, the elements of the major project which would support this particular activity are:

<u>Participants</u> (No.)	<u>Technicians</u> (No.)	<u>Commodities</u> (\$)	<u>Other Costs</u> (\$)
5	3	5,000	1,000

iii. Crop Improvement

Assistance to crop improvement in prior fiscal years covered several phases of work. Major emphasis has been on seed improvement, especially hybrid corn development in the States of Punjab and Uttar Pradesh. Lesser assistance has been provided to establish a cereal testing laboratory at the Indian Agricultural Research Institute, maintenance and operation of tractors and other farm equipment used in crop

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-19-180	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	FOOD PRODUCTION		

production at the Tarai State Farm in U.P., and establishing a farm shop in connection with the Central Rice Research Institute, Cuttack. Short-term consultants have studied and reported on sugarcane, potatoes and seed certification.

As a demonstration, hybrid corn work in India has been successful. Through experiments productive American hybrids have been determined and in some instances yields have been as much as four times that of local varieties. Hybrid seed corn is now being produced by a small number of local farmers and adoption by other farmers has met with reasonable success. However, TCM experience indicates because of shortcomings in the extension efforts and problems within and between States, successful demonstrations have not resulted in automatic adoption of hybrid corn by the farmers. In many respects each step is met with problems to be solved. As now planned, hybrid maize work will continue. Also, seed improvement work in sorghum and millets, both important foodgrains, is an area that will require assistance.

Timing for equipment to establish a cereal testing laboratory, PIO/C'd in FY58, was predicated on the idea that before the equipment arrived promised housing space would be provided. IARI is now making space available for housing the laboratory and provision has been made for recruitment of a technician.

A small organized training element has been attached to agricultural machinery work at Tarai State Farm. Farm shop equipment has arrived at the Rice Research Institute at Cuttack and an Indian technician, who until recently worked at the Agricultural Machinery Training School, Budni, has been assigned to this work. The U.S. technician now located at Budni can assist in installation and putting the shop in operation.

In FY61, the elements of the major project which would support this particular activity are:

<u>Participants</u> (No.)	<u>Technicians</u> (No.)	<u>Commodities</u> (\$)	<u>Other Costs</u> (\$)
10	6	35,000	2,000

iv. Soil and Water Conservation

This sub-project maintains the title given in FY59. Through FY58 work in soil and water conservation was submitted as a functional phase of soil and fertilizer work under Project 86-11-004, Determination of Soil Fertility and Fertilizer Use.

Efforts in this field are designed to assist the Central Ministry of Food and Agriculture, and States in training programs and research, and in certain areas, to demonstrate through pilot schemes approved soil and water conservation practices. In the future it is proposed also to include and give special attention to improved farm irrigation and drainage practices.

In GOI soil conservation work is administered by the Central Soil Conservation Board, and in States by designated officials. Nine Central Soil Conservation Research and Training Centers have been established by GOI assisted by certain items of equipment from TCM. U.S. technicians have concentrated most of their efforts at centers in Dehra Dun, Kotah and Ootacamund. To date 18 participants have been trained, 8 technicians and 1 consultant have been assigned to this work. Also commodities in the amount of \$79,000 have been provided through FY60.

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				COUNTRY ECONOMIC PROGRAM		FOOD PRODUCTION	

In FY61, the elements of the major project which would support this particular activity are:

<u>Participants</u> (No.)	<u>Technicians</u> (No.)	<u>Commodities</u> (\$)	<u>Other Costs</u> (\$)
20	15	40,000	5,000

v. Agricultural Machinery

In Indian agriculture one major condition relevant to low yields per acre of farm land is poor tillage practices. Shallow plowing which may only scratch the land surface and lack of weed control are examples of these poor practices.

This sub-project which has been carried since FY54 as 86-19-022, Training in Agricultural Machinery Utilization, was designed in recognition that tractors and auxiliary equipment are finding increasing use in agriculture and development work. In an attempt to minimize and provide for rapid repair, a training school was established with assistance from TCM. The training center is located in Budni, Madhya Pradesh and offers courses in maintenance, repair, and effective utilization of modern farm machinery.

TCM has thus far provided one technician for two tours of duty, training in the U.S. for one participant and equipment worth approximately \$160,000. FY61 funding covers the cost of the U.S. technician who completes his assignment in India during this fiscal year, and other costs amounting to \$1,000. It is planned to phase this sub-project out in FY61 and any assistance toward the improvement of farm tools that may be provided in subsequent fiscal years will be included in Crop Improvement. Any assistance given on the use of heavy machinery for land reclamation, drainage, etc. will be included in Soil and Water Conservation.

vi. Grain Storage

One agricultural program goal parallel to that of increasing yields is to assist India in developing a more efficient system of food storage and distribution. Grain storage facilities provide one opportunity to do this.

As designed under Project 86-15-031, Modern Storage of Foodgrains, assistance was given in constructing grain storage facilities at Hapur, Calcutta, Avadi and Cochin. The former 10,000-ton elevators are to accommodate bulk storage, and the latter are well-constructed godowns for bag storage. These facilities have been put into full use at Hapur and Avadi and construction at Cochin should be completed in FY60. Contracts have been let for foundation and construction at Calcutta. As these facilities are put into use, advice on grain storage such as recommended moisture content and fumigation is planned. At Hapur it has already been demonstrated that whereas grain in shed storage after six months had a weight loss up to 5 per cent due mainly to insects, elevator storage showed only a very minor loss in moisture content and no insect deterioration. Subsequent to FY62, it is contemplated that some assistance may be required in a village storage program, but this will be incorporated in the Agricultural Cooperatives sub-project.

(2) Work Remaining to Be Done

Work remaining to be done involves a TCM effort of consolidating assistance into a workable whole for impact on achieving yearly increase in the production of food. Scope of the project is limited to a primary effort in foodgrains and work will be highlighted by an intensive extension effort in foodgrains supported by activities in fertilizer

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use, seed improvement, soil and water conservation, agricultural machinery improvement and grain storage down to the village level. As proposed, extension teams of U.S. technicians will be provided who will work closely with Indian counterparts in each State. The U.S. teams may vary slightly in composition, but for the most part will consist of one general Extension Advisor (Area), who will serve as team leader, and about four subject-matter specialists: (a) Irrigation Farming Advisor, (b) Agronomy Advisor (Extension), to handle work on crops and soils, (c) Extension Advisor (Information, and (d) Extension Advisor (Training). To maximize effectiveness, it is envisaged that concentrated effort will be brought to bear in Blocks and Districts within States on a "task force" principle to intensify assistance where potential production break-throughs seem most likely. An attempt will be made to bring know-how to cultivators in usable packages, anticipate shortages of supplies and other bottle-necks, and advise proper authorities and keep the stream of information to and from farms open. Aside from the extension effort, problems of rural transportation, distribution of supplies, and adoption of grades and standards are problems yet to be solved.

(3) Progress Toward Achievement of Project Targets

Reports on India's rural economy acknowledge that 5 per cent annual increases in food production is a conservative potential. Whereas TCM activities have been tied directly to GOI Five Year Plans, activities have lacked coordination as a single weapon against low yields.

D. Nature of U.S. Contribution

1. Previous Fiscal Years thru FY59

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(Dollar Costs in Thousands)

Sub-Projects	Parti-	Techni-	Commo-	Total	Section
	cipants	cians	dities	Costs	402
	No.	No.	\$	\$	Rupee
Agr. Extension (386-11-007)	12	9	15	198	24
Fertilizer Use (386-11-004)	3	2	24	82	7
Crop Improvement (386-13-061)	7	4	9	105	15
Soil & Water Cons. (386-12-156)	11	8	5	176	23
Agr. Machinery (386-19-022)	-	1	4	24	1
Grain Storage (386-15-031)	-	1	70	86	-
Total	33	25	127	671	70

3. Budget Year - FY61

For FY61 a shift in emphasis and a re-arrangement of old projects as sub-projects are proposed. The following elements are required as a bare minimum gauged by the scope and gravity of the problem addressed:

(Dollar Costs in Thousands)

Sub-Projects	Participants		Technicians		Commo-	Other	Total
	No.	Cost	No.	Cost			
Agr. Extension	15	58	29	361	100	6	525
Fertilizer Use	5	20	3	58	5	1	84
Crop Improvement	10	40	6	95	35	2	172
Soil & Water Cons.	20	78	15	199	40	5	322
Agr. Machinery	-	-	1	13	-	1	14
Grain Storage	2	10	1	28	-	1	39
Total	52	206	55	754	180	16	1,156

i. Agr. Extension

Participants: Total number 15 for training in the U.S. in various fields of extension. (5 for 12 months each and 10 for 6 months each). Total cost \$58,000.

Technicians:

EXTENSION ADVISOR TRAINING. 10406.05. Position No.72. FSR-5. Assigned to Kerala State Government. 12 months. \$13,600.

EXTENSION ADVISOR AREA. 10406.01. Position No.68. (Replacement required). FSR-3. Assigned to Punjab Government. ETA of replacement July 1960. 12 months including international travel, etc. \$24,100.

EXTENSION ADVISOR TRAINING. 10406.05. Position No.276. FSR-3. To be assigned to Extension Wing, Ministry of Food and Agriculture. 12 months. \$18,000. (not on SP)

EXTENSION ADVISOR AREA. 10406.01. Position No.196. FSR-5. Assigned to Mysore Government. ETD May 1961. 12 months. \$24,100.

HOME ECONOMICS ADVISOR AREA. 10493.04. Position No.77. FSR-5. Assigned at Ludhiana. ETD May 1961. 12 months. \$19,600.

HOME ECONOMICS ADVISOR AREA. 10493.04. Position No.283. FSR-5. Assigned at Hyderabad. ETD March 1961. 12 months. \$18,000.

EXTENSION ADVISOR INFORMATION. 10406.04. No position number assigned. To be assigned to MFA. FSR-4. 12 months. \$15,800.

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<p>EXTENSION ADVISOR INFORMATION. 10406.04. No position number assigned. FSR-4. To be assigned to Punjab Government. 12 months. \$15,800.</p> <p>TWENTY-ONE specialists to work in five States as teams consisting one each of the following:</p> <p>4 EXTENSION ADVISORS AREA. 10406.01. FSR-3. New. ETA March 1961. \$42,000.</p> <p>5 AGRONOMY ADVISORS EXTENSION. 10407.04. FSR-4. New. ETA March 1961. \$50,000.</p> <p>4 IRRIGATION FARMING ADVISORS. 10450.04. FSR-4. New. ETA March 1961. \$40,000.</p> <p>4 EXTENSION ADVISORS INFORMATION. 10406.04. FSR-4. New. ETA March 1961. \$40,000.</p> <p>4 EXTENSION ADVISORS TRAINING. 10406.05. FSR-4. New. ETA March 1961. \$40,000.</p> <p><u>Commodities:</u> Scientific equipment (Code 880) and vehicles (Code 820) in support of 29 technicians. \$100,000.</p> <p><u>Other Costs:</u> \$6,000.</p> <p>ii. <u>Fertilizer Use</u></p> <p><u>Participants:</u> Total number 5 for training in the U.S. in aspects of fertilizer use. (2 for 12 months each and 3 for 6 months each). Total cost \$20,000.</p> <p><u>Technicians</u></p>				<p>SOILS ADVISOR FERTILIZER. 10470.06. Position No.60. FSR-3. 12 months. To work with Fertilizer Section in the Ministry of Food and Agriculture. \$18,100.</p> <p>SOILS ADVISOR LABORATORY. 10470.05. Position No.57. FSR-3. Assigned to the Indian Agricultural Research Institute, MFA. Location Nagpur. 12 months. \$18,100.</p> <p>AGR MRKT PROC ADV MK (Fertilizer Distribution - Movement). 11146.03. New. No position number assigned. FSR-4. To work with MFA advising on the distribution of fertilizers. 12 months, including international travel, etc. \$21,800.</p> <p><u>Commodities:</u> Miscellaneous commodities (Code 890) for soil testing laboratories. \$5,000.</p> <p><u>Other Costs:</u> \$500.00</p> <p>iii. <u>Crop Improvement</u></p> <p><u>Participants:</u> Total number 10 for training in the U.S. in aspects of crop improvement. (4 for 12 months each and 6 for 6 months each). Total cost \$40,000.</p> <p><u>Technicians</u></p> <p>AGRONOMY ADVISOR SEED IMPROVEMENT. 10407.06. Position No.98. FSR-5. Assigned to Punjab Government. ETD July 1960. Home leave and return. 12 months including international travel, etc. \$20,000.</p> <p>AGRONOMY ADVISOR SEED IMPROVEMENT. 10407.06. Position No.97. FSR-5. Assigned to U.P. Government. ETD January 1961. Home leave and return. 12 months including international travel, etc. \$20,000.</p>			
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<p>AGR ENGINEERING ADVISOR FARM MACHINERY. 10890.02. Position No.83. FSR-5. To work with Tarai State Farm, U.P. State Government. 12 months. \$13,600.(not on SP)</p> <p>AGRONOMY ADVISOR RESEARCH (Cereal Testing). 10407.05. No position number assigned. To work with the Indian Agricultural Research Institute for the establishment and operation of a cereal testing laboratory. FSR-4. 12 months including international travel, etc. \$21,800.</p> <p>AGRONOMY ADVISOR SEED IMPROVEMENT. 10407.06. New. No position number assigned. To advise the Government of Rajasthan in the development of a hybrid maize program. FSR-4. 3 months. \$10,000.</p> <p>AGRONOMY ADVISOR SEED IMPROVEMENT. 10407.06. New. No position number assigned. To advise the Government of Bihar in the development of a hybrid maize program. FSR-4. 3 months. \$10,000.</p> <p><u>Commodities:</u> Agricultural (Code 770) and scientific (Code 880) equipment primarily to support seed improvement activities. \$35,000.</p> <p><u>Other Costs:</u> \$2,000.</p> <p>iv. <u>Soil and Water Conservation</u></p> <p><u>Participants:</u> Total number 20 for training in the U.S. in fields of soil and water conservation. (7 for 12 months each and 13 for 6 months each). Total cost \$78,000.</p> <p><u>Technicians</u></p> <p>SOILS ADVISOR. 10470.00. Position No.49. FSR-3. To serve as leader of Soil Conservation Team. Arrived September 1959. 12 months. \$18,100.</p>				<p>SOILS ADVISOR MANAGEMENT CONSERVATION. 10470.03. Position No.51. FSR-4. ETD June 1961. 12 months. \$15,000.</p> <p>SOILS ADVISOR MANAGEMENT CONSERVATION. 10470.03. Position No.195. FSR-4. Assigned to Dehra Dun. 12 months. \$15,800.</p> <p>AGR ENGINEER CONSERVATION. 10890.04. Position No.294. FSR-4. To be assigned to U.P. Government. 12 months. \$15,800.</p> <p>SOILS ADVISOR MANAGEMENT CONSERVATION. 10470.03. Position No.56. FSR-4. To be assigned to the Central Soil Conservation Board to work with the Training and Research Center at Ootacamund. 12 months. \$15,800.</p> <p>SOILS ADVISOR SOILS CLASS. 10470.02. Position No.55. FSR-4. To be assigned to the Central Soil Conservation Board to work with their soil survey program. 12 months. \$15,800.</p> <p>SOILS ADVISOR MANAGEMENT CONSERVATION. 10470.03. Position number not assigned. To work with the State Government of Rajasthan. FSR-4. 12 months. \$15,800.</p> <p>SOILS ADVISOR MANAGEMENT CONSERVATION. 10470.03. Position number not assigned. To work with the Himachal Pradesh Administration. FSR-4. 12 months. \$15,800.</p> <p>AGR ENGINEER CONSERVATION. 10890.04. No position number assigned. FSR-4. To work with the State Government of Orissa. 12 months. \$15,800.</p> <p>AGR ENGINEER CONSERVATION. 10890.04. No position number assigned. FSR-4. To work with the Punjab Government. 3 months, including international travel, etc. \$10,000.</p>			
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Five SOIL CONSERVATION SPECIALISTS. New. No position number assigned. To be assigned to State Governments. FSR-4. 3 months each. \$45,000.

Commodities: Agricultural (Code 770) and scientific (Code 880) equipment in support of technicians. \$40,000.

Other Costs: \$4,500.

v. Agricultural Machinery

Technician

AGR ENGINEER FARM MACHINERY. 10890.02. Position No.82. FSR-4. Assigned to the Central Tractor Organization to work with the Training Center at Budni. 3 months including return travel. \$13,000.

Other Costs: \$1,000.

vi. Grain Storage

Participants: 2 for 12 months each to be trained in the U.S. in various aspects of modern grain storage. \$10,400.

Technician

AGR ENGINEER FARM STRUCTURE. 10890.03. Position No.86. Assigned to the Department of Food, Ministry of Food and Agriculture. FSR-4. 9 months. \$28,000.

Other Costs: \$500.00

4. Future Fiscal Years

As planned, the Extension sub-project will be fully staffed by FY63 at the rate of 5 U.S. technicians per State. By that time it should also be fully back-stopped by strong sub-projects, on soil and water conservation, seed improvement, and other needed work. It is proposed that this project build up gradually to approximately 100 technicians on board at one time aided by adequate commodity assistance and participant training. The project should reach its peak for dollar requirements in FY63 at which time yearly costs would be about \$2,500,000, and continue through the duration of the Third Five Year Plan at about that level. After that time TCM technical and commodity contributions would decrease. It may be possible to phase out completely by the end of the Fourth Five Year Plan in FY71. Estimated future fiscal year contributions through FY65 are as follows:

(Dollar costs in thousands)

Sub-Projects	Participants		Technicians		Commo- dities	Other Costs	Total Costs
	No.	Cost	No.	Cost			
Agr. Extension	60	312	285	5,130	400	135	5,977
Fertilizer Use	5	22	3	54	-	1	77
Crop Improvement	40	160	44	792	140	12	1,104
Soil & Water Cons.	156	569	78	1,404	160	32	2,165
Total	261	1,063	410	7,380	700	180	9,323

E. Nature of Cooperating Country Contribution

GOI has a nation-wide training program and a goal to place 50,000 VLW's in the field by FY63. Almost 200 Extension Training Centers, Basic Agricultural Schools and Home Science Centers

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have been established. In FY61 fertilizer production will be expanded through a new plant at Trombay and during the Third Five Year Plan new production may be expected from other plants at Nangal, Rourkela and Neyveli. As mentioned, 9 Soil Conservation Research and Training Centers have been established by GOI. Aside from U.S. advisors all soil testing laboratories are staffed by GOI personnel, as is the agricultural machinery training center at Budni. GOI personnel are also handling grain storage in different parts of the country. It is difficult to calculate the exact rupee amounts and the total amount of foreign exchange that GOI will contribute to work described under this project. It is safe to say, however, that U.S. contributions will be only a small, but a very essential, part of the whole.

F. Contributions from Other Sources and Relationship to Other Projects

So far as is known no other foreign countries are contributing directly to the type of work described under this project. However, Ford Foundation has contributed substantially in establishing extension training centers, providing training abroad for certain participants, and in the establishment of the Extension Wing in the Ministry of Food and Agriculture. Rockefeller Foundation has assisted in establishing laboratories in seed improvement and plant breeding and has contributed seed and equipment in support of these activities.

G. Financial Considerations

Total U.S. contribution for FY61 under this project amounts to \$1,156,000. As planned, this amount would be increased by FY63 reaching about \$2,500,000 annually for FY63 thru FY65, after which U.S. contributions to the project can be gradually decreased.

GOI will continue to maintain all research and training facilities and all recurring costs associated with the project.

Pipeline

Pipeline indicated under each sub-project represents participant training that is yet to be completed and commodities undelivered. However, no pipeline is expected by the end of FY61.

Agricultural Extension: Prior year pipeline represents FY57 commodities yet to be delivered. FY59 unexpended balance of \$5,000 is against commodities on order and training of one participant uncompleted.

Fertilizer Use: FY58 commodities are yet to be delivered involving a pipeline of \$8,000. FY59 unexpended balance represents participant training partially completed.

Crop Improvement: Prior year unspent balance represents undelivered commodities and participant training uncompleted in FY58. FY59 pipeline is against participants yet to be trained.

Soil & Water Conservation: FY59 pipeline of \$16,000 represents 2 participants yet to be trained and commodities worth \$12,000 yet to be delivered.

Agricultural Machinery: No pipeline is involved.

Grain Storage: No pipeline is involved.

All unexpended balances are expected to be eliminated by June 30, 1961.

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H. Cooperating Country-TCM Coordination

All elements shown in FY60 OPAR are backed by requests from GOI. Some of these requests will carry over into FY61. The full content of the FY61 proposals is being discussed with appropriate officials in GOI and with representatives of States where the proposed strengthened work in extension would begin.

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1 PROJECT BEGINS FY 61 ENDS FY 65	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People																	
															Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper-ating Country	(1) Technicians Authorized		(2) Participants		
																												Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years																																
B. Net Deob.-Reob. Current Funds																																
Total Actual Year FY																																
C. Operational Year FY																																
D. Budget Year FY 61	TC	195	128	42	-	20	5								6	-	10	-	-													
E. All Subsequent Years	TC	576																														
F. Total All Years	TC	569																														

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60			
Dollar Obligation and Expenditure	All Prior Years																		
	Actual Year FY																		
	Operational Year FY																		
TOTAL																			

Problems Addressed:

Problem: I. Need to increase crop yields and total food production.

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				COUNTRY ECONOMIC PROGRAM		LIVESTOCK	
<p>A. <u>General Description of the Project</u></p> <p>In prior fiscal years TGM provided assistance to several livestock activities. Assistance was provided for cattle improvement and poultry development, as well as for two dairy schemes and biological standardization of serum.</p> <p>This project consolidates all work being done by TGM in the livestock field. Primarily it makes provision for continued assistance to poultry and dairying. The principal long-term goal of both these activities is to increase supply and broaden distribution of higher protein foods such as poultry, eggs and milk, and provide extra income to the rural people.</p> <p>The three sub-projects now comprising this major project are as follows:</p> <ol style="list-style-type: none"> 1. Livestock Improvement 2. Dairy Development 3. Calcutta Milk Scheme <p>Aspects included in this project are:</p> <ol style="list-style-type: none"> a. Technical advice and equipment to maintain the rate of advance in the poultry production and expand this activity along improved lines of marketing. b. Technical advice and equipment to establish 6 dairy facilities for collection and processing of milk. c. Technical advice and equipment to complete U.S. obligations along side those of Australia, New Zealand, Canada and the Netherlands for establishing a city milk plant in Calcutta and a dairy colony including an attendant dairy farm at Haringhata. 							
<p>d. Technical advice to carry out animal feeding experiments with feeds produced from a pasture, hay and fodder demonstration in Bihar.</p> <p>e. Technical advice to improve marketing practices of livestock and livestock products in selected key villages.</p> <p>B. <u>Specific Activity Targets and End Results of the Project</u></p> <ol style="list-style-type: none"> a. To develop more orderly collection, processing, distribution and sale of milk and milk products at those locations where TGM is assisting with dairying. b. To develop further improved poultry production and more orderly marketing of poultry, livestock, and their products. c. Through 'a' and 'b' above, to increase the consumption of poultry, eggs, milk and milk products as a complement to the overall food production program. <p>C. <u>Progress Toward Achievement of Activity Targets</u></p> <p>(1) <u>Work Accomplished to date</u></p> <p>In prior fiscal years the livestock work in which TGM is active was treated as three separate projects. Therefore, the following review of work accomplishments will be presented along lines of the previous submissions.</p> <ol style="list-style-type: none"> i. Assistance to cattle (other than dairy), swine, poultry and biological standardization was reported in prior fiscal years under project 86-13-041, Livestock Improvement. <p>The size and composition of the cattle population in India and its role in the agricultural economy present</p>							
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		1 November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	India		
				COUNTRY ECONOMIC PROGRAM	LIVESTOCK		

problems which are extremely difficult to reduce the meaningful project proportions within the limits and definitions of technical assistance. Although advice on nutritional demonstrations and breeding was granted by TCM as they related to the key village livestock scheme, potential accomplishments which were at one time contemplated by TCM never materialized. Progress may have also been hampered by failure in recruitment of U.S. personnel to fill requested positions. In like manner, assistance to swine improvement was never initiated due to recruitment failures.

Efforts in poultry have met with more success. End use reports show that incubators and other equipment provided under this phase of livestock work have been utilized effectively. Five Regional Poultry Farms have been established, the quality of poultry products associated with TCM assistance shows improvement, and the numbers of birds of breeds imported by TCM have multiplied.

- ii. Dairy Development now carried as a sub-project, but previously presented under Project 86-15-088, was designed to assist GOI in one phase of its overall dairy program. The original GOI scheme carried a financial outlay equivalent to \$50 million. TCM fashioned its contribution to establish 6 dairy facilities referred to in the FY59 presentation as one milk processing plant and three associated milk collection centers near Amritsar, Punjab; three rural creameries in Uttar Pradesh, Bihar and Bombay; two cooperative milk unions at Bhopal, M.P., Trivandrum, Kerala.

Equipment for these facilities were to have been procured out of FY56 and FY57 funds, but tenders received were not agreed upon as to specifications and, moreover, bid prices exceeded the amounts anticipated. Problems

concerning specifications have been ironed out and in FY59 an additional amount of \$189,500 was provided. It is now expected that most of the equipment required for this sub-project will arrive in India from Denmark before the end of Operational Year FY60.

- iii. The Calcutta Milk Scheme (86-15-100) has heretofore been submitted as a separate project although it is a part of the overall GOI dairy program. The scheme was entered into jointly by U.S., Australia, New Zealand and Canada with the long-term objective of creating more sanitary operations and at the same time of bringing the cost of milk more nearly within the price range required for mass consumption. As planned, the scheme involves establishing a Calcutta City Milk Plant supported by a milk colony at the outlying Haringhata farm. TCM was expected to furnish a substantial portion of the equipment required and also to furnish technical advice. Construction of dairy buildings was started in April 1958 and is now practically completed.

TCM's commodity commitment as planned was set at \$540,000 but the tenders received were so inconsistent that specifications were re-written and fresh tenders were called for. In FY59 an additional \$89,500 was added for equipment. Dairy cattle are being kept at the farm and arrangements for collection of additional daily supplies of milk from private cattle owners are being attended to.

(2) Work Remaining to be Done

Work in poultry will continue along lines of up-grading birds by crossing breeds previously imported under the project

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with native fowl. Increased attention will be given to development of balanced rations which include a minimum amount of food grains. Development of improved poultry marketing techniques will be undertaken upon arrival of Poultry Marketing Advisor.

Installation of equipment in the 7 dairy plants will begin as soon as it arrives in India. Local technicians will be trained in use of the equipment and in operation of the 7 dairy plants as well as in the management of the dairy farm at Haringhata. Arrangement for milk collection will continue. Small amounts of equipment will be supplied as required.

(5) Progress Toward Achievement of Project Targets

Work in poultry is further advanced since production has begun. Thirty-thousand chicks have been imported and distributed to 5 regional farms (Delhi, Bombay, Bangalore, Bhubaneswar and Simla) and 50 (out of 500) demonstration centers for multiplication purpose. Equipment has arrived and is installed at 5 regional farms. Poultry Husbandry Advisor has completed his two year service. The production phase of poultry activities is well underway.

Sites for 7 dairy plants have been selected, 2 of plants are nearing completion and another is now under construction. Cattle are now being moved to the farm at Haringhata. Contracts have been signed for supply and installation of equipment for all the plants.

D. Nature of U.S. Contributions

a. Previous Fiscal Years - Through FY59

Under the sub-project which has heretofore been presented as 86-15-041, the U.S., through FY59, has provided the services

of 5 technicians, 4 consultants, training facilities for 10 participants and commodities in the amount of \$470,000; to Dairy Development sub-project the services of 1 technician and 1 consultant, training facilities for 9 participants and commodities in the amount of \$764,000; and to the Calcutta Milk Scheme sub-project the services of 1 technician and 1 consultant, training facilities for 2 participants and commodities amounting to \$429,500.

b. Operational Year

TGM contributions during Operational Year FY60 are as follows:

(Dollar costs in thousands)

Sub-projects	Participants		Technicians		Commo- dities	Total Costs	Section 402 Rupees (\$)
	Nb.	Cost	Nb.	Cost			
Livestock Improve- ment	7	58	2	34	20	90	15
Dairy Development	-	-	3	42	5	47	1
Calcutta Milk Scheme	2	8	2	30	-	38	5
Total	9	44	7	106	25	175	19

Section 402 rupees are provided for international roundtrip travel for participants and other costs.

c. Budget Year - FY61

The following elements are expected to be required in FY61 as a bare minimum gauged by the scope and gravity of the problems

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addressed:

1. Livestock Improvement

Participants: Total 5 (2 for 12 months each and 3 for 6 mos. each) \$20,000.

Technicians:

AGRON ADV PASTURE. 10407.03. No position number assigned. FSR-4. To work with Bihar Government on pasture development. 12 months. \$15,800. (not included on SP).

AGR MRKT PROC ADV MK. 11146.05. Position No. 81. FSR-4. To work with MFA on livestock marketing. ETD March 1961. 12 months, including return travel. \$19,800.

AGR MRKT PROC ADV MK. 11146.05. Position No. 82. FSR-4. To work with MFA on poultry marketing. 12 months. \$15,800.

Commodities: Agricultural processing equipment (Code 770) in support of production and marketing activities. \$10,000.

Other Costs: \$1,000

11. Dairy Development

Participants: Total 4 (2 for 12 months each and 2 for 6 mos. each) \$16,800.

Technicians:

AGR MRKT PROC ADV MK (Dairy Marketing). 11146.05. Position No. 106. FSR-5. To be assigned to MFA as advisor in dairy marketing. 12 months. \$15,800.

AGR MRKT PROC ADV (Dairy Engineer). 11146.04. Position No. 815. To be assigned to Madhya Pradesh Government and to other state governments as required, to assist in installation and advise on operation of dairy equipment provided by TCM. FSR-4. 12 months. \$15,800.

AGR MRKT PROC ADV PR (Dairy Technology). 11146.04. Position No. 815. FSR-4. To be assigned to the Government of Punjab and to other state governments as required. 12 months. \$15,800.

Commodities: \$10,000 to meet miscellaneous requirements (Code 780) of dairy processing plants.

Other Costs: \$1,000.

111. Calcutta Milk Scheme

Participant: 1 for 12 months for training in the U.S. in dairy plant operation. \$5,200.

Technicians:

LIVESTOCK ADVISOR DAIRY (Dairy Farm Management). 10487.01. Position No. 104. FSR-4. To advise the West Bengal Government on dairy farm management. 12 months. \$15,800.

AGR MRKT PROC ADV PR (Dairy Factory Maintenance). 11146.04. Position No. 105 (Templeton). FSR-4. To advise the West Bengal Government on installation and operation of dairy equipment supplied by TCM and training Indian personnel in the operation of the Dairy Plant. 12 months. \$15,900.

Other Costs: \$1,000.

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d. Future Fiscal Years

TGM will complete its commitments so far as cattle (other than dairy) are concerned with completion of assistance outlined above, and livestock production and marketing activities will phase out. In dairying all present commitments will be completed as to plant establishment and putting them into operation. Consideration had been given to providing technical advice on a State by State basis in those States where dairy plants are being established. However, in light of recruitment prospects, requests for eight technicians were reduced to three. These three U.S. technicians along with an additional two, who will be servicing dairy work at Calcutta will form a team to advise on the installation of equipment and putting dairy plants in operation at the several locations mentioned in Section G. Work will continue in poultry as described. As now planned, this project will phase out when technicians shown in D(c) complete their tours of duty, milk plants in the 7 locations (including Calcutta) have been established and marketing of poultry has been demonstrated. As presently envisaged, the above should be accomplished by the end of FY65.

Future Fiscal Years (Dollar cost in thousands)

Sub-projects	Participants		Technicians		Commo- dities	Other Costs	Total
	Nb.	Cost	Nb.	Cost			
Livestock Improve- ment	10	40	4	72	20	2	154
Dairy Development	8	54	5	90	20	4	148
Calcutta Milk Scheme	2	10	4	72	10	2	94
	20	84	15	254	50	8	576

E. Nature of Cooperating Country Contribution

The GOI has provided or assisted States to provide cattle farms in different areas. A good deal of experimental work is going on at these sites. Provision has also been made for sites for dairy plants, and poultry farms. Local staff on a continuing basis will also be maintained by GOI. All recurring costs for operating these facilities will be borne by GOI until such time as they become self-supporting.

F. Contributions from Other Sources and Relationship to Other Projects

Efforts on dairying and poultry are consistent with the general TGM agricultural program of concentrating more on projects associated directly with food production. This project is therefore related to Project 586-19-180, Food Production, which focuses attention on food crops. In this sense it is also related to work under Fisheries.

Several countries are assisting establishment of dairy facilities at Calcutta and are contributing approximately an amount of \$142,000 in the form of equipment and technical services.

G. Financial Considerations

In FY61 total U. S. contribution to this project amounts to \$192,800. This level of assistance will be required at least through FY65.

Pipeline Statement

Livestock Improvement

Prior year unexpended balance of \$12,000, as indicated, represents FY58 commodities undelivered. FY59 shows a pipeline of \$12,000 representing uncompleted participant training. However,

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<p>before June 30, 1961, all unexpended balances will be spent except for a small amount from FY60 funds involving some of the FY60 commodities which remain undelivered by that date.</p> <p><u>Dairy Development</u></p> <p>FY59 pipeline of \$160,000 represents '8,000 against uncompleted participant training and \$152,000 commodities on order. However, by the end of FY61 all commodities are expected to be delivered and participant training completed. Commodities from FY60 funds involving \$5,000 are also expected to be delivered by June 30, 1961.</p> <p><u>Calcutta Milk Scheme</u></p> <p>FY59 pipeline as shown represents \$1,000 against uncompleted participant training and \$80,000 commodities undelivered. However, it is expected that all unexpended balances will be eliminated by June 30, 1961.</p> <p>H. <u>Cooperating Country - USOM Coordination</u></p> <p>All elements included in the FY60 OPAR under this project are backed by requests from GOI. In general, contents of this E-1 have been discussed with GOI officials.</p> <p>It is understood that the financial contributions proposed under this project for FY61 and GOI are contingent upon the availability of funds in each case and such other factors as may arise.</p>							
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COUNTRY ECONOMIC PROGRAM				PROJECT TITLE AGRICULTURAL EDUCATION AND RESEARCH			

1	PROJECT BEGINS FY 61 ENDS FY 66	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years																				
B. Net Deob.-Reob.																				
Current Funds																				
Total Actual Year FY																				
C. Operational Year FY																				
D. Budget Year FY 61	TC	2,858	-	-	2,558	300										63	-	-	96	
E. All Subsequent Years	TC	9,898																		
F. Total All Years	TC	12,756																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/			
Dollar Obligation and Expenditure	All Prior Years																		
	Actual Year FY																		
	Operational Year FY																		
	TOTAL																		

Problems Addressed:

Problems I: Need to increase crop yields and total food production.

VI: Insufficient human resources educated to meet the needs of modern India.

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A. General Description of the Project

The concepts of a rural university as the source of technical information, training, and action for Indian agriculture were established by the Indian University Education Commission (1948) under the chairmanship of Dr. S. Radhakrishnan, India's Vice-President. A joint Indo-American team in 1955 presented guidelines for the coordination of teaching, research and extension in the agricultural colleges of India.

Starting in June 1955, U.S. technical assistance on agricultural education and research, through contracts with five American Land Grant Colleges, has been extended to the Government of India. Such assistance is now being provided under Project 386-11-028, to 2 national institutions, 35 State agricultural, veterinary and home science colleges, and 8 private colleges.

In addition, under Project 386-11-147, broad assistance is being given for the establishment of a new, complete agricultural university in Uttar Pradesh, patterned after the U.S. Land Grant Colleges.

Commencing in FY61 the above two projects are being consolidated as sub-project components of this parent project (386-11-182). Both sub-projects are directed at the overall objective of agricultural education, research and extension by strengthening the agricultural, veterinary and home science colleges and institutions to increase their effectiveness in the development of Indian agriculture as a primary means of improving rural living and creating a stable economy in India.

B. Specific Activity Targets or End Results of the Project

1. Agricultural Education and Research

Quantitative targets are hardly appropriate because many quality factors and intangibles are involved. Nevertheless, the number of agricultural college graduates should be increased from about 800 in 1955 to 2,000 in 1960 and 5,000 annually in 1966, with emphasis on extension. Veterinary and animal husbandry graduates should increase from 250 in 1955 to 1,000 in 1960, and to 1,500 in 1966, with emphasis on dairy and poultry production. The training of college staff members and administrators should total 300 by 1960 and 750 by 1966.

More general objectives are: (a) Legislative and administrative improvements to place the colleges under the control of qualified agriculturists; (b) Development of college curricula to produce usable knowledge on and means of solving existing problems, with greater emphasis on extension; (c) Improvement of technical qualifications of staff members, teaching methods, and student initiative; (d) Procurement of scientific equipment not available in India and required for the effective performance of the college; (e) Surveys of the needs for agricultural research and adjustment of current program to solving existing problems; and (f) Administrative coordination of teaching, research and extension in agronomy, animal husbandry, and home science with full participation of staff and students in the various fields.

2. U. P. Agricultural University

This sub-project is designed to assist in the establishment and operation of an autonomous agricultural university in the Uttar Pradesh. This university will consist of: (a) College of Agriculture; (b) College of Veterinary Medicine; (c) College of Agricultural Technology; (d) College of Home Science; and (e) School of Sciences and Humanities. A 16,000-acre farm will be operated by the University for experimental and production purposes.

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C. Progress Toward Achievement of Project Activity Targets

(1) Work Accomplished To Date

Agricultural Education and Research

Autonomy of Colleges: Significant progress has been made in this field. The Uttar Pradesh Legislature enacted an Agricultural University Law in December 1958 establishing a fully autonomous institution patterned after the U.S. Land Grant Colleges. Legislation of this type is now being drafted in Orissa, Punjab, West Bengal, and Andhra Pradesh. Until now the Principals of State Colleges are under direct supervision of the State Directors of Agriculture or Animal Husbandry, and are subject to technical controls administered by the University with which the college may be affiliated. The Central Government has recommended to all States that the authority of Principals of State Colleges be enhanced.

Curricula: Several committees are now working on revisions of syllabi and curricula for Indian agricultural and veterinary colleges. Extension courses have been introduced at several colleges. Course electives which permit specialization of students have been provided in some colleges. Small progress has been made on the development of specific curricula for animal husbandry and veterinary students.

Staff Improvement: About 276 participants, largely college staff members, have received or are being processed for training in the U.S. from funds provided through FY59. They are being trained for 6 to 12 months in administration and methodology as well as in technical fields. Forty-six U.S. technicians in India, through demonstrations and seminars, have favorably influenced even a larger number of college administrators and teachers. Most of the colleges have unlocked their bookcases and several

have developed good use of libraries by the staff and students.

Equipment: Teaching and research equipment, recommended by U.S. technicians, has been supplied to 44 of the 45 participating institutions.

Research: Research by college teachers and students is being recognized as an essential element of education. There has been a slow awakening to the benefits of associating research centers with the colleges and the interchange of staff members. U.S. assistance to research not associated with agricultural colleges and not of an applied nature, has been reduced. A comprehensive survey of the needs for applied agricultural research is only in the planning stage.

Extension: College training in extension methods has made some progress. Most colleges have been assigned one or more Community Development Blocks which serve as student training media as well as demonstrations of the effectiveness of technically directed and applied extension efforts. No significant progress has been made in the transfer of the administration of agricultural extension activities to the colleges. Such a change is not desirable until an adequate body of well trained agricultural and home science extension workers are available to carry the load.

Summary: In the six problem areas listed above, there is no yardstick for definitely measuring progress. Progress has been made in the various fields in the following order: equipment, staff improvement, autonomy, curricula, research, and extension. In the latter fields, some of the inertia of a hundred years is being overcome and a degree of readiness for change has developed. From this point on, there should be a fairly rapid acceleration of progress toward the project objectives.

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Regional meetings are held every 6 months to review and appraise approaches, development, progress and requirements, and to make future plans. These meetings are attended by College Principals, State officials, U.S. contracting University technicians, TCM and GOI officials.

Two teacher-training seminars have been held, one in the South and the other in the North, where teaching methods, examination systems, student-teacher relationships, etc. were fully discussed by representatives of the colleges, TCM advisors and other educationists. These have been followed by similar seminars in the separate colleges with their entire staff.

The growth of India's agricultural education program is indicated by the following data:

Year	Agricultural Colleges			Veterinary Colleges		
	No.	Students	Graduates	No.	Students	Graduates
1953-54	22	1254	792	9	615	256
1954-55	24	1454	886	10	910	268
1955-56	30	1989	808	14	1269	322
1956-57	31	2301	971	14	1204	368
1957-58	31	2741	1387	14	1170	591
1958-59	31	3013	1675	14	1293	779

U. P. Agricultural University

Under the sub-project "Agricultural Education and Research" a survey was made of the needs for an Agricultural University in Uttar Pradesh. Funds have already been obligated for an ICA contract with the University of Illinois for the implementation of this sub-project.

(2) Work Remaining to be Done

Agricultural Education and Research

Critical agricultural problems in this country of 400 million people, 80 per cent of whom depend on agriculture for a living, will continue at least for a generation. U.S. technical assistance will certainly be required through the Third Five Year Plan which ends in 1966.

Autonomy of Colleges: The State Governments are yet to adopt the recommendations of the Central Government to give more authority to College Principals. State legislation giving autonomy to the colleges is yet to be enacted by State Governments.

Curricula: Although there have been minor changes in the curricula of some colleges, satisfactory changes must await the separation of the colleges from outside controls by existing universities.

Staff Improvement: Further administrative as well as technical improvement of college personnel is necessary for the institutions to produce agriculturists trained for the needed production of food and better rural living.

Equipment: Although necessary technical equipment has been supplied, there are needs for additional facilities for the implementation of new types of work aimed specifically at increased agricultural production.

Research: There is need for much closer integration of research with teaching and extension. More attention should be given to research work aimed specifically at solving the problems of the cultivators in such fields as farm management, drainage, poultry and so forth.

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Extension: There is a great need for several thousands men and women with sound training in basic agriculture and extension methods. When such specialists are available, the administration of the educational aspects of agricultural extension should be placed with the colleges.

U. P. Agricultural University

The proposed ICA contract with the University of Illinois is expected to be finalized in November 1959. Technicians are yet to arrive, participants yet to be selected, and commodities yet to be ordered.

(3) Progress Toward Achievement of Project Activity Targets

Agricultural Education and Research

Progress under this sub-project cannot ^{be} measured in exact quantitative terms. However, changes in attitude of the teaching staff at the cooperating Indian institutions are evident, particularly in terms of coordination of teaching, research and extension.

U. P. Agricultural University

Legislation in the U.P. assembly was enacted in December 1958 for the establishment of autonomous agricultural university.

A survey has been made and operation plans developed for a 16,000-acre farm which will be an integral part of the proposed University.

A Vice-Chancellor has been designated and members of the Board of Management have been nominated.

A U.S. advisor on farm management has been approved and will arrive in India November 1959.

D. Nature of U.S. Contribution

a. Previous Fiscal Years thru FY59

Technical assistance funds obligated through FY59 under projects 386-11-028 and 386-11-147 (now consolidated into this project) are summarized below:

(Costs in Thousands)

Projects	Under Contract				Commod- ities	Total Cost	Non- Contract	Pro- ject Total
	Participants No.	Technicians Cost	Technicians No.	Technicians Cost				
386-11-028, Agr. Education & Research	276	1,409	46	3,487	2,480	7,376	512*	7,888
386-11-147, U.P. Agr. University	4	22	5	278	300	600	-	600
Total	280	1,431	51	3,765	2,780	7,976	512	8,488

*Represents technical services \$109,600 for one direct-hire technician and first Indo-American team; \$53,400 for 10 non-contract Indian participants; and \$349,000 for non-contract commodities.

b. Operational Year - FY60

Technical assistance funds to be obligated in FY60 under projects 386-11-028 and 386-11-147 (now consolidated into this project) are summarized below:

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(Costs in thousands)

Projects	Under Contract				Commo- dities	Total Cost	Non- con- tract	Pro- ject Total	Section 402 Rupees
	Participants		Technicians						
	No.	Cost	No.	Cost					
Agr. Ed. & Res.	60	249	30	494	100	843	35	878	225
U.P. Agr. Univ.	4	17	6*	165	-	182	-	182	34
Total	64	266	36	659	100	1,025	35	1,060	259

*7 man-years

The Agricultural Education and Research sub-project funds will provide 30 man-years of services of contract technicians, 60 man-years of participant training and \$100,000 for commodities. The non-contract expenditures will be for 4 consultants to serve as members of the Second Indo-American Team and one Agricultural Education Advisor till October 1959. Under the U.P. Agricultural University sub-project, two positions will lack 9 months each being fully financed for 2 years each. No funds are provided for commodities for two of the colleges scheduled to start July 1, 1961.

Section 402 rupees are proposed for international round-trip travel of participants, and for quarters and cost of living allowances and return travel of U.S. technicians.

c. Budget Year - FY61

(Costs in Thousands)

Sub-Projects	Under Contract					
	Participants		Technicians		Commo- dities	Total Cost
	No.	Cost	No.	Cost		
Agr. Education and Research	90	624	40*	1,618	300	2,542
U. P. Agricultural University	6	36	7**	280	-	316
Total	96	660	47	1,898	300	2,858

*funded 40 technicians for 16 months each.

**funded 7 technicians for 1 1/2 man-years.

Funding for the Agricultural Education and Research sub-project is for a 16-month period ending October 31, 1962. Funding for U.P. Agricultural University sub-project is for a 12-month period also ending October 31, 1962. Steps are being taken by ICA/W to convert the five existing contracts under the Agricultural Education and Research sub-project to a standard form with October 31 as the anniversary date. This necessitates the extra funding included in the above estimates.

PL-480 Local Currency

In addition to the above dollar financing for agricultural education and research programs, grants of PL-480 rupees have been proposed to GOI. The 1959 E-1 for Project 386-11-028, Agricultural Education and Research proposed

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Rs.16,400,000 to supplement construction, equipment, and operations at four institutions. A re-distribution of these rupees on a grant basis is being proposed. The aid would be largely limited to institutions which adopt coordinated teaching, research, and extension programs, as follows:

Teaching: Textbooks, libraries, teaching aids, seminars, teacher training, etc. Rs.4,156,500

Research: Surveys, and reports, supplies and materials, seminars, experiment stations, etc. 6,923,100

Extension: Teaching facilities, field demonstrations, seminars, etc. 5,320,400

Rs.16,400,000

PL-480 funds in the amount of Rs.38,000,000 have been offered as a grant for construction and equipment of the new Agricultural University in Uttar Pradesh, as follows:

University-wide units	Rs.18,310,000
College of Agriculture	3,880,000
Experiment Station	2,000,000
College of Veterinary Medicine	3,310,000
College of Agr. Technology	2,400,000
College of Sciences & Humanities	2,300,000
College of Home Science	2,100,000
University Farm	3,700,000

Rs.38,000,000

Negotiations are underway between TGM and GOI on schedules and controls pertaining to the use of these grant rupees. It is not known, however, at this time,

when effective agreement may be reached.

d. Future Fiscal Years

Indications at present are that assistance to existing agricultural, veterinary and home science colleges, under sub-project Agricultural Education and Research, will be required through the Third Five Year Plan. Funds required for the remaining 4 years may reach \$8,000,000. Assistance to the U.P. Agricultural University sub-project is planned upto October 31, 1964. At the rate of \$400,000 per year, additional financing in the amount of \$800,000 will be required for this sub-project. As existing colleges are enlarged to include the concepts of agricultural universities, additional grants of PL-480 funds in the amount of Rs.100,000,000 may be required.

E. Cooperating Country Contribution

The Center and State governments have expended large sums during the past five years on the development and operation of agricultural and veterinary colleges in India. A GOI report of March 31, 1958 on U.S. technical cooperation shows cooperating contributions over a 4-year period as follows:

Center contribution to construction, etc. Rs.15,000,000

States for maintenance and improvements 22,500,000

Rs.37,500,000

Normal operating costs of the agricultural and veterinary colleges are not included in the above data. Also the GOI has furnished office and secretarial facilities and local travel for contract technicians and advisors; within-India travel and miscellaneous expenses for participants; and ocean freight, inland handling, and local transportation costs for commodities.

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-11-182	E-1
				COUNTRY ECONOMIC PROGRAM		AGRICULTURAL EDUCATION AND RESEARCH	

F. Contributions from Other Sources and Relationship to Other Project

(Costs in Thousands)

Ford Foundation and Rockefeller Foundation have expended about \$1,000,000 each on agricultural research and extension. The Ford Foundation sponsored Community Development program has contributed somewhat to agricultural development. FAO projects on land and water use, plant and animal production, and agro-economics have amounted to about \$400,000. Colombo Plan has supported participant training program in the field of agriculture. Various U.N. projects such as UNICEF and UNESCO have aided agricultural programs in India. It is probably that such assistance will continue for several years.

All TCM agricultural projects in India have the common objective of increased agricultural production. To the extent that the Indian agricultural and veterinary colleges are the source of trained personnel and technical information, this project contributes to other TCM agricultural activities. Production, management and extension technicians from other projects contribute technical advice to the education and research projects. For example, a team of 10 TCM agricultural specialists made a comprehensive survey and sound work plans for the operation of the 16,000-acre Tarai State Farm which will become a part of the new U.P. Agricultural University.

G. Financial Considerations

The overall size of the agricultural education and research projects to completion is indicated by the following data:

	Technical Services	Participants	Commodities	Total Costs	Section 402 Rupees
\$					
<u>Agr. Education & Research</u>					
1954-1960	3,597	1,463	2,828	7,888	-
FY60	529	249	100	878	225
FY61 thru Oct.31, 1962	1,618	624	300	2,542	-
Thru FY66	4,800	2,400	800	8,000	-
Total	10,544	4,736	4,028	19,308	225
<u>U.P. Agr. University</u>					
1958-60	278	22	300	600	-
FY60	165	17	-	182	34
FY61 thru Oct.31, 1962	280	36	-	316	-
Thru FY64	507	72	221	800	-
Total	1,230	147	521	1,898	34

Once the masses of Indian cultivators are aware of the benefits of modern agricultural practices, the need for technical assistance will increase. The consequences of any lack of aid at this future time will be serious since much more guidance will be necessary as the people become more ready to improvement.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-11-182	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	AGRICULTURAL EDUCATION AND RESEARCH		

Pipeline: No pipeline problems exist. The Contractor-ICA/W estimates under sub-project Agricultural Education and Research for FY60 take into consideration all unexpended funds for technical services and participant training. Commodities delivered, on order, and approved for purchase represent about 90% of the funds available for equipment. Other requests for books and equipment are being processed. It is therefore expected that by the end of FY61 no prior year pipeline will remain.

Activities under sub-project U.P. Agricultural University should start in late 1959, and be on schedule within one year. Pipeline indicated has resulted from the delay in finalization of contract by ICA.

H. Cooperating Country-TCM Coordination

A firm GOI request for assistance on Agricultural Education and Research sub-project expires March 1962. It has been indicated that assistance at the proposed level will be requested throughout the Third Five Year Plan, which ends in 1966. GOI requests for assistance under U.P. Agricultural University sub-project extend to December 31, 1962. It is understood that such requests will continue for two or three more years.

The Indian Council of Agricultural Research, an independent agency of the Ministry of Food and Agriculture, is the designated GOI-TCM coordinating agency for activities under this project.

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E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL		SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	PROJECT NO. 886-14-185	E-1
			<input type="checkbox"/> REVISION NO.		COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Agricultural Cooperatives and Farm Organisations		

1 PROJECT BEGINS FY 61 ENDS FY 66	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
	Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
															Non- Contract	Con- tract	Non- Contract U.S.	3rd Country
A. All Prior Years																		
B. Net Deob.-Reob.																		
Current Funds																		
Total Actual Year FY																		
C. Operational Year FY																		
D. Budget Year FY 61	TC	228	117	75	-	55	1	-							5	-	26	
E. All Subsequent Years	TC	861																
F. Total All Years	TC	1,089																

2 Dollar Obliga- tion and Expend- iture	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY					
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated In FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/		
	All Prior Years																	
	Actual Year FY																	
	Operational Year FY																	
	TOTAL																	

Problems Addressed: **Problems I: Need to increase crop yields and total food production**
VI: Insufficient human resources educated to meet the needs of modern India.

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-14-183	E-1
				COUNTRY ECONOMIC PROGRAM		Agricultural Cooperatives and Farm Organizations	

A. General Description of the Project

Three phases of work receive assistance under this consolidated project. One phase is the farmer cooperatives wherein assistance is provided through the parent All India Cooperative Union (AICU). The second phase is to develop a strong farmers' organization under the banner of the Farmers' Forum - a national farmers' organization. The third phase is to assist the Nagpur Orange Association (a member of the AICU).

Agricultural cooperatives in India are expected to provide an effective organizational device and carry much of the economic weight of long-term rural development. However, progress as of now is not marked. The large number of rural cooperatives listed (approximately 208,000) to accommodate a membership of roughly only 18,000,000 suggests small and ineffective societies. The primary purpose of this project is to assist in preparing farmer members for a more active and responsible role in cooperative societies and farm organizations, and to develop effective rural leadership.

The Farmers' Forum is a working farm organization which acts as a source of agricultural information to farm people; as well as furnishes a two way channel between Educational and Research institutions, extension workers and farmers.

TCM assistance to the Farmers' Forum is directed towards strengthening the leadership which will carry on the Forum's program with more effectiveness.

TCM assistance to Nagpur Orange Association will be directed toward strengthening its organization as well as toward demonstration of value of improved production and marketing practices.

Although cooperative development, as compared with development of farmers' organizations, is supported by different agencies and means, conceptually at least, they are complementary as aids in

development. For that reason, it is proposed that they be consolidated as a single project in this presentation.

The three sub-projects comprising this covering project and the titles under which they were submitted in prior fiscal years are as follows:

Sub-projects	Former numbers and Titles
Agricultural Cooperatives	386-14-149 Cooperative Membership Education
Farmers' Organizations	386-14-067 Farmers' Organizations
Citrus Production and Marketing	386-15-083 Cooperative Marketing & Warehousing of Agricultural Produce

B. Specific Activity Targets or End Results of the Project

- a. To provide: (1) A trained cooperative education instructor in each of the 550 districts of India; (2) An assistant in the more populous districts; (3) A program of continuing basic and refresher courses to train replacements and keep the instructors abreast of current situation; (4) For development of education aids.
- b. Develop the rural leadership to carry on a well-organized national farmers' organization - the Farmers' Forum.
- c. Strengthen management and operation practices of the Nagpur Orange Association sufficient to increase production by 25% and reduce marketing costs by at least 10%.

E-1	FORM ICA 16-120 (6-59) Continuation Sheet	DATE PREPARED 1. November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	586-14-183	E-1
				COUNTRY ECONOMIC PROGRAM		Agricultural Cooperatives and Farm Organizations	
G. <u>Progress Toward Achievement of Project Activity Targets</u>				<u>Farmers' Organization -</u>			
(1) <u>Work Accomplished To Date</u>							
<u>Agricultural Cooperatives -</u>							
i. Basic training courses have been developed and held for about half the district instructors; successive training courses are scheduled for the remaining instructors.				i. The All India Farmers' Forum is now firmly established with headquarters and a permanent office staff in New Delhi. Plans are being finalized for a new building.			
ii. Plans have been developed for training replacements and for on-the-job refresher courses.				ii. The Farmers' Forum has now been organized in each State, with organizations in more than 350 districts in India and with 5000 life members and 500,000 regular members.			
iii. Several visual aid publications have been revised and several new ones prepared. A membership education flannelgraph has been prepared and the outline and shooting scripts of a movie on cooperative principles have been prepared.				iii. Four annual National Conventions of Farmers have been held in New Delhi with an attendance of more than 3,000 delegates at the last convention, representing all sections from the country. Discussions of farm policy, youth and women's meetings and educational exhibits highlighted these conventions. Several States are holding State-level conventions.			
iv. A U.S. technician has been working with the All India Cooperative Union since October 1958 assisting with the membership education program.				iv. A monthly publication is being sent out to each member to keep them informed on organizational activities.			
v. Three audio-visual education vans, ordered in FY58, are expected to be delivered in India during FY60.				v. Twenty selected farm leaders have been sent to the U.S. each year in FY57 and FY58 to study and observe the structure, leadership qualifications and other relevant aspects of general farmers' organizations and farmers' cooperatives, including land grant colleges and farm family participation in Extension, Cooperatives and Farm organization activities. Both of these groups have now returned to India, and individual participants have resumed responsible positions in the Farmers' Forum or in their local communities. A third group, provided for in FY59, is now in the U.S. on a similar study tour. This group will also visit Japan to observe and study Extension, Cooperatives and Farm organizations there.			
vi. Plans have been developed to establish a photo laboratory at the All India Cooperative Union. Necessary provision for equipment for this laboratory has been provided from FY60 funds.				vi. A U.S. Farm Organization Advisor is now in India working closely with the Farmers' Forum since February 1959.			
vii. Provision has been made for the assignment of a U.S. technician in the field of audio-visual media for education.							
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-14-185	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Agricultural Cooperatives and Farm Organizations		

vii. An audio-visual education van has been ordered from FY59 funds which will be used in education and organizational activities through visual aids.

Citrus Production & Marketing -

1. This sub-project so far has involved only 3 consultants. Two of them studied possibilities of increasing citrus production and establishing a more orderly marketing system. The report of these two consultants is the basis for the sub-project. The third consultant studied and reported on general warehousing conditions in India. Upon request from GOI, the FY59 program provided for the services of two U.S. technicians - one in citrus production and the other in citrus marketing - as well as training facilities for 7 participants in the U.S. The technicians are yet to be recruited.

(2) Work Remaining to be Done

Agricultural Cooperatives -

Two basic courses are needed to provide a trained instructor for each of the remaining cooperative districts. Following this, additional basic courses will be necessary to train replacements and to provide assistant instructors in the more populous districts, followed by a continuing series of in-service training courses as well as a program to keep current the necessary teaching aids will be maintained.

Farmers' Forum -

Increase membership as rapidly as possible to the point where organization will be financially self-supporting; farmer participation in all activities of the organization;

foster constitutional changes that would broaden farmer participation in leadership of the organization.

Magpur Orange Association

The two technicians required for this phase of the project are still to be recruited.

(5) Progress Toward Achievement of Project Activity Targets

Progress varies between the three sub-projects. Progress in those activities of the All India Cooperative Union in which the U.S. technician is participating is still ahead of targets. One hundred and fortytwo instructors have been trained and have returned to their districts. However, in recent months activities have tended to slow down due to reorganization of the Union. Membership in the Farmers' Forum is increasing and in general, the organization is gaining more popularity and prestige in the country. No technicians have arrived in India so far to begin work at the Magpur Orange Association.

D. Nature of U.S. Contribution

a. Previous Fiscal Years thru FY59

In FY58 TCM provided the services of a U.S. technician who is working with the All India Cooperative Union since October 1958. Three audio-visual education vans have been ordered from FY58 funds costing about \$25,000.

Each year since FY57 20 Indian farm leaders have been sent to U.S. on a 4-month study tour. Participant interest is put on the functioning and service of general farm organizations, farm cooperatives, extension service, etc. In February 1959 a U.S. Farm Organization Advisor arrived in India and was assigned to

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E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	58 6-14-185	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Agricultural Cooperatives and Farm Organizations		

the Indian Farmers' Forum. One audio-visual van is already on order from FY59 funds for the use of Farmers' Forum.

b. Operational Year - FY60

As presented in the FY60 OPAR, U.S. contributions to the three activities which are being combined in FY60 under this parent project, are:

(Costs in thousands)

Sub-projects	Participants		Technicians		Commodities	Total Cost	Section 402 Rupees
	Nb.	Cost	Nb.	Cost			
Agr. Cooperatives	1	5	1	18	5	26	2
Farmers' Organizations	20	40	1	16	-	56	37
Citrus Production & Marketing	0	0	0	0	0	0	0
Total	21	45	2	34	5	82	39

Section 402 rupees amounting to \$39,000 have been provided in FY60 to cover international roundtrip travel for participants.

c. Budget Year - FY61

In FY61 TCM will provide the continued services of the Farm Organization Advisor and the Agricultural Cooperative Advisor who are presently in India. It is assumed that the Agronomy Advisor (Citrus) and the Agricultural Marketing and Processing Advisor (Citrus Marketing) will be on board throughout FY61. TCM has also made provision for two additional

advisors, one each in Cooperative Credit and Rural Youth work as shown below. In addition provision will be made for 26 participants and commodities in the amount of \$55,000.

1. Agricultural Cooperatives

Participants: 4 for 12 months each to be trained in the U.S. \$20,800.

Technicians:

AGR CDT COOP ADV. 10117.07. Position No. 277. FSR-5. To work with the All India Cooperative Union. 12 months (including international roundtrip travel - home leave and return). \$25,000.

AGR CDT COOP ADV (COOPERATIVES). 10117.09. No position number assigned. 12 months. FSR-4. \$15,800.

AGR CDT COOP ADV (CREDIT). 10117.08. No position number (FSR-4). New. ETA March 1961. 3 months (including international travel, etc.) \$10,000. (not included on SF)

Commodities: \$15,000

Scientific equipment (Code 880) and miscellaneous vehicles and servicing equipment (Code 892) in support of technician work at All India Cooperative Union and with district cooperatives.

11. Farmers' Organizations

Participants: 20 for 4 months each, "Farm Leaders" for training in the U.S. \$44,000.

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				COUNTRY ECONOMIC PROGRAM		Agricultural Cooperatives and Farm Organizations	

Technicians:

FARM ORG ADV. 10451.02. Position No. 212. FSR-4. To work with Farmers' Forum. 12 months (including international round-trip travel - home leave and return) \$21,800.

RURAL YOUTH ADV. 10406.02. New. No position number assigned. ETA January 1961. FSR-4. 6 months (including international travel, etc.) \$14,000.

Commodities: \$18,000

Scientific equipment (Code 880) and miscellaneous vehicles and servicing equipment (Code 892) in support of technician's work with Farmers' Forum.

111. Citrus Production and Marketing

Participants: 2 for 12 months each for training in U. S. in citrus production, marketing and processing. \$10,400.

Technicians:

AGRON ADV CITRUS. 10407.00. No position number assigned. To work with Nagpur Orange Association. FSR-4. 12 months \$15,800.

AGR MRKT PROC ADV (Citrus Marketing). 11146.05. No position number assigned. To work with Nagpur Orange Association. FSR-4. 12 months. \$15,800.

Commodities: \$2,000. Miscellaneous commodities (Code 890) in support of technicians.

Other Costs: \$1,000.

d. Future Fiscal Years

In future fiscal years TGM will continue to provide assistance to the All India Cooperative Union and to the Farmers' Forum. As envisaged, such assistance will be required at least through the Third Five Year Plan period. Assistance to the Nagpur Orange Association is judged to be a type of activity wherein one tour by each of the two technicians who are being provided may suffice as a demonstration. As planned, TGM contribution from FY62 through FY65 is estimated to be as follows:

(Dollar costs in thousands)

Sub-projects	Participants		Technicians		Commo- dities	Other Costs	Total Costs
	Nb.	Cost	Nb.*	Cost			
Agr. Cooperatives	12	61	16	288	60	8	420
Farmers' Organiza- tions	80	176	8	144	72	-	392
Citrus Production & Marketing	2	10	2	36	2	1	49
Total	94	250	26	468	134	9	861

* man-years

E. Nature of Cooperating Country Contribution

Both the All India Cooperative Union and the Farmers' Forum are private organizations, but both receive a Government stipend. Exact rupee expenditure is not available. However, the organizations concerned provide costs of staff, office buildings and all other recurring costs directly related to the activities.

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F. Contributions from Other Sources and Relationship to Other Projects

The All India Cooperative Union is being assisted through technical advice by the Cooperative League of America with the assignment of a U.S. technician since October 1956. No other external assistance is provided under this project.

Activities specified under this project will help educating farmers and rural people in the functions and organization of agricultural cooperatives and farm organizations. Since education to villagers will result in increased yield per acre through credit and other aspects this project is related to the activities under Project 386-19-180, Food Production.

G. Financial Considerations

In FY61 total U.S. contribution to this project amounts to \$227,400. This level of assistance will be required at least through FY66 except in the phase of citrus production and marketing, which is expected to phase out after the completion of one tour of duty by the technicians now under recruitment.

Pipeline

Agricultural Cooperatives: Prior year pipeline represents commodities (three audio-visual vans) undelivered.

Farmers' Organizations: Prior year unliquidated balance of \$16,000 represents \$5,000 out of FY59 funds for the audio-visual van on order and FY58 participant cost which is pending paper adjustment.

Citrus Production & Marketing: FY59 pipeline of \$8,000 is against participant training uncompleted.

All unexpended balances are expected to be eliminated by June 30, 1961.

H. Cooperating Country-TCM Coordination

All elements included in the FY60 OPAR under this project are covered by requests from GOI. In general, contents of this presentation have been discussed with GOI officials concerned.

It is understood that the financial contributions proposed under this project for FY61 by TCM and GOI are subject to availability of funds in each case and such other factors as may arise.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 November 1959		Unclassified	India	386-28-010	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Dev. of Forest Research & Desert Afforestation			

1	PROJECT BEGINS FY 52 ENDS FY 61	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years	TC	188	35	4	128	21													
B.	Net Deab.-Reab.	TC	-29			-38	9													
	Current Funds	TC	10	10																
	Total Actual Year FY 59	TC	-19	10		-38	9													
C.	Operational Year FY 60	TC	6	6													1			
D.	Budget Year FY 61																			
E.	All Subsequent Years	TC	-																	
F.	Total All Years	TC	175																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	23	-	165	-29	-29	-29	-	136	87	49		49	45	4
	Actual Year FY 59	TC				10	10	10	-	10	4	6		6	1	5
	Operational Year FY 60	TC											6	6	4	2
	TOTAL	TC	23	-	165	-19	-19	-19	-	146	91	55	6	61	50	11

Problems Addressed:

PROBLEM IV: Need for development and improved utilization of natural resources.

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				COUNTRY ECONOMIC PROGRAM		

1. General Description of the Project

This Project involves assistance to (i) the Forest Research Institute, Dehra Dun and (ii) the Desert Afforestation Station, Jodhpur, to assist the former institution in the development and preservation of forests and the latter in the control and afforestation of desert.

The Forest Research Institute of India is responsible for carrying out research in forest products and other problems connected with it in India. These include research in timber preservation, utilization of forest products, mycology, pathology, entomology and pulp and paper technology, etc.

The Desert Afforestation Research Station at Jodhpur is conducting studies, experiments and operations in desert control particularly through the afforestation of peripheral areas of desert. The spread of Rajputana desert is diminishing the utility of agricultural lands and it has become imperative to arrest this process in the interests of increasing food production in India.

The project has the following main elements:

- a. Procurement of equipment worth approximately \$259,000 for the F.R.I., Dehra Dun and \$25,000 for the Desert Afforestation Station, Jodhpur. (Funds utilized in this project in years FY-52 thru FY-54 were agricultural funds and so have not been shown on the E-1 front sheet).
- b. Engineering Contract Services to assist in the plans, design, procurement, installation and initial operation of equipment for the pilot pulp and paper plant at the FRI.

- c. Training facilities to scientists of the FRI in U.S.A. in the various fields of forestry.

- d. Provisions of forestry consultants to the FRI.

2. Specific Activity Targets or End Results of the Project

- a. Preservation and efficient utilization of forest wealth of India through expansion of research and experiment facilities at the FRI.

- b. Increase in food production by checking the march of Rajputana Desert towards North India by desert afforestation through the development of Desert Afforestation Station at Jodhpur, Rajasthan.

3. Progress toward Achievement of Activity Targets

a. Work Accomplished to Date

All equipment to the Desert Afforestation Station at Jodhpur has been delivered and this phase of the project is complete.

All the major equipment provided for under the project for FRI has been procured and is being utilized or put into operation. Only a few minor items are under procurement.

The Sandy Hill Iron & Brass Works provided the necessary technical and procurement services required under the contract except Paper Maker Engineer for the pulp and paper plant at the FRI. A contract extension is now being negotiated and the technician is expected to arrive in India next month.

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		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Dev. of Forest Research & Desert Afforestation		

b. Work Remaining to be Done

Installation of equipment in the pulp and paper plant is nearing completion. With the arrival of Paper Maker Engineer the plant will be given final touches and test runs will be completed after which it will be put into operation.

c. Progress toward Achievement of Progress Targets

Equipment furnished under the project is being utilized in solving various research problems at the Forest Research Institute, Dehra Dun and Desert Afforestation Station, Jodhpur.

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

Up to the end of FY 59 U.S. contribution amounted to approximately \$384,000 worth of equipment plus \$125,000 for an engineering and procurement services contract for 48 months. One participant funded from FY 56 funds received training in pulp and paper technology in the U.S. for six months during the period February-July, 1957. In addition, services of a Forest Pathology Consultant were provided to the FRI for a period of four months.

b. Operational Year

Technicians

One Pulp and Paper Technology Consultant for a period of 7 months - ETA March, 1960. \$ 6,000

In addition one Paper Maker Engineer funded in previous years under Sandy Hill Contract will also arrive in India during this period and work with FRI for a period of 9 months.

c. Budget Year

At such time as the FY 61 program is revised for operational purposes, funding is expected to be required in the amount of \$ 12,000 for the following items:

Participant

One participant in the field of cellulose, pulp and paper for a period of nine months. (\$ 5,000)

U.S. owned Sec. 402 funds in local currency to pay the cost of international travel for the participant \$1,850 (in rupees)

Technicians

One Pulp & Paper Technology Consultant carried over from FY 60 (\$ 7,000)

Total (\$12,000)

d. Future Fiscal Years

No further U.S. assistance is contemplated under the project.

5. Nature of Cooperating Country Contribution

During the period of U.S. participation the GOI will contribute to the project approximately Rs. 1,403,000 (\$ 294,630).

In addition GOI will provide:

a. In respect of technicians, suitable office space, office equipment, furnishing and supplies, stenographic, secretarial, translation and interpreting services and technical assistants as required and pay the cost of official communications. GOI will also

PAGE 78 OF 371 PAGES	SECURITY CLASSIFICATION Unclassified	SHEET 3 OF 4 SHEETS TO THIS Project
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-28-010	E-1
				COUNTRY ECONOMIC PROGRAM			

provide contribution to a TCM maintained rupee trust fund for the period of technicians' stay in India to cover the local travel costs including fueling and servicing of vehicles of U.S. technicians as per agreement between the two Governments dated May 9, 1956 and as amended.

It is understood that the financial contribution proposed under this project for FY 1961 by the TCM and GOI is contingent upon the availability of U.S. and GOI local funds and such other factors as may arise.

- b. In respect of participants, GOI will pay travelling expenses from the post of duty to New Delhi and back, expenses connected with their predeparture formalities and salaries of participants during the period of their stay abroad.
- c. In respect of commodities, GOI will pay all costs of inland handling including transportation charges from port of landing to the project site.

6. Contribution from Other Sources and Relationship to Other Projects

Assistance to the FRI is not being duplicated or overlapped by any other foreign agency.

7. Financial Consideration

The U.S. contribution for FY 61 of \$12,000 terminates the the U.S. contribution to the project.

8. Cooperating Country USOM Coordination

The plans embodied in this E-1 and extended in the Project Work Plan have been jointly developed by the GOI Ministry of Food and Agriculture and Industry Division of TCM and have approval of all those people responsible for their operation and successful completion.

E-1	FORM ICA 18-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-25-011	E-1
					COUNTRY ECONOMIC PROGRAM	PROJECT TITLE River Valley Development	

1 PROJECT BEGINS FY 52 ENDS FY 59	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
	Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
															Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	761	-	-	70	680												
B. Net Deob.-Reob. Current Funds																		
Total Actual Year FY 59	L/C									178,710		178,710						
C. Operational Year FY															3			
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	TC	761										178,710						

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	648	-	113	-	-	-	-	113	33	80		80	37	43
Dollar Obligation and Expenditure	Actual Year FY 59	TC														
	Operational Year FY 60	TC											-	-	-	-
	TOTAL	TC	648	-	113	-	-	-	-	113	33	80	-	80	37	43

Problems Addressed:

Commencing with FY61, this project becomes a sub-project component of consolidated project 386-25-173, Water and Power Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-21-016	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Exploratory Lignite Excavation & Development		

1	PROJECT BEGINS FY 53 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A.	All Prior Years	SA TC	578 27	17	10		578													
B.	Net Deob.-Reob.		-4	-5																
	Current Funds	TC	8	3	5		1													
	Total Actual Year FY 59	SA TC	1 3				1											1		
C.	Operational Year FY																			
D.	Budget Year FY																			
E.	All Subsequent Years																			
F.	Total All Years	SA TC	579 34																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	SA TC	553 9	- -	25 18	1 -5	1 -5	1 -5	- -	26 13	26 10	- 3	- -	- 3	- 3	- -
	Actual Year FY 59	TC				8	8	8	-	8	3	5		5	1	4
	Operational Year FY															
	TOTAL	SA TC	553 9	- -	25 18	1 3	1 3	1 3	- -	26 21	26 13	8	-	8	4	4

Problems Addressed:

Problem II - Need to Increase and Improve the supply of Trained Manpower to Industry at all levels.

Problem IV - Need for Development and Improved utilization of Natural Resources.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-21-016	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Exploratory Lignite Excavation & Development		

(1) General Description of the Project:

The objective of this project has been to assist the GOI in the completion of exploratory work for establishing the economic feasibility for the recovery and processing of lignite in the South Arcot District of the State of Madras.

On completion, this project is expected to provide pre-planning requirements for commercial development of (i) 250 m.w. of electricity, (ii) 3.5 million tons of cheap but good domestic and industrial fuel, (iii) a cheap source of fertilizer manufacture and related chemical by-products.

(2) Specific Activity Targets or End Results of the Project:

i) To train Indian technicians in the operation and designing of full-scale commercial plants for the processing of lignite and commercial manufacture of fertilizers and by-product chemicals.

ii) To assist the GOI in the realization of objectives set forth under (1) above.

(3) Progress toward Achievement of Activity Targets:

a) Work Accomplished todate:

In previous fiscal years, heavy earth moving machinery, a pilot processing plant for lignite, a power plant, laboratory equipment and technical reference books were provided to the GOI. Technical advisory services have also been provided, as required.

The pilot processing plant was erected in FY 58, and started operating in June 1958.

In FY 58 two participants were trained in the United States in the operation of urea and ammonia synthesis.

Consultant services of USBM technicians were provided to the Neyveli Lignite Corporation.

One FY 59 participant has proceeded to the U.S. for training in the repair and maintenance of heavy equipment and related machinery.

b. Work Remaining to be Done:

No further exploratory work remains to be done on this project. Full scale development of power, fuel and fertilizer products is to be completed by NLC and GOI.

c. Progress towards Achievement of Project Targets:

Commercial production of electrical power and lignite has not yet begun. All TCM assistance to the project as originally planned has been completed.

(4) Nature of U.S. Contribution:

a. Previous Fiscal Years:

See 3a, above.

b. Operational Year:

c. Budget Year:

There will be no U.S. contribution during FY 60 or FY 61 to this project.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-21-016	E-1
				COUNTRY ECONOMIC PROGRAM		Exploratory Lignite Excavation & Development	

d. Future Fiscal Years:

There will be no U.S. contribution to this project in future fiscal years.

(5) Nature of Cooperating Country Contribution:

The GOI established the Neyveli Lignite Corporation (NLC) in December 1956 for the exploitation of lignite fields in the South Arcott district, and has been supporting its administrative and exploratory services. In addition, the GOI has furnished commodities to the NLC.

(6) Contribution from Other Sources and Relationship to Other Projects:

a. Other Sources:

No external assistance, other than from the U.S., has been provided to the project in previous years.

Aggregate credit to the extent of Rs.600 million (equivalent of U.S. \$ 126 million) has been offered by the USSR from CY 1959 onwards. Part of this credit is for the construction of a power station at Neyveli.

b. Relationship to Other Projects:

This project supplements U.S. assistance being rendered to the GOI thru other Mission projects for the increased production of coal, natural oil and electricity.

(7) Financial Considerations:

Procurement of commodities has largely been completed; the balance is currently underway. No difficulties are foreseen. The participant obligation will for the most part be liquidated within a reasonable period after completion of their training.

(8) Cooperating Country - TCM Coordination:

The activity embodied in this E-1 was closely developed with the GOI Ministry of Steel, Mines & Fuel & the Neyveli Lignite Corporation, and all cooperation was extended by the responsible agencies. The project results, for the portion of the activity undertaken, have been satisfactory to the GOI.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-25-019	E-1
		1 .NOVEMBER 1959		COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Training Construction Equipment Operators and Mechanics		

1	PROJECT BEGINS FY 54 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years	TC	222			222														
B.	Net Deob.-Reob. Current Funds	TC	-1			-1														
	Total Actual Year FY 59	TC	-1			-1													4	
C.	Operational Year FY 60	TC	120			120													4	
D.	Budget Year FY																			
E.	All Subsequent Years																			
F.	Total All Years	TC	341																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	101	-	121	-1	-1	-1	-	120	51	69		69	62	7
	Actual Year FY 59	TC				-	-	-	-	-	-	-		-	-	-
	Operational Year FY 60	TC											120	120	-	120
	TOTAL	TC	101	-	121	-1	-1	-1	-	120	51	69	120	189	62	127

Problems Addressed: Commencing with FY61, this project becomes a sub-project component of consolidated project 386-25-173, Water and Power Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-25-020	E-1
		COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Rihard Velley Development			

1	PROJECT BEGINS FY 54 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	3rd Country
A.	All Prior Years	SA TC	6,011 67	67			6,011 -												
B.	Net Deob.-Reob.		-94				-94												
	Current Funds	TC	40	40															
	Total Actual Year FY 59	SA TC	-94 40				-94												
C.	Operational Year FY 60	TC	5	5															
D.	Budget Year FY		-																
E.	All Subsequent Years		-																
F.	Total All Years	SA TC	5,917 112									33,243							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
			Dollar Obligation and Expenditure	All Prior Years	SA TC	5,899 62	- -	112 5	-94 -	-94 -	-94 -	- -	18 -	4 -	14 -	
	Actual Year FY 59	SA TC				- 40	- 40	- 40	- -	- 45	- 37	- 8		- 8	- 2	- 6
	Operational Year FY 60	SA TC				- -	- -	- -	- -	- -	- -	- -		- 5	- 5	- 5
	TOTAL	SA TC	5,899 62	- -	112 5	-94 40	-94 40	-94 40	- -	18 45	4 37	14 8	5 5	14 13	12 7	2 6

Problems Addressed:

Commencing with FY61, this project becomes a sub-project component of consolidated project 386-25-173, Water and Power Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-27-026	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE			
				Assistance to Industrial Research and Technical Service Organizations			

1	PROJECT BEGINS FY 54 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years	SA TC	1,056 2,059	- 13	- 19	12 12	1,044 2,015													
B.	Net Deob.-Reob.		-63		1		-64													
	Current Funds																			
	Total Actual Year FY 59	SA TC	-23 -40		- 1		-23 -41													
C.	Operational Year FY 60		-																	
D.	Budget Year FY		-																	
E.	All Subsequent Years		-																	
F.	Total All Years	SA TC	1,033 2,019																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	SA TC	833 1,479	- -	223 580	-23 -40	-23 -40	-23 -40	- -	200 540	163 438	37 102		37 102	33 91	4 11
	Actual Year FY															
	Operational Year FY															
	TOTAL	SA TC	833 1,479	- -	223 580	-23 -40	-23 -40	-23 -40	- -	200 540	163 438	37 102		37 102	33 91	4 11

Problems Addressed:

The GOI is withdrawing the request for two technicians funded under this project in FY55 and FY56. The project will phase out and balance of funds will be deobligated in due course.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL		SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-29-027	E-1
			<input type="checkbox"/> REVISION NO.		COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Assistance to Technical Education Institutions	

1	PROJECT BEGINS FY 55 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
																Non- Contract	Con- tract	Non-Contract U.S.	3rd Country	Con- tract
A. All Prior Years	TC	1,512	15	-	1,417															
B. Net Deob.-Reob.	TC	32	1	-	31															
Current Funds	-	-	-	-	-															
Total Actual Year FY 59	TC	32	1	-	31										-	26	-	-	-	
C. Operational Year FY 60	TC	19	19	-	-										-	26	-	-	-	
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	1,563																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	16	1,380	1,496	32	1,412	1,412	-	1,528	49	1,479		1,479	1,330	149
	Actual Year FY	TC				-	-	-	-	-	-	-		-	-	-
	Operational Year FY	TC											19	19	-	-
	TOTAL	TC	16	1,380	1,496	32	1,412	1,412	-	1,528	49	1,479	19	1,498	1,330	149

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-66-178, Engineering Education, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-23-037	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Provision of Industrial Technical Services		

1	PROJECT BEGINS FY 54 ENDS FY 58	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A.	All Prior Years	TC	2,337	131	33	1,963	163	47											
B.	Net Deob.-Reob.	TC	-93	-1		-91	-4	3											
	Current Funds																		
	Total Actual Year FY 59	TC	-93	-1		-91	-4	3											
C.	Operational Year FY																		
D.	Budget Year FY																		
E.	All Subsequent Years																		
F.	Total All Years	TC	2,244																

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	1,748	-	589	-93	-93	-93	-	496	302	194		194	175	19
	Actual Year FY															
	Operational Year FY															
	TOTAL	TC	1,748	-	589	-93	-93	-93	-	496	302	194		194	175	19

Problems Addressed: The overall objective of this project was to help the GOI Development Wing, Ministry of Commerce and Industry, by providing technical assistance to Indian industry through provision of the technical services of productivity teams and individual technicians. The project was started in FY54 and was phased out in FY58. The last contract technician departed India in December 1958 and no further TC assistance is contemplated.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-22-045	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Electric Distribution System Maintenance Centre		

1 PROJECT BEGINS FY 55 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
	Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
															Non- Contract	Contract	Non- Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	TC	290			158	132													
B. Net Deob.-Reob.																			
Current Funds	TC	65				65													
Total Actual Year FY 59	TC	65				65													
C. Operational Year FY 60	TC	155			155											2			
D. Budget Year FY		-																	
E. All Subsequent Years		-																	
F. Total All Years	TC	510																	

2 Dollar Obliga- tion and Expend- iture	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	135	-	155	-	-	-	-	155	58	97		97	87	10
	Actual Year FY 59	TC				65	65	65	-	65	-	65		65	13	52
	Operational Year FY 60	TC											155	155	-	155
	TOTAL	TC	135	-	155	65	65	65	-	220	58	162	155	317	100	217

Problems Addressed: Commencing with FY61, this project becomes a sub-project component of consolidated project 386-25-173, Water and Power Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1. NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-25-059	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Technical Services in Water Resources and Power Development		

1 PROJECT BEGINS FY 52 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
															Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	632	407	156	45	24												
B. Net Deob.-Reob.	TC	-18	1	-17	-2													
Current Funds	TC	197	25	137	35													
Total Actual Year FY 59	TC	179	26	120	33			7			7			1	2 ^{a/}	20		
C. Operational Year FY 60	TC	197	63	104	20	10		37			37			2	2 ^{b/}	20		
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	TC	1,016									44							

2 Dollar Obligation and Expenditure	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	473	-	159	-18	-18	-18	-	141	86	55		55	50	5
	Actual Year FY 59	TC				197	197	162	35	197	22	175		175	35	140
	Operational Year FY 60	TC											197	197	65	132
	TOTAL	TC	473	-	159	179	179	144	35	338	108	230	197	427	150	277

Problems Addressed: Commencing with FY61, this project becomes a sub-project component of consolidated project 386-25-173, Water & Power Development, and the project description is included therein.

a/ and b/ - Excludes one third-country contract Technician.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.		SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-29-087	E-1
	COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Small Industries Development			

1	PROJECT BEGINS FY 56 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A.	All Prior Years	TC	751		8	302	441												
B.	Net Deob.-Reob. Current Funds	TC	143		1	142													
	Total Actual Year FY 59	TC	143		1	142										6			
C.	Operational Year FY 1960	TC	2		2				4			4				6	2		
D.	Budget Year FY 1961																		
E.	All Subsequent Years																		
F.	Total All Years	TC	896									4							

2	FY Source of Funds	Function of Funds	(A) Total All Prior				(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60	
Dollar Obligation and Expenditure	All Prior Years	TC	282	-	469	143	143	-5	148	612	103	509		509	458	51	
	Actual Year FY																
	Operational Year FY 1960	TC											2	2	1	1	
	TOTAL	TC	282	-	469	143	143	-5	148	612	103	509	2	511	459	52	

Problems Addressed:
Commencing with FY 1961 this project becomes a sub-project component of consolidated project 386-29-177, Industrial Development and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-22-091	E-1
	COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Telecommunication Development		

1	PROJECT BEGINS FY 1956 ENDS FY 1961	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	TC	103			52	51							3,850							
B. Net Deob.-Reob.		4																		
Current Funds																				
Total Actual Year FY 1959	TC	4				4														
C. Operational Year FY 1960																		1		
D. Budget Year FY 1961																				
E. All Subsequent Years																				
F. Total All Years	TC	99																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/58	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	47		56	4	4	4		52		52		52	26	26
	Actual Year FY															
	Operational Year FY															
	TOTAL	TC	47		56	4	4	4		52		52		52	26	26

Problems Addressed:

No. V - Need for improvement and expansion of transportation and telecommunication facilities.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-22-091	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Telecommunication Development		

(1) General Description of the Project:

This project, started in FY 1956, was designed to assist the GOI Ministry of Transport & Communications in establishing a Telecommunication Research Laboratory (TRL) in New Delhi to carry out design and research work to augment and improve the telecommunication services in the country.

India has 334,680 telephones. The population in the country is approximately 380 million. There is thus 1 telephone per 1,250 persons. At the present rate of filling subscriber service orders it will take 90 years to fill the existing requirements. Research and development for the rapid, indigenous fabrication of needed equipment is the only way to solve this problem.

Prior to 1956 no research or development work in the field of telecommunication had been undertaken in India. The TRL was started that year to help provide better telecommunication services in the country at lower cost through new designs and improved maintenance and manufacture of equipment utilizing local materials and resources to the greatest possible extent.

The Posts & Telegraph Department is currently spending approximately Rs. 200 million per year on telecommunication services in India and is either directly engaged or closely associated with the manufacture of telephone and telegraph equipment costing approximately Rs. 50 million per year. Under the Second Plan a very large telephone and telegraph expansion is contemplated, involving an outlay of Rs. 750 million.

This project, as developed with the GOI, provided for ICA assistance in the form of a nucleus of modern laboratory-type precision test and measuring equipment for line communication systems; technical books and publications for reference purposes; and a Telecommunication Engineer to assist in the organization of this unit by training Indian personnel in proper use of the equipment.

(2) Specific Activity Targets or End Results of the Project:

Development of design and product for:

- a. local manufacture of telecommunication equipment thereby reducing the need for its import, and
- b. increasing the capacity of existing line facilities in the country.

(3) Progress Toward Achievement of Activity Targets:

a. Work Accomplished to date:

Commodities worth \$ 48,007.18, including technical equipment and publications, have been procured and delivered to the TRL. These commodities are being effectively utilized by the TRL.

b. Work Remaining to be done:

The services of the Telecommunication Engineer, requested under PIO/T 86-22-091-3-60266, FY 56 funds in the amount of \$ 51,500 have not been furnished to the TRL. ICA/W has been urged to continue efforts for the recruitment of this technician. It is hoped that the technician will be recruited and assigned to the TRL in the near future.

When assigned at the TRL, this technician will train Indian counterparts in the modern techniques of research and development in the telecommunication field.

c. Progress toward Achievement of Project Targets:

The TRL has set up the technical equipment and has used it for the successful completion of the following schemes:

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-22-091	E-1
				COUNTRY ECONOMIC PROGRAM		Telecommunication Development	

1) Retransposition designs to increase the capacity of existing lines.

ii) New design of long-distance exchange to provide rapid operating facilities.

iii) Design of carrier telephone equipment.

Some of the above and related schemes are expected to lead to increased indigenous manufacture of equipment, which was hitherto being imported into the country.

(4) Nature of U. S. Contribution:

a. Previous Fiscal Years:

In FY 56, the U. S. contributed technical equipment and publications valued at \$ 48,007.18, which has been delivered to the TRL.

The services of a Telecommunication Engineer, requested under P/O/T 86-22-091-3-60266, FY 56 funds in the amount of \$ 51,500, remain to be furnished to the TRL. ICA/W is continuing efforts to recruit a suitable technician for this position. The Project Agreement dated May 21, 1959 (Amendment # 4) extends the final contribution date to April 27, 1961.

b. Operational Year:

The Telecommunication Engineer is expected to arrive in India some time during FY 1960. However, no funds except the FY 1956 funds already committed will be required.

c. Budget Year:

See b above.

d. Future Fiscal Years:

There will be no future fiscal year contributions to the project.

(5) Nature of Cooperating Country Contributions:

The initial GOI expenditure included the rupee equivalent of \$ 138,192 by way of capital expenditure and recurring expenditure for staff and other running expenses at a rate of rupee equivalent of \$ 75,530 per year. This represents only minimum initial expenditure with increasing GOI expenditures later, as required. As of December 31, 1958, an estimated rupee equivalent of \$ 3.85 million has been expended, covering such items as building space, an administrative organization, research personnel and GOI procured equipment.

(6) Contribution from Other Sources and Relationship to Other Projects:

a. Other Sources:

In the past the GOI has obtained the services of eight technicians under the Colombo Plan for the Post and Telegraph Department. Under the Colombo Plan a Switching expert from the UK was also provided for the Telecommunication Research Laboratory.

b. Relationship to Other Projects:

This project supports but does not duplicate or overlap the activity under Project 386-37-024, Expansion of Aviation Ground Facilities.

(7) Financial Considerations:

The consummation of FY 56 funds in P/O/T 86-22-091-3-60266 (\$ 51,500) will complete the activity under this project.

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-22-091	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Telecommunication Development		

If the Telecommunication Engineer arrives in India during FY 1960, the pipeline in this respect should get liquidated some time in FY 1961.

The GOI will continue to furnish and support the recurring costs in support of administrative, maintenance and operating services and supplies.

(8) Cooperating Country - TCM Coordination:

The sponsoring GOI agency (Post & Telegraph Department) has furnished full cooperation and has established the TRL on the basis of their own planning and time-table.

The GOI would like to utilize the services of the Telecommunication Engineer and it was because of specific GOI interest that the request has been made to ICA/W for renewed efforts to recruit this technician.

It is expected that all needed cooperation from the GOI would be forthcoming.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-27-115	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE National Productivity Council		

PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					Other External Financing	(D) Numbers of People				
	Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
															Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	TC	56	5	31	-	20	-												
B. Net Deab.-Reob.	TC	87	-3	96	-	-6	-												
Current Funds	TC	728	21	173	400	134	-												
Total Actual Year FY 1959	TC	815	18	269	400	128	-												
C. Operational Year FY 1960	TC	590	84	286	200	20	-	326				326			4	14	176	-	
D. Budget Year FY 1961																			
E. All Subsequent Years																			
F. Total All Years	TC	1461										326							

Dollar Obligation and Expenditure	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	TC		2	20	54	87	107	107	-	141	35	106		106	95	11
Actual Year FY 59	TC					728	728	696	32	728	4	724		724	145	579
Operational Year FY 60	TC												590	590	75	515
TOTAL	TC		2	20	54	815	835	803	32	869	39	830	590	1420	315	1105

Problems Addressed: Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-29-177, Industrial Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-22-116	E-1

1 PROJECT BEGINS FY 57 ENDS FY 57	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
															Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	SA	4,000			500	3,500												
B. Net Deob.-Reob.					-100	+100												
Current Funds																		
Total Actual Year FY 57					-100	+100												
C. Operational Year FY																		
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	SA	4,000																

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	SA	-	3,500	4,000	-	-	3,500	-	4,000	-	4,000		4,000	150	3,850
	Actual Year FY															
	Operational Year FY															
	TOTAL	SA	-	3,500	4,000	-	-	3,500	-	4,000	-	4,000	-	4,000	150	3,850

Problems Addressed:

Commencing with FY61, this project becomes a sub-project component of consolidated project 386-25-173, Water and Power Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-21-128	E-1
				COUNTRY ECONOMIC PROGRAM		PROJECT TITLE GEOLOGICAL SURVEY OF INDIA	

1	PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper-ating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years.	TC	279	83	38		158														
B. Net Deob.-Reob.	TC	-3	12	1		-16														
Current Funds	TC	137	99	38																
Total Actual Year FY 1959	TC	134	111	39		-16											5	7		
C. Operational Year FY 1960	TC	93	93														4			
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	506																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	44	158	235	-3	155	155	-	232	69	163		163	147	16
	Actual Year FY 59	TC				137	137	137	-	137	58	79		79	79	-
	Operational Year FY 60	TC											93	93	80	13
	TOTAL	TC	44	158	235	134	292	292	-	369	127	242	93	335	306	29

Problems Addressed:
Commencing with FY 61 this project becomes a sub-project component of "Mineral Development" and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-21-132	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Oil & Gas Commission		

1 PROJECT BEGINS FY 58 ENDS FY 60	(A) Function of Funds	(B) Dollar Obligations (\$1,000)							(C) L/C Commitments or Obligations					(D) Numbers of People						
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		Other External Financing	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	41	10	31																
B. Net Deob.-Reob.	TC	2		2																
Current Funds	TC	12		12																
Total Actual Year FY 1959	TC	14		14														2		
C. Operational Year FY 1960	TC	26		26				9				9						5		
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	81										9								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	8	-	33	2	2	2	-	35	21	14		14	14	-
	Actual Year FY 59	TC				12	12	12	-	12	-	12		12	2	10
	Operational Year FY 60	TC											26	26	1	25
	TOTAL	TC	8	-	33	14	14	14	-	47	21	26	26	52	17	35

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-21-174, Mineral Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-23-137	E-1
		COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Assistance to Lime Industry		
		<input type="checkbox"/> REVISION NO.					

1	PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	13			13														
B. Net Deob.-Reob.	TC	1			1														
Current Funds																			
Total Actual Year FY 1959	TC	1			1											1			
C. Operational Year FY 1960	TC	5		5					2			2				1	1		
D. Budget Year FY		-																	
E. All Subsequent Years		-																	
F. Total All Years	TC	19																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	-	-	13	1	1	1	-	14	-	14		14	12	2
	Actual Year FY													-	-	-
	Operational Year FY 60	TC											5	5	-	5
TOTAL	TC		-	-	13	1	1	1	-	14	-	14	5	19	12	7

Problems Addressed: Commencing with FY61, this project becomes a sub-project component of consolidated project 386-21-174, Mineral Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-21-148	E-1
	COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Assistance to Coal Industry			

1	PROJECT BEGINS FY 58 ENDS FY 60	Dollar Obligations (\$1,000)							L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		(A) Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	10		10																
B. Net Deob.-Reob.																				
Current Funds	TC	27		27																
Total Actual Year FY 1959	TC	27		27																
C. Operational Year FY 1960	TC	49	42	7				4				4					2			
D. Budget Year FY		-																		
E. All Subsequent Years		-																		
F. Total All Years	TC	86										4								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	-	-	10	-	-	-	-	10	9	1		1	1	-
	Actual Year FY 1959	TC				27	27	27	-	27	-	27		27	24	3
	Operational Year FY 1960	TC											49	49	-	49
	TOTAL	TC	-	-	10	27	27	27	-	37	9	28	49	77	25	52

Problems Addressed: Commencing with FY61, this project becomes a sub-project component of consolidated project 386-21-174, Mineral Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.
		1, November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-29-150
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE		
				Indian Institute of Technology, Kanpur		

PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
	Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
															Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	89	-	-	89	-													
B. Net Deob.-Reob.		311	-	-	300	11													
Current Funds		89	-	-	-	89													
Total Actual Year FY 59	TC	400	-	-	300	100									-	5	-	-	-
C. Operational Year FY 60	TC	568	-	-	443	125									-	10	-	-	20
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years	TC	1057																	

FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
		(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	TC	-	89	89	311	400	89	311	400	-	400		400	80	320
Actual Year FY 59	TC				89	89	-	89	89	-	89		89	18	71
Operational Year FY 60	TC											568	568	-	568
TOTAL	TC	-	89	89	400	489	89	400	489	-	489	568	1057	98	959

Problems Addressed:

Commencing FY 1961, this project becomes a sub-project component of consolidated project 386-66-178, Engineering Education, and the project description is included therein.

1	PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	TC	38		11	27															
B. Net Deob.-Reob.	TC	-5		-4	-1															
	Current Funds	TC	12		7		5													
Total Actual Year FY 1959	TC	7		3	-1	5												1		
C. Operational Year FY 1960	TC	26	15	11	-	-			4			4			1		2			
D. Budget Year FY																				
E. All Subsequent Years																				
F. Total All Years	TC	71										4								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	-	-	38	-5	-5	-5	-	33	5	28		28	25	3
	Actual Year FY				12	12	7	5	12	-	12		12	2	10	
	Operational Year FY											26	26	13	13	
TOTAL	TC	-	-	38	7	7	2	5	45	5	40	26	66	40	26	

Problems Addressed:

Problem II - Need to Increase and Improve the Supply of Trained Manpower to Industry at all levels.

Problem V - Need for Improvement and Expansion of Transportation and Telecommunication Facilities.

E-1	FORM ICA 18-120 (4-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-27-151	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM		Council of Scientific & Industrial Research	

1. General Description of the Project

This project was initiated in FY1958 for the purpose of providing technical assistance to the GOI Council of Scientific and Industrial Research (CSIR), an autonomous body functioning under the Ministry of Scientific Research and Cultural Affairs, which seeks to promote, guide and coordinate scientific and industrial research as well as ensure utilization of research and technical know-how for the improvement of Indian industry; and is responsible for the establishment, maintenance and management of 14 national laboratories where research is carried on and technical know-how developed.

Although assistance has been provided to other institutes of the CSIR under this and other projects in prior-years, commencing FY58 aid has, in fact, been limited to the CSIR Central Roads Research Institute (CRRI). Further, commencing in FY1961 any further assistance to the CRRI will be made available through project 386-31-169, Highways & Bridges, and a description of aid in FY1961 and beyond is incorporated as a part of that project.

2. Specific Activity Targets or End Results of the Project

(i) To assist the CRRI in strengthening its research and technical advisory capacities for the construction of improved and more economical highways, bridges and other roadways in India through (a) provision of technical advice and (b) training opportunities abroad for engineers of the CRRI.

(ii) Through (i) above, to increase transportation capacity, facilitate more effective utilization of natural resources and distribution of goods as well as create increased employment opportunities.

3. Progress Toward Achievement of Activity Targets

a. Work Accomplished to Date

One 1-year participant in the field of road construction proceeded to the U.S. during 1959. \$5,000 was obligated for commodities (laboratory equipment) in support of the technician who is now expected to arrive in FY 1960.

b. Work Remaining to be Done

Two participants will study, for 12 months in the U.S., specialized aspects of the Design and Construction of Highways and Bridges.

The one year services of a General Highway Research Engineer from the U.S. Bureau of Public Roads (under inter-agency arrangement) will advise the CRRI in its research activity on various soils, bitumin and concrete and on traffic engineering problems.

c. Progress toward Achievement of Projects Targets

Progress to date cannot yet be measured.

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

In FY 58, the year in which this project was initiated, training was provided to one CSIR participant in the Dissemination of Scientific Information and to another participant in Electronic Instruments, at a total cost of \$ 11,000. Provision was also made in FY 58 for the

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-27-151	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Council of Scientific & Industrial Research		

services of a Chemical Engineer (Salt) and \$ 27,000 was obligated by project agreement to obtain these services under contract. The position could not be filled and the request has now been withdrawn by the GOI. The funds will be deobligated.

b. Actual Year (FY 1959)

One CRRRI participant for training in road construction, \$3,000.

c. Operational Year

(i) Training to two 12-month CRRRI participants will be provided in the U.S. in road construction techniques @ \$ 10,700 plus \$3,700 Sec.402 rupees.

(ii) A sum of \$ 500 FY 60 funds was provided to complete the training of 1 participant, Mr. R.D. Taneja.

(iii) The One-year services of a General Highway Engineering Research Technician will be provided to the CRRRI. P/O/T No. 386-27-151-2-00007, total cost FY 60, \$ 15,000.

d. Budget Year

and

e. Future Fiscal Years

Commencing with FY 1961 this project is phased out. Any further assistance to CRRRI will be made available under project 386-31-169, Highways and Bridges.

5. Nature of Cooperating Country Contribution

The GOI established the CRRRI in July 1952 to study and evolve cheaper and better methods of road construction and maintenance, and continues to support its administrative and operating services.

6. Contribution from Other Sources and Relationship to Other Projects

a. Contribution from Other Sources

During the period ending March 31, 1958, the U.K. has supplied equipment worth £6,572 to the CRRRI. The Colombo Plan has also provided seven fellowships for training in Australia and Canada in road construction techniques.

b. Relationship to Other Projects

Assistance in the promotion of scientific research and industrial know-how was provided in the past to CSIR under projects 86-27-026 Industrial Research and Technical Service Organizations and 86-31-096 Highway Transportation.

7. Financial Considerations

The U.S. contribution of \$ 26,000 in FY 60 will terminate assistance under this project.

Commodities will be subobligated upon arrival of the General Highway Engineering Research Technician.

No difficulties are foreseen in the liquidation of pipeline funds.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-27-151	E-1
				COUNTRY ECONOMIC PROGRAM		Council of Scientific & Industrial Research	

8. Cooperating Country - TCM Coordination

The CRRI is anxious to provide training to their participants as well as utilize the services of the technician. It is expected that they will continue to provide fully adequate cooperation for this purpose, as in the past.

Suitable Indian counterparts will be assigned to the U.S. technician.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.		SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-28-163	E-1
			COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Assistance to Steel Industry		

1 PROJECT BEGINS FY 59 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
															Non-Contract	Contract	U.S.	3rd Country	Contract
A. All Prior Years																			
B. Net Deob.-Reob.																			
Current Funds	TC	373		373															
Total Actual Year FY 59	TC	373		373													100		
C. Operational Year FY 60	TC	373		373													100		
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years	TC	746																	

NOTE: 100 additional participants under supplementary TC funding (\$373) will be trained if such allotment is approved by ICA/W.

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960						
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60			
Dollar Obligation and Expenditure	All Prior Years	TC																	
	Actual Year FY 59	TC				373	373	373	-	373	-	373		373	373	-	373	75	298
	Operational Year FY 60	TC											373						
	TOTAL	TC				373	373	373	-	373	-	373	373	746		75			671

Problems Addressed:
Commencing with FY 61, this project becomes a sub-project component of consolidated project 386-28-163, Industrial Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-22-166
			COUNTRY ECONOMIC PROGRAM		PROJECT TITLE	
					Sharavathy Hydrel Project	

1	PROJECT BEGINS FY 59 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years																			
B.	Net Deob.-Reob. Current Funds																			
	Total Actual Year FY 1959	I/C								14,643		14,643								
C.	Operational Year FY																			
D.	Budget Year FY																			
E.	All Subsequent Years																			
F.	Total All Years	I/C										14,643								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY							
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/				
	All Prior Years																			
	Actual Year FY																			
	Operational Year FY																			
	TOTAL																			

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-25-173, Water & Power Development, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.		SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-28-167	E-1
			COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Assistance to Phosphorus Industry		

I PROJECT BEGINS FY 59 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
	Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
															Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years																		
B. Net Deob.-Reob. Current Funds		15	-	15														
Total Actual Year FY 59	TC	15	-	15				6				6					3	
C. Operational Year FY																		
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	TC	15										6						

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/ 58	(2) Un-Sub- Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/ 59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/ 59
Dollar Obliga- tion and Expend- iture	All Prior Years	TC				15	15	15	-	15	-	15		15	11	4
	Actual Year FY															
	Operational Year FY															
	TOTAL	TC				15	15	15	-	15	-	15		15	11	4

Problems Addressed:

Problem II - Need to Increase and Improve the Supply of Trained Manpower to Industry at all levels.

Problem IV - Need for Development and Improved utilization of Natural Resources.

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-28-167	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Assistance to Phosphorus Industry		

(1) General Description of the Project:

The purpose of this project is to assist the GOI National Industrial Development Corporation (NIDC) in the design of a plant for the production of phosphorus and its derivatives through the interchange of technical know-how and the knowledge of successful operation and techniques of such plants by providing training in the U.S. to Indian Engineers.

(2) Specific Activity Targets or End Results of the Project:

(i) To increase the production in metallurgical, match manufacturing, dye stuff, drug, detergent, and diverse chemical industries.

(ii) The Indian soil has a nitrogen to phosphorus ratio of 9 to 1 as against the norm of 3 to 1, which obviously calls for expedient rectification. The local production of triple super-phosphatic fertilizers will largely alleviate such a condition.

(3) Progress toward Achievement of Activity Targets:

a. Work Accomplished to Date:

No activity has started under this project.

b. Work Remaining to be Done:

Training remains to be provided to three FY 1959 participants in the field of phosphorus manufacture.

c. Progress toward Achievement of Project Targets:

The work under this project has not started to date. It is expected that the participants would start on their training on or about November 19, 1959.

(4) Nature of the U.S. Contribution:

a. Previous Years:

Three participants were PIO'ed in FY 1959 for training in the manufacture of elemental phosphorus.

b. Operational Year:

There will be no U.S. contribution in FY 1960.

c. Budget Year:

There will be no U.S. contribution in FY 1961.

d. Future Fiscal Years: There will be no U.S. contribution in future fiscal years.

(5) Nature of Cooperating Country Contribution:

The GOI pays the salaries of the participants while on training abroad as well as certain within India travel and incidental expenses.

In addition the GOI continues to support the National Industrial Development Corporation (NIDC) which has sponsored this project.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Assistance to Phosphorus Industry		
(6) <u>Contribution from Other Sources and Relationship to Other Projects:</u>			(8) <u>Cooperating Country - TCM Coordination:</u>				
a. <u>Other Sources:</u>			The plans embodied in this E-1 represent the keenness of the NIDC to start the groundwork for establishing a phosphorus manufacturing plant in India. The NIDC has been extending and assures of all cooperation for the successful implementation of the project.				
No external assistance from any source, other than the U.S., has been provided to the GOI.							
b. <u>Relationship to Other Projects:</u>							
Assistance under this project can be of major consequence through the establishment of a new chemical manufacturing industry, and is a close corollary to many other Mission projects for development and growth of Indian manufacturing capacity.							
(7) <u>Financial Considerations:</u>							
The contribution of \$26,000 in FY 1959 terminates the U.S. assistance to this project. No difficulties are foreseen in the normal liquidation of the participant pipeline.							
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E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	Unclassified	India	386-25-173	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE		
				Water & Power Development			

1	PROJECT BEGINS FY 61 ENDS FY 62	Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years																				
B. Net Deob.-Reob.																				
Current Funds																				
Total Actual Year FY																				
C. Operational Year FY																				
D. Budget Year FY 1961	TC	396	260	104	-	12	20					33					8	7	20	
E. All Subsequent Years	TC	365										34								
F. Total All Years	TC	761										67								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60			
Dollar Obligation and Expenditure	All Prior Years																		
	Actual Year FY																		
	Operational Year FY																		
	TOTAL																		

Problems Addressed:

Problem IV Need for development and improved utilization of natural resources.

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				COUNTRY ECONOMIC PROGRAM		Water & Power Development	

1. General Description of the Project

This project is directed toward the furnishing of commodity, technical & training assistance in the many facets involved in the expansion and development of India's water and power potential. Such assistance is being furnished under nine sub-projects that are described below:

a. River Valley Development (386-25-011)

Under this project assistance was furnished to 9 river valley projects through a Project Agreement implemented in FY-1952 and supplemented and amended in the subsequent years. These projects were:

- i. Hirakud - Orissa State
- ii. Kakrapar - Bombay State
- iii. Mahi - Bombay State
- iv. Gharaprabha - Mysore State
- v. Saurashtra Irrigation Scheme (6 small projects) - Bombay State
- vi. Tunga Anicut - Mysore State
- vii. Gangapur - Bombay State
- viii. Fathri - Uttar Pradesh
- ix. Chambal - Rajasthan & Madhya Pradesh

The assistance provided to these projects was in the form of construction equipment only. However, in FY-59

an entirely new facet of assistance was added to the project by providing a substantial amount of PL 480 funds to pay for the rupee costs for the period April 1959 to March 1961 of certain river valley projects of India. In this group were included 12 projects out of which 4 also belonged to the former group. These projects were:

- i. Hirakud Stage I - Orissa State
- ii. Damodar Valley - Bihar - West Bengal
- iii. Mahi Right Bank Canal - Bombay State
- iv. Kakrapar - Bombay
- v. Nagarjunasagar - Andhra Pradesh
- vi. Kosi - Bihar
- vii. Bhadra - Mysore
- viii. Tungabhadra - Andhra Pradesh
- ix. Mahanadi Delta - Orissa
- x. Kunda - Madras
- xi. Koyna - Bombay
- xii. Chambal Stage I - Rajasthan and Madhya Pradesh.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Water & Power Development		

b. Groundwater Exploration (386-12-012)

This project came into existence in FY 1953 through an agreement with the GOI to assist it in establishing an exploration organization to investigate, drill, and assess the groundwater potential of some 15 different areas in India to the end of subsequent economic use of groundwater for irrigation in areas where it had not been used before. The aid involved consisted of furnishing of technicians under a contract to operate and teach operation of the various drills, advisory technicians as to the technical and administrative functions of the GOI organization and supply of extensive drilling equipment and water well accessories.

c. Training Construction Equipment Operators and Mechanics (386-25-019)

This project started in March 1954 involved assistance to the two Technical Training Centers opened by the GOI at Kotah, Rajasthan and Nagarjunasagar, Andhra Pradesh for training Indians in the operation, repair and maintenance of heavy construction equipment. The school at Kotah was started in November 1955 and at Nagarjunasagar in June 1956. The assistance comprises of one set of basic construction equipment and two contract technicians to each school during the initial period. It is expected that the services of these technicians will be provided to the two schools for about 36 man-months.

d. Rihand Valley Development (386-25-020)

The Rihand Dam is a concrete gravity dam being constructed, on the Rihand river in the south-east

corner of the Uttar Pradesh. The dam is 300 ft. high, 3,000 ft. long, contains 2,750,000 cu.yd. of concrete and stores 8,600,000 acre feet of water. The initial power installation is 250,000 kilowatts. Assistance to this project has the following elements:

- i. Construction plant and equipment both for the contractor and the State of Uttar Pradesh.
 - ii. 2 U.S. technicians as resident consulting engineers for two years each.
 - iii. Technical back up from the U.S. Bureau of Reclamation.
 - iv. Sec. 402 and PL 480 funds to pay for a portion of the rupee costs of the project.
- e. Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission (386-25-035)
- This project initiated in FY-54 provides funds for an Inter-Agency Agreement to furnish technical advice by the U.S. Bureau of Reclamation to the Central Water & Power Commission on both design and laboratory problems that can be solved in the U.S.A. by the USBR. This also includes the furnishing of reports, books, experimental data and other information obtained by the U.S. Bureau of Reclamation.
- f. Electrical Distribution System Maintenance Training Centers (386-22-045)

This project initiated in FY-1955 has as its purpose the introducing and teaching to Indian engineers and

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electrical linemen the various techniques in repairing, maintaining and constructing electrical transmission lines, switchgear and facilities while "hot" thus obviating costly and inefficient power shut-downs during this period. To achieve this purpose GOI has established two 'hot line' training centers at Bangalore, Mysore and Ganguwal, Punjab. TCM assistance to this project comprises of:

- i. 20 sets of 'hot line' tools, 8 sets (4 for each center) for training students and 12 sets for 12 Indian States Electricity Departments to establish 'hot line' schools in different states with the assistance of Indian personnel trained at the two abovementioned centers.
- ii. Two contract technicians for 48 months each to run the training centers during the initial period till they become self-sustaining.

g. Technical Services in Water Resources & Power Development (386-25-059)

This project initiated in FY-52 involves various kinds of technical assistance to the Central Water & Power Commission of the GOI and thereby vitally assist in the construction of river valley projects throughout India. CW&PC is the central organization of the GOI Ministry of Irrigation & Power and is responsible for technical approval and coordination of various river valley projects which are actually constructed by various Indian States or Federal or State constituted statutory corporations. The purpose of this project is to assist CW&PC to the end that it becomes a technically competent coordinator and review body for all river valley

projects - the purpose for which it was organized by the GOI. The elements of U.S. assistance are:

1. Provision of long term U.S. technicians and short-term consultants.
2. Training of Indian participants in the U.S.
3. Provision of a printing press.
4. Provision of technical books and research material.

h. Delhi Thermal Plant (386-22-116)

The purpose of this project, initiated in FY 1957, is to furnish partial financing for the supply and construction of a 30,000 KW steam power plant for Delhi. It also includes the engineering design and supervision to properly and efficiently purchase equipment, build the plant and place it in operation.

1. Sharavathy Hydel Project (386-22-166)

Sharavathy is a power project designed to harness the power potential of the river Sharavathy in the Mysore State. The project envisages construction of a storage dam across the river raising it to 131 ft. high and construction of a power house with 200,000 KW of installed capacity. The second and third stage aim to raise the dam to 184 ft. and erect more generating units totalling 890,000 KW installed capacity.

ICA assistance to this project is confined to provision of PL 480 funds to meet the construction costs during the two year period April 1959 to March 1961.

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				COUNTRY ECONOMIC PROGRAM			

2. Specific Activity Targets or End Results of the Project

The overall aims of achievement for this project are:

- a. i. To assist India in achieving the Second Five Year Plan targets of 6.9 KW of installed capacity and irrigation facilities for 88.8 million acres by March 31, 1961.
- ii. To develop an efficient organizational set up and cadre of competent and experienced Indian personnel who will maintain the tempo of development and meet the demands of increased technical know-how required in the field of river valley project construction.
- b. The end results for each sub-project may be briefly described as under:

i. River Valley Development - 386-25-011

Accomplish the construction of various river valley schemes in most expeditious, efficient and economic manner using equipment supplied.

Demonstrate the effective use of walking drag-lines in construction operations and also train Indian personnel in the operation and maintenance of these machines.

ii. Groundwater Exploration - 386-12-012

Creation of an efficient organization for the exploration of groundwater which would run in a proper manner by Indian personnel with no outside

assistance and necessary equipment to accomplish work.

iii. Training Construction Equipment Operators & Mechanics - 386-25-019

Establishment of schools on a permanent footing and training Indians to take over after the departure of American technicians thus making them self-sustaining.

iv. Rihand Valley Development - 386-25-020

Completion of the project according to schedule.

v. Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035

Strengthening the CWPC to make it a more efficient technical body in the field of water and power development.

vi. Electrical Distribution System Maintenance Training Centers - 386-22-045

Establishment of schools on a permanent footing and also establishing working units in 12 Indian States, and training Indians to take over after the departure of American technicians to make the project self-sustaining.

vii. Technical Services in Water Resources & Power Development - 386-25-059

Development of India's water and power resources in a more efficient and economic manner.

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				COUNTRY ECONOMIC PROGRAM		Water & Power Development	

viii. Delhi Thermal Plant - 386-22-116

Completion of the project according to schedule.

ix. Sharavathy Hydel Project - 386-22-166

Completion of the project according to schedule.

3. Progress toward Achievement of Activity Targets

a. Work Accomplished to date

The nine sub-projects included in this project were initiated in different years in the past and are in the varying stages of accomplishment. They are described as under:

i. River Valley Development - 386-25-011

The construction equipment supplied to the nine projects included in the first group described in paragraph first of 1. a. has been constantly in use. Out of the total river valley schemes now covered under this project five have been essentially completed, viz., Ghataprabha, Saurashtra Irrigation Scheme, Tunga Anicut, Gangapur and Pathri. Construction equipment from these projects has been transferred to other river valley projects now under construction throughout India. The status of completion regarding remaining twelve project is as under: Chambal 42 percent; Hirakud Stage - I 80 percent; Damodar Valley 83 percent; Mahi Right Bank Canal 48 percent; Kakrapar Project 70 percent; Nagarjunasagar Project 23 percent; Kosi Project 35 percent; Bhadra 56 percent; Tungabhadra 91 percent; Mahanadi Delta Irrigation Scheme 22 percent; Kunda 26 percent; and Koyna 25 percent.

ii. Groundwater Exploration - 386-12-012

All the fifteen areas envisaged in the Project Agreement were explored as of December 31, 1958.

The Ralph M. Parsons Company provided engineering advisory services and drilling and technical personnel services for a total of 52 man-months. The contract expired on December 31, 1958.

The Operational Agreement provided for the drilling of 350 wells. However, this figure was later reduced to 300 which was considered sufficient for the areas under investigation. 288 wells have so far been drilled of which 141 have been converted into production wells following the collection of desired hydrological and geological data.

iii. Training Construction Equipment Operators & Mechanics - 386-25-019

The first Heavy Equipment School was opened at Kotah, Rajasthan in November, 1955 and the second school was opened at Nagarjunasagar, Andhra Pradesh in June, 1956.

The two schools have so far graduated 240 students in the operation and maintenance of heavy construction equipment and have 80 students on rolls.

iv. Rihand Valley Development - 386-25-020

The dam and power house is about 70 percent complete. The scheduled completion date is March 1961.

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<p>The construction equipment supplied to the State of Uttar Pradesh and the Contractor is being constantly used.</p> <p>Two U.S. engineers furnished resident consulting services for a period of 2 years each. They completed their tours of duty by the end of FY 1959.</p> <p>Considerable backstopping services have been provided to Rihand Project by the U.S. Bureau of Reclamation through an Inter-Agency Agreement.</p>				<p>facilities were provided to 81 participants. During FY 60 ten U.S. short- and long-term technicians will provide CWPC with approximately 5 man-years of service while training facilities to 20 Indian Engineers will be provided in the U.S.</p> <p>Technical books and magazines have been provided to CWPC.</p> <p>Equipment for printing press is being installed.</p>			
<p>v. <u>Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035</u></p> <p>Technical and advisory services have been constantly provided by the USBR to CWPC since the inception of project in FY 1954.</p>				<p>viii. <u>Delhi Thermal Plant - 386-22-116</u></p> <p>The contract for design, engineering, procurement and construction management services was awarded to Kuljian Corporation of Philadelphia in July, 1958. Plans and specifications for the plant equipment have been prepared and invitation to bid has been issued by the India Supply Mission.</p>			
<p>vi. <u>Electrical Distribution System Maintenance Training Centers - 386-22-045</u></p> <p>The two 'Hot Line' schools at Bangalore and Ganguwal have been running satisfactorily for almost two years. So far 75 students drawn from the electricity departments of various states have completed their training. Another 30 students are on rolls.</p>				<p>ix. <u>Sharavathy Hydel Project - 386-22-166</u></p> <p>The project is about 16 percent complete.</p>			
<p>vii. <u>Technical Services in Water Resources & Power Development - 386-25-059</u></p> <p>Under this project, upto the end of FY 59, 20 long- and short-term U.S. technicians had provided CWPC with design, engineering, advisory and consultation services for a total of 38 man-years. In addition, training</p>				<p>b. <u>Work Remaining to be Done</u></p> <p>i. <u>River Valley Development - 386-25-011</u></p> <p>To complete the 12 projects listed in item 1.a.</p> <p>ii. <u>Groundwater Exploration - 386-12-012</u></p> <p>To make the Exploratory Tubewell Organization a permanent institution capable of independently carrying on the groundwater exploration work in India.</p>			
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	Water & Power Development					
<p>iii. <u>Training Construction Equipment Operators & Mechanics- 386-25-019</u></p> <p>The four contract technicians will furnish their services for further one year to train Indians to the end of establishing the schools on a self-sustaining basis.</p> <p>iv. <u>Rihand Valley Development - 386-25-020</u></p> <p>The construction work is continuing and the project is scheduled for completion in FY 61.</p> <p>v. <u>Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035</u></p> <p>As of 30th June 1960 this project will be phased out. From FY 61 an annual amount of \$ 20,000 will be provided under sub-project 386-25-059 for an Inter-Agency Agreement with USBR to provide such services to the CWPC.</p> <p>vi. <u>Electrical Distribution System Maintenance Training Centers - 386-22-045</u></p> <p>The services of two contract technicians will be furnished for a further period of two years to the end of making the 'hot line' training schools self-sustaining and also to aid in the initiation of 'hot line' maintenance as a standard operating procedure on the electric transmission systems in the 12 Indian States.</p> <p>12 additional sets of 'hot line' tools are being furnished under this project to be used in 12 Indian States for training of additional linemen and initiation of 'hot-line' maintenance on State systems.</p> <p>vii. <u>Technical Services in Water Resources & Power Development - 386-25-059</u></p> <p>Assistance in the form of short-term consultants, books, technical material and technical backstopping by USBR, will continue to be provided to CW&PC to strengthen it as a competent technical review body.</p> <p>viii. <u>Delhi Thermal Plant - 386-22-116</u></p> <p>Construction and installation of 30 MW thermal power plant at Rajghat, Delhi</p> <p>ix. <u>Sharavathy Hydel Project - 386-22-166</u></p> <p>Completion of the 1st stage of the project by April, 1961.</p> <p>c. <u>Progress Toward Achievement of Progress Targets</u></p> <p>1. <u>River Valley Development - 386-25-011</u></p> <p>All the 17 river valley schemes included in this project are progressing at a satisfactory rate of development.</p> <p>11. <u>Groundwater Exploration - 386-12-012</u></p> <p>The basic targets mentioned in the Project Agreement have been achieved. The contract services provided under the project were terminated on December 31, 1958. The scope of aid envisaged in the future is furnishing some technical supervisory personnel as well as a small amount of participant training in the USA. The GOI has decided to make the Exploratory Tubewell Organization a permanent body and continue operations where and when requested by the various states.</p>						
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				COUNTRY ECONOMIC PROGRAM	Water & Power Development		

iii. Training Construction Equipment Operators & Mechanics
386-25-019

The two schools have been running for almost three years. Two contract instructors were initially assigned to each school for a year. After a gap of a year another set of instructors was furnished for a year (1958-59) and it is proposed to continue another year to assure the schools will be self-sustaining by 1961.

iv. Rihand Valley Development - 386-25-020

The construction is progressing satisfactorily and the project is scheduled for completion in 1961.

v. Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035

The project was originally started in 1954 for a period of 3 years. However, the utilization rate of services has been slow and of the original allotment of \$ 100,000 only \$ 60,000 was spent upto the end of FY 59. This project is being phased out in FY-60 and from FY-61 such services will be provided under the sub-project 386-25-059 under this consolidated project.

vi. Electrical Distribution System Maintenance Training Centers - 386-22-045

The two schools have been running satisfactorily for over two years. The present contract is due to expire on November 23, 1959. It is proposed to continue such services for another period of two years to assure the schools will be self-sustaining after this period and also to assist the

electricity departments of 12 Indian states to initiate hot-line maintenance on their power distribution systems.

vii. Technical Services in Water Resources & Power Development - 386-25-059

The assistance to the Central Water & Power Commission has been well utilized and is reflected in the improved technical caliber of the organization.

viii. Delhi Thermal Plant - 386-22-116

The engineering designs for the power house have been completed. The specifications have been prepared and invitations to bid issued with bid opening scheduled for December 1959. Actual construction has not yet started.

ix. Sharavathy Hydel Project - 386-22-166

Construction work is well underway.

4. Nature of U.S. Contribution

a. Previous Fiscal Years

The nine sub-projects consolidated in this project were initiated in different years in the past, some of them as early as FY-52. Because of the different elements involved the U.S. contribution included many types of funds both in dollars and local currency. The type of funds provided were Technical Cooperation, Development Assistance, Section 402 and PL 480. The nature and extent of U. S. contribution under the various sub-projects are as follows:

i. River Valley Development - 386-25-011

During the period ending June 30, 1959 approximately \$ 7,200,000 of DA funds were provided for procurement from abroad of heavy construction equipment for nine river valley projects described in first paragraph of item a. under the title 'General Description of the Project'. In addition, during FY 1956 and 1957 TC funds in the amount of \$ 690,000 were provided for the purchase of two walking draglines and spares (first of their kind in India) to be used on Chambal Project (Rajasthan) for demonstrating the use of such draglines for large earthmoving jobs. Another \$ 70,000 of TC funds were provided for a contract to furnish two operators and one mechanic to operate these machines and also train Indian personnel in their operation and maintenance.

In FY-59 U.S. owned PL 480 local currency funds in the dollar equivalent of \$178,707,000 (Rs. 851,000,000), were provided to pay the rupee costs for the period April 59 to March 61 of the 12 river valley projects listed in the second paragraph of item a. under the title 'General Description of the Project'.

ii. Groundwater Exploration - 386-12-012

Since the inception of the project approximately \$ 2,820,000 worth of equipment has been furnished under this project. A further \$ 1,163,000 was provided for a contract for technical supervisory and drilling services to assist GOI in its groundwater exploration program. The contractor provided 16 technicians who furnished a total of about 40 man-years

of service. In addition, two U.S. direct hire technicians for two years each and training facilities to four Indian participants were provided under the project. The total U.S. contribution thru FY-59 amounted to \$4,097,000.

iii. Training Construction Equipment Operators & Mechanics - 386-25-019

During the period ending June 30, 1959 equipment worth \$425,000 was furnished to the project. In addition, funds were provided for the contract services of 4 technicians for one year each to run the two schools. The total U.S. contribution thru FY-59 amounted to \$ 646,000.

iv. Rihand Valley Development - 386-25-020

Equipment worth over \$5,917,000 was provided to the project thru June 30, 1959. Another Rs. 70,000,000 of Sec. 402 funds and Rs. 88,300,000 of PL 480 funds were provided to the project during the same period. In addition, two U.S. technicians served at the project for 4 man-years. The total U.S. contribution thru FY-59 was \$ 6,024,000.

v. Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035

The U.S. contribution to the project has been in the form of funding of an agreement for \$ 100,000 between the GOI and the U.S. Bureau of Reclamation for furnishing technical advice and literature by the U.S. Bureau of Reclamation to the Central Water and Power Commission.

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				COUNTRY ECONOMIC PROGRAM			

vi. Electrical Distribution System Maintenance Training Centers - 386-22-045

Thru FY 59 approximately \$ 197,000 were provided for 8 sets of 'hot-line' tools for the two schools and 12 sets for the electricity departments of 12 Indian States. In addition, funds were provided for contract services of two technicians for two years each to run the two hot-line training centers. The total U.S. contribution thru FY 59 amounted to \$ 455,000.

vii. Technical Services in Water Resources & Power Development - 386-25-059

The U.S. contribution to this project has been in the form of provision of services of U. S. technicians and consultants, training facilities to Indian engineers in the U. S. , technical books, manuals and films and machinery for a small printing press. As of June 30, 1959 U.S. contribution amounted to \$ 811,000.

viii. Delhi Thermal Plant - 386-22-116

In FY-57 \$4,000,000 of Development Assistance funds were provided to the Project for the construction of one 30 MW thermal power station in Delhi. \$ 400,000 are for contract services and \$ 3,600,000 are for equipment.

ix. Sharavathy Hydrel Project - 386-22-166

In FY-59 Rs. 66,900,000 of PL 480 funds were furnished to the project to meet the construction

costs for the period April 1, 1959 to March 30, 1961.

b. Operational Year

i. River Valley Development - 386-25-011

No FY-60 funds will be provided to the project.

ii. Groundwater Exploration - 386-12-012

No FY-60 funds will be provided to the project.

iii. Training Construction Equipment Operators & Mechanics- 386-25-019

Contract Services

Extension of present contract with Ralph M. Parsons Company to provide the services of four on-board contract technicians for a further period of one year. \$ 120,000

iv. Rihand Valley Development - 386-25-020

Phase out costing for one technician \$ 5,000

v. Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035

No FY-60 U.S. funds will be provided to the project.

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<p>vi. <u>Electrical Distribution Systems Maintenance Training Centers - 386-22-045</u></p> <p><u>Contract Services</u></p> <p>Extension of present contract with L.E. Myers Company for the services of two contract technicians for a further period of two years each. \$ 155,000</p> <p>vii. <u>Technical Services in Water Resources & Power Development - 386-25-059</u></p> <p><u>Technicians</u></p> <p>1. Hydraulic Engineer (Designs) - IND-296-T Grade FSR-4. ETA Dec. 1959 \$ 16,200</p> <p>2. Power System Engineer - FSR-1, ETA June 1960. \$ 8,000</p> <p>3. Flood Hydrology Consultant - Dave Rockwood ETD Dec. 1959. Three months assignment. \$ 6,585</p> <p>4. Foundation Grouting Consultant (4 months) \$ 8,000</p> <p>5. Three Consultants to advise and assist the CWFC in resolving various problems of river valley development - period 3 to 4 months @ approx. \$ 8,000 \$ 24,000</p> <p><u>Contract Services</u></p> <p>1. Extension of present contract with Parsons Company to provide the \$ 10,000</p>	<p>services of Heavy Equipment Advisor to the CW&PC for an addition period of one year.</p> <p>2. A contract with an Architect-Engineer firm for an investigation and report on selected areas in Rajasthan, Saurashtra and Kutch as to the feasibility and possibility of transforming saline waters into waters satisfactory for irrigation and colonization. \$ 10,000</p> <hr/> <p>\$ 20,000</p> <p><u>Participants</u></p> <p>20 participants in the various fields of water and power for approximately one year each in the U.S. \$ 104,000</p> <p>Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$ 36,000 (in rupees)</p> <p><u>Commodities</u></p> <p>Radio gauge equipment, technical books etc. \$ 10,000</p> <p>Total U.S. contribution for this sub project during FY-60 \$ 196,785</p> <p>viii. <u>Delhi Thermal Plant - 386-22-116</u></p> <p>No FY-60 U.S. funds will be provided to the project.</p>
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ix. Sharavathy Hydel Project - 386-22-166

No FY-60 U.S. funds will be provided to the project.

c. Budget Year

i. River Valley Development - 386-25-011

Technicians

Two Construction Engineers for two years each. FSR-1. One year costing plus one way travel @ \$ 30,000 each. \$ 60,000

One Equipment Specialist for two years -FSR-1 One year costing plus one way travel. \$ 30,000

Two Consultants to advise GOI on river valley problems, as required, for 3 months each @ \$ 8,000 \$ 16,000

\$ 106,000

Participants

4 Participants in the field of river valley development for one year each \$ 20,800

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$7,400(in rupees)

Total U.S. contribution in FY-61 under this project. \$ 126,800

ii. Groundwater Exploration - 386-12-012

Technicians

One Well Drilling Advisor(Roving Drilling Superintendent)for two years - FSR-1. ETA January 1961 plus one way travel. \$ 18,000

One Groundwater Hydrologist for two years. FSR-2. ETA Dec. 1960 plus one way travel. \$ 18,000

\$ 36,000

Participants

Two participants in groundwater exploration for one year each. \$ 10,400

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$3,700(in rupees)

Commodities

Spare parts for drilling equipment \$ 2,000

Total U.S. contribution to this project for FY-61 \$ 48,400

iii. Training Construction Equipment Operators & Mechanics 386-25-019

Contract Services

Four contract technicians funded in FY 60 will continue to provide their services.

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iv. Rihand Valley Development - 386-25-020

No FY-61 U.S. funds will be provided to the project.

v. Provision of Technical & Engineering Advisory Services to the Central Water & Power Commission - 386-25-035

This project is to be phased out in FY-60. From FY 61 \$ 20,000 will be provided under sub project 386-25-059 for an agreement with USBR to provide such services which had hitherto been provided under 386-25-035.

vi. Electrical Distribution Systems Maintenance Training Centers - 386-22-045

Contract Services

Two contract technicians funded in FY 60 will continue to provide their services.

Participants

Two participants in hot line practices for one year each in the U.S. \$ 10,400

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$3,700(in rupees)

Commodities

'Hot Line' Washing Equipment and spare parts for 'hot line' tools \$ 10,000

Total U.S. contribution for this project in FY 61. \$ 20,400

vii. Technical Services in Water Resources & Power Development - 386-25-059

Technicians

One Hydraulic Engineer(Designs)- IND-296-T carried over from FY-60. ETD Dec. 1960. Cost plus return travel. \$ 18,000

Power System Engineer - carried over from FY-60. One year costing plus return travel. \$ 30,000

Manuals Engineer for two years. FSR-1. One year costing plus one way travel. \$ 30,000

Five consultants to advise CW&PC on specific water and power problems as they arise for periods 3-4 months each @ \$ 8,000 \$ 40,000

\$ 118,000

Other Costs

Agreement with the U.S. Bureau of Reclamation to provide technical engineering and advisory services to the Central Water & Power Commission. \$ 20,000

Participants

10 participants in the field of water and power development for one year each. \$ 52,000

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$18,500(in rupees)

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Contract Services

1. Heavy Plant Equipment and Layout Advisor - (Koken) carried over from FY 60. No costing.
2. Thin Arch Dams Design Engineer. Third Country technician. Carried over from FY 60. No costing.

Total U.S. contribution in FY-61 under this project. \$ 190,000

viii. Delhi Thermal Plant - 386-22-116

Participants

2 Participants in the operation and maintenance of thermal plants - 12 months each @ \$ 5,200 \$ 10,400

Sec. 402 funds in local currency to pay the cost of international travel for the participants \$3,700(in rupees)

ix. Sharavathv Hydrel Project - 386-22-166

No FY-61 U.S. funds will be provided to the project.

d. Future Fiscal Years

No further U.S. assistance is contemplated for sub-projects 019, 020, 035, 045, 116 and 166. Sub-projects 011, 012 and 059 are expected to carry thru FY 62 to complete the activities started in previous years. The magnitude of assistance in these projects is expected to remain constant at the level of FY-61. Assistance beyond FY-62 will depend upon the availability of funds and other factors existing at that time.

5. Nature of Cooperating Country Contribution

Government of India will provide:

- a. In respect of technicians, suitable office space, office equipment, furnishing and supplies, stenographic, secretarial assistants as required and pay the cost of official communications. GOI will also provide contribution to a TCM maintained rupee trust fund for the period of technicians' stay in India to cover local travel costs including fueling and servicing of vehicles of U.S. technicians as per agreement between the two Governments dated May 9, 1956 and as amended.
- b. In respect of participants, GOI will pay travelling expenses from the post of duty to New Delhi and back, expenses connected with their predeparture formalities and salaries of participants during the period of their stay abroad.
- c. In respect of commodities, GOI will pay all costs of inland handling including transportation charges from port of landing to the project site.

6. Contribution from Other Sources and Relationship to Other Projects

a. Other Sources

Some of the sub projects included herein have received considerable financial assistance from other sources like DLF and World Bank. In addition U.N. and

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Colombo Plan countries have also provided training facilities to a few Indian engineers in the field of water and power. The assistance given under this project, however, has not duplicated or overlapped the assistance provided by other sources. All the sources of assistance are complimentary to each other and the necessary coordination between the various assistance provided by various agencies is maintained by the Government of India.

It is understood that the financial contribution proposed under this project for FY-1961 by the TCM and GOI is contingent upon the availability of U.S. and GOI funds and such other factors as may arise.

7. Financial Considerations

According to present plans the U.S. assistance to the project will carry thru FY-62.

The GOI contributions in respect of technicians participants and commodities are governed under an agreement between the USA and GOI as mentioned under item 5 of the narrative of this E-1 and are, therefore, firm. Other GOI expenditure on permanent civil construction like in 386-22-116 - Delhi Thermal Plant and provision of such facilities as anticipated in the sub projects O19 and O45 for running the schools have the required sanction of the Ministry of Finance and will be met from the regular GOI budget.

8. Cooperating Country-USOM Coordination

The plans embodied in this E-1 and extended in the project have been jointly prepared by the GOI, Ministry of Irrigation and Power and Industry Division of TCM. There is an active liaison at the working level and all requests are informally approved before final submission.

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	COUNTRY ECONOMIC PROGRAM				Mineral Development		

1	PROJECT BEGINS FY 61 ENDS FY 66	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Con- tract	Con- tract	Non- Contract U.S.	3rd Country
A.	All Prior Years																		
B.	Net Deob.-Reob. Current Funds																		
	Total Actual Year FY																		
C.	Operational Year FY																		
D.	Budget Year FY 61	TC	297	224	73				26				26			4	14		
E.	All Subsequent Years	TC	766									100							
F.	Total All Years	TC	1,063									126							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY				
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/	
	All Prior Years																
	Actual Year FY																
	Operational Year FY																
	TOTAL																

Problems Addressed:

PROBLEM II - Need to increase and improve the supply of trained manpower to industry at all levels.

PROBLEM IV - Need for development and improved utilization of natural resources.

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				COUNTRY ECONOMIC PROGRAM		Mineral Development	

(1) General Description of the Project:

The present project represents the combination of the following four sub-projects:

- (i) Project 386-21-128, Geological Survey of India
- (ii) Project 386-21-132, Oil & Gas Commission
- (iii) Project 386-23-137, Assistance to Lime Industry, and
- (iv) Project 386-21-148, Assistance to Coal Industry

It provides assistance to (i) the Geological Survey of India (ii) the Oil & Gas Commission, (iii) the National Buildings Organization and (iv) the Ministry of Steel Mines & Fuel and the National Coal Development Corporation.

(i) Sub-project: Geological Survey of India

This sub-project provides for technical assistance to the Geological Survey of India, a 100-year old institution of the Central Government whose principal functions are:

- (i) Preparation of a geological map of India;
- (ii) Survey and exploration of mineral deposits by special means such as geophysics, mining and drilling, carrying out chemical and petrographical determinations of mineral ores, appraisal of mineral resources; and
- (iii) Providing geological and technical support to GCI groundwater projects.

The significance of these operations in the developing economy of the nation is quite obvious keeping in view the growing needs of the country for more mineral raw materials and irrigation facilities.

Great emphasis has been placed on industrial development during the Second Five Year Plan. A large increase in the production of minerals has been contemplated during the Second Plan. The figures in respect of some important minerals are:

Minerals	Output in 1954 (million tons)	Contemplated Output in 1961 (million tons)
Coal	36.77	59.77
Iron Ore	4.31	12.5
Manganese Ore	1.41	2.0
Limestone	Not available	23.3
Gypsum	0.61	1.9
Bauxite	.075	.175

Though progress has been made in the survey of mineralized areas and the principal mineral regions have been ascertained, in the context of industrial development envisaged in the coming years, surveys and investigation of mineral resources have to be pressed forward more intensively than ever.

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A large increase in the production of coal which is to come mainly from virgin areas calls for immediate attention to detailed prospecting of selected coal fields. Likewise, increasing requirements of the basic industries like iron and steel necessitate detailed investigation of deposits of raw materials such as iron ore, manganese ore, limestone and refractory materials.

Assistance to the GSI includes the following aspects:

- (i) Advisory services by the U.S. technicians assigned to GSI.
- (ii) Technical back-up and administrative support to the U.S. Geologists assigned to GSI by the U.S. Geological Survey.
- (iii) Training facilities for Indians in the U.S.
- (iv) Equipment for use by the GSI to conduct on-the-spot training programs with the advice and assistance of the U.S. technicians.
- (i) Sub-project: Oil & Gas Commission

This sub-project provides for technical assistance to the Oil and Natural Gas Commission, Ministry of Steel, Mines and Fuel. The ONGC was established by the GOI in 1956 to conduct surveys prospecting, drilling and exploration for oil and natural gas as well as coordinate and regulate the activities of private operators. This project is of vital significance

to India in meeting the demands of a growing economy as the country's present production of mineral oils falls far short of its present consumption rate. India is required to spend approximately \$ 136 million each year on the import of petroleum and petroleum products.

Assistance to the ONGC includes the following aspects:

- (i) Advisory services by U.S. consultants assigned to ONGC.
- (ii) Participant training in the U.S. for ONGC personnel.

The fields of activity for both technicians and participants include prospecting and exploration for oil and gas and development of oil and gas fields.

- (iii) Sub-project: Assistance to Lime Industry

This sub-project was started in FY 1958 and is expected to phase out in FY 1960. The objective of this activity has been to provide technical assistance to the National Buildings Organization (NBO), Ministry of Works, Housing and Supply, in the development of lime industry with the view to increasing production and use of lime as a substitute for cement. The NBO is trying to develop the Indian lime industry. An extended use of lime as a building material could alleviate pressure on cement. The NBO has already made a preliminary survey and this Survey Report will form the basis for further work through Mission assistance.

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(iv) Sub-project: Assistance to Coal Industry

This sub-project was started in FY 1958. The objective is to help the GCI to increase its coal production by the utilization of improved and modern coal mining practices.

The industrialization under the Second Five Year Plan requires the expansion of coal mining capacity in India. U.S. assistance will help in disseminating modern coal mining and processing techniques thru training provided to Indian technicians.

(2) Specific Activity Targets or End Results of the Project:

- (i) More extensive surveys of mineral areas in India.
- (ii) Orderly and scientific analysis of India's mineral deposits to assess their economic value.
- (iii) The discovery and exploitation of India's natural resources.
- (iv) To assist in the discovery and development of indigenous oil and gas resources in India.
- (v) To provide the recommended basis for the development of lime as cement substitute for building purposes in India.
- (vi) Training of Indian technicians in the industrial know-how of modern coal mining practices, and
- (vii) Increased production and efficient operation of coal mines in India.

(3) Progress Toward Achievement of Activity Targets:

(a) Work Accomplished to Date:

(i) Sub-project: Geological Survey of India

A report on activities under this project which was initiated in FY 58 must necessarily include assistance to GSI which began in 1952 through projects Q12, Groundwater Exploration, Q48, Mineral Survey and Development and Q26, Industrial Research which projects are now terminated. Accomplishments under these projects include:

- (i) Training programs in the U.S. were provided for 26 Indian geologists during the period ending June 30, 1957, in the various specialized aspects of geology such as groundwater, engineering, mineral and economic geology.
- (ii) The U.S. Geologists assigned to the GSI under projects Q48 and Q12 assisted it in carrying on studies in groundwater geology and mineral geology.
- (iii) Survey and laboratory equipment worth about \$127,000 was provided to GSI in FY 54 through PPA Q26 - Industrial Research. GSI was also provided laboratory equipment worth about \$66,000 through project 86-12-Q12 - Groundwater Exploration.

Under the project initiated in FY 1958, the following progress has been made:

- (i) Seminars were conducted for four months in 1957 by a Structural Geology Consultant.

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<p>(ii) An Economic Geologist, a Minerals Investigation Geologist, and a Sedimentary Basins Geologist, each on loan from the U.S. Geological Survey for a period of two years, will shortly complete their assignments with the GSI, while a Structural Geologist (Himalayan Tectonics) has completed one full working season on location. Each geologist has been engaged in the solution of problems in the Geological Survey of India peculiar to his specific field. Their activities have included the holding of seminars and teaching effective techniques and procedures both in the office and field by on-the-job methods, as well as advising and consulting with GSI staff on day-to-day problems.</p> <p>(iii) Four participants have received training in geology in the U.S. and have returned to GSI. Three participants from GSI are now on training programs in the United States.</p> <p>(ii) Sub-project: <u>Oil & Gas Commission</u></p> <p>The ONGC is pursuing an intensive program of prospecting and exploration for oil and gas. Although deep exploratory holes have been put down at Hoshiarpur, Jawalamukhi, and Cambay, no new fields have been proven. U.S. assistance to the ONGC in their prospecting and drilling program has been relatively slight to date consisting of the short-term services of two U.S. consultants - (one under Project 048 - Minerals Survey & Development now terminated), completion of training in the U.S. of four participants, and two participants currently undergoing training in the U.S.</p> <p>(iii) Sub-project: <u>Assistance to Lime Industry</u></p> <p>The NBO has made a survey which will form the basis of further work by the U.S. contract technician. Activity under this project has not yet commenced.</p> <p>(iv) Sub-project: <u>Assistance to Coal Industry</u></p> <p>Training has been provided to three participants in various aspects of coal mining during FY 1958.</p> <p>During FY 1959 four participants will receive training in coal mining technology and are shortly due to proceed abroad.</p> <p>(b) <u>Work Remaining to be Done:</u></p> <p>(i) Sub-project: <u>Geological Survey of India</u></p> <p>(i) The work of Structural Geologist (Himalayan Tectonics) will continue through another full working season while the Minerals Investigation Geologist will return after home leave to continue his work for one additional year.</p> <p>(ii) Four participants approved in FY 1959 are still awaiting programs in the U.S. Participant training is anticipated thru FY 62. At that time the project will be re-examined in the light of the situation then existing.</p> <p>(iii) Diamond drilling equipment obligated for procurement in FY 58 arrived in India September 1959. The three diamond drills will be used to begin</p>							
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pilot projects for training Indian geologists in the use of modern drilling equipment as a geologic investigation tool.

(ii) Sub-project: Oil & Gas Commission

Oil & gas exploration will continue in India for many years to come with progressive intensification, no doubt, until a major strike is made or all promising regions are extensively explored.

(iii) Sub-project: Assistance to Lime Industry

The survey and recommendations by the U.S. Contract technician for the development and expansion of the Indian lime industry remain to be accomplished. Training will also be provided to one participant.

(iv) Sub-project: Assistance to Coal Industry

In order to upgrade and modernize coal mining practices in India the services of U.S. technicians will be provided to the GOI.

Training will also be provided to selected Indian participants in this field.

(c) Progress Toward Achievement of Project Targets:

(i) Sub-project: Geological Survey of India

The impact that U.S. assistance has made on a 100-year old organization staffed by hundreds of geologists is diffi-

cult to assess. The assistance has been of an advisory and training nature which is calculated to increase the efficiency of GSI activities by the introduction and dissemination of modern techniques and methods to the end that the targets set forth in Paragraph 2 will be accomplished more readily.

(ii) Sub-project: Oil & Gas Commission

To date no significant oil or gas find has been made by the Oil & Natural Gas Commission. Prospecting and exploratory drilling are continuing both by the ONGC and the Standard Vacuum Oil Company (in West Bengal). The only proven petroleum reserves in India are located in the state of Assam where there is a small producing field that provides only about 5% of the country's demand.

(iii) Sub-project: Assistance to Lime Industry

Activity under this project has not yet commenced.

(iv) Sub-project: Assistance to Coal Industry

Technical know-how has been imparted to Indian technicians through training provided in the field of coal mining in the U.S. The returned participants are now engaged in the task of adapting, introducing and disseminating locally the skills acquired by them during their training abroad.

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4. Nature of the U.S. Contribution

a. Previous Fiscal Years

(i) (Project 386-21-128) Geological Survey of India

In FY 1958 and 1959, the U.S. contributed \$ 416,000 of which \$ 141,000 were for drilling and allied equipment and the remaining funds were for services of four long-term technicians, one consultant and training facilities for 11 participants.

(ii) (Project 386-21-132) Oil & Gas Commission

In FY 1958 and 1959 U.S. contributed \$ 45,000 in terms of services of a Petroleum Geology Consultant for one month and training facilities for seven participants.

(iii) (Project 386-23-137) Assistance to Lime Industry

There has been no physical achievement under this project in previous fiscal years. The services of a contract Lime Technician have been PIO'd but the technician has not entered on duty in India.

(iv) (Project 386-21-148) Assistance to Coal Industry

U.S. assistance has been responsible for the training in coal mining technology provided to three participants in FY 1958. Another four participants will be trained during FY 1959.

b. Operational Year

(i) (Project 386-21-128) Geological Survey of India

Technicians

- | | |
|---|----------|
| 1. Geologist, Minerals(Albers), ICA-4,
IND-122-T, ETD - Dec. 1959 | \$14,000 |
| 2. Geologist, Minerals(Blade), ICA-6,
IND-123-T, ETD. October, 1959.
Home leave and return. | \$19,000 |
| 3. Geologist, Minerals(Richards), ICA-5
IND-197-T, ETD. April, 1960 | \$17,700 |
| 4. Geologist, Minerals(Seitz), ICA-6
IND-198-T, ETD. August, 1960. | \$11,800 |
| Administrative & Technical Support | \$30,000 |

Total \$ 92,500

(ii) (Project 386-21-132) Oil & Gas Commission

Participants

5 Participants for 12 months each in U.S. \$ 26,000 in exploration, development and production operation.

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$9,250(in rupees)

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(iii) (Project 386-23-137) Assistance to Lime Industry

It is expected that the Lime Engineering Consultant will arrive in India during early CY 1960. FY 1958 funds in the amount of \$ 13,450 have been subobligated and are available. The contract technician will make a survey and recommendations for the development and expansion of lime as a substitute building material for cement in India.

Training will be provided for 1 participant at a cost of \$5,000. Sec. 402 rupees totalling \$ 2,000 will be used to cover participant travel costs.

(iv) (Project 386-21-148) Assistance to Coal Industry

In FY 60 a team of five operating coal mine executives will come to India to assist the Ministry of Steel, Mines & Fuel, the National Coal Development Corporation and private coal mining organizations in reviewing plans for expansion of coal production to double the present coal output by the end of the Third Five Year Plan in 1966. They will assist in investigating and developing new sites, determining the adequacy of equipment needed to increase production and also in developing programs for training of workers at all levels and skills.

Following is the suggested composition of the team:

1. Senior Executive - (Coal Mine Planning, Developing Operations Property, Equipment etc.)
2. Senior Executive - (Equipment, maintenance, safety, coal cleaning equipment, Tipplers, Ventilation, skips).

3. Senior Executive - (Equipment costs, overburden Removal, Strip Mining Operations Economical Height Ratio of Overburden to seam thickness)

4. Senior Executive - (Face Drills, Loaders, Long and short wall catchers, chain and belt conveyors, shuttle cars etc.)

5. Senior Executive - (Development of Training Programs, Training & Maintenance Supervising, Safety Engineering, nance Supervisors Mining Equipment & Maintenance etc.)

Cost: \$ 42,000

In addition, training will be provided to two participants in the U. S. in selected aspects of Coal Mining.

Cost: \$7,000. Local currency cost equivalent of \$ 4,000.

Total FY 1960 Cost: \$ 49,000

Sec.402 funds for above - \$ 4,000

c. Budget Year

(i) Sub-project - Geological Survey of India

Technicians

3 Mineral Geologists for two years each.
One year costing plus one-way travel
@ \$ 30,000 each 90,000

2 Consultants for 3 months each as
required in resource exploration
and development problems 16,000
\$ 106,000

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Participants

4 Participants in various aspects of geology for periods varying between 6-12 months @ \$ 5,200 \$ 20,800

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$7,400(in rupees)

Total FY-61 costs \$126,800

(ii) Sub-project - Oil & Gas Commission

Technicians

One Drilling Superintendent 2 years - FSR-1. One year costing plus one way travel. 30,000

One Seismologist - 2 years-FSR-1 One year costing plus one way travel 30,000

2 Consultants for 3 months each @ \$ 8,000 16,000 \$ 76,000

Participants

10 participants for 12 months each. \$ 52,000

Sec. 402 funds in local currency to pay the cost of international travel for the participants. \$18,500(in rupees)

Total FY 61 costs \$ 128,000

(iii) Sub-project - Assistance to Lime Industry

The project is being phased out in FY 60.

(iv) Sub-project - Assistance to Coal Industry

U. S. Consultants- \$ 42,000

The coal survey team funded in FY 60 was originally intended to be funded in FY 61. It is believed that these FY 61 ~~monetary~~ funds may be utilized in initial efforts to carry out the recommendations of the team.

d. Future Fiscal Years

(i) Sub-project - Geological Survey of India

In FY 62 it is expected that the services of 3 technicians will be provided to the GSI \$ 90,000

Two Consultants will be utilized 16,000

Training will be provided to an additional 4 participants 20,000

Sec. 402 rupees to pay for participant travel costs \$ 7,400

\$ 126,000

No assistance is contemplated beyond FY 1962.

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<p>(ii) <u>Sub-project - Oil & Gas Commission</u></p> <p><u>FY 62 thru FY 66</u> - It is expected that the services of technicians and consultants will be provided in the amount of \$76,000 per year - Total Cost - \$ 380,000</p> <p>Ten participants will be sent to the U.S. for training each of the next 5 years at a cost of \$ 52,000 per year - 260,000</p> <p>Total cost for next 5 years - 640,000</p> <p>Sec. 402 rupees will be used to cover the cost of participant travel-\$ 18,500 per year 92,500</p>				<p>office equipment, furnishing and supplies, stenographic, secretarial, translation and interpreting services and technical assistants as required and pay the cost of official communications. GOI will also provide contribution to a TCM maintained rupee trust fund for the period of technicians' stay in India to cover the local travel costs including fueling and servicing of vehicles of U.S. technicians as per agreement between the two Governments dated May 9, 1956 and as amended.</p> <p>b. In respect of participants, GOI will pay travelling expenses from the post of duty to New Delhi and back, expenses connected with their predeparture formalities and salaries of participants during the period of their stay abroad.</p> <p>c. In respect of commodities, GOI will pay all costs of inland handling including transportation charges from port of landing to the project site.</p>			
<p>(iii) <u>Sub-project - Assistance to Lime Industry</u></p> <p>No future assistance contemplated.</p>				<p>(iii) <u>Sub-project - Assistance to Lime Industry</u></p> <p>It is estimated that India will need nearly 6.9 million urban houses by 1961. The present target of construction is only 1.9 million houses. In order to accelerate the program for housing construction the GOI established the National Building Organization in 1954. The NBO has a comprehensive program of research thru the various laboratories under the CSIR to serve as a clearing house for information concerning: technology of building designs, materials and construction practices, development of indigenous building materials such as improvement of bricks, manufacture of boards, tiles, use of seasoned timbers and bamboos etc. The development of lime as a cement substitute is being undertaken. The latter is in short supply. The GOI is also trying to evolve master plans</p>			
<p>(iv) <u>Sub-project - Assistance to Coal Industry</u></p> <p>It is believed that GOI will request additional TC assistance based upon the recommendations of the coal survey team funded in FY 60.</p>							
<p>5. <u>Nature of Cooperating Country Contribution</u></p> <p>(1) <u>Sub-project - Geological Survey of India and</u></p> <p>(ii) <u>Sub-project - Oil & Gas Commission</u></p> <p>The Government of India will provide:</p> <p>a. In respect of technicians, suitable office space,</p>							
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for the integration of land use and zoning principles in the larger towns. Simultaneously, the training masons, brick-layers, carpenters and other artisans connected with housing construction is being undertaken.

(iv) Sub-project - Assistance to Coal Industry

The National Coal Development Corporation (Private) Ltd., was set up by the GOI for raising the output of coal in India. The NCDC succeeded in raising 700,000 tons more coal from the existing 11 state collieries. The NCDC is attempting to raise the production of coal through the adaptation and introduction of modern coal mining techniques.

6. Contribution from Other Sources and Relationship to the Other Projects

(a) Other Sources

(i) Sub-project - Geological Survey of India

Assistance to GSI is also being provided by U.N. and Colombo Plan countries in the form of training facilities to GSI scientists. TCM assistance is in no way being overlapped or duplicated.

(ii) Sub-project - Oil & Gas Commission

The O&G is also being assisted by many foreign countries in its operations. Canada provided assistance in the form of a team of experts which conducted an aerial survey of Indo-Gangetic Plains. USSR and Rumania have provided O&G with drilling equipment as well as technicians to conduct

drilling operations. In addition agreements have recently been signed by the latter two countries with GOI to provide assistance in the form of credit for two oil refineries.

(iii) Sub-project - Assistance to Lime Industry

Under the Technical Cooperation Scheme of the Colombo Plan the U.K. has delivered equipment worth £ 8,710 to the CBRI. This equipment is being used for the development of indigenous building material.

(iv) Sub-project - Assistance to Coal Industry

The USSR offered an aggregate loan of Rs. 600 million (equivalent of U.S. \$ 126 million) from CY 1959 onwards. Part of this loan is earmarked for the development of Korba Coalfields.

b. Relationship to Other Projects

(i) Sub-project - Geological Survey of India

This project is connected with project 386-12-012 - Groundwater Exploration (now part of project 386-25-173 - Water and Power Development) as GSI is responsible for the geological aspects of the groundwater exploratory program.

(ii) Sub-project - Oil & Gas Commission

O&G was formerly assisted through 86-21-048 - "Minerals Survey & Development" which on FY 56 PPA included the services of one consultant (Leverson) for the Oil & Gas Commission.

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(iii) Sub-project - Assistance to Lime Industry

This project carries further the work under project O13 in a modified form by providing the consultant services of a Lime Engineering Consultant to make a survey and recommendations for the improved working of Indian lime industry.

(iv) Sub-project - Assistance to Coal Industry

This project closely supplements other Mission projects for the development of basic Indian industries such as Production of Steel (386-28-163-Steel Training) and Development of Mineral Resources, 386-21-132 Oil & Gas Commission, 386-28-016-Lignite Excavation and Development.

7. Financial Considerations

(i) Sub-project - Geological Survey of India

The U.S. contribution has played a vital role in introducing GSI to the latest geologic trends in the world. The GOI contribution listed against earlier items is part of the regular GSI budget. The special projects which have been undertaken by the GSI with the assistance of U.S. technicians form part of GSI program under the country's Second Five Year Plan and there is a firm guarantee that all necessary funds will be forthcoming.

The pipeline shown in Block 2C on the E-1 front sheet is due to the usual time lag between subobligation of funds and their expenditure. Such a pipeline is normal and is expected to liquidate in due course.

(ii) Sub-project - Oil & Gas Commission

The U.S. contribution to the Oil & Natural Gas Commission is confined to participant training and provision of U.S. technicians only. This endeavor provides only a minor portion of the total assistance provided O&NGC by foreign countries. Any curtailment in this assistance will deprive U.S. of participation in one of India's important fields of economic development.

The pipeline shown in 2C on the E-1 front sheet is due to the usual time lag between subobligation of funds and their expenditure. Such a pipeline is quite normal and is expected to liquidate in due course.

(iii) Sub-project - Assistance to Lime Industry

Funds in the amount of \$13,450 for the Lime Engineering Consultant were PIO'd in FY 1958 but could not be used due to late start of the project. An additional U.S. contribution of \$ 5,000 in FY 1960 terminates the U.S. assistance under this project. It is assumed that the present pipeline of the project will be liquidated in FY 1961.

(iv) Sub-project - Assistance to Coal Industry

No difficulty is anticipated in regard to the liquidation of participant pipeline funds from previous years. The participants have been proceeding for their training abroad on schedule.

The development of coal mining has a high priority in the Second Plan. Supporting GOI funds will be made available, as arranged.

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8. Cooperating Country-USOM Coordination

(i) Sub-project - Geological Survey of India

The plans embodied in this E-1 and extended in the project have been jointly prepared by the GOI Ministry of Steel, Mines & Fuel, Geological Survey of India and the Industry Division of TCM.

(ii) Sub-project - Oil & Gas Commission

The plans embodied in this E-1 and extended in the project have been jointly prepared by the GOI Ministry of Steel, Mines and Fuel, Oil & Natural Gas Commission and the Industry Division of TCM. Although the plans submitted by GOI envisaged a larger program than included in the work plan of this E-1, this had to be curtailed because of budget considerations and the overall financial limitations.

(iii) Sub-project - Assistance to Lime Industry

The NBO has cooperated in the development of the project and is eager to utilize the services of the Lime Engineering Consultant. It is expected that they will continue to extend their cooperation in the future.

(iv) Sub-project - Assistance to Coal Industry

The GOI has furnished the needed support and assistance in the implementation of this project in previous years. It is believed that the required assistance will continue to be provided for the successful conduct of the project.

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(1) General Description of the Project:

The present project represents the combination of the following three projects:

- i) Project 386-29-087, Small Industries Development
- ii) Project 386-27-115, National Productivity Council, and
- iii) Project 386-28-163, Steel Training

A general description of each project follows:

- i) Project 386-29-087, Small Industries Development

This project was started in FY 1956 and is expected to phase out in 1961.

The project is designed to help the GOI in its program for the expansion of small industries which provide for a large portion of industrial employment. It will assist in setting up and operation of training courses in the fields of mechanical engineering, electroplating, sheet-metal working, wood pattern making, management and related fields thru the provision of approximately 18 man-years of U.S. engineering contract services and essential supporting commodities to the pilot Prototype-Cum-Training Center at the industrial estate, Rajkot. The Estate at Rajkot is one of a series of Industrial Estates and Extension Centers now operating in various parts of the country.

In contradistinction to the larger units, small industry units in India suffer from certain inherent disadvantages. Financial limitations prevent small units from hiring consulting Engineers or keeping in contact with latest technological and manufacturing developments. Their business management, especially

marketing techniques, are outmoded and inefficient. The activities of the GOI Industrial Extension Service, of which the Rajkot Estate forms a significant part, are directed towards removing these disadvantages and may be broadly classified as follows:

- a. Demonstration and teaching the use of modern technical processes;
- b. Preparation of model schemes, evolution of designs, drawings and specifications;
- c. Undertaking research and disseminating information on specific manufacturing problems such as proper use of raw materials, development of new tools, work methods and products;
- d. Dissemination of management skills including marketing of products.

- ii) Project 386-27-115, National Productivity Council

The purpose of this project is to assist the Government of India with the establishment of the National Productivity Council (NPC) and the operation by the NPC of an effective action program to promote industrial efficiency improvement.

The National Productivity Council has been established by the Government of India with the goal of stimulating an increased awareness of the possibilities for improved national economic health and higher standards of living through increased productivity. The NPC's activities additionally are designed to generate in industry a practical interest in efficiency improvement and an active desire to take all possible measures to increase industrial output, improve quality and reduce costs

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through methods which involve only nominal expense. The productivity program makes a direct contribution to achievement of the industrial expansion objectives of the Five Year Plans through improved utilization of given resources, thus complementing the capital investment emphasis in India's industrial development effort.

An awareness of the possibilities for efficiency improvement and an active interest in achieving higher productivity can only be effective if detailed information, techniques and skilled personnel are available. NPC's mandate and responsibility includes, therefore, a comprehensive effort to satisfy these practical requirements. This is done through (a) direct training and dissemination of technical information under NPC auspices, (b) through cooperation with other organizations by making available on a temporary basis the personnel and other resources of NPC; and (c) by financial grants-in-aid in support of worth-while training and other activities conducted by outside organizations.

The real success of NPC will depend upon its ability to successfully carry out this dual function as a catalytic and stimulating agency and as a source and sponsor of practical training and know-how in working techniques and methods required to accomplish efficiency improvement in the plants, mines, mills and distribution channels of the Indian economy.

The NPC's main office is in New Delhi and it operates through field offices or Regional Directorates in five principal cities. The NPC has encouraged the establishment of local productivity councils, of which 22 have been officially recognized and many more are in process of organization. These local councils will carry out activities of their own based on local personnel and resources and will also be the liaison bodies for NPC activities in their respective areas.

iii) Project 386-28-163, Steel Training

This project started in FY 1959 and is expected to be completed in FY 1961.

The project involves assistance to the Hindustan Steel Private Ltd. This is a GOI corporation, in the public sector, formed for administration and operation of the 3 new government-owned steel plants at Durgapur, Rourkela and Bhilai.

In the plan for development of engineers and technicians for the operation of these plants the Hindustan Steel Company, using the advisory services of the Tata organization, programmed training for 2000 key engineering and technical posts necessary to staff the organization pattern. The high priority assigned to the construction and completion of these mills makes it necessary to program training completion dates so that technicians would be available to operate their sections of the mill as construction completion schedules were met. Therefore, training program requirements are patterned in accordance with construction completion dates and individuals assigned to various sections are selected and released to meet these schedules.

This project is designed to give assistance to GOI in the training of engineers and technicians for the two mills at Rourkela and Durgapur. Training of the total group will be accomplished on a world-wide basis with the U.S.S.R. training 700 engineers and technicians for the Bhilai mill and the U.S., U.K., Australia, Canada and West Germany training the balance.

Participants assigned for training will be primarily employees of Hindustan Steel (P) Ltd., and GOI assures that upon their return they will work in these mills within the sections towards which their training was directed.

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(2) Specific Activity Targets or End Results of the Project:

The assistance offered in this combined project will result in:

i) Project 386-29-087, Small Industries Development

Strengthening of the organization of the Rajkot Prototype-Cum-Training Center and/or assistance in the discharge of its functions to include the following:

- a. setting up of demonstration and teaching units (in technical skills).
- b. setting up of a unit for preparing model schemes, etc.
- c. establishment of a prototype development unit.

Other Assistance:

- a. provision of excess machine tools for distribution on countrywide basis.
- b. training to Indian technicians engaged in small industry.

ii) Project 386-27-115, National Productivity Council

The anticipated end result of this project is improvement in the efficiency of operation of Indian industry and an increased contribution by industry to the national wealth and general standard of living. Since many factors influence productivity, the contribution of the NPC program cannot be measured statistically. More directly, the objective of NPC is to increase understanding and awareness among the Indian public in general and in Indian industry particularly of the importance of: (a) maximum efficiency in the use of resources; (b) concepts and attitudes which promote this efficiency; and (c) the availability

of techniques and methods for insuring high productivity. An additional NPC objective is to expand the availability of the necessary skills and to increase the number of competent practitioners of the pertinent techniques and methods of industrial Engineering, Scientific Management, Personnel Management, etc. In the interim, progress can only be measured in terms of project activity, such as teams sent abroad, individuals trained, information items distributed etc. A subjective evaluation of the general effectiveness of NPC in this overall connection will be possible only after several years. In these terms, the specific targets of this project are (a) Establishment of the NPC as an effective action-oriented organization operating through the regional offices and 40 local productivity councils in the various industrial centres of India. (b) wide-spread dissemination of the findings and recommendations of individual and group observers and trainees sent abroad for the examination of industrial practices in other countries, including the publication and distribution of the reports of 35 productivity teams. (c) operation of an intensive and integrated technical information service using all media to disseminate technical information and productivity materials to both popular and technical audiences. Examples are 1) to arrange 2500 film screenings per year; 2) to procure and distribute technical publications at the rate of 5000 copies per year; and 3) to service 1200 technical enquiries per year; (d) to make available to Indian business and industry over a four year period approximately 36 man-years of consulting and training service by competent American technicians who will teach Management and Industrial Engineering courses and provide advisory assistance to Indian firms through outside organizations as well as under arrangements made directly by NPC, Regional directorates and local productivity councils.

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iii) Project 386-28-163, Steel Training

Providing in-plant and related training to a minimum of 300 Indian participants to equip them to fill technical positions in the expanding Indian steel industry.

(3) Progress toward Achievement of Activity Targets:

1) Project 386-29-087, Small Industries Development

In terms of the Specific Activity Targets of this project, the following work has been accomplished at the Rajkot Industrial Estate:

Commodities valued at approximately \$ 441,000 required in support of the U.S. Production Engineers have arrived at Rajkot;

A contract in the amount of \$ 450,000 has been signed with a U.S. firm of consulting engineers and implementation of the project has begun. Indian counterparts are being selected and will work with the U.S. technicians;

Other Assistance:

U.S. Excess Machine Tools

In addition to the above, U.S. Excess Machine Tools worth over \$ 2 million have been processed for supply to the GOI Ministry of Commerce & Industry at no cost other than packing, and shipping etc. The shipments are arriving part of procurement has been completed. These machines tools are provided to be distributed to small industrialists on a hire-purchase basis.

One participant sponsored by the State of West Bengal was trained in the U.S. and Germany in Small Industry Vocational Training Techniques at a cost of \$ 10,000.

ii) Project 386-27-115, NFC

The Organization

The NPC was inaugurated in March, 1958. The initial year was devoted to program planning and staff selection and training. The organization is now ready in mid-1959 to effectively pursue its action program and to employ the resources at its disposal in planned pursuit of its objectives.

Participants

The first year's productivity team and trainee program is completely documented and most of the participants have departed. Of 40 one-year trainees, 31 have departed for the U. K. and United States. Five of seven productivity teams have departed and will have returned by the first of November, 1959. Participants for FY 1960 are in process of selection.

Technicians

Three of four staff technicians have arrived and one of them has successfully completed the first training course, a six-week program in Work Study. Washington is negotiating a contract for an 8-man NPC advisory team, 3 one year technicians to be assigned to Ministry of C and I, Development Wing, and a 3-man automobile ancillary advisory team. These technicians should be in India by fourth quarter FY 60.

Technical Information

All of the 1959 commodities will have been PIO/Cd by the end of October. Pending the receipt of the technical library films, projectors, etc., the technical information

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program has limited resources. Distribution of publications has reached the rate of approximately 100 items per month. A few films are on hand and film screenings currently average 100 per month.

Local Productivity Councils

Organization of local productivity councils has been pursued vigorously. The delayed arrival of the 8-man contract advisory team, which limits NPC's ability to supply supporting services to the local councils, has made it necessary temporarily to curtail encouragement for the establishment of further LPCs. Twenty-two have been officially registered to date, and incorporation of several others is pending.

iii) Project 386-28-163, Steel Training

Under the FY 1959 program 100 participants have been processed for training abroad and are scheduled to depart India during the second or third quarter of FY 60.

b. Work Remaining to be Done:

i) Project 386-29-087, Small Industries Development

Contract technicians have to arrive at Rajkot in order to set up training courses (design of prototype machine tools etc.), layout shops and assist in the operation of the Rajkot Center. Training to two Indian technicians from Rajkot Center remains to be provided.

ii) Project 386-27-115, NPC

Participants

Documentation and implementation of the FY 1960 participant

program will be completed during the balance of this fiscal year on schedule. Selection of subjects and team members for the FY 61 program, as well as documentation and implementation of those projects, will be initiated early in 1960. After return of the FY 59 participants to India, the major and very important task of integrating them into the NPC program and operations will be undertaken.

Technical Information

Organization and operation of an effective technical information program depends upon arrival of the required equipment and commodities, which are on order but have not yet arrived. Plans are being made for implementation when the materials are received and the services will become available to Indian industry during the next 6 to 9 months.

- a) Technical films service will be offered after arrival of films and equipment presently on order.
- b) NPC will be extending its catalogue of available technical documents and will advertise their availability more widely.
- c) Arrangements for technical enquiry will be refined and extended and this service also will be widely advertised.
- d) NPC has plans for the initiation of domestic technical information services through the production of productivity films, publication of pamphlets and instruction materials, production of radio programs, etc.

Technicians

One of the four staff technicians remains to be recruited. ICA/W has yet to complete selection of a contractor to provide the 8-man NPC advisory team, the 3 one-year technicians to be

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<p>assigned to C and I, Development Wing, and the 3-man automobile ancillaries advisory team. Large-scale training operations and consultant services depend upon arrival of this team.</p> <p><u>Local Councils</u></p> <p>Further decentralization of the NPC work through organization of additional local productivity councils will be undertaken when arrival of the contract advisory group is assured.</p> <p>iii) <u>Project 386-28-163. Steel Training</u></p> <p>A minimum of two hundred Indian technicians remain to be trained in the U.S. in steel making techniques.</p> <p>b. <u>Progress toward Achievement of Project Targets:</u></p> <p>1) <u>Project 386-29-087 - Small Industries Development</u></p> <p>In terms of the activity targets, the work at the Rajkot Center is in the initial stages. Only one Electroplating technician has been assigned to the Center to date. The excess machine tools have not been distributed. Training was provided to only one Indian participant. However, the Rajkot Center itself was established with the assistance rendered under this project.</p> <p>ii) <u>Project 386-27-115 - National Productivity Council</u></p> <p>The project has already stimulated a considerable increase in the attention being paid to productivity questions in the press and in industrial circles. There is expanding interest in professional management training, Industrial Engineering techniques, modern marketing and distribution methods, etc. NPC has become widely known and its program is followed with</p> <p>interest in industrial circles, from which there is a constant flow of requests for assistance, information, and opportunities to participate in programs, as well as other indications of acceptance of NPC and its services. There is a satisfying response to the courses being offered and the two courses completed to date have been very successful.</p> <p>iii) <u>Project 386-28-163 - Steel Training</u></p> <p>One-third of the participants have been PIO'd, their programs arranged, and they are due to depart for their training soon. The balance of the participants are covered in current and budget year programs and the selection of the second batch is in process.</p> <p>(4) <u>Nature of U.S. Contribution:</u></p> <p>(a) <u>Previous Fiscal Years:</u></p> <p>1) <u>Project 386-29-087 - Small Industries Development</u></p> <p>During the period 1956 thru 1959 commodities were provided and delivered to the Rajkot Industrial Estate. These commodities are in support of the demonstration and training work to be done by the U.S. technicians.</p> <p>Cost \$ 441,000.</p> <p>Excess U.S. Machine tools were also supplied to encourage the growth of small industry units in the country by providing a source of machine tools obtainable under a hire-purchase plan.</p> <p>Training was provided to one participant in the field of small industries.</p> <p>Cost \$ 10,000</p>							
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-29-177	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Industrial Development		

A sum of \$ 301,880 was provided in FY 1956 for provision of 6 U.S. contract technicians to the Rajkot Center. In FY 1959, a further sum of \$ 148,120 was provided to make a total of \$ 450,000 to complete the funding for this contract.

Thru this contract, U.S. technicians, as determined by project needs, will continue to be recruited and assigned at the Rajkot Industrial Estate.

Cost: \$ 450,000.

ii) Project 386-27-115 - National Productivity Council

The U.S. contribution to this project includes dollar and Sec. 402 rupee financing of participants, technicians, contract services and commodities. There is no US contribution to local currency costs of operating the Productivity Council.

The FY 58 contribution amounted to \$ 56,000 only, covering TDY travel of an ICA/W specialist, a top level productivity team, and a few equipment items. FY 59 was the first year of large scale funding for this project. Obligations totalled \$ 815,000 and covered (a) 7 productivity teams and 40 one-year trainees; (b) commodities amounting to \$ 134,000 including books, periodical subscriptions, organizational memberships, films, audio-visual equipment, and vehicles; (c) two staff technicians, entered on duty late in the fiscal year, and (d) \$ 400,000 provided to fund the contract services of the 8-man advisory team, 3 one-year technicians, and a 3-man team to advise in the manufacture of automobile ancillaries.

iii) Project 386-28-163 - Steel Training

One hundred participants in FY 1959 are due to proceed abroad for training in the field of steel making, at a cost of \$ 373,000.

(b) Operational Year:

i) Project 386-29-087 - Small Industries Development

Two participants from the Rajkot Center will go to the U.S. for six weeks observation of small industrial plants - Cost \$2,000.

Section 402 funds for above \$ 3,700.

ii) Project 386-27-115 - National Productivity Council

15 Productivity teams and 26 one-year participants will be sent to the U.S. and/or third countries at a cost of \$286,000.

4 Direct hire technicians (3 on board) will be funded at a cost of \$ 84,000.

Additional contract funding for the 8-man NPC advisory team is provided in the amount of \$ 200,000.

Commodities required in support of the above technicians will be procured. \$ 20,000.

Total Cost: \$ 590,000

Section 402 Rupees for above \$ 326,000. Section 402 rupees will also be used to cover part of the cost of the contract services e.g. quarters allowance, cost of living & return international travel.

iii) Project 386-28-163 - Steel Training

100 engineers and technicians will be sent to the U.S. for training for a period of approx. one year. Total Cost: \$373,000.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-29-177	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Industrial Development		

It is anticipated that supplemental TC funds in the amount of \$ 373,000 will be authorized by ICA/W to provide training for an additional 100 participants in FY 60.

(c) Budget Years:

1) Project 386-29-087 - Small Industries Development

U.S. contract technicians will continue to be assigned at Rajkot.

Commodities in the amount of \$ 50,000 will be provided to the Center in further support of the contract technicians.

ii) Project 386-27-115 - National Productivity Council

Funding for this sub-project in the budget year is proposed in the amount of \$ 812,000 including:

Participants: \$ 350,000

It is planned to send 8 productivity teams and 50 one-year trainees. Teams will visit Japan and/or Europe in addition to the U.S.

Section 402 rupees for participant travel cost \$232,000

Staff Technicians: \$ 72,000

Position # 297 - Management Organization Specialist
(Prof. R.F. Bruckart) - Occupation Code 2115208, FSR-3.

Position # 298 - Technical Information Specialist
(H.R.H. Johnson) - Occupation Code 2115208, FSR-3.

Position # 316 - Management Training Specialist (E.O. Keller)
Occupation Code 2115200, FSR-5.

Position # 317 - Labor Productivity Advisor (Vacant)
Occupation Code 2011603, FSR-3.

Contract Services: \$ 300,000

Additional funding for the 8-man contract advisory team is proposed in the amount of \$ 300,000. The contract team will consist of Management, Engineering and Marketing Specialists, who will perform training and consulting services for NPC. The 3-year contract provides only technician services and incidental equipment. Total cost of the contract is estimated to be \$ 1,060,000. The contract was funded initially in FY 1959 in the amount of \$ 400,000. An additional \$ 200,000 was provided in FY 1960. It is anticipated that the contract will be effective approximately from January 1, 1960, in which case the FY 1959 and FY 1960 funding will finance the contract thru approximately June 30, 1961. An additional \$ 300,000 is proposed herein to fund the contract for another year, thru June 30, 1962. The balance of \$ 160,000 required for completion of the contract will be provided in FY 1962.

Commodities: \$ 90,000

Commodities of the types procured in previous years are proposed to be procured in the amount of \$ 90,000. This will involve audio-visual equipment, training materials, technical books, periodicals, etc., to be used in the dissemination of technical information. In terms of the three digit commodity code classification, the following procurements will be effected approximately:

E-1	FORM ICA 16-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	Project 386-29-177
		November 1, 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Industrial Development	

Code	Description	Amount
720	Electrical apparatus	3,000
780	Industrial machinery including office machines, appliances and parts	2,000
890	Miscellaneous commodities	85,000

iii) Project 386-28-163 - Steel Training

During FY 1961 100 Indian steel industry participants will be sent to the U.S. for training for a period of approximately one year. Training costs are estimated at \$ 373,000.

(d) Future Fiscal Years:

1) Project 386-29-087 - Small Industries Development

No future fiscal year US contribution to the project is anticipated.

ii) Project 386-27-115 - National Productivity Council

The following activity is anticipated:

Participants: \$ 100,000

It is expected that 75 selected short-term participants will continue to be sent abroad for observation in their fields of specialization. Local currency cost equivalent of \$ 139,000.

US Technicians: \$ 72,000

The 4 direct-hire technicians will be carried into FY 1962.

Contract Services: \$ 160,000

The contract will be fully funded in FY 1962.

iii) Project 386-28-163 - Steel Training

At this time no future fiscal year US contribution is anticipated.

(5) Nature of Cooperating Country Contribution:

1) Project 386-29-087 - Small Industries Development

The GOI has established the Rajkot Center and is supporting its administrative as well as operating costs, such as, salaries for the staff, rental for the buildings plus commodities of their own procurement. The Government of India will also (1) for imported commodities provide inland handling and transportation; (2) for U.S. technicians provide facilities and make a cash contribution toward their intra-India support, in accordance with the agreement between the two Governments dated May 9, 1956; and (3) for the selected participants provide for their salaries while in training abroad, and their intra-India transportation costs to and from Delhi. The GOI also pays the packing, forwarding and shipping charges on all the excess U.S. machine tools shipped to India.

ii) Project 386-27-115 - National Productivity Council

The GOI meets the entire local operating expenditure of the NPC, amounting to approximately Rs. 2 million per year. This amount finances NPC staff (totalling 130), local procurement of supplies and materials required for audio-visual activities, training courses, etc., as well as grants-in-aid to LPCs for similar purposes and other grants to outside organizations and

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-29-177
				COUNTRY ECONOMIC PROGRAM		Industrial Development

and institutions in support of training activities contributing to the objectives of the NPC program. These local currency funds are derived entirely from National revenue. Funding reached this level during FY 59 and will continue at the same or a higher rate at least through FY 1962. LPCs will be spending additionally Rs. 300,000 per year to be derived from their own local sources. Considerable additional expenditures are borne by private industry in the form of salaries, facilities, etc. For example, the employers of NPC's 50 one year trainees contribute approximately Rs. 725,000 per year by continuing the salaries of these trainees while they are abroad for training. The Government of India will also (1) for imported commodities provide inland handling and transportation; (2) for U.S. technicians provide facilities and make a cash contribution toward their intra-India support, in accordance with the agreement between the two Governments dated May 9, 1956; and (3) for the selected participants provide for their salaries while in training abroad, and their intra-India transportation costs to and from Delhi.

iii) Project 386-28-163 - Steel Training

The GOI contribution to this project involves within-India travel and international transportation of the participants, payment of their salaries, and all expenses in connection with a predeparture orientation course given to participants at the TATA Iron & Steel Company in Jamshedpur. The total of these elements is estimated to be \$ 185,000 per year.

(6) Contribution from Other Sources and Relationship to Other Projects:

a. Contribution from Other Sources:

i) Project 386-29-087 - Small Industries Development

The UN, Japanese government and the West Germans are assisting

GOI in the development of independent industrial estates.

The Ford Foundation has authorized \$ 5.95 million up to March 1958 for industrial and business development in India. This includes the development of small industry by provision of technical know-how and supporting commodities.

ii) Project 386-27-115, National Productivity Council

In FY 59 the NPC has received assistance from the UN and the government of France and has received offers for future assistance from the governments of Russia and Czechoslovakia. UN assistance thru the ILO consists of 3 productivity technicians (estimated cost \$ 60,000 grant). The French are providing 6-month training courses in various aspects of general management for 30 Indian management representatives selected by the NPC (estimated cost - \$ 90,000 - grant). Definite plans for future aid from these and similar sources have not been made.

iii) Project 386-28-163 - Steel Training

The costs of contract services covering necessary administrative expenses and university training will continue to be met by the Ford Foundation. These costs, which amounted to approximately \$ 150,000 per year, are not included in estimates of required US funds for this project.

In addition, the German, USSR and British assistance continues to be provided to the GOI in the growth of the steel making capacity, under separate schemes in each case.

b. Relationship to Other Projects:

i) Project 386-29-087 - Small Industries Development

This project carries further the work done in previous years

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-29-177	E-1
				COUNTRY ECONOMIC PROGRAM		Industrial Development	

under project 386-23-037, Industrial Technical Services, thru the dissemination and introduction of improved industrial skills.

ii) Project 386-27-115 - National Productivity Council

The GOI, various institutions and organizations in the country, state and local governments as well as private industry carry out many activities with foreign assistance which contribute to improvement of industrial efficiency. In terms of a nationally organized effort to stimulate increased attention to the possibility of higher efficiency through adoption of improved methods in Management, Industrial Engineering, Industrial Relations and Marketing, the NPC project is the major effort being made, since the government is focussing its activity through this single agency. This project supports and contributes to achievement of the objectives of all other industrial development activities, particularly in the private sector.

iii) Project 386-28-163 - Steel Training

This project is part of a total foreign training effort for 2000 engineers and technicians. The complement of participants for the Durgapur and Rourkela mills will be trained by the US, West Germany, United Kingdom, Canada or Australia.

(7) Financial Considerations:

i) Project 386-29-087 - Small Industries Development

This project was approved by ICA/W in FY 1956. All funds have been subobligated. A contract has been signed with a US firm of Consulting Engineers and the personnel has begun to arrive at Rajkot. No difficulties are foreseen in the future in the normal liquidation of the pipeline.

ii) Project 386-27-115 - National Productivity Council

The funding proposed in FY 1960 is a reduction from that envisioned in the previous MPB submission. It was earlier anticipated that FY 1961 funding would complete this project. It has been necessary, however, in view of the general reduction in funds available in the Indian program, to reduce the FY 1961 funds from \$ 904,000 (at a lower cost basis both for participants and technicians) to the presently proposed \$ 812,000. The reduction is being absorbed in the participant element by deferring a portion of FY 1961 participants to FY 1962. The deferred initiation of the 8-man contract advisory team's services means that this contract will run through at least the end of 1962. At the same time, it has been determined that initially contemplated funding for this contract was short by approximately \$ 100,000. It is proposed, therefore, to fund a part of the last year's operation of this contract in the FY 62 program, in the amount of \$ 160,000. These funds should be available for obligation and incorporation in the contract by December 1961. The participant activity carried over to 1961 because of shortage of funds will be programmed for FY 62, amounting to \$ 100,000 for 75, eight-week productivity team members. GOI planning for future operations of the NPC has not been completed to an extent which should make it possible to determine finally whether or not ICA assistance after 1962 will be requested.

Significance of ICA financing: Organized national productivity programs depend in their initial stage upon the inflow of concepts, methods and techniques from abroad. The GOI established the NPC on the assumption that the necessary ICA financing would be available for this essential beginning period of three or four years. Reduction or termination of US assistance would seriously compromise the effectiveness and impact of NPC and possibly would mean that the NPC activity never would become self-generating, so that the value of ICA's earlier assistance might well be lost. On the basis

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-29-177	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	India		
				COUNTRY ECONOMIC PROGRAM	Industrial Development		

of the initial project agreement for the NPC, widespread dissemination has been made in the press and industrial circles in India of plans described in the agreement. Stretch-out of the FY 61 participant activity over fiscal years 1961 and 1962 need not endanger the effectiveness of the project significantly. However, any significant overall reduction in the ICA contribution to the NPC would not only weaken the effect of the project, but would damage U.S. prestige in India.

11i) Project 386-28-163 - Steel Training

There are no unusual pipeline difficulties that may be anticipated in FY 1960 or future fiscal years.

(8) Cooperating Country - TCM Coordination

1) Project 386-29-087 - Small Industries Development

The GOI is anxious to utilize fully the services of the US contract technicians for the successful development of the Rajkot Industrial Estate, and is providing all assistance needed. The plans embodied in this project have been discussed with the GOI and are fully acceptable to them. The proforma for the two participants will be forthcoming on schedule.

ii) Project 386-27-115 - National Productivity Council

The GOI contribution to the NPC is derived from the regular revenue sources. It is not a significant item in the GOI budget, and the strong support given NPC by the government assures its availability at least through the period of ICA assistance. The plans in this E-1 represent the agreed plans of TCM and the GOI in the execution of this project. The request for technicians, participants and commodities will be furnished by the GOI, as needed.

11i) Project 386-28-163 - Steel Training

The GOI is anxious to train at least twice the number of Indian participants now being trained thru ICA-Ford Foundation assistance, and is providing all needed cooperation in the implementation of the project. The Ministry of Steel, Mines and Fuel has agreed to the plans contained in this E-1 and will send the proforma within reasonable time. To that extent the plans outlined here are considered firm.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-33-017	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Railway Rehabilitation and Expansion		

1	PROJECT BEGINS FY 54 ENDS FY 58	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	SA TC	74,268 576	- 96	- 66	- 414	74,268 -	- -												
B. Net Deob.-Reob.		-267	-75	-14	-1	-177	-												
	Current Funds	-	-	-	-	-	-												
	Total Actual Year FY 59	SA TC	-177 -90	- -75	- -14	- -1	-177 -	-											
C. Operational Year FY			-																
D. Budget Year FY			-																
E. All Subsequent Years			-																
F. Total All Years	SA TC	74,091 486																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	SA TC	37,327 446	- -	15,648 130	-177 -90	-177 -90	-177 -90	- -	15,471 40	8,756 30	6,715 10		6,715 10	3,759 6	2,956 4
	Actual Year FY															
	Operational Year FY															
	TOTAL	SA TC	37,327 446	- -	15,648 130	-177 -90	-177 -90	-177 -90	- -	15,471 40	8,756 30	6,715 10		6,715 10	3,759 6	2,956 4

Problems Addressed: The overall objective of this project was to help in the expansion and rehabilitation of the Indian Railway system by supplying steel, rolling stock and technical advisory services. This was a 5 year project initiated in FY54 and phased out in FY58. Commodities to arrive in India under prior year's pipeline are currently under procurement and no difficulties are foreseen. A full description of this project was given in the FY59 E-1.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-37-024	E-1
	COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Expansion of Aviation Ground Facilities			

1	PROJECT BEGINS FY 54 ENDS FY 61	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A.	All Prior Years	SA	180	-	-	-	180													
		TC	2,657	64	76	-	2,517													
B.	Net Deob.-Reob.		-9	-	-5	-	-4													
	Current Funds		44	19	25	-	-													
	Total Actual Year FY 59	SA	-	-	-	-	-													
		TC	35	19	20	-	-4													
C.	Operational Year FY 60	TC	46	20	26	-	-		15			15					1		8	
D.	Budget Year FY 61	TC	210	20	25	15	150		15			15					1	1	8	
E.	All Subsequent Years																			
F.	Total All Years	SA	180																	
		TC	2,948									30								

2	FY Source of Funds	Function of Funds	(A) Total All Prior					(B) Actual Year FY 59					(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/
Dollar Obligation and Expenditure	All Prior Years	SA	-	180	180	-	180	180	-	180	10	170		170	95	75
		TC	1,190	-	1,467	-9	-9	-9	-	1,458	373	1,085		1,085	607	478
	Actual Year FY 59	SA														
		TC				44	44	44	-	44	13	31		31	23	8
	Operational Year FY 60	TC											46	46	16	30
	TOTAL	SA	-	180	180	-	180	180	-	180	10	170	-	170	95	75
		TC	1,190	-	1,467	35	35	35	-	1,502	386	1,116	46	1,162	646	516

Problems Addressed:

Problem 5 - Need for expansion and improvement of transportation and telecommunication facilities.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-37-024	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Expansion of Aviation Ground Facilities		

(1) General Description of the Project:

The overall objective of this project is to assist the GOI in the expansion and modernization of aeronautical ground facilities and services and to provide facilities for the control and separation of air traffic and to assist in the economic growth of domestic civil air transport.

This project was started in FY 54 and the proposed phase out date is June 30, 1961.

The project as developed with the GOI includes the following major areas of activity:

- a. Provision of equipment for expansion of the aeronautical fixed telecommunications network.
- b. Procurement and installation of air traffic control RADAR at Bombay-Santa Cruz Airport. Procurement and Installation of Precision Approach RADAR at Bombay-Santa Cruz and Calcutta-Dum Dum Airport.
- c. Procurement and installation of 15 Very High Frequency Omnidirectional Radio Ranges (VOR) at selected sites in India.
- d. Procurement and installation of a Storm Warning RADAR at Safdarjung Airport, New Delhi.
- e. Procurement and installation of navigational aids, communications & electronic test equipment for demonstration and training activities at the Civil Aviation Training Center, Allahabad, U.P.

- f. Procurement and installation of perimeter beacons and SSB interphone equipment to facilitate control of turbo-jet aircraft traffic and establish positive area traffic control on a pilot basis.
- g. Provision of Contract Architectural Consultant Services on a short term basis at Calcutta-Dum Dum Airport to assist the GOI in Terminal Building Design.
- h. Participant Training in various aeronautical specialities.

(2) Specific Activity Targets or End Results of the Project:

- a. To provide an internal radio teletype network with added external services for aeronautical fixed communications.
- b. To train a group of telecommunication specialists in the design and maintenance of aeronautical communications facilities.
- c. To provide a high power Storm Warning RADAR as a pilot project to demonstrate application of this equipment to Aviation forecasting and general meteorological problems.
- d. To provide a trained cadre of RADAR and area perimeter facilities at Bombay to demonstrate application of this equipment in the control and separation of aircraft under medium traffic density instrument conditions.
- f. To provide Precision Approach RADAR facilities at Bombay and Calcutta and increase the safety and regularity of aircraft arrivals under restricted visibility conditions.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-37-024	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Expansion of Aviation Ground Facilities		

<p>g. To train a group of RADAR installation and maintenance engineers and to provide facilities for training RADAR operations specialists.</p> <p>h. To provide facilities for all-weather navigational track guidance on Indian air routes above 5000 ft. including two trans-India advisory routes which are part of the round-the-world air traffic pattern.</p> <p>i. To provide airborne flight check equipment and calibration laboratory for performance-evaluation and alignment of air navigation and RADAR facilities.</p> <p>j. To provide modern demonstration and electronic training facilities at the Civil Aviation Department Aviation Training Center at Allahabad for training of Indian and third-country technicians in the installation, maintenance and operation of air navigation aids and communication equipment.</p> <p>(3) <u>Progress Toward Achievement of Activity Targets:</u></p> <p>a. <u>Work accomplished to date:</u></p> <p>All basic equipment supplied under PA-4126, 4128 and PIO/C 60387 has been delivered and installed. The Storm Warning RADAR has served its purpose as a pilot project and the GOI has installed additional storm warning sites with equipment of their own procurement. A total of seven VOR sites have been installed from the 15 sets of equipment furnished under PA-4129. CAD has one operational C-47 aircraft for flight checking and has established a calibration laboratory using the equipment supplied under PA-4129. ASR-3 RADAR equipment procured in accordance with PA-4127 has been delivered at Bombay. Twenty four participants have been trained in years prior to</p>	<p>FY 59. Four FY 59 participants are now undergoing training in the U.S.</p> <p>b. <u>Work Remaining to be Done:</u></p> <p>Installation work under PA-4127 on the ASR-3 RADAR equipment on hand at Bombay has been started and it is expected that the site will be operational in February 1960. PAR-2 RADAR equipment for Bombay and Calcutta is scheduled for delivery in February 1960 and is expected to be operational by September 1960. Work is in progress under PA-4129 on site acquisition and building construction to permit completion of installation of the 8 remaining VORs by June 1960. Procurement of perimeter VORs and ATC modernization equipment is yet to be accomplished in accordance with a Pro-Ag amendment which will be negotiated with GOI in FY 61.</p> <p>In FY 61 the contractual services of an architectural consultant may be provided to assist the GOI in its program of modernization of the Dum Dum Airport.</p> <p>Supporting commodities may also be provided.</p> <p>During FY 60, three CAD participants in radio, flight simulator and RADAR technical specialties, one meteorological participant in high altitude forecasting, two CPWD participants in Airport Engineering and two CAD participants in aeronautical inspection, jet aircraft may be processed and sent forward for training.</p> <p>c. <u>Progress toward Achievement of Project Targets:</u></p> <p>All equipment installed thus far is in daily or 24 hour operation, being successfully maintained and is contributing to the safety and regularity of flight.</p>
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-37-024	E-1
				COUNTRY ECONOMIC PROGRAM		Expansion of Aviation Ground Facilities	

(4) Nature of the U. S. Contribution:

Total Cost: \$ 46,000

a. Previous Fiscal Year:

Section 402 funds: \$ 15,000

The U.S. has provided the services of an Aviation Electronic Advisor/CAAG Chief from FY 55 through FY 59 to coordinate and develop this project and to assist GOI in the siting and installing the equipment provided. In FY 57 a RADAR installation engineer and a factory project engineer, VOR were provided for a tour of duty of 3 months each. Operational Agreement No. 24 was originally funded in FY 54 for \$ 1,950,000. In FY 55, a ProAg amendment was negotiated which added DA funds of \$ 390,500 bringing the OA-24 total to \$ 2,340,500. In FY 56 a ProAg amendment was negotiated for \$196,000 to cover PIO/C 60387, this was increased by \$ 35,000 in PIO/C 70244. In FY 58 additional DA funds of \$ 180,000 were provided to procure additional RADAR equipment under PA-4127 in accordance with PIO/C 80313. The total OA-24 commodity funding through FY 59 is \$ 2,701,500. In actual year 1959, expenditure for one U.S. Technician and four participants was \$ 37,000.

b. Operational Year FY 60:

Technicians:

AIR OPRN SPEC COMU Position No.142 (continuation) for 1 year.

Cost: \$ 20,000

Participants:

Eight six-month GOI requested participants are scheduled for training during FY 60 with specialities as listed in 3b, above.

Cost: \$ 26,000

c. Budget Year FY 61:

Contract Consultant:

One Consulting Architect may spend 6 weeks at Dum Dum Airport and consult with the GOI concerning new terminal building design.

6 weeks consultant services Cost: \$ 15,000.

Commodities:

Pilot project for demonstration of positive air traffic control system on one area basis. Modernization of Tower to Tower interphone. Perimeter and gap filler VORs.

Cost: \$ 150,000

Technicians:

AIR OPRN SPEC COMU Position No. 142, continuation until September 12, 1960, (expiration date of GOI request).

Cost: \$ 20,000

Participants:

Eight participants proposed to maintain same activity level as FY 60.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Expansion of Aviation Ground Facilities		

Cost: \$ 25,000

Section 402 funds for above: \$ 15,000

d. Future Fiscal Years:

In accordance with present planning there will be no future fiscal year contributions to this project.

(5) Nature of Cooperating Country Contribution:

The GOI has provided sites for navigational aid and weather RADAR installations either through outright purchase, requisition or reservation of government-owned land. The GOI has funded and constructed necessary buildings and housing for ICA furnished electronics and RADAR equipment and will continue to do so until all ICA furnished aeronautical equipment is installed. Power services have been provided, necessary power and telecommunications cables have been installed. Cable right of way has been provided and access roads constructed, where necessary. The GOI has provided Rs. 746,000 for payment of inland freight charges, port charges and custom duty on ICA furnished equipment. Installation and maintenance teams for M & O of ICA furnished equipment have been trained at Allahabad CATC and DGO headquarters New Delhi.

The GOI will pay salaries and power costs for continued operation and maintenance of ICA furnished navigation and RADAR Aids. Recurrent costs for expendable maintenance supplies will be met out of the foreign exchange allotment of the regular CAD and DGO budget.

The Government of India will also (1) for imported commodities provide inland handling and transportation; (2) for U.S. technicians provide facilities and make a cash contribution toward their intra-India support, in accordance with the agreement between the two Governments dated May 9, 1956; and

(3) for the selected participants provide for their salaries while in training abroad, and their intra-India transportation costs to and from Delhi.

(6) Contribution from Other Sources and Relationship to Other Projects:

Contribution from Other Sources:

a. International Civil Aviation Organization:

Technicians:

In FY 56 and 57 ICAO provided a Senior Air Carrier Captain for 12 months to serve as a check pilot on IAC Routes.

In FY 57 ICAO provided a link trainer instructor for six months at CATC, Allahabad. In FY 59 up to the present date ICAO has provided a RADAR operations and ATC instructor at Dum Dum Airport. This training activity is complementary to TCM training in RADAR maintenance and an ICA procured RADAR simulator will be used in this program.

Participants (Fellowships)

Two GOI Aeronautical Engineers are scheduled for 9 months training in the U.K. during FY 60 on turbine aircraft engines.

b. Colombo Plan:

Participants (Fellowships)

In FY 58, one CAD Technician received 3 months training in the U.K. on airborne electrical systems.

In FY 59, Two CAD Assistant Aerodrome Officers received 9 months U.K. training in Crash Fire and Rescue services.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Expansion of Aviation Ground Facilities		

In FY 60, one CAD Aeronautical Engineer is scheduled to receive 6 months training in maintenance and operation of jet aircraft.

Relationship to Other Projects:

This project is closely related to and supports other Mission projects in the sector of transportation and communication, such as, 386-33-017, Railway Rehabilitation and Expansion, 386-22-091, Telecommunication Development and 386-31-169, Highways and Bridges etc.

(7) Financial Considerations:

The U.S. contribution for FY 61 of \$ 210,000 terminates US activity under this project.

The GOI Ministry of Finance has allocated sufficient rupee funds to complete facility housing and buildings still required to complete installations for which equipment has been procured and to acquire necessary sites and access roads.

The CAD is employing and training maintenance and operational personnel to man ICA furnished installations and will meet annual recurring costs for labor, power and other items.

ICA furnished equipment was provided with maintenance spare parts for two to three years of operation. As these supplies are consumed, it will be necessary that CAD and DGO provide a foreign exchange budget component to procure electron tubes and operating spares not manufactured in India. This problem is recognized and these GOI agencies have very careful in expenditure of spare parts and radio stores management.

(8) Cooperating Country - TCM Coordination:

The CAD, Ministry of Transport & Communication has provided full cooperation for the successful implementation of the project. It is expected that due to major GOI interest in the development of Indian airlines they will continue to support their portion of activity under this project.

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		November 1, 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	Project 386-31-169	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Highways & Bridges		

1 PROJECT BEGINS FY ENDS FY 59 61	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
	Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
															Non- Contract	Contract	Non-Contract U.S.	3rd Country
A. All Prior Years																		
B. Net Deob.-Reob. Current Funds	TC	29		29														
Total Actual Year FY 59	TC	29		29				17				17					9	
C. Operational Year FY 60	TC	37		37				19				19					10	
D. Budget Year FY 61	TC	47	21	26				15				15			1		8	
E. All Subsequent Years																		
F. Total All Years	TC	113										51						

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60				
			(1) Cumulative Expenditures 6/30/ 58	(2) Un-Sub- Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY 59	(4) Un-Sub- Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/ 59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/ 60	
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	-	-	-	29	29	29	-	29	-	29			29	21	8
	Actual Year FY 59	TC															
	Operational Year FY 60	TC											37	37	-	37	
	TOTAL	TC				29	29	29	-	29	-	29	37	66	21	45	

Problems Addressed:

Problem 2: Need to increase and improve the supply of trained manpower to industry at all levels.

3: Need for improvement and expansion of transportation and telecommunication facilities.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-31-169	E-1
				COUNTRY ECONOMIC PROGRAM			

A. General Description of the Project:

The purpose of this project is to aid road development in India (within the context of the current GOI Road Development "Nagpur Plan") through the provision of technical assistance in the fields of (1) road research and (2) road planning and development. Assistance in the area of road research will be extended to the Central Road Research Institute (Council of Scientific & Industrial Research, (CSIR), Ministry of Scientific Research and Cultural Affairs) in the form of advisory services of a general highway research engineer and participant training for selected engineers of the Central Roads Research Institute (CRRI). Assistance in road planning and development will be extended to the Road Wing of the Ministry of Transport and Communications in the form of participant training, as required, in selected areas such as bridge construction, expressway and highway as well as secondary road construction.

Assistance to the Central Road Research Institute, prior to FY 1961, has been provided under project 386-27-151, Council of Scientific and Industrial Research (now phased out).

There is a dearth of experienced engineers possessing specialized practical knowledge in bridge engineering and roadway construction in India. Of all the existing problems, the lack of men to design and execute the construction of bridges and roads is one of the most serious hindrances in the execution of the Ministry of Transport and Communications (Roads Wing) portions of India's Five Year Plans. There is critical need for men able to design and construct adequate bridges and expressways and lay down specifications with regard to the materials available in India. In addition, industrial expansion under the Second Plan has placed considerable strain on the railways, which are faced with a serious shortage of carrying capacity, and an inadequate system of feeder lines. The eventual construction of expressways to relieve congestion and the continuous and engineered improvement

of existing highways by advanced techniques is of primary importance in keeping pace with the current developments in other sectors of the Indian economy, notably the progressive expansion of agricultural and industrial output. Also, the steady increase in population proves a firm directional trend toward which advance planning must be made to provide mobility of labor forces and an efficient medium for movement of agricultural, and raw or finished products for internal consumption as well as export markets.

Historically, the GOI has placed such major emphasis and dependence upon the railways that little more than token efforts were expended upon highway development, extension and maintenance. The fallacy of this became apparent during World War II, and the "Nagpur Plan" was projected for the period 1943-63 at a cost of Rs.372 Crores (\$781.2 million) which at current costs would be double this amount.

There is also an obvious lack of road communication between the 558,000 villages which contain 85% of the country's people.

Fluctuations in India's financial position resulted in considerable irregularity of efforts to establish an effective, sound approach to filling the country's minimum needs for a network of national and state highways coupling district and village roads. However, the originally projected "Nagpur Plan" will be substantially completed by 1961 insofar as road mileages (minimum) are concerned, but there is continuing deficiency with respect to road surfacing and bridge structures.

Road work in India, either surfacing or new construction, has so far been planned on a largely non-mechanized basis for the reason that labor supply is enormous. Up to this point high speed, heavy load construction has not been needed in a predominantly "single bullock cart" transportation system.

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				COUNTRY ECONOMIC PROGRAM		Highways & Bridges	

The use of machinery to improve quality of roads and reduce total costs is now contemplated and every effort is being directed toward indigenous production of road rollers, compressors, stone crushers, concrete mixers, etc. Foreign exchange, to cover requirements of certain specialized mechanical items not needed in sufficient quantities to warrant local production--such as pile drivers, core drills, hydraulic jacks, bitumen laying machines, medium draglines, etc.--will probably be sought through DLF or EXIM Bank loans in the near future. Specific details in this category have not yet been finalized but will be developed during 1960-61. It is anticipated that, at such time, consideration would be given to expansion of this project activity.

B. Specific Activity Targets or End Results of the Project:

To assist the GOI in the construction of sound and serviceable roads and bridges at economic cost by (a) strengthening the research activities of the Central Road Research Institute, and (b) by aiding the Roads Wing of the Ministry of Transport & Communications in the introduction into India of modern construction techniques and skills, through provision of participant training for engineers of the Central Roads Wing and of the various states.

C. Progress Towards Achievement of Activity Targets:

a. Work Accomplished to Date:

In FY 59 nine participants sponsored by the Roads Wing of the Ministry of Transport & Communications were processed; they will depart for training in the U.S. in various phases of road and bridge construction later in the year.

Under project 386-27-151, Council of Scientific and Industrial Research, in FY 59 one participant is now undergoing training in the U.S. in road construction, and provision has been made for \$ 5,000 worth of commodities (laboratory equipment) in support of the General Highway Research Engineer, who is expected to arrive during FY 60.

b. Work Remaining to be Done:

Provision of technician services and participant training opportunities to the CRRI and participant training to the Roads Wing. (See D. Nature of the U.S. Contribution).

c. Progress toward Achievement of Activity Targets:

It is as yet too early to evaluate progress toward achievement of project targets.

D. Nature of the U.S. Contribution:

a. Previous Fiscal Years:

In FY 59 nine participants sponsored by Roads Wing were programmed for training in the U.S. @ \$29,000 plus international travel funded from Section 402 rupees equivalent to \$ 17,000.

b. Operational Year:

Training to 10 Participants:

It is anticipated that five participants will visit the U.S. for a period of 6 months to receive training in various fields of the construction and design of prestressed concrete and steel suspension bridges at a cost of \$15,175, plus Local Currency (Section 402 rupees) equivalent to \$ 9,250.

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				COUNTRY ECONOMIC PROGRAM		Highways & Bridges	

One participant will be sent for 12 months on river training in selection of bridge sites, control and training of rivers to maintain established courses. Cost \$ 5,035. Local currency cost equivalent of \$ 1,850.

Total FY 1961 Cost \$ 45,280

Local currency cost equivalent of \$ 14,800.

Two additional participants will visit the U.S. for specialized training in highway construction and maintenance procedures for 6 months each. Cost \$ 6,070. Local currency cost equivalent of \$ 3,700.

d. Future Fiscal Years:

Contingent upon GOI requests being made to the Mission it is possible that certain mechanical items (e.g., pile drivers, core drills, hydraulic jack, and others) will be required to be provided to the GOI. However, the source for these might be from the DLF or EXIM bank loans. Specific plans in this behalf will be developed by the GOI in 1960-61.

Two other participants will be scheduled for 10 months each at IRF program training (or similar). Cost \$ 10,070. Local currency cost equivalent of \$ 3,700 will be used for participants travel.

E. Nature of Cooperating Country Contributions:

c. Budget Year:

Eight participants will be trained as follows:

A new 20 year plan 1961-81 presently in formulation projects a GOI expenditure of Rs. 5,200 crores (\$ 10,920 million) for improvement and new construction - of which approximately one-half will be expended on surfacing and one-third on cross drainage culverts and bridges. Additional provision for maintenance costs during the same period brings the total project cost to Rs. 6,550 crores (\$ 13,755 million).

Four participants will visit the U.S. for a period of 6 months to receive training in the various fields of the construction and design of prestressed concrete and steel suspension bridges. Cost \$ 14,000. Local currency equivalent of \$ 7,400.

Earlier, during the period 1951-56, the GOI undertook a national program costing Rs. 277 million (US \$ 58.17 million) for improvement of roads. Under this program nearly 4,000 miles of existing road section were improved and about 400 miles of roads provided with two-lane traffic facilities, 636 miles of missing links between principal roads constructed, and a large number of culverts and bridges including 30 major bridges were constructed.

Two participants will visit the U.S. for specialized training in highway construction and maintenance procedures for 6 months each. Cost \$ 6,000. Local currency cost equivalent of \$ 3,700.

Two other participants will be scheduled for 6 months each at IRF program training (or similar). Cost \$ 6,000. Local currency cost equivalent of \$ 3,700. Total participant cost: \$ 26,000. Local currency cost equivalent of \$ 14,800.

The GOI has also established a Rs. 5 million (US \$1.05 million) Central Road Fund for loan to Municipal or other local bodies for purposes of meeting their share of the costs of construction of over and under bridges proposed to be built in place of existing road-rail level crossings, particularly in vicinity of towns.

It is anticipated that the General Highway Engineering Research Technician (under project 386-27-151 in previous years) will be carried into 1961 for another year. Cost \$ 21,000.

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				COUNTRY ECONOMIC PROGRAM		Highways & Bridges	

In order to study soil condition in relation to road construction, testing and developing the use of road construction materials and evolving of standards and specifications the GOI has also established the CRRI. The CRRI started functioning in July 1952 and has done useful work in evolving cheaper and better methods of road construction and maintenance.

F. Contribution from Other Sources and Relationship to Other Projects:

a. Contribution from Other Sources:

During the period ending March 31, 1958, the U.K. has supplied equipment worth £ 6,572 to the CRRI. The Colombo Plan's partial provision of 7 fellowships (3 to Australia and 4 to Canada) in FY 59 is complementary to TCM training of participants in the U.S. for the total needs of the Central and the 14 state governments.

b. Relationship to Other Projects:

Project 151 (FY 59) provided assistance to the Central Road Research Institute in the form of one participant and a limited amount of commodities. It is proposed that this

assistance will be coordinated with this project to the maximum extent possible to assure effective application of such research work. The Community Development program (008) has assisted the village level road program with equipment, and the River Valley Program (011) has included roads in conjunction with such projects.

G. Financial Considerations:

It is expected according to present plans, that US contribution \$ 47,000 in FY 61 will terminate the U.S. TC assistance to this project.

H. Cooperating Country - TCM Coordination:

The Ministry of Transport & Communications and the CRRI are anxious to provide training to their technicians in modern road building techniques and for this purpose will furnish needed cooperation and assistance to the Mission. The GOI nominations and proforma are expected to be received on schedule. Suitable Indian technicians will be assigned to work with the US technician at the CRRI.

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		November 1, 1959		UNCLASSIFIED	INDIA	386-42-056	
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE TRADES TRAINING			

1	PROJECT BEGINS FY 1955 ENDS FY 1959	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract	Contract
A. All Prior Years	TC	668	17	-	-	651	-	-	-	-	-	-	-	-	-	-	-	-	
B. Net Deob.-Reob.	TC	(10)	-	-	-	(10)	-	-	-	-	-	-	-	-	-	-	-	-	
Current Funds	TC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Actual Year FY '59	TC	(9)	1	-	-	(10)	-	-	-	-	-	-	-	-	-	-	-	-	
C. Operational Year FY '60																			
D. Budget Year FY '61																			
E. All Subsequent Years																			
F. Total All Years	TC	657																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	634	-	34	(10)	(10)	(10)	-	24	24	-	-	-	-	-
	Actual Year FY 59	TC				1	1	1	-	1	1	-	-	-	-	-
	Operational Year FY 60	TC														
	TOTAL	TC	634	-	34	(9)	(9)	(9)	-	25	25	-	-	-	-	-

Problems Addressed:

No. VI - Insufficient human resources to meet the needs of modern India; shortage of skilled workers.

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				COUNTRY ECONOMIC PROGRAM		Trades Training	

<p>1. <u>General Description of the Project</u></p> <p>This project involved assistance to the Ministry of Labor's program to expand and upgrade training facilities in basic trades and crafts for pre-employed youth. The expansion of industry in India is creating an increased demand for skills in the industrial work force.</p> <p>The Ministry of Labor operates two instructor training centers, and supplies 60 per cent of the required financing for 60 training centers administered by the state governments. The current number of work stations in the state centers is 34,000 and is to be expanded to 45,000 by the end of the plan period, 1961.</p> <p>Activity under the project through FY 1959 consisted of the provision of approximately \$640,000 worth of shop equipment, the training of 9 participants in the U.S., and the services of a U.S. technician for a one-year period. The technician, requested in FY 1955, did not report for duty until July 1957.</p> <p>2. <u>Specific Activity Targets or End Results of the Project</u></p> <p>a. To assist the Ministry of Labor to upgrade the course content and operating procedures of its program for the training of skilled craftsmen.</p> <p>b. To improve the quality of training given at the central instructor training centers and the state-operated institutes.</p> <p>c. To supply training equipment in order to upgrade the physical facilities of the 60 training centers administered by the state governments.</p>	<p>3. <u>Progress toward Achievement of Activity Targets</u></p> <p>The Trades Training Advisor was instrumental in assisting the Ministry of Labor to take the following steps:</p> <p>a. Development of a system of trade analysis as the basis for preparation of syllabi, courses of study, and instructional materials.</p> <p>b. Introduction of objective testing on an experimental basis.</p> <p>c. Development of a series of training manuals for each trade.</p> <p>d. Efforts to improve utilization of shop equipment previously supplied by TCM.</p> <p>e. Development of an approach to the industrial training problem which places increasing emphasis upon the quality of instruction given.</p> <p>Having served its purpose, in the main, this project is now being cancelled. Further assistance to the GOI in its efforts to increase the number of skilled workers will be directed to the Bombay Central Training Institute for Craftsmen and Instructors (Project 386-42-179). Such assistance would be in accordance with recommendations submitted by the Trades Training Advisor concerning the concentration and utilization of U.S. assistance in a single training institution.</p> <p>4. <u>Nature of the U.S. Contribution</u></p> <p>Total dollar obligations through FY 1959 approximated \$668,000, of which commodities amounted to about \$640,000. Since this project is being cancelled, no future financial contributions will be made.</p>
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-42-056	E-1
				COUNTRY ECONOMIC PROGRAM		Trades Training	

5. Contribution from Other Sources and Relationship to Other Projects

This project is being superseded by 386-42-179. Otherwise this section is inapplicable by reason of cancellation.

6. Nature of Cooperating Country Contribution

Inapplicable, for this project is being cancelled.

7. Financial Considerations

Inapplicable, since this project not only is being cancelled, but has been inactive for the past year.

8. Cooperating Country - TCM Coordination

Inapplicable to a dormant and now cancelled project.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED Nov. 1, 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-47-072	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Industrial Safety		

1	PROJECT BEGINS FY 1957 ENDS FY 1959	(A) Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A.	All Prior Years	TC	24	24	-	-	-	-	-	-	-	-	-	-					
B.	Net Deob.-Reob.	TC	3	(1)	3	-	1	-	-	4	-	-	-	-					
	Current Funds	TC	5	5	-	-	-	-	-	-	-	-	-	-					
	Total Actual Year FY 59	TC	8	4	3	-	1	-	-	4	-	-	-	-	-	-	2	-	
C.	Operational Year FY 60		-																
D.	Budget Year FY 61		-																
E.	All Subsequent Years		-																
F.	Total All Years	TC	32																

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig. 59	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure 60	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	14	-	10	3	3	2	1	13	6	7		7	5	2
Dollar Obligation and Expenditure	Actual Year FY 59	TC				5	5	5	-	5	3	2		2	2	-
	Operational Year FY 60	TC												-	-	-
	TOTAL	TC	14	-	10	8	8	7	1	18	9	9		9	7	2

Problems Addressed:

No. VI - Insufficient human resources to meet the needs of modern India; inadequate education and training of adults.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project #386-47-072	E-1
		Nov.1,1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA		
				COUNTRY ECONOMIC PROGRAM	Industrial Safety		
<p>1. <u>General Description of the Project</u></p> <p>This project, formerly identified by title as "National Safety", provided technical assistance services to the GOI Ministry of Labor and to State Governments in support of their programs to encourage the adoption of improved industrial safety practices, to stimulate the organization of safety councils in industrial areas, and to enforce safety standards prescribed by legislation. Available statistics reveal an increasing industrial injury frequency rate in India. Reversal of this trend is necessary to conserve financial and manpower resources and provide safe working conditions for industrial workers.</p> <p>2. <u>Specific Activity Targets or End Results of the Project</u></p> <p>a. To make more effective the services rendered by the GOI and the State Governments to encourage the adoption of improved industrial safety practices.</p> <p>b. To support the newly organized Industrial Safety Council in Bombay in its efforts to develop an industrial safety program for industry in that area.</p> <p>c. To encourage the formation of similar organizations in other key industrial areas and the eventual amalgamation of these councils into an All-India Industrial Safety Council.</p> <p>3. <u>Progress toward Achievement of Activity Targets</u></p> <p>4. <u>Nature of the U.S. Contribution</u></p> <p>a. <u>Previous Fiscal Years</u></p> <p>In FY 1957, \$11,000 were obligated for the production, in India, of three motion pictures on industrial safety practices. In FY 1958, \$13,000 were obligated for the services of a U.S. safety engineering consultant. And in FY 1959, \$3,000 (and an additional \$3,700 in local currency for international travel) were obligated for two participants to study U.S. industrial safety practices; \$8,000 to cover the in-India exhibit</p> <p>This project, now being cancelled as peripheral and insignificant in its contribution to the problem and to U.S. objectives, and which began in FY 1957, has supplemented the increasing activity of the GOI in industrial safety promotion and training. Three motion pictures on industrial safety practices are nearing completion and will be added to the film library developed by the Ministry of Labor. Four U.S. films on safe practices in coal mining are being made available to the Ministry of Labor for training of junior officials and miners in the industry. Publications in the safety field supplied to TCM by U.S. agencies have been made available to the GOI on a small scale.</p> <p>In FY 1958, a U.S. safety engineering consultant spent 7 months in India where he worked with government and industry groups in Bombay to assist in the organization of an Industrial Safety Council. The council has been established, has adopted a constitution, but has not been active, and has accomplished little.</p>							
PAGE 170 OF 371 PAGES			SECURITY CLASSIFICATION	UNCLASSIFIED	SHEET 2 OF 3 SHEETS TO THIS		

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project #386-47-072	E-1
		Nov.1,1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA		
				COUNTRY ECONOMIC PROGRAM	Industrial Safety		

costs of an industrial safety exhibit prepared by the U.S. Department of Labor at the request of ICA/W for the NESI and FE Areas; and \$1,200 for safety educational materials and films to be presented to the Chief Advisor, Factories, of the Ministry of Labor, and to the Industrial Safety Council in Bombay.

b. Budget and Future Fiscal Years

Because this project is being cancelled, there will be no further U.S. contributions.

Country

5. Nature of the Cooperating/Contribution

A portion of the recent safety exhibit expenses were paid by the Government of India.

6. Contribution from Other Sources and Relationship to Other Projects

This project, since it is the only one in its field, conflicts with no other programs. In any event, it is being cancelled.

7. Financial Considerations

Other than to state that there is no pipeline, this section is inapplicable due to cancellation of the project.

8. Cooperating Country - TCM Coordination

Inapplicable to a cancelled project.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-41-109	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Trade Union Services		

1	PROJECT BEGINS FY 1961 ENDS FY 1962	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non- Contract U.S.	Contract 3rd Country	Contract
A.	All Prior Years																			
B.	Net Deob.-Reob. Current Funds Total Actual Year FY 1959																			
C.	Operational Year FY 1960																			
D.	Budget Year FY 1961	TC	14	-	14	-	-	-	-	15	-	-	15	-	-	-	-	8	-	-
E.	All Subsequent Years	TC	45									28	-	-						
F.	Total All Years	TC	59									43	-	-						

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960							
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/				
	All Prior Years																			
	Actual Year FY 1959																			
	Operational Year FY 1960																			
	TOTAL																			

Problems Addressed:
No. IX - Inadequate development and excessive political orientation of trade union movement.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-41-109	E-1
				COUNTRY ECONOMIC PROGRAM			

1. General Description of the Project

This project involves assistance to democratic elements of the trade union movement in their efforts to improve, upgrade, and/or establish education and leadership training programs and educational facilities. Simultaneously, services are to be furnished to the Government of India to aid in the implementation of a national GOI workers' education program.

Trade union development is an important aspect of India's increasing industrialization. The success of GOI plans in this sphere of activity will depend to a great extent upon the attitude of workers and the organizations which represent them. These attitudes will, in turn, be shaped by the judgments of workers and trade union leaders on the effectiveness of GOI policies in the industrial field in improving living standards and working conditions. If workers develop an attitude of distrust, the cooperation necessary to the fulfilment of industrial development plans will not be forthcoming. This underlines the importance of a democratic trade union movement - led by capable, responsible, well trained officials - which will work toward the country's development goals while protecting workers' interests and thus helping to ensure a cooperative attitude on their part.

2. Specific Activity Targets or End Results of the Project

- a. To assist the democratic trade union elements to develop leadership training and workers' education programs

- b. To provide participant training for 20 trade union members in the organization and administration of U.S. trade unions.
- c. To provide training for 8 trade union members at the Labor Education Center in Manila.

3. Progress Toward Achievement of Activity Targets

Inapplicable since project is to begin in FY 1961.

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

There were no U.S. contributions in previous fiscal years.

b. Budget Year

In FY 1961 TCM hopes to provide a workers' education specialist, 0116.07 (Labor Education Advisor) FSR-3, from the American trade union movement. He will furnish consultant services to the Ministry of Labor, but will devote most of his time assisting democratic trade unions to develop leadership training and workers' education programs. Estimated cost, chargeable to Technical Support, \$24,100 including travel costs.

A trade union team of 8 members will receive training in the U.S. for a period of

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project #386-41-109	E-1
		Nov.1,1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA		
				COUNTRY ECONOMIC PROGRAM	Trade Union Services		

3 months for the purpose of studying the organization and administration of U.S. unions, with primary emphasis on the services rendered by the central organization to its affiliates and membership. Estimated cost \$13,600. (Local currency - Sec.402 - travel cost, \$14,800).

c. Future Fiscal Years

Funds will be required in FY 1962 to adapt and reproduce locally worker education instructional materials prepared in prototype form by ICA/W. Estimated cost, \$20,000. The continued services of the U.S. technician will be required. (Estimated cost \$24,100; chargeable to Technical Support). Participants for U.S. training will increase to 12 and a team of 8 participants will receive third-country training in the Asian Labor Education Center, University of the Philippines. The estimated dollar cost for the 20 participants totals approximately \$25,000 (local currency travel costs, out of Sec.402 rupees, \$27,500). Thus, the total U.S. dollar contribution in FY 1962, the project's final year, approximates \$45,000.

5. Nature of the Cooperating Country Contribution

The GOI will make a contribution to the project which will include payment of salaries of the participants while on training abroad, the within India transportation costs to and back from Delhi, and other expenses incidental to their departure.

6. Contribution from other Sources and Relationship to Other Projects

The GOI is sponsoring a workers' education program. With the assistance of the Ford Foundation, a team of 8 worker education experts (4 Indians, two Americans, one Briton and one Swede) surveyed the problems and needs in the field of labor education in India. A comprehensive report (copies have been made available to ICA/W) was filed in March 1957. The GOI has accepted the broad recommendations of the report. Forty students have undergone a six-months course of training in labor economics, trade union organization and related subjects and have been assigned to workers' education centers located in ten major industrial cities where they have organized local training programs for workers and union leaders.

The Ford Foundation has not programmed further specific assistance in support of the GOI program. The ILO is planning to provide a workers education expert to work specifically with the GOI program. Since the proposed TCM project furnishes assistance primarily to unions, no conflict with GOI or ILO activities is anticipated.

7. Financial Considerations

The dollar funding for the budget year (FY 1961) includes \$24,000 for one technician (chargeable to Technical Support), \$13,600 for participants, and implies a further and final dollar contribution of \$45,000 in FY 1962. A reduction of U.S. funds would

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-41-109	E-1
				COUNTRY ECONOMIC PROGRAM		Trade Union Services	

result in fewer participants being trained and so nullify, atleast in part, the effectiveness of this project.

8. Cooperating Country - TCM Coordination

This project is scheduled for implementation on a basis less formal than the usual bilateral procedure.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-45-161	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Technical Services to Central and State Ministries of Labor		

1	PROJECT BEGINS FY 1960 ENDS FY 1962	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years																				
B. Net Deob.-Reob.																				
Current Funds																				
Total Actual Year FY																				
C. Operational Year FY 1960	TC	36	-	36	-	-	-	-	22	-	-	22	-	-	-	-	12	-	-	
D. Budget Year FY 1961	TC	62	24	38	-	-	-	-	22	-	-	22	-	-	1	-	12	-	-	
E. All Subsequent Years	TC	62										22	-	-						
F. Total All Years	TC	160										66	-	-						

2	FY Source of Funds	Function of Funds	(A) Total All Prior				(B) Actual Year FY 1959						(C) Operational Year FY 1960						
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60			
	All Prior Years																		
	Actual Year FY																		
	Operational Year FY 1960	TC											36	36	6	30			
	TOTAL	TC	-	-	-	-	-	-	-	-	-	-	36	36	6	30			

Problems Addressed:
 No. IX - Inadequate development and excessive political orientation of trade union movement.
 No.VII - Deficiencies in public administration; improvement of government services which will contribute to industrial peace.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-45-161	E-1
				COUNTRY ECONOMIC PROGRAM			

1. General Description of the Project

This project involves the provision of technical services to the Central and State Ministries of Labor in labor statistics, conciliation and mediation, labor market and employment services information, and labor law administration. Improvement of governmental services in these fields of activity is related to general efforts to modify and upgrade industrial relations practices which will contribute to the maintenance of industrial peace. Reduction in the number of labor disputes is basic to the orderly and steady expansion of industry charted under the Second Five Year Plan. Training of government personnel in these general fields will help to bring about the desired goal.

2. Specific Activity Targets or End Results of the Project

a. To provide training for 36 Indian participants in U.S. concepts and practices in the broad and related fields of labor statistics development, mediation and conciliation, labor market and employment services information, and labor law administration.

b. To assist the Central and State Ministries of Labor to improve governmental services offered in these fields and to develop training programs within India for the training of additional personnel.

3. Progress Toward Achievement of Activity Targets

a. Work Accomplished to Date

This section is not applicable since activity is to begin in FY 1960.

b. Work Remaining to be Done

This project begins in FY 1960 with an expected duration of 3 years. Project elements include the services of one technician, and the training of 36 participants in the U.S. The Central Ministry of Labor and the State Governments in West Bengal, Andhra Pradesh, and Bombay have expressed interest in U.S. training for technical personnel attached to the ministries in the basic fields of activity covered by this project. Informal requests for the training of 12 participants have been received and it is anticipated that the formal requests for one American technician and participants will be submitted to TCM at a later date.

c. Progress Toward Achievement of Progress Targets

None.

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

In its OPAR for FY 1960, TCM/I requested \$36,000 to cover the cost of training 12 participants in the U.S. It is expected that there will be three participants in the field of industrial relations; one in labor law administration; two in occupational

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-45-161	E-1
				COUNTRY ECONOMIC PROGRAM			

analysis; and six in labor market and employment services information. Travel costs amounting to approximately \$22,000 would be financed by U.S. owned local currency.

b. Budget Year

Twelve participants, 4 each in the fields of labor statistics, conciliation, and labor administration to the U.S. for training for a 6-month period in FY 1961. The courses of study offered by the Labor Department in statistics and labor law administration should be utilized as part of their program. Participants in the field of conciliation and mediation will require a thorough knowledge of the principles and practices of conciliation procedure in the U.S. with emphasis on the role played by the states in this field. Estimated cost \$38,400.

Technicians

Services of a Labor Management Relations Advisor (0116.05), FSR-3, \$24,100 per year including travel costs, will be required for a 2-year period commencing in FY 1961 to assist in the development of training facilities in India in the fields of activity covered by this project.

c. Future Fiscal Years

It is expected that this project will be completed in FY 1962 with costs similar to those in FY 1961.

5. Nature of cooperating Country Contribution

GOI contribution for the project will include payment of salaries of the participants while on training abroad, the within India transportation costs to and back from Delhi, and other expenses incidental to their departure.

6. Contribution from Other Sources and Relationship to Other Projects

a. Other Sources

The ILO has provided a short-term advisor to the Government of India to deal with the general subject of industrial relations. TCM understands, however, that the major function of this expert will be to assist the Central Ministry in revising its organizational structure. No conflict with this program, therefore, is expected.

Proposals for TCM and other international agencies' assistance to the Indian Statistical Institute will not overlap with subject project since the development of labor statistics for the Central Ministry is handled by the Labor Bureau, a department of the Ministry of Labor, and similar functions are carried on directly by the State Governments.

b. Relationship to Other Projects

There is no direct relationship to any other project.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED Nov.1,1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-45-161	E-1
				COUNTRY ECONOMIC PROGRAM		Technical Services to Central and State Ministries of Labor	

7. Financial Considerations

The funding for the budget year (FY 1961) of some \$62,500 (\$38,400 for participants' training and \$24,100 for one U.S. technician) and a like amount for FY 1962 will, in all likelihood, terminate the project. Should funds not be available in the amounts contemplated, the project would be cut back, and the effectiveness of the undertaking lowered accordingly. There is no pipeline.

8. Cooperating Country - TCM Coordination

The plans formulated in this E-1 are based upon proforma requests received from the Central and State Ministries of Labor, and consultations between the Labor Office of TCM and the Labor Ministry of the GOI.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED Sept. 4, 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-42-179	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Bombay Central Training Institute for Craftsmen and Instructors		

1	PROJECT BEGINS FY 61 ENDS FY 64	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Contract	Contract	Non-Contract U.S.	3rd Country
A. All Prior Years																			
B. Net Deob.-Reob. Current Funds																			
Total Actual Year FY 59																			
C. Operational Year FY 60																			
D. Budget Year FY 61	TC	760	-	-	560	200	-	-									14		
E. All Subsequent Years	TC	280																	
F. Total All Years	TC	1,040																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY					
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/		
Dollar Obliga- tion and Expend- iture	All Prior Years																	
	Actual Year FY 59																	
	Operational Year FY 60																	
	TOTAL																	

Problems Addressed:

No. VI - Insufficient human resources educated to meet the needs of modern India;
growing shortage of skilled workers.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED Sept. 4, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project #386-42-179	E-1
				COUNTRY ECONOMIC PROGRAM			

1. General Description of the Project

The purpose of this project is to help the Ministry of Labor of the Government of India establish a training center for craft instructors in the heart of a newly developing industrial area some seven miles from the heart of Bombay. The GOI has already acquired the land and will finance the construction of the buildings, consisting of workshops, administrative offices, and students' hostel. After final approval of the proposed training center by the GOI, TCM formally will be requested to furnish workshop equipment, books, and technicians. Present plans call for the school to be operating at capacity, 212 instructor trainees (425 annually), sometime in calendar 1961.

The purposes of the Central Training Institute, as stated by the Ministry of Labor and Employment, are three-fold:

1. to improve the efficiency of the instructors employed in institutions of the Central and State Governments, and in private institutions and industrial establishments, by giving them a course of theoretical and practical instruction in their respective trades, and in the art of teaching;
2. to train new instructors to meet the needs of existing institutions, and of new institutions to be started under development plans, both government and private; and
3. to provide a refresher course for instructors with a view to ensuring that they are always up-to-date and conversant with the latest methods of production and teaching.

The expansion of industry in India is creating an increased demand for skills in the industrial work force. Manpower studies of the GOI (based on Second Five Year Plan requirements) forecast an estimated demand for about 125,000 additional craftsmen each year to meet the needs of large scale, medium scale, and cottage industries. Because of the two year course of training, facilities for training 250,000 students are required to meet this goal. At present, training facilities are available for 34,000 students. Present plans call for this figure to be upped to 45,000 by 1961 and to 145,000 by 1964. To instruct this number of students, which is far short of the 250,000 target mentioned above, more and better trained instructors, as well as workshop equipment, are needed.

The GOI estimates that each craft instructor can teach, on the average, 15 students. By 1964, to provide teachers for the additional 111,000 students, it is estimated that 7,400 more instructors will be required. If instructor training facilities are expanded as contemplated by the GOI, with the assistance of the International Labor Organization and ICA, about 7,000 craftsmen instructors will have been trained. Nevertheless, because of instructor losses over the years, a shortfall is very likely to occur.

It is planned that the Central Training Institute for Instructors will have a capacity of 212 instructor trainees who will undergo a five and one-half month period of training in the following trades:

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project #386-42-179	E-1
		Sept. 4, 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA		
				COUNTRY ECONOMIC PROGRAM	Bombay Central Training Institute for Craftsmen and Instructors		

SEATING CAPACITY

<u>Trade</u>	<u>Seats (work stations)</u>
Blacksmith	16
Draftsman (Civil)	12
Draftsman (Mechanical)	12
Electrician	12
Fitter	32
Grinder	12
Mechanic (Instrument)	12
Machinist	12
Mechanic (Motor)	12
Moulder	16
Sheet Metal Worker	16
Turner	12
Welder (Electric arc & Oxy-acetylene)	24
Wood Worker	12
Total	<u>212</u>

The instructor-trainees will live on the premises, and hostel accommodations and other amenities will be provided. To enable the instructor-trainees to obtain practice teaching, an Industrial Training Institute having a capacity of 236 craftsmen trainees as noted below, will be attached to the Central Institute.

SEATING CAPACITY

<u>Trades</u>	<u>Seats (work stations)</u>
Blacksmith	16
Draftsman (Civil)	16
Draftsman (Mechanical)	16
Electrician	16

<u>Trade</u>	<u>Seats (work stations)</u>
Fitter	32
Grinder	12
Mechanic (Instrument)	16
Machinist	12
Mechanic (Motor)	16
Moulder	16
Sheet Metal Worker	16
Turner	12
Welder (Electric Arc & Oxy-acetylene)	24
Wood Worker	16
Total	<u>236</u>

The Central Training Institute and the Industrial Training Institute will be independent, each having its own staff. The working hours of the craftsmen trainees and the instructor-trainees, however, will be so arranged that workshops and class rooms can be used by both craftsmen and instructor trainees.

TCM is expected to provide a team of experts, equipment, (such as grinders, lathes, etc), and library books, for the Central Training Institute. The workshop equipment will be used for both the Central Training Institute and the Industrial Training Institute. The American technicians will concern themselves mainly with their counterparts and the instructor-trainees, the staff for the Industrial Training Institute being provided by the Government of India.

2. Specific Activity Targets or End Results of the Project

Establishment by 1964 of the Bombay Central Training

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project #386-42-179	E-1
		Sept. 4, 1959		UNCLASSIFIED	INDIA		
				COUNTRY PROGRAM		Bombay Central Training Institute for Craftsmen and Instructors	

Institute for Craftsmen and Instructors with a well trained, smoothly functioning administrative and teaching staff.

3. Progress toward Achievement of Activity Targets

a. Work Accomplished to Date

i. GOI has acquired near Bombay a low lying 32 acre site of which about five acres have been filled in.

ii. Some of the Indian staff (including the Principal) for the Bombay Institute have been recruited and are now functioning at the temporary center in Aundh.

iii. Inapplicable to TCM since project is scheduled for FY 1961 and has not been approved by ICA/Washington.

b. Work Remaining to be Done

i. The role of TCM has yet to be formally stated by GOI. TCM has been unofficially informed, however, that it will be requested to furnish 14 technicians for three years from calendar 1961; books and equipment (lathes, grinders, etc) valued at approximately \$200,000 are to be delivered early in 1961.

ii. Completing the landfill, driving piles, and erecting the buildings -- all the responsibility of the GOI - have yet to be done.

c. Progress toward Achievement of Project Targets

Inapplicable since project is scheduled for FY 1961.

4. Nature of the U.S. Contribution

It is estimated that the cost of this project to the U.S. will total \$1,040,000 including \$200,000 for commodities and \$840,000 for 14 technicians over a period extending from FY 1961 to 1964. There have been no expenditures to date.

a. Budget Year

In FY 1961, TCM plans to provide the services, under contract, of one Chief Trades and Industrial Education Advisor, 1710.09, for 12 months; 13 Trade and Industrial Education Advisors, 1710.10, in the various trades to be taught, for three months; and equipment valued at approximately \$200,000. It is expected that the services of the 14 technicians will be required for three years in order fully to train their Indian counterparts.

Cost of Technicians

Contract (2 years funding) for 14 technicians @ \$20,000 per year, total \$560,000.

Other Costs

Books and shop equipment are to be selected by the GOI with the assistance of the Chief

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				COUNTRY ECONOMIC PROGRAM			

Advisor and will cost about \$200,000, which, according to Dr. Sidney C. High, Jr., (Industrial Education Specialist, USOM to Vietnam, on TDY to TCM/India in July 1959), should be adequate for the size of the teaching plant and the proposed number of students.

Special Fund for assistance in establishing a 400 craftsmen-instructor Central Training Institute in Calcutta similar to the one in Bombay. The Special Fund will finance the equipment and furnish the foreign technicians; as in the Bombay project, the GOI will supply the land and erect the buildings. Estimated costs of this project are as follows:

5. Nature of Cooperating Country Contribution

The GOI estimates its own non-recurring costs in establishing the Bombay Institute as follows:

	Rupees	Approximate dollar equivalent*
a. Land and Building	7,200,000	1,532,000
b. Furniture	47,000	10,000
c. Freight and Installation		
Charges on Equipment	<u>Rs. 40,000</u>	<u>\$ 8,500</u>
Total	<u>Rs. 7,287,000</u>	<u>\$ 1,550,500</u>

The portion of the above non-recurring expenses to be borne by GOI during the U.S. Fiscal Year 1961 is not known; some of the expenses were incurred in FY 1959, some will be incurred in FY 1960, and the bulk of expenditures in FY 1961. Recurring direct expenses have been estimated by the GOI at Rs. 743,800 (\$158,000) annually when the school is in full operation with 212 instructor trainees and 236 craftsmen trainees.

6. Contribution from other Sources and Relationship to Other Projects

a. Other Sources

The GOI has applied to the United Nations

GOI

Rupees Apprx: dollar equivalent*

Non-recurring

a. Building cost (land is free)	5,903,000	1,247,392
b. Furniture	82,000	17,327
c. Freight & Installation		
Charges on Equipment	<u>Rs. 215,000</u>	<u>\$ 45,431</u>
Total	<u>Rs. 6,200,000</u>	<u>\$ 1,310,090</u>

Recurring

Training expenses per year Rs. 1,028,000 \$ 217,221

U.N. Special Fund

a. Cost of tools & equipment	1,720,000	363,000
b. Cost of books for library	65,000	13,700
c. Cost of 14 experts for 3 years, ● \$13,800 per year less 10% for unfilled positions	<u>2,483,000</u>	<u>525,000</u>
Total cost to UN Special Fund:	<u>Rs. 4,268,000</u>	<u>\$ 901,700</u>

In addition to the Calcutta and Bombay projects which are to be completed in 1961, the GOI is making plans for similar institutes to be established at a later date in the cities of Madras and Kanpur.

*\$1 equals Rs. 4.7

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				COUNTRY ECONOMIC PROGRAM		Bombay Central Training Institute for Craftsmen and Instructors	

7. Financial Considerations

This is a new project for which no ICA funds have been obligated. The GOI contributions are from national revenue, and the project is included in the Second Five Year Plan. It is considered very unlikely that GOI funds will not be made available for the Bombay Central Training Institute or for the one in Calcutta because both are essential to India's economic development.

The funding proposed for the Budget Year 1961 includes commodities for the entire three year project, and the sum of \$560,000 for the first two years of the contract technician team. Further financing would consist of \$280,000 only for the team's last year, thus completing the U.S. contribution to the project.

8. Cooperating Country - TCM Coordination

The plans embodied in this E-1 are based upon worksheets prepared by the Office of the Director of Training of the Ministry of Labor. They have not yet been formally approved by the GOI. Dr. Sidney High examined the worksheets, viewed the proposed Bombay site and school in Aundh, and verbally approved the overall plan as sound. Mr. Chester L. Sterling, TCM Trades Training Advisor, had earlier recommended such a central trades training institute to the GOI.

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E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> REVISION NO. 1	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-52-025	E-1
	COUNTRY ECONOMIC PROGRAM				PROJECT TITLE National Water Supply and Sanitation Program		

1	PROJECT BEGINS FY 53 ENDS FY 65	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contribu-tions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper-ating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	6,457	233	21	-	6,203													
B. Net Deob.-Reob.	TC	(240)	5	1	-	(246)													
Current Funds	TC	111	83	13	-	15													
Total Actual Year FY 1959	TC	(129)	88	14	-	(231)			2						4		3		
C. Operational Year FY 1960	SA 1/ TC	88	57	16	-	15			7						2		3		
D. Budget Year FY 1961	TC 2/ TC	599	87	31	450	30	1		11						5		6		
E. All Subsequent Years	TC	418																	
F. Total All Years	TC	7,433											3,150,000						

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/ 58	(2) Un-Sub-Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/ 59	(5) Total Available for Expenditure 59	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/ 59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/ 60
All Prior Years	TC		6,070	-	387	(240)	(240)	(240)	-	147	142	5		5	5	-
Actual Year FY 1959	TC					111	111	111	-	111	69	42		42	25	17
Operational Year FY 1960	TC												88	88	48	40
TOTAL	TC		6,070	-	387	(129)	(129)	(129)	-	258	211	47	88	135	78	57

Problems Addressed: VIII - The High Prevalence and Incidence of Disease and Physical Disability.

Footnotes 1/ and 2/: \$450,000 for Calcutta water supply contract included for TC funding in FY 61; in the event SA funds become available for this purpose implementation is proposed during FY 60 (per TOICA A-494)

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-52-025	E-1
		1 November 1959	<input checked="" type="checkbox"/> REVISION NO. /	Unclassified	India		
				COUNTRY ECONOMIC PROGRAM	National Water Supply and Sanitation Program		

1. General Description of the Project

This project is aimed at demonstrating methods of developing, organizing and implementing water supply and human waste disposal improvements in urban and rural areas. India suffers an annual toll of 2,000,000 deaths and 50,000,000 cases of illness from water and filth-borne diseases. Water supply and human waste disposal improvements will go far in bringing these diseases under control. In the initial stages of the project (1954-57) TCM technicians conducted direct operations as members of the Central Ministry of Health (MOH) staff. Substantial commodities (\$5,966,000) were furnished during this period and six key personnel of the central and state public health engineering departments received participant training. More recently, with successful recruitment of Indian counterparts, the program has tended to become one of technical assistance as required (1) in the development of organization (2) in the implementation of water supply and waste disposal improvements in urban and rural areas and (3) in the development of public health engineering programs, including research, administration and demonstration, for eventually bringing the water and filth-borne diseases of India under control. Participant training has continued (3 in 1959) and commodities have been reduced to a nominal level (\$15,000 in 1959).

In April, 1958 a Director was appointed to a newly authorized Central Public Health Engineering Research Institute (CPHERI) in the Council of Scientific and Industrial Research (CSIR) of the Ministry of the Scientific Research and Cultural Affairs. Prior to that time TCM assistance under this project was furnished almost entirely to or through the Central Public Health Engineering Organization (CPHEO) of the Ministry of Health. Advisory assistance has been furnished to the new institute from the start. In August 1959 an informal proforma was received requesting two technicians for CIPHERI. Commodities in the form of laboratory equipment (\$10,000 has been furnished through the MOH. Following

informal discussions, participants from CIPHERI have been included in the TCM FY 1961 program. In the past, urban environmental health research in India has been confined to limited activities at universities and in connection with specific projects. Rural area environmental health research has been conducted by a number of GOI and foreign agencies. The new institute is expected (1) to serve a research coordinating function among university, government and other research organizations, (2) to support research by universities, municipal corporations and others and (3) to conduct research itself both at its headquarters at Nagpur and at field stations established in various parts of India. Modification of American and European water supply and sanitation practices to be suitable under Indian conditions will receive major attention. The TCM program contemplates assistance to the new institute to the end that it will become effective on a sound basis.

A major new sub-project activity is proposed for implementation under the National Water Supply and Sanitation Operational Agreement (No. 25). This activity would provide (on basis of Government of West Bengal request which was endorsed by GOI in August 1959) for a team of experts to study, over a 2-year period, the technical, administrative, legal and financial aspects of the Greater Metropolitan Calcutta water supply, sewerage and drainage problems and develop a report which would conclude with alternative solutions to these Calcutta problems with estimates of cost and recommendations. In the event SA funds become available for this purpose implementation is proposed in FY 1960; however in this E-1 presentation of the activity is included for FY 1960 TC funding.

For purposes of convenience, discussions of the program under the two ministries (Ministry of Health - CPHEO; Ministry of Scientific Research and Cultural Affairs - CIPHERI) have been placed in separate sections of this E-1. Table No.1 shows the cost of programs from their initiation to the end of the project. Table No.2 outlines assignments from 1960 to the end of the project.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-52-025	E-1
		1 November 1959	<input checked="" type="checkbox"/> REVISION NO. 1	Unclassified	India		
				COUNTRY ECONOMIC PROGRAM	National Water Supply and Sanitation Program		

Table No.1
(Cost of TCM assistance in \$1,000s)

FI	Participants No.	Cost	Technicians No.	Cost	Commodi- ties	Contracts	Total
<u>Central Public Health Engineering Organization</u>							
54-59	-	35	-	321	5972	-	6328
60	3	16	5*	57	6	-	79
61	3	15	3	43	-	450**	508
62-65	9	63	3***	92	-	-	155
		<u>129</u>		<u>513</u>	<u>5978</u>	<u>450</u>	<u>7070</u>

Central Public Health Engineering Research Institute

Prior 60	-	-	-	-	-	-	-
60	-	-	-	-	9	-	9
61	3	16	2	44	30	-	90
62-65	8	42	2	128	90	-	260
		<u>58</u>		<u>172</u>	<u>129</u>		<u>359</u>

Combined total		<u>187</u>		<u>685</u>	<u>6107</u>	<u>450</u>	<u>7429</u>
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* Includes 3 consultants for 3 months (\$25,000)

** Funding should, if possible, be in the 1960 program. However, the item is included here in 1961.

*** Includes one 1962 and one 1963 short term consultant

Table No.2

Technician Assignments

Central Public Health Engineering Organization

Position title	Pos #	Grade	ETA	ETD	Cost (in \$1,000s)
<u>1960</u>					
Sanitarian - Rural) San. Research)	152	R-4	June 56	Nov 60	16
Well Drilling Advisor	154	R-4	June 56	Oct 60	16
San. Eng. Consultant) Team (3))		R-3	Jan. 60	Mar 60	25
<u>1961</u>					
Sanitarian - Rural) San. Research)	152	R-4	June 56	Nov 60	14
Well Drilling Advisor	154	R-4	June 56	Oct 60	14
State Advisor PHE		R-3	3/61	3/65	15
<u>1962</u>					
State Advisor PHE		R-3	3/61	3/65	18
PHE Consultant (3 mos)		R-3	4/61	1/62	8
<u>1963</u>					
State Advisor PHE		R-3	3/61	3/65	20
PHE Consultant (3 mos)		R-3	4/62	1/63	8
<u>1964-65</u>					
Phasing out cost of technicians					38

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				COUNTRY ECONOMIC PROGRAM		National Water Supply and Sanitation Program	

Table No.2 (contd.)

Central Public Health Engineering Research Institute

<u>Position title</u>	<u>Pos #</u>	<u>Grade</u>	<u>ETA</u>	<u>ETD</u>	<u>Cost (in \$1,000s)</u>
<u>1961</u>					
PHE Advisor (Investigations)		R-3	1/61	1/65	26
Instrumentation Advisor		R-3	4/61	4/65	18
<u>1962</u>					
PHE Advisor (Investigations)		R-3	1/61	1/65	18
Instrumentation Advisor		R-3	4/61	4/65	20
<u>1963</u>					
PHE Advisor (Investigations)		R-3	1/61	1/65	20
Instrumentation Advisor		R-3	4/61	4/65	18
<u>1964-65</u>					
Phasing out cost of technicians					52

Central Public Health Engineering Organization

1. General Description of the Project

See combined discussion in initial section of this E-1.

2. Specific Activity Targets or End Results of the Project

The specific activity target or end result under Indo-American Agreement No.25 of 1954 is best stated in the report of 1946 of the Health Survey and Development Committee (Ehore Committee) as follows: "Development of a water supply programme, which should aim at providing the entire population ... with safe water for drinking and domestic purposes within a period of about 35 years ... Technical bodies should be established in order to assist the Government in the planning and execution of water and drainage schemes on a comprehensive scale". In working toward this target, TCM serves in a supporting and advisory capacity and has sub-targets and utilizes techniques as follows:

- (1) Set up competent Central Government and State Organizations to carry out the National Water Supply and Sanitation Program.
- (2) Furnishing scarce commodities (pipe, drilling rigs, laboratory equipment) pending availability in India.
- (3) Training in India of necessary State and local sanitation personnel. While training is at all levels, stress is placed on training of Sanitary Inspectors, water plant operators and other personnel normally below the university level.
- (4) Participant training of key members of CPHEO and State public health engineering staffs and others. Younger engineers may receive academic training while experienced engineers may be given shorter term training to observe American practices.

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				COUNTRY ECONOMIC PROGRAM		National Water Supply and Sanitation Program	

(5) Establishment of coordination between government and other agencies operating in the water and drainage fields. In time, inter-ministry agreements may be developed.

(6) Establishment of Design Standards and Manual of Practice for water sewage and sanitation activities. These will be developed by sections, the first section adopted in 1960 and the final section in 1962.

(7) Participation in conferences and service on committees relative to environmental hygiene problems.

(8) For the Calcutta Metropolitan Area a preliminary report on the water supply, sewerage and drainage problems including alternative solutions of local problems with estimates of costs and recommendations for the most economical solutions based on an assessment of the technical, administrative, legal and financial aspects.

3. Progress Toward Achievement of Activity Targets

a. Work accomplished to date

(1) The establishment of the organizational framework of Central Government and State organizations in the public health engineering field to carry out the broad water supply and sanitation program is largely accomplished. All states have public health engineering staffs but not always in the Health Ministry.

(2) Cast iron pipe is being utilized as rapidly as necessary connecting fittings and other specials become available from indigenous sources. In connection with the well drilling rigs, continued efforts are being made to develop state programs and to train operators. Recent progress has been made in utilization of rigs through transfer of idle rigs to areas in need and making requests.

(3) A graduate course in public health engineering is conducted at the All India Institute of Hygiene and Public Health at Calcutta where the first public health engineering professor was furnished by TCM. A second course is being conducted at the Engineering College at Guindy near Madras. CPHEO has conducted six weeks courses: one for sanitary inspectors (35 students) and two for water plant operators (50). Sanitarians (approx. 250) have also been trained at the Orientation Training Centers (GOI). Sanitarian training is planned at the rural institutes of higher education (Community Development and Ministry of Education).

(4) Eight key staff members of CPHEO and state public health engineering organizations received participant training through 1958, three receiving training this year.

(5) Progress is being made within the GOI in coordination between government agencies interested in water supply and sanitation thru membership of representatives of the CPHEO on inter-agency committees at the Central Government level, such as the Indian Standards Institute and the National Building Organization. In rural sanitation a TCM technician accomplishes coordination by

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E-1	FORM ICA 18-120 (4-59) Continuation Sheet	DATE PREPARED	<input type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-52-025	E-1
		1 November 1959	<input checked="" type="checkbox"/> REVISION NO. 1	Unclassified	India		
				COUNTRY ECONOMIC PROGRAM	National Water Supply and Sanitation Program		
<p>periodically visiting all major rural sanitation study projects in India and exchanging information. A CPHEO representative to take over this function is being discussed. This coordination needs to be further expanded at the State level between State public health engineering organization and other state agencies.</p> <p>(6) Progress is under way, through a GOI Committee on the preliminary draft of a manual of design standards and practice in water supply and sanitation for the use of State and municipal authorities. A draft section of the manual (water supply section) has been completed.</p> <p>(7) TCM personnel continue to participate in conferences and on committees and to present technical papers for publication in Indian journals. TCM technicians delivered two papers at a CPHERI symposium on septic tanks and sludge digestion in Bombay in July 1959 and a paper is being prepared for a symposium on well drilling to be held in Calcutta in January 1960.</p> <p>(8) TCM is represented on a Calcutta Metropolitan Committee which is preparing for a WHO expert team due in October 1959. The WHO team will make preliminary studies to serve, among other purposes, to outline the detailed studies to be conducted by the TCM team.</p> <p>b. <u>Work Remaining to be Done</u></p> <p>The technical support program is a continuing one. CPHEO is now well established although support is called for in special fields, such as policy and program review and development of design standards for water and sanitation facilities. Specific items are enumerated as follows:</p> <p>(1) The work of reinforcing and assisting the Central and State Public Health Engineering Organizations is continuing. Future reinforcing may well be through specialists (Industrial waste advisor, radiological health advisor, etc.) assigned for short periods.</p> <p>(2) Continued effort is needed to improve the utilization of TCM commodities already in India. Future commodities will consist of greatly needed laboratory equipment.</p> <p>(3) Additional sanitation training facilities, preferably provided through expansion of existing facilities are needed particularly for sanitarians working in the villages.</p> <p>(4) Two key personnel of CPHEO and one from the States are proposed for participant training in the coming year. Future participants (3 each year) will be drawn from the State and local staffs.</p> <p>(5) Coordination between government agencies interested in the field of water supply should be extended to the state levels.</p> <p>(6) Progress in development of a manual of design standards for water and sewerage facilities is greatly in need of acceleration.</p> <p>(7) Participation in sanitation conferences, on committees and through preparation of papers is a continuing need.</p> <p>(8) The TCM engineering contract for a Calcutta Metropolitan water and drainage study and report is urgently needed. The local situation at Calcutta is critical.</p>							
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> REVISION NO.1	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-52-025	E-1
				COUNTRY ECONOMIC PROGRAM		National Water Supply and Sanitation Program	

c. Progress toward Achievement of Project Targets

Assistance in the development of the National Water Supply and Sanitation Program has been provided under Project 386-52-025. The status of the program as of June 1, 1959 was as follows:- 228 rural schemes (50% grant) have been approved covering a total of 9871 villages; and 308 urban schemes (GOI loans) have been approved. When completed these projects will cost an estimated \$178.68 million (Rs. 85.21 Crores) of which 80.6 million (Rs. 38.38 Crores) of GOI funds plus unreported but substantial local funds have been expended. (See Table No. 3)

Table No. 3

Status of National Water Supply & Sanitation Schemes as of June 1, 1959

	Rural		Urban including Corporation		Total	
	No. of Schemes	No. of Villages	Dollar Million	Rupees Crores	Dollar Million	Rupees Crores
No. of Schemes	228				535	
No. of Villages	9871					
Cost						
Total Estimated of Approved Schemes	37.46	17.84	141.48	67.37	178.94	5.21
GOI Paid - 1st Plan	5.88	2.80	17.41	8.29	23.29	11.09
GOI Paid - 2nd Plan	10.37	4.94	46.93	22.35	57.30	27.29
GOI Total Paid	16.25	7.74	64.34	30.64	80.59	38.38

In addition unreported but substantial State and local funds have been expended.

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

In 1951 the Government of India provided limited funds for Water Supply and Sanitation facilities. In 1952 the first Technical Cooperation Mission Public Health Engineering Advisor was provided. In 1954 Operational Agreement No. 25 was signed and the GOI Central Public Health Engineering Organization was sanctioned to be directed by TCM Advisors for the first three years until 1957 when the Deputy Director General (Public Health Engineering) reported for duty. Under this organization the National Water Supply and Sanitation Program was developed. Commodities have been provided by TCM at a total cost of 6.2 million or 7.4% of the cost of approved schemes. Cost of TCM assistance to CPHEO through FY 1959 is estimated at \$6,328,000 as shown on Table No. 1.

b. Operational Year

In FY 1960 TCM is providing 2 technicians now on duty. In addition a Calcutta Water supply and drainage consultant contract is contemplated with a cost over a period of approximately 2 years of \$450,000 (proposed for Special Assistance funding in FY 1960 should adequate SA funds become available). Other provisions include 3 participants, \$6000 for commodities mostly training laboratory equipment, and \$25,000 for 3 consultants for 3 months to review the National Water Supply and Sanitation Program. In addition Section 402 rupees equivalent to \$7,000 will be required for international travel (\$6,000) and miscellaneous local purchases (\$1,000). Total dollar

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			<input checked="" type="checkbox"/> REVISION NO. 1	COUNTRY ECONOMIC PROGRAM	National Water Supply and Sanitation Program		

cost of assistance to CPHEO, including assistance to the State of West Bengal for 1960 is estimated at \$529,000 (\$450,000 - S.A.; \$79,000 TC).

c. Budget Year

For FY 1961 proposes to provide three technicians including 2 now on duty plus one to report during the year. Other provisions include 3 participants and other costs of \$1,000. The total dollar cost for assistance to CPHEO for 1961 is estimated at \$59,000. \$450,000 TC funds are requested in FY 1961 to fund Calcutta contract should Special Assistance funds for this purpose not become available in FY 1960.

Technicians

Well Drilling Advisor (P.W. Bradfield) Position No. 154, S-3 assists in utilization of well drilling rigs by visiting rigs assigned to the States and furnishing technical assistance and training as requested. ETD November 1960. No replacement contemplated.

Sanitarian Advisor (W.E. Palmer) Position No. 152. Develops and participates with others in the development of rural sanitation facilities design. Acts as coordinator in research in this field not only within the GOI but also for activities of others including the Ford Foundation, WHO, UNICEF, Friends Group. ETD October 1960.

Public Health Engineer, R-3 advisor to State probably in West Bengal in connection with Calcutta Metropolitan problem contract. ETA 3/61.

A team of three consultants for a period of three months is planned to review and report on the technical and administrative aspects of the GOI National Water Supply and Sanitation Program. ETA December 1959, ETD March 1960. Cost \$25,000.

Engineering Contract

The Government of West Bengal proposes a dual purpose scheme for the Calcutta Metropolitan area of, first, elimination of cholera through the provision of a safe water supply and adequate sewage and, second, solution of broad allied problems of arresting siltation and salt water encroachment in the Hooghly River. A WHO specialist team will make a necessarily brief study of the situation (ETA October 11, 1959) and will prepare the way by defining the problems for a TCM contract consulting engineer firm to make a comprehensive study and report with alternate solutions of the problem, estimate of cost and recommendations, for the most economical solution. Estimated cost of the contract is \$450,000. ETA as soon as possible, preferably in FY 1960 following soon after the WHO report which should be available in December.

Participants

A level of 3 participants a year; members of the GOI and State public health engineer staff is proposed.

Commodities

No additional commodities are contemplated after 1960.

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Other Costs

For experimental items of rural sanitation equipment \$1,000.

d. Future Fiscal Years

The future cost for all elements of the CPHEO element of this project for the years 1962-1965 is estimated at \$158,000 as shown on Table No. 1.

5. Nature of Cooperating Country Contribution

The GOI in 1954 established the CPHEO which now has a professional engineering staff of 9 plus supporting personnel. There are two vacancies to fill and it is expected that additional engineers will be added to the staff. The total needs in India for water supply and sewerage systems under the National Water Supply and Sanitation Program is estimated at Rs. 1500 Crores (\$3.15 Billion). Funds provided by GOI as of June 1, 1959 for construction under this program are given in Table No. 3.

In connection with the Calcutta Project, the Government of West Bengal has appointed an Advisory Committee, hired a chief engineer and staff, has obtained quarters and is making preparatory studies for both the WHO and TCM consultant teams.

6. Contribution from Other Sources & Relationship to Other Projects

In the urban water supply and sanitation field there is only limited foreign activity other than by TCM. A preliminary study team on the Calcutta problem is being supported by WHO at a cost on the order of \$25,000. Close coordination with TCM is being maintained. A Public Health Engineer professor has been furnished (position now vacant) by WHO to Guindy College near Madras.

Water supply development activity is pursued not only in this project but also in TCM projects connected with irrigation (86-12-006 and 86-12-012). Relations between this project and irrigation projects both in TCM and in GOI receive careful attention.

In rural areas and villages, water supply and human waste disposal activities are supported by various agencies. To prevent duplication a TCM technician is assigned, is looked to, and has successfully maintained, close coordination in the various research activities. Agencies involved and their activities include the following:

- WHO - Public health Engineering teaching. Latrine development demonstration and administration
- UNICEF - Aid in provision of school water facilities and latrines (\$600,000).
- FORD FOUNDATION - Latrine research, development and promotion.
- AMERICAN FRIENDS SERVICE COMMITTEE- & OTHER RELIGIOUS GROUPS - Aid and sponsorship of well and latrine construction by villages.
- GOI PROGRAMS - Research and aid programs by various organizations such as Community Development, Indian Council of Medical Research, Council of Scientific and Industrial Research and others.

Close working relations are maintained with all of these organizations. For example, in Community Development (CD) (386-81-008) (a) assistance was furnished in training CD

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public health workers at CD training centers, (b) a training course for village level workers in sanitation was developed and (c) technical guidance and demonstrations in sanitation were furnished.

7. Financial Consideration

The National Water Supply and Sanitation Project originally provided a substantial item of support commodities. Despite the fact that the need if anything has increased, all construction and material costs are being met by the GOI and States and local governments.

The aim in India is to make water supply and sanitation projects self supporting and progress is being made in this direction. The U.P. and Madras State Governments have adopted this policy and the Chief Ministers of West Bengal and Mysore indicated support for this policy.

8. Cooperating Country - TCM Coordination

The plans embodied in this E-1 are under continuing discussion with the MOH and in ~~the~~ general have their agreement.

CENTRAL PUBLIC HEALTH ENGINEERING RESEARCH INSTITUTE

1. General Description of the Project

See initial discussion in combined section of this E-1.

2. Specific Activity Targets or End Results of the Project

Establishment of a sound program of research and demonstration in environmental sanitation in the Central Public Health Engineering Research Institute (CPHERI) through

technical consultation and assistance, training and limited commodity support.

3. Progress Toward Achievement of Activity Targets

a. Working Accomplished to-date

On invitation of CPHERI, technical symposia have been attended and papers presented. On invitation, consultation visits have been made to the CPHERI headquarters (the most recent in September 1959) and branch research facilities. Commodities have been ordered through CPHEO to assist in establishing the research facility. Limited commodities (a 20°C incubator, bacteriological laboratory equipment) have been delivered.

b. Work Remaining to be done

The Research Institute has requested two technicians who will furnish consultation and assistance particularly on methods and results of similar U.S. research facilities and in reports of results obtained in the U.S. and other locations. Future participants are expected to work for a year or more with the institute before being assigned to participant training. Commodities in the form of laboratory and experimental equipment will continue as an urgent need of the new institute.

c. Progress Toward Achievement of Projects Targets

Research in environmental sanitation is under way (Sewage treatment in stabilization ponds at low cost higher rates of water filtration). Consultation with U.S. technicians is on a sound basis and the flow of U.S. technical information to CPHERI is well under way. Two issues of a CPHERI Bulletin have been published.

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				COUNTRY ECONOMIC PROGRAM		National Water Supply & Sanitation Program	

4. Nature of U.S. Contribution

a. Previous Years

In FY 1959 to a lesser degree in FY 1958 advisory assistance was furnished in connection with the organization of the Central Public Health Engineering Research Institute.

b. Operational Year

In FY 1960 the program includes one technician and limited commodities in the form of laboratory and experimental investigation equipment (\$9,000).

c. Budget Year

In FY 1961 TCM proposes to provide two technicians on duty at Nagpur. Other provisions include 3 participants and commodities, largely laboratory equipment, valued at \$30,000. Total cost of TCM assistance to CPHERI for FY 1961 as shown in Table No. 1 is estimated at \$90,000.

Technicians

Public Health Engineer, R-3 specialized in public health engineering research and investigations to assist in organizing and development a program of investigation and study of problems confronting the National Water Supply and Sanitation and allied program including adaptation of known techniques to Indian conditions. Informal proforma received. ETA 4/60.

Instrumentation Engineer, R-3 with competence in the fields of instrumentation training and the manufacture and maintenance of laboratory instrumentation. Will be

expected to assist in developing suitable instruments of indigenous materials for the analysis of water and sewage and in developing equipment for the day to day operation of water and sewage plants. Informal proforma makes specific mention of knowledge of the McIlroy water distribution system network analyzer and photo electric aquatesting analyzer. ETA 1/61.

Participants

The CPHERI has not previously sent participants and it is proposed to provide 3 per year for 4 years starting in FY 1961. These participants should be drawn from the staff of CPHERI or from other public health engineering research organizations thus providing a firm foundation of competent trained staff in public health engineering research.

Commodities

Because of the great needs of a new Research Institute for laboratory equipment and experimental water and sewage and treatment items it is proposed to provide \$30,000 during FY 1961 for this purpose.

d. Future Fiscal Years

It is contemplated that the two technicians reporting in 1961 will serve two tours each. Three participants per year and commodities valued at \$30,000 are planned each year for four years. The estimated future costs from 1962 to 1965 for all elements of assistance to CPHERI as shown on Table No. 1 are estimated at \$260,000.

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5. Nature of Cooperating Country Contribution

Although CPHERI is less than 18 months old, a staff of about 20 scientists plus supporting personnel has been gathered, equipment has been purchased, and land for a permanent institute building and staff quarters has been acquired in Nagpur.

6. Contribution from Other Sources & Relationship to Other Projects

Under the UN Special Project Fund, a limited amount of laboratory equipment is expected to be provided. This equipment plus TGM equipment falls far short of the total needs. Coordination is maintained.

7. Financial Consideration

The major costs of land, building staff quarters and equipment for the Institute is being supplied by the GOI. The support has been substantial.

8. Cooperating Country - TCM Coordination

The plans embodied in this E-1 are under continuing discussion with the Central Public Health Engineering Research Institute and in general have their agreement.

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		1 November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-54-123	
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE MEDICAL EDUCATION		

PROJECT BEGINS FY ENDS FY	Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
															Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	326	6	293	-	27	-											
B. Net Deob.-Reob.	TC	82	1	81	-	-	-											
Current Funds	TC	171	34	82	-	55	-											
Total Actual Year FY 1959	TC	253	35	163	-	55	-								7		31	
C. Operational Year FY 1960	TC	298	72	156	-	70	-	55							4*		28	
D. Budget Year FY 1961	TC	959	120	270	480	84	5								10**	6	50	
E. All Subsequent Years	TC	2578																
F. Total All Years	TC	4414																

FY Source of Funds	Function of Funds	(A) Total All Prior				(B) Actual Year FY 1959							(C) Operational Year FY 1960			
		(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(4) Actual Obligations During FY 59	(5) Total Available for Sub-Oblig.	(6) Sub-Obligated in FY 59	(7) Un-Sub-Obligated 6/30/59	(8) Total Available for Expenditure	(9) Actual Expenditure in FY 59	(10) Unliquidated Obligations 6/30/59	(11) Estimated Obligations in FY 60	(12) Total Available For Expenditure	(13) Estimated Expenditures in FY 60	(14) Unliquidated Obligations 6/30/60	
All Prior Years	TC	6	-	320	82	82	82	-	402	183	219		219	174	45	
Actual Year FY 1959	TC				171	171	171	1	171	23	148		148	77	71	
Operational Year FY 1960	TC											298	298	60	238	
TOTAL	TC	6	-	320	253	253	253	1	573	206	367	298	665	311	354	

Problems Addressed:

- VI - Insufficient human resources educated to meet the needs of modern India.
- VIII - The high prevalence and incidence of disease and physical disability.

* Excludes 6 positions on which recruitment action (for FY 1961 ETA) is desired.
 ** ,, 2 ,, ,, ,, (for FY 1962 ETA) ,,

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				COUNTRY ECONOMIC PROGRAM		MEDICAL EDUCATION	

1. General Description of the Project

This project is aimed at expansion of and qualitative improvement in medical education in seven States and the Centrally administered territories through the provision of technician support to a selected medical college in each of four States (Jaipur, Rajasthan; Indore, Madhya Pradesh; Osmania, Hyderabad; Trivandrum, Kerala) plus the All India Institute of Medical Sciences (AIIMS), New Delhi and making available participant support to all medical colleges in the seven States and the Centrally administered territories. Commodity support will supplement other elements of the project.

India suffers from public health problems of overwhelming proportions. To ameliorate this situation with its serious effect on all aspects of the economy, it is essential to build up rapidly a large group of well-trained physicians. While reliable figures are not available, there are officially estimated to be 70,000 qualified physicians in India (1955-56) whereas 82,500 will be required by 1960-61 to give the desired intermediate goal: a ratio of one physician to 5,000 persons (U.S. - 1:1200). There are approximately 52 medical colleges now operating in the country with roughly 2,800 graduates annually. Obviously, there must be a tremendous increase in the annual output of graduates if the gap is to be closed. The major bottleneck is in securing adequate numbers of qualified medical college teachers to allow the staffing of new colleges, to flesh out the existing inadequate faculties, and to improve the calibre of the teaching in these colleges.

The current project (386-54-123) was initiated in FY 58. Some assistance to medical education was given in Project 86-54-029 beginning in FY 1954. The project more or less as currently planned was an element of 86-54-029 in FY 56 and FY 57. Due largely to delays in recruitment, the terminal date of the project is now estimated to be FY 66.

The major emphasis is planned to be placed at Trivandrum and Osmania Medical Colleges where it is anticipated that, exclusive of home leave periods, 17 and 24 man-years of technician services respectively will be provided.

Professors of Medicine and Surgery for Jaipur and Indore will be requested to assist these institutions in reorganizing and strengthening their postgraduate training and in developing an internship-residency type of program adapted to their local needs.

At the AIIMS, the post of Professor of Preventive and Social Medicine is already filled. It is believed that technician assistance to this institution will be confined to this department. While it is possible that other technicians may be requested for this department, such as a Medical Social Worker or a Biostatistician, plans are not yet developed.

Participant training will continue to be offered to the medical colleges of the States (and the Centrally administered territories) where the above colleges are located and to those States to which assistance has been offered previously under this project. The States involved are Andhra Pradesh, Bombay, Kerala, Madhya Pradesh, Mysore, Orissa, and Rajasthan. Such training will continue to be given to members of the staff of the medical colleges to help in strengthening the teaching cadres of the States.

Commodities will be confined to scientific equipment, teaching aids and apparatus, and specialized office equipment designed to augment the effectiveness of the technicians assigned and participants trained. Commodity assistance of some proportion is deemed essential to this project for four primary reasons. First, U.S. technicians are familiar with and can perform more effectively with U.S. produced equipment and supplies (including textbooks). Second, each technician will have need for items of equipment and supplies not available at the colleges to which they are assigned. Third, participants returning from training in the U.S. can work more successfully with U.S. produced supplies and equipment. Fourth,

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				COUNTRY ECONOMIC PROGRAM		MEDICAL EDUCATION	

Indian medical educators are traditionally purchasers of British equipment; it is believed that experience with U.S. equipment and supplies will increase the demand for them.

2. Specific Goals and Activity Targets of the Project

The actual goals of this project are:

- A. Expansion of and qualitative improvement of the medical education system of India.
- B. Introduction of newer concepts of medical education policies, and administration and technique.
- C. Increase in the number of well-qualified teachers available to strengthen the 52 existing medical college faculties and to staff the new colleges being developed.
- D. Increase in the emphasis on sound grounding in the basic medical or pre-clinical sciences.
- E. Strengthening of post-graduate training through the development of sound programs of supervised experience (internship-residency training).
- F. Encouragement of the development of full-time teaching staffs in medical colleges.
- G. Strengthening of the research programs of the medical colleges.

The above goals are not quantifiable though it is certain that all efforts of the type included in this project will help to meet these ends in some measure.

Specific activity targets are listed below:

- A. Provision of teams of medical educators to two medical colleges (Osmania and Trivandrum) to work with the principal and staff of these institutions in meeting these goals.

- B. Provision of a team of two professors (medicine and surgery) to each of two medical colleges (Mahatma Gandhi Medical College, Indore and Sawai Man Singh Medical College, Jaipur) to assist in the development of appropriate internship-residency training programs.

- C. Provision of a professor to the Department of Preventive and Social Medicine of the AIIMS to assist in the development of that department and to assist as may be appropriate and possible in development of more general plans and policy for the Institute.

- D. Provision of post-graduate training in the U.S. to 412 members of the staffs of medical colleges in the previously listed seven States and the Union Territories, in order that the teaching cadres of these political units may be more rapidly strengthened.

- E. Provision of commodity assistance as outlined in Section (page 1).

3. Progress Toward Achievement of Specific Activity Targets

a. Work accomplished to date:

In general terms, progress towards these targets has been slow. The first technician, Professor of Pharmacology, to be assigned as a member of the team at Trivandrum arrived in the fourth quarter of FY 59. Two additional nominations for Trivandrum, Professor of Anatomy and Medical Records Officer, are currently in the process of GOI clearance. The Professor of Preventive and Social Medicine was assigned to the AIIMS in the second quarter of FY 59. No other technicians have as yet been placed in position.

Under the FY 58 program, 38 participants were sent to the U.S. for training (40 selected) and 31 will have been sent under the FY 59 program (39 selected). Commodity assistance has been given to the

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				COUNTRY ECONOMIC PROGRAM		MEDICAL EDUCATION	

AIIMS and to Indore, Jaipur, Osmania, and Trivandrum Medical Colleges.

Commodities procured with FY 58 funds are practically entirely in position. Satisfactory progress in procurement utilizing FY 59 funds is being made.

Within the limits possible as a result of the rate of technician assignment and participant selection, the progress has been very satisfactory.

b. Work remaining to be done:

The contract providing the team of medical educators for Osmania is yet to be negotiated. The Professor of Preventive and Social Medicine for the Trivandrum team is still to be recruited. Requests for the two teams for Jaipur and Indore to assist in the development of postgraduate training are yet to be received and the individuals recruited. The 52 participants to be sent in FY 61 are yet to be selected (original selection to take place in November 1959). The remainder will be selected at the rate of 52 per year. (For the period FY 61 - FY 66, 312 remain to be selected). Commodities will be procured according to an annual schedule as follows (in thousands of U.S. \$):

FY 61	84
FY 62	90
FY 63	90
FY 64	80
FY 65	80

c. Progress toward achievement of project targets:

As stated earlier, the real goals are not quantifiable since they deal with the qualitative aspects of medical education. The following three general statements on progress towards these goals can be made:

- At Trivandrum, the staff of the Department of Pharmacology have made major revisions in the content of the courses

offered, teaching methods have been altered with much more emphasis being laid on practical laboratory experience, and there has been increased collaboration with other Departments of the college.

- At the AIIMS, similar activities have developed in relation to the Department of Preventive and Social Medicine. The Department has initiated a full teaching program, inaugurated a field training program for students, participated in faculty planning, and established very close relations and joint teaching programs with several other departments.
- The 38 participants already trained and returned are back at their respective colleges and are making use of the experience gained in the U.S. Without exception they contemplated certain changes in course content and teaching methods as well as increased research activity. Any estimate of the extent to which their intentions function must await the passage of time.

4. Nature of the U.S. Contribution

A summary of the financial plan from the inception of this project through its termination, as currently contemplated, follows:

Table 1
Financial implications of project as currently planned, by category of expenditure, 1958-66 (Costs shown in thousands of U.S. \$)

<u>Fiscal Year</u>	<u>Technicians Cost</u>	<u>Participants No.</u>	<u>Participants Cost</u>	<u>Commodities</u>	<u>Other Costs</u>	<u>Total</u>
1958-59	41	72	456	82	-	579
1960	72	28	156*	70	-	298
1961**	600	52	270*	84	5	959
1962-66**	914	260	1300*	340	24	2578
Total	1627	412	2182	576	29	4414

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	MEDICAL EDUCATION		

* International travel costs equivalent to U.S. \$1,800 per participant are not shown but will be a rupee expenditure from Section 402 funds.

** It is anticipated that a contract will be negotiated in FY 61 under which a relationship will be established between Vanderbilt University School of Medicine and the Osmania Medical College. This would provide, in the first instance, for six visiting professors, each for two years - the funding required in FY 61 is estimated to be \$480,000. It is anticipated that the contract will cover a total period of five years, requiring additional funding in the amount of \$100,000 in FY 62 and in FY 63. These amounts are included in the figures shown in Table 1.

a. Previous Fiscal Years:

In FY 58 and FY 59 a total of 72 participants were selected for training. The 39 (of 41 selected) sent in FY 58 have returned. The 31 selected under the FY 59 program have departed or will soon leave for their training. These participants were distributed as follows:

State	Number of Institutions Represented		Number of Participants			
	FY 1958	FY 1959	Selected	Sent	Selected	Sent
Andhra Pradesh	4	3	16	14	13	9
Bombay	3	3	6	6	6	4
Kerala	1	1	1	1	5	4
Madhya Pradesh	1	2	2	2	3	2
Mysore	1	1	1	1	1	1
Orissa	1	1	7	7	3	3
Rajasthan	1	1	7	7	7	7
Union Territories	0	1	0	0	1	1
Total	12	13	40	38	39	31

Scientific equipment and teaching aids in dollar value of \$27,000 and \$55,000 were included as parts of the FY 58 and FY 59 programs respectively. Institutions receiving this assistance were (in thousands of dollars) the AIIMS - 4; Baroda - 5; Indore - 17; Jaipur - 11; Osmania - 18; Trivandrum - 27. Actual expenditures for participants in FY 58 were \$293,000. In FY 59, \$163,000 were obligated for participants.

There were no technicians on board in FY 58. (The \$6,000 shown was to cover costs of technician (Biostatistician) transferred to another project. In FY 59, the Professor of Preventive and Social Medicine (AIIMS) and Professor of Pharmacology (Trivandrum) reported for duty in the second and fourth quarters respectively. Obligations incurred for these two posts totalled \$35,000.

b. Operational Year 1960:

As shown in Table 2, it is anticipated that 4 technicians will be on board. The Professor of Pharmacology, Trivandrum, will end his tour in the last quarter but it is expected that he will be replaced, hopefully with a short overlap. The Professor of Anatomy and the Medical Records Officer are expected to arrive in the fourth and third quarters respectively. The Professor of Preventive and Social Medicine, AIIMS, will be on duty throughout the year. A total of \$72,000 is budgeted for those technicians.

Twenty-eight participants will be trained at a total dollar cost of \$163,000 and \$70,000 will be made available for commodity support (mostly under commodity Code 880). Section 402 rupees will cover the cost of international travel of the participants. The cost will be the equivalent of \$50,400.

c. Budget Year 1961:

In FY 61, the technician element of the project will have the following composition (excluding technicians for Osmania Medical College):

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Position Title	Location	Pos #	Occup. Code	No. of mos. on board	Budget Figure*
1. Prof., Pharm.	Trivandrum	160	5060216	12	27
2. Prof., Anatomy	Trivandrum	308	5060217	12	21
3. Med. Rec. Off.	Trivandrum	295	5068502	12	14
4. Prof., Prev. Med.	Trivandrum	-	5060213	2	11
5. Prof., Medicine	Jaipur	-		2	12
6. Prof., Medicine	Indore	-		2	12
7. Prof., Prev. Med.	AIIMS	161	5060213	12	23

(Also included on Staffing Pattern are the following positions: Medical Educator (Anatomy), Pos # 309; Medical Educator (Prev. & Social Medicine), Pos # 281; Medical Educator (Biochemistry), Pos # 162)

* As regards positions 1-3, it is assumed that recruitment will take place as scheduled during FY 60 and that the incumbent will serve a two year tour. Position 4 has been requested by the GOI and recruitment should get underway immediately. Positions 5 and 6 should be requested by the GOI in the near future. Position 7 is expected to be filled throughout the year though home leave and return are contemplated. A formal request for a two year extension of this position is anticipated. The total budget for these positions is \$120,000.

The largest single cost element is the proposed contract under which an institution such as Vanderbilt University would into a relationship with Osmania Medical College, Hyderabad. The budget calls for \$480,000 to provide for six technicians for two years each plus the usual supervision and administrative support. Official requests have already been received from the GOI for Professors of Anatomy, Biochemistry and Preventive and Social Medicine. It is anticipated that these posts would be included in the contract. While there has been no decision regarding

other technicians to be requested, it is probable that two of these will constitute a team to work on the development of the internship-residency program and the third would be either in another pre-clinical field or an experienced university hospital administrator. The Director of Medical Services of Andhra Pradesh has had conferences with the Dean of the Vanderbilt University School of Medicine and it is anticipated that the latter may be brought to India under the Technical Support project during FY 1960 to assist in the definitive planning for this project.

Funds in the amount of \$270,000 to cover the cost of 52 participants are budgeted. Again Section 402 rupees will be used to defray the costs of international travel (the equivalent of \$93,600). These will be drawn from the same geographic and professional areas as in previous years.

Commodities in the amount of \$90,000, primarily Code 880, will be provided. The selection of the institutions and of the commodities will likewise be on the same basis as in previous years.

Other costs in the amount of \$5,000 will provide the salaries of three drivers and locally produced supplies and equipment in support of the technicians.

d. Future Fiscal Years:

This project will, as currently planned, extent through FY 1966. As shown in Table 1, technician costs are estimated to be \$914,000; 260 participants are costed at \$260,000; \$340,000 will be provided for the procurement of commodities and \$24,000 will cover local costs, primarily the salary of drivers for technicians.

Technician elements include one post with roughly two man-years at the AIIMS; six posts covering 17 man-years at Medical College, Trivandrum; two posts with eight man-years at Jaipur; two posts with four man-years at Indore and presumably under a contract, six positions with 24 man-years at Osmania Medical College, Hyderabad. Additional details are provided in Table 2.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	MEDICAL EDUCATION		

It should be pointed out that \$100,000 is provided in each of fiscal years FY 1962 and FY 1963 for the funding of the Osmania Contract. This should completely cover the costs of this contract.

In the following tabular presentation (Table 2) appears a summary of planned technician assignments through the end of the project. From this can be determined the numbers of technicians involved, their location and the estimated costs.

Table 2

Planned technician assignments shown Position Title, Location and Number, Estimated Dates of Arrival and Departure, and Cost (in 1000s of U.S. \$), by Fiscal Year

<u>Fiscal Year</u>	<u>Title</u>	<u>Location</u>	<u>Number</u>	<u>ETA</u>	<u>ETD</u>	<u>Cost</u>
1960	1. Prof., Prev. Med.	AIIMS	161	2/59	3/63	21
	2. Prof., Pharm.	Trivandrum	160	4/59	4/62	27
	3. Prof., Anatomy	Trivandrum	308	4/60	1/65	12
	4. Med. Rec. Off.	Trivandrum	295	3/60	3/62	12
1961	1. Prof., Prev. Med.	AIIMS	161	2/59	3/63	23
	2. Prof., Pharm.	Trivandrum	160	4/59	4/62	27
	3. Prof., Anatomy	Trivandrum	308	4/60	1/65	21
	4. Med. Rec. Off.	Trivandrum	295	3/60	3/62	14
	5. Prof. Prev. Med.	Trivandrum	-	4/61	1/66	11
	6. Prof., Medicine	Jaipur	-	4/61	1/66	12
	7. Prof., Medicine	Indore	-	4/61	4/62	12
	8. Contract (6 persons)	Osmania	-	1/62	2/66	480
1962	1. Prof., Prev. Med.	AIIMS	161	2/59	3/63	21
	2. Prof., Pharm.	Trivandrum	160	4/59	4/62	27
	3. Prof., Anatomy	Trivandrum	308	4/60	1/65	21

4. Med. Rec. Off.	Trivandrum	295	3/60	3/62	14
5. Prof., Prev. Med.	Trivandrum	-	4/61	1/66	21
6. Prof., Medicine	Jaipur	-	4/61	1/66	21
7. Prof., Surgery	Jaipur	-	1/62	2/66	27
8. Prof., Medicine	Indore	-	4/61	4/63	21
9. Prof., Surgery	Indore	-	1/62	2/64	27
10. Contract	Osmania	-	1/62	2/66	100

1963	1. Prof., Prev. Med.	AIIMS	161	2/59	3/63	21
	2. Prof., Anatomy	Trivandrum	308	4/60	1/65	21
	3. Prof., Prev. Med.	Trivandrum	-	4/61	1/66	27
	4. Prof., Medicine	Jaipur	-	4/61	1/66	21
	5. Prof., Surgery	Jaipur	-	1/62	2/66	21
	6. Prof., Medicine	Indore	-	4/61	4/63	21
	7. Prof., Surgery	Indore	-	1/62	1/64	21
	8. Contract	Osmania	-	1/62	2/66	100

1964	1. Prof., Anatomy	Trivandrum	308	4/60	1/65	21
	2. Prof., Prev. Med.	Trivandrum	-	4/61	1/66	21
	3. Prof., Medicine	Trivandrum	-	1/64	1/66	27
	4. Prof., Surgery	Trivandrum	-	1/64	1/66	27
	5. Prof., Medicine	Jaipur	-	4/61	1/66	27
	6. Prof., Surgery	Jaipur	-	1/62	2/66	27
	7. Prof., Surgery	Indore	-	1/62	1/64	14
	8. Contract	Osmania	-	1/62	2/66	-

1965	1. Prof., Anatomy	Trivandrum	308	4/60	1/65	14
	2. Prof., Prev. Med.	Trivandrum	-	4/61	1/66	21
	3. Prof., Medicine	Trivandrum	-	1/64	1/66	21
	4. Prof., Surgery	Trivandrum	-	1/64	1/66	21
	5. Prof., Medicine	Jaipur	-	4/61	1/66	21
	6. Prof., Surgery	Jaipur	-	1/62	2/66	21
	7. Contract	Osmania	-	1/62	2/66	-

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1966	1. Prof., Prev. Med.	Trivandrum	-	4/61	1/66	14
	2. Prof., Medicine	Trivandrum	-	1/64	1/66	14
	3. Prof., Surgery	Trivandrum	-	1/64	1/66	14
	4. Prof., Medicine	Jaipur	-	4/61	1/66	18
	5. Prof., Surgery	Jaipur	-	1/62	2/66	18
	6. Contract	Osmania	-	1/62	2/66	—

5. Nature of Cooperating Country Contribution

Unfortunately the rupee costs of the GOI contribution to this project are not available, in fact, it is difficult to define exactly what costs should be segregated as the specific contribution to this project.

The Government of India has provided in the Second Five Year Plan Rs.20 crores (\$42 million) for the expansion of existing colleges and attached hospitals, establishment of new departments such as Preventive Medicine, completion of the AIIMS and upgrading of selected existing departments for postgraduate teaching. Rs.6.5 crores (\$14 million) has been provided for the establishment of new colleges and Rs.3.5 crores (\$7 million) was made available for the establishment of full-time teaching units.

This project is directly related to this GOI activity and provides concentrated assistance to over 10% of the medical colleges in India and training in the U.S. to the staff of an additional 40%, from the other colleges in the seven States and Central territories.

A brief description of the contribution, in non-fiscal terms, follows:

At Trivandrum and Osmania Medical Colleges where technician teams will be located medical college buildings and equipment are provided as well as the professional staffs of these colleges. In addition hospitals are maintained which are essential to successful operation of the departments and training of students. The departments to which technicians are assigned are allotted

space, equipment and staff. The costs of the departments where technicians are assigned are obviously attributable as contributory to the project. In addition some percentage of the overall costs of the medical colleges and hospitals should be so assigned.

At the AIIMS, the same situation obtains in relation to the Professor of Preventive and Social Medicine. Similarly, at Jaipur and Indore, where the teams will be assigned to assist in the development of internship-residency program a considerable proportion of medical college and hospital costs are assignable to the project.

Thirty-one colleges are eligible to have their staff members selected for participant training in order to build up the qualifications and competencies of the teaching cadres of the States and territories involved. Four hundred and twelve participants from these 31 colleges will, under the plan, be trained. Presumably the budgets of these 31 institutions should also be included in whole or in part. If one assumes an average operating budget of Rs.500,000 per annum per college, which is a conservative estimate, the contribution might be considered to be Rs.15,500,000 or roughly \$3.1 million per annum without reference to capital costs.

In addition it should be pointed out that for each technician a contribution of Rs.15 per day is made and office space, secretarial service, and teaching and laboratory facilities are provided. For each participant the GOI pays within-India travel costs and continues to pay his salary while he undergoes training. As regards commodities, customs costs and inland transportation are the responsibility of the GOI.

6. Contribution from Other Sources and Relationship to Other Projects

a. Other Sources:

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Since medical education forms such an important part of the health program, nearly all of the international agencies and foundations with health programs have worked in this field. However, none are directly involved in the institutions with which TCM is working except for the AIIMS. No agency except the Rockefeller Foundation is in a position to give uniformly assistance of the same calibre as TCM since medical education in the U.S. is now generally considered to be of the highest quality. The efforts of these agencies complement one another.

WHO has agreed to assign 3 Professors of Preventive and Social Medicine, two of whom are already at work. Fellowships are awarded in this field. In addition, they are giving assistance in terms of personnel and fellowships in the fields of Pediatrics and Maternal and Child Health.

UNICEF will be giving commodity assistance in the general field of Preventive and Social Medicine, especially to rural training areas. Commodity support in the field of Pediatrics will also be given, initially in Madras. The amount of assistance in financial terms is not yet determined.

The Colombo Plan has provided a general fellowship program not restricted to but including medical college faculty members. In the past year or so this program has become smaller due to difficulties in placements. Detailed information is not currently available.

The Rockefeller Foundation has been working in medical education for years. Support in the form of technicians, consultants, fellowships, supplies and equipment, capital support and buildings have all been granted at one time or another. Currently, emphasis is given to the support of Vellore Christian Medical College; the King George Medical College, Lucknow; and Seth Gordhandas Sunderdas Medical College, Bombay. A project in Preventive and Social Medicine, with emphasis on population study and control, is being supported

at Ludhiana Christian Medical College. Also, short-term consultants, usually visiting several colleges, have been provided in considerable numbers recently.

Russia has provided a group of 11 individuals including doctors, nurses and interpreters to staff and guide the development of a pediatric hospital, the Kalavati Saran, which is run in conjunction with the Lady Hardinge Medical College and Hospital.

Yugoslavia has sent a team of 2 surgeons who worked at the Safdarjang Hospital which is currently used by the AIIMS for limited clinical work. These physicians were at the hospital for approximately one month in the spring of 1958.

The AIIMS has received assistance from several sources (ICA assistance under the present plan for the project is likely to be confined to one Professor of Preventive and Social Medicine and a few participants.)

New Zealand provided approximately one million pounds for construction and equipment of a basic sciences building of this institution.

The Rockefeller Foundation is providing a top medical education consultant to the AIIMS. He serves as Advisor in medical education to the Director of the Institute. Up to the present time grants totalling approximately \$300,000 have been made for equipping the Institute. Currently, they are exploring the possibility of providing the foreign exchange requirements for the construction and equipment of the AIIMS hospital. (If this comes to pass it is probable that PL 480 rupees will be used to cover the local currency costs of the project. It is probable also that they will give considerable assistance to the Institute library when it is developed, the overall dollar contributions to these various components might total some \$2 million.

Finally, the Ford Foundation recently sanctioned a grant to support a social science department at the AIIMS. The GOI

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				COUNTRY ECONOMIC PROGRAM	MEDICAL EDUCATION		

has decided not to implement this scheme in the immediate future. Whether this assistance will be forthcoming at a later date is not known.

b. Other Projects:

This project is related to that aspect of the General Nursing project (86-54-124) dealing with the development of the colleges of nursing. The three nursing schools involved are connected with medical colleges at Hyderabad (Osmania), Indore and Jaipur. Each project will enhance the value of the other since it will lead to the rounded development of the medical center.

There will also be a relationship to the project "Assistance to Official Health Agencies" (86-59-126) since the hospital administration and biostatistical elements of this project will undoubtedly strengthen hospital practices generally, with medical college hospitals being the first affected.

Less directly, the project "Insect Borne Disease Control" (86-53-127) is related since teaching materials developed under this project will be made available to all medical colleges. A similar relationship exists with the project "Health Education" (86-54-125).

7. Financial Considerations

A discussion of GOI contributions to the project is included in Section 5 of this E-1. This project and medical education enjoys a very high priority among health projects under the Second Five Year Plan and this will be true in the Third Plan as well.

As of June 30, 1959, there was a total pipeline figure of \$367,000 for this project. A major proportion of this represents costs of participant training which should be liquidated during

FY 1960 and FY 1961 as this training is completed. The commodity element of the project through FY 1959 is only \$82,000 and procurement has proceeded according to schedule. The balances should be liquidated during FY 1960.

8. Cooperating Country - TCM Coordination

The various elements provided for herein have been agreed to after deliberate planning and consultation with concerned officials of the State Departments of Health and the Central Ministry of Health.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-54-124	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE General Nursing		

1	PROJECT BEGINS FY 58 ENDS FY 69	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract	Contract
A. All Prior Years	TC	112	69	27	-	16	-												
B. Net Deab.-Reab.	TC	-1	1	-2	-	-	-												
Current Funds	TC	150	109	27	-	14	-												
Total Actual Year FY 1959	TC	149	110	25	-	14	-												
C. Operational Year FY 1960	TC	198	163	26	-	9	-	18				18			12	5			
D. Budget Year FY 1961	TC	303	217	62	-	15	9	15				15			16	8			
E. All Subsequent Years	TC	2925																	
F. Total All Years	TC	3687																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	55	-	57	-1	-1	-1	-	56	42	14		14	11	3
	Actual Year FY 1959	TC				150	150	150	9	150	87	63		63	43	20
	Operational Year FY 1960	TC											198	198	135	63
	TOTAL	TC	55	-	57	149	149	149	9	206	129	77	198	275	189	86

Problems Addressed:

VIII - The High Prevalence and Incidence of Disease and Physical Disability.

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		1 November 1959	<input type="checkbox"/> REVISION NO.	Unclassified	India		
				COUNTRY ECONOMIC PROGRAM	General Nursing		

1. General Description of the Project

General nursing was initiated as a separate project in FY 58, having developed from the nursing-related elements originally contained within "Assistance to Medical Colleges and Allied Institutions" (029). This project is intended to assist India in meeting her need of 160,000 qualified nurses to serve in hospitals, schools of nursing, public health and community development projects. The figure of 160,000 is based upon the present estimated population of India for a ratio of 1 qualified nurse to 2,500 people.

The Second Five Year Plan estimated a need of 260,000 nursing personnel in all categories, professional and non-professional. A survey conducted in 1958 by the Indian Nursing Council shows a total of 68,467 nursing personnel (professional and non-professional) in five categories as compared with 57,134 in 1955. This indicates an increase of all categories in two years by 11,333 of which the professional nurses group increased by 4,064 or approximately 2,000 per year for a total of 26,470 professional nurses in 1957.

In order to attain the goal of 160,000 qualified nurses by 1965, the end of the Third Five Year Plan, it will be necessary to produce about 28,000 graduate professional nurses each year. Besides this professional group, the Plan includes the training of other types of nursing personnel such as health visitors, mid-wives, auxiliary nurse mid-wives and aides in numbers of about 180,000. To accomplish this will necessitate the training of a cadre of a minimum of 20,000 nurses educated on an advanced level with qualifications for such positions as faculty for educational institutions, directors and head nurses for hospitals, and directors and supervisors for public health programs.

In 1956, three States - Madhya Pradesh, Andhra Pradesh and Rajasthan - included funds for nursing education on an advanced level in the Second Five Year Plan. Extension of the interest in

this program is being evidenced by three additional States - Bombay, West Bengal and Kerala - which have or now intend to include funds for this purpose in their budgets.

The General Nursing project as constituted will emphasize providing technical assistance to the upgrading of existing or proposed nursing colleges at a university level. Secondary emphasis will be placed on continuation of support to (a) utilization of Public Health Nursing consultation at a State Department of Health (Rajasthan); (b) demonstration of organization and development of a Central Sterile Supply Service at Safdarjang Hospital, New Delhi; (c) demonstration of home nursing training to nurses for the Indian Red Cross for eventual use in training lay volunteer home nurses; (d) phasing out of two other special fields of technical assistance in nursing will take place in FY 60 when a demonstration of Physio Therapy training at Safdarjang Hospital, New Delhi, will be discontinued as will be the demonstration of Pediatric Nursing training at the Nursing College of the Christian Medical College and Hospital, Vellore, Madras State.

Regarding assistance to the nursing college program, it is planned to assign a team consisting of four or five U.S. Nursing Educators to one school each year as requests are officially presented. It is preferable that the teams be made available for 6 years to assist in overcoming initial organizational and developmental problems and to provide assistance for one class of students throughout an entire course of study. It is planned to supply a moderate amount of general and special nursing teaching aids, including laboratory equipment, reference books, audio-visual equipment with slides, demonstration ward equipment and a jeep station wagon to each to coincide with the arrival of the U.S. technicians. The value of such commodities will be about \$20,000 for each school during the period assistance is supplied. Participants for advanced training in the U.S. will be selected from faculty members, approximately 12 from each school.

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				COUNTRY ECONOMIC PROGRAM		General Nursing	

The present plan for the project, including six colleges of nursing will place the termination date at FY 1969. It is possible that additional requests for nursing educators may be received from four other states for a total of ten in which case the termination date would require extension.

The financial plan as presently contemplated is as follows:

<u>Fiscal Year</u>	<u>Participants No.</u>	<u>Technicians Cost</u>	<u>Technicians No.</u>	<u>Technicians Cost</u>	<u>Commodities</u>	<u>Other Costs</u>	<u>Total</u>
58-59	8	52	6	179	30	-	261
60	5	26	12	163	9	-	198
61	8	62	14	217	15	9	303
62-69	66	343		2466	64	52	2925
		<u>483</u>		<u>3025</u>	<u>118</u>	<u>61</u>	<u>3687</u>

2. Specific Activity Targets or End Results of the Project

- A. Reorganization and development of an efficiently functioning physio therapy department at Safdarjang Hospital, New Delhi.
- B. Establishment of a Central Sterile Supply Service at Safdarjang Hospital, New Delhi.
- C. Further development of pediatric nursing training at the hospital of the Christian Medical College and School of Nursing.
- D. Establishment of a training unit of the Indian Red Cross to instruct professional nurses in training volunteer home nurses.

- E. Initiate nursing consultation service at state administrative level in the field of Public Health at the State of Rajasthan Department of Health.
- F. To establish a consultant and advisory nursing service at a national level in Tuberculosis control.
- G. Organization of six colleges of nursing in different states where four year courses will be instituted resulting in the award of university degrees to nurse graduates.

3. Progress Toward Achievement of Project Activity Targets (Work accomplished, work remaining and achievement progress are described together in the following):

A. The reorganization of a department of physio therapy at the Safdarjang Hospital was completed as of October 1959. During the period 1957-59 the department has been improved and upgraded in administration, improvement of technical service and in competence to treat an increased number of patients. Annual treatments in 1957 were 10,067 whereas in 1959, 19% more patients could be treated (at the rate of 29,700 annually). Records have been simplified, scheduling of patients introduced and adhered to, maintenance of equipment placed on a regular basis, staff training undertaken, refresher courses given and, in general, the purpose of the activity has been accomplished. The U.S. technician (Mrs. L. Leonard) has given greater detail in her terminal report and with her departure, the activity can be considered as terminated.

B. A temporary Central Sterile Supply unit has been developed at Safdarjang Hospital. TCM provided equipment, excepting large size autoclaves, has been installed to demonstrate processing techniques. Procedures have been developed for general use of the

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				COUNTRY ECONOMIC PROGRAM		General Nursing	

hospital and for specific use by the staff of the service unit. Inservice training has been established and a counterpart has proceeded to the U.S. as a participant to receive additional training. Plans have been developed in collaboration with the hospital architect for the construction of a new service building that will include an expanded Central Supply unit suitable for the hospital's eventual capacity of 1,500 to 2,000 beds. College of Nursing (Delhi University) students receive 2 weeks of training in the unit as part of their curriculum. About 100 undergraduate students have participated and 50 graduate nurses have attended for two to three days of observation.

C. The pediatric nursing service at the Christian Medical College hospital and Nursing School has been improved and developed to incorporate in its procedure new principles and methods of pediatric nursing care. The teaching curriculum of the Nursing College, dealing with pediatric nursing, has been revised and the U.S. nurse technician participated in presentation of the subject as a full time faculty member. A program of home visits to discharged patients has been introduced. The assignment of the U.S. nurse technician will conclude in December, 1959 and this activity under the General Nursing project will therefore be considered as terminating at the end of FY 1960. The technician will be transferred to the nursing education segment of the project as a Nurse Educator assigned to the College of Nursing, Osmania University, Hyderabad, after home leave and it is conceivable that some continuing contacts will be maintained.

D. The establishment of a nurse training unit at the Indian Red Cross has developed to the point where a counterpart has been assigned to the U.S. technician. Training manuals have been written and courses of training have been given to approximately 250 nurses. A filmstrip "Body Mechanics and Posture" for use in classes has been designed and photographed, and an instructor's guide and frame captions are being written.

E. The public health nursing consultant to the State of Rajasthan Department of Health has assisted in the improvement of public health programs, inservice training courses have been instituted to demonstrate integration of public health nursing in schools of nursing. Increasing numbers of requests are being received for guidance and advice to directors of hospitals and nursing service for improvement of hospital care of patients and follow up in homes.

F. The tuberculosis nursing service has not been instituted as no U.S. technician has been recruited for assignment to the requested position.

G. Four U.S. nurse educators have been assigned to the College of Nursing, Vikram University, Indore, Madhya Pradesh, the first of the contemplated four year degree colleges of nursing to request technical assistance under this project. This college of nursing is still not in operation as its proposed budget will not become effective until April 1 of calendar year 1960. The team of U.S. nurses is assisting in the planning phase in developing policies, recruitment plans, organization of faculty, schedule of classes, outline of curricula. Guidance is being given to the present school of nursing in upgrading nursing service and education, planning refresher courses and inservice projects. The second college of nursing to be developed under the nursing education segment of this project is at Osmania University, Hyderabad, Andhra Pradesh. Commodities in the amount of \$11,470 have been PIO/C'd for this college during FY 58 and have been received. One U.S. nurse educator (Nursing Administration) was assigned on TDY from Indore to Hyderabad for two weeks to assist in the formation of policies and administrative regulations for the new college. In addition, one nurse educator (Miss L. Paskewitz) was assigned to Hyderabad for approximately five weeks TDY to assist with orientation of new students, in purchasing and locating items of equipment in new temporary hostel and classrooms and with other formalities connected with opening a new school.

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4. Nature of the

(a) Previous

The General
in FY 58. Prior
in connection wi
health program.
Medical Colleges
sections devoted
U.S. expenditure
allocated to the
vided for trainin
assigned to Saifa
2 technicians as
nurse technician
4 nurse educator
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(b) Operati

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				COUNTRY ECONOMIC PROGRAM		General Nursing	

Commodities - \$9,000.

(c) Budget Year - FY 1961

Budget year contribution amounting to \$303,000 will be as follows:

Participants - 8 - \$62,000 *

(* Includes cost of extra year's training of 4 FY 60 participants. Excludes cost of international transportation to be funded from Section 402 rupees. The nurse participants will be sent to the U.S. to receive advanced training permitting them to take positions of leadership in nursing supervision and education).

Technicians - 14 - \$217,000

1. Nurse Advisor (Red Cross), Central Ministry of Health. ETA 10/58 ETD 10/60, Occup. Code 5061000, Pos. # 209, Grade R-5 = \$16,000.
2. Nurse Educator, Central Sterile Supply, Safdarjang Hospital. ETA 3/59 ETD 3/61, Occup. Code 5061005, Pos. # 167, Grade R-5 = \$16,000.
3. Public Health Nurse Advisor, Jaipur. ETA 9/59 ETD 9/61, Occup. Code 5061500, Pos. # 169, Grade ICA-5 = \$16,000.
4. Nurse Administration Advisor, Indore. ETA 12/58 ETD 12/60, Occup. Code 5061005, Pos. # 173, Grade R-4 = \$18,000.
5. Public Health Nurse Supervisor, Indore. ETA 3/59 ETD 3/61, Occup. Code 5061005, Pos. # 174, Grade ICA-7 = \$15,000.
6. Public Health Nurse Educator, Indore. ETA 3/59 ETD 3/61, Occup. Code 5061005, Pos. # 176, Grade R-6 = \$15,000.

7. Nurse Educator, Clinical, Indore. ETA 8/59 ETD 8/61, Occup. Code 5061005, Pos. # 175, Grade R-5 = \$14,000.
8. Nurse Advisor (TB), D.G.H.S. ETA 1st quarter 1961, Occup. Code 5061003, Pos. # 201, Grade R-5 = \$20,000.
9. Nurse Administration Advisor, Hyderabad. ETA 4th quarter 1960, Occup. Code 5061005, Pos. # 303, Grade R-4 = \$16,000.
10. P.H. Nurse Supervisor, Hyderabad. ETA 3rd quarter 1960, Occup. Code 5061005, Pos # 305, Grade R-5 = \$14,000
11. P.H. Nurse Educator, Hyderabad. ETA 1st quarter 1961, Occup. Code 5061005, Pos # 306, Grade R-5 = \$20,000.
12. Nurse Educator, Clinical, Hyderabad (Miss Anderson) ETA March, 1960, Occup. Code 5061005, Pos # 304, Grade R-5 = \$14,000.
13. Nurse Administration Advisor, Jaipur. ETA 4th quarter 1961, Occup. Code 5061005, Grade R-4 = \$10,000.
14. P.H. Nurse Educator, Jaipur. ETA 3rd quarter 1961, Occup. Code 5061005, Grade R-5 = \$13,000.
Two Nurse Educators (Jaipur) included on SP but not funded in FY61.
Commodities = \$15,000

The commodities to be supplied will cover such items as teaching aids, including reference books, audio visual equipment, filmstrips and slides, laboratory and demonstration ward equipment and a jeep station wagon to be used in visiting homes and health centers in public health nursing courses. The distribution insofar as 3 digit commodity codes are concerned is Code 680 - \$500; Code 820 - \$3,500; Code 720 - \$1,000; Code 890 - \$4,000; Code 880 - \$6,000.

(d) Future Fiscal Years (FY 61 thru FY 69):

For succeeding years, FY 61 through FY 69, it is estimated that FY 61 will require \$303,000 and beyond that \$2,925,000 for a total of \$3,228,000 with the costs for each element as follows:

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				COUNTRY ECONOMIC PROGRAM	General Nursing		

Participants - 74	\$ 405,000
Technicians	2,683,000
Commodities	79,000
Other Costs	61,000
	<u>\$3,228,000</u>

5. Nature of Cooperating Country Contribution

All of the activities being undertaken under this project are within organizational units of State and Central Government. With one exception (Nursing College at Indore) support of facilities, counterparts, ancillary equipment, payment of participants salaries while in the U.S., within India charges for imported commodities has been provided for within the unit or departmental budgets. In the case of the new Nursing College at Indore, administrative details interfered with budget approval for the operational year but has been agreed to in principle by both State and Central Ministries of Health for the budget year (FY 61). As the overall budgets of States and the Center would not realistically have any but an indirect relationship to the individual bilateral project activities, no estimate of the GOI financial contribution has been given.

6. Contribution from Other Sources and Relationship to Other Projects

UNICEF, WHO, the Ford and Rockefeller Foundations all participate in Health projects, some of which have nursing related elements. Coordination is maintained through distribution of information, individual consultation and through meetings of a Coordinating Committee sponsored by the Central Ministry of Health. In most cases fields of interest are confined to individual agencies and where similar activities are engaged

in by two or more agencies, lines of demarcation are established. No duplication of effort results and in general there is agreement on the methodology of approach to health problems. In nursing, UNICEF interests have been chiefly in MCW projects to which \$1.9 million have been allocated. Nurses and midwives training schools have been allocated \$247,000, the major elements of the foregoing having been for commodities. WHO has interested itself in supplying nursing consultation service to State Departments and will have technicians assigned to from 10 to 12 States. At present there are 5 States to which WHO nurse technicians are assigned.

7. Financial Considerations

No difficulty is anticipated in respect to commodity pipeline. The items to be procured are readily obtainable and involve approximately 3% of the total anticipated cost. Recruitment could conceivably create a personnel pipeline difficulty but with the peak number of nurse educators expected to be on board in FY 64 when staffing of all positions will reach 27 in number, it is considered that five years preparation should be sufficient lead time. The maximum number of participants to be sent to the U.S. in any one year would not exceed 14 which is not expected to create a placement difficulty. The chief reason for the difference in overall cost between the project as described herein and that developed in the prior year's E-1 is both in the number of nursing colleges to receive assistance (increased from three to six) and in the number of years for which that assistance will be required (increased from four to six). The increase in the number of schools included stems from greater realization of the inability of the present 2 advanced level nursing colleges to graduate sufficient well trained nurses to make any impact on India's need. As a consequence officials of practically all State Departments of Health are focussing their attention on this problem. While three States in addition to those mentioned last year have indicated their intention to request U.S. assistance, it is reasonable to expect

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<p>that at least four more may also apply. The extension of technician assistance from four to six years will assure of the continuation on a consistent level of the methods of instruction and administration as introduced and demonstrated by the U.S. technicians.</p> <p>8. <u>Cooperating Country - TCM Coordination</u></p> <p>The various elements provided for herein have been agreed to after deliberate planning and consultation with members of State the Departments of Health and officials concerned of the Central Ministry of Health.</p>							
PAGE 215 OF 371 PAGES				SECURITY CLASSIFICATION Unclassified	SHEET 8 OF 8 SHEETS TO THIS Project		

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-54-125	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Health Education		

1	PROJECT BEGINS FY 58 ENDS FY 64	(A) Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	55	19	28	-	8	-													
B. Net Deob.-Reob.		11	1	-	-	10	-													
Current Funds	TC	29	29	-	-	-	-													
Total Actual Year FY 59	TC	40	30	-	-	10	-								2					
C. Operational Year FY 60	TC	66	44	12	-	10	-			6					3		2			
D. Budget Year FY 61	TC	120	83	26	-	8	3			9			1,055		5		5			
E. All Subsequent Years	TC	414																		
F. Total All Years	TC	695																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/ 58	(2) Un-Sub-Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/ 60
Dollar Obligation and Expenditure	All Prior Years	TC	14	8	41	11	11	3	8	52	29	23		23	16	7
	Actual Year FY 59	TC				29	29	29	-	29	24	5		5	5	-
	Operational Year FY 60	TC											66	66	36	30
TOTAL	TC		14	8	41	40	40	32	8	81	53	28	66	94	57	37

Problems Addressed:

VI - Insufficient human resources educated to meet the needs of modern India.

VIII- The high prevalence and incidence of disease and physical disability.

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				COUNTRY ECONOMIC PROGRAM	Health Education		

1. General Description of the Project

This project is designed as a joint effort of the GOI and TCM to develop organizational patterns, devise methodology and train personnel which will result in the incorporation of effective educational procedures throughout the developing public health services of India. The main effort in this project will be focused on cooperative efforts in the planning and initiation of specific administrative units at the Center and in States which will be charged with providing leadership and training for the further development of the program on a continuing, long term basis.

The Government of India has embarked on a concerted, long-range effort to reorient and intensify health education activities throughout the country. This is being done primarily to increase and extend the effectiveness of the educational component of all public health activities which seek to combat the poor health and environmental conditions which affect national welfare and productivity. The objective has been given substance in a scheme, originally contained in the Second Five Year Plan, for the development of modern health education units in the Central and State health services. This program seeks to organize entities which can effectively guide and provide necessary skills to help in the attainment of the greatest possible effectiveness of sound educational procedures for the achievement of public health objectives.

This project has been designed to provide technical assistance necessary for the Government of India to meet the objectives of this plan as quickly as possible. Although concerned with the overall development of the scheme as a whole, TCM assistance is focussed on specific needs for which India itself lacks sufficient trained manpower. The assistance to be provided at the Center and in selected States as indicated below, will

concentrate on the training of personnel, evaluation of methodology and practices, and initiation of new activities for which outside help is needed in preliminary planning and organization.

Activity in this field was initiated on a joint basis in FY 55 with the recruitment of a health educator who, for two years, worked with the Central Ministry of Health, New Delhi, in the organization and establishment of the Central Bureau of Health Education. This first phase was at that time a part of the general project "Assistance to Medical Colleges and Allied Institutions" (029) and was terminated upon the departure of the technician. In FY 58, a new project was developed intended to terminate in 1961. Due to the lag of recruitment and, more importantly, to recent developments within the GOI designed to step up efforts in this field, it is now jointly proposed to plan in terms of amplifying and extending the agreement through FY 64. The developments referred to above involve the activation in FY 59 by the Government of India of a plan for Central financial assistance to States which agree to establish health education units along the lines suggested by the Central Bureau. A majority of States have already accepted this proposal. There is also every indication that the third GOI Five Year Plan will intensify the present effort and seek the placement of 500 trained health education specialists at various administrative levels in all parts of the country.

The total project is now estimated at \$695,000 over a period of 7 years comprising elements included in the 1959 E-1 as well as new elements based on a joint evaluation of current status and future possibilities.

Technicians - A total cost of \$476,000 over the 7 year period.

Participants - Twenty-three during the life of the project to cost \$141,000

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				COUNTRY ECONOMIC PROGRAM		Health Education	

Commodities - Such as teaching aids, art materials, books, educational materials, production equipment, workshop material, vehicles, and related items to cost \$60,000

Other Costs - For the salary of drivers and other local expenses for the life of the project, \$18,000.

The year by year cost and summary of technicians required is as follows:

TABLE

(Cost in thousands of US dollars)

FY	<u>Technicians</u>		<u>Participants</u>		<u>Commodities</u>	<u>Other</u>	<u>Total</u>
	No.	Cost	No.	Cost			
58-59		49	4	28	18	-	95
60	3	44	2	12	10	-	66
61	5*	83	5	26	8	3	120
62	4	80	4	25	8	5	118
63	7	120	4	25	8	5	158
64	5	100	4	25	8	5	138
		<u>476</u>	<u>23</u>	<u>141</u>	<u>60</u>	<u>18</u>	<u>695</u>

* Includes one short-term consultant (3 months)

2. Specific Activity Targets or End Results of the Project

A. Development of a competently staffed and self-sustaining Central Bureau of Health Education with specific sections relating to Training, Evaluation and Field Studies, and Center-State relationships. The work of these sections will be to provide national leadership in health education, provide service to

Central health activities, develop criteria and standards for program development and evaluation of State programs.

- B. Development in at least three States of State-wide program of health education making best use of all personnel in furthering educational aims in public health activities and serving as training and demonstration centers for the further extension of similar practices throughout India.
- C. The development of adequate graduate level training at schools of public health and/or medical colleges to assure a continuous supply of health education specialists necessary for India's recognized needs.

3. Progress Toward Achievement of Project Activity Targets

Up to the third quarter of FY 59 only one U.S. technician was on board as part of the present project which is therefore obviously in its initial phase of activity. However, the GOI has taken significant steps to further develop the Central Bureau of Health Education and to stimulate the introduction of similar programs in each of the States.

With the U.S. Training Advisor now in position (since March 1959) the Bureau is proceeding with the recruitment of additional counterpart staff and will initiate intensive training activities in 1960. A number of specific activities have been planned and preliminary implementation begun. Three important indications of "progress" are:

1. The activation in calendar year 1959 of Central grant-in-aid to States for expansion of health education services
2. The sanctioning in calendar year 1959 of 24 new posts for the Central Health Education Bureau

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				COUNTRY ECONOMIC PROGRAM	Health Education		

3. The construction (already well advanced) of a modern three storey building to house the staff of the Central Bureau in Delhi and serve as an educational and training center.

In the Madras element of the project, to which a TCM technician has been assigned since December 1957, the plans for the establishment of a State Bureau of Health Education have been approved by the State Government. A counterpart to the U.S. technician has been appointed and placed in charge of the Bureau. Thus the State is well on the way to meeting the original objectives of this element of the project.

This work has also involved participation in numerous existing training and demonstration activities and has resulted in increased awareness and understanding of the theoretical and practical implication of educational approaches to the public health problems of the State among key administrative and technical personnel.

4. Nature of the U.S. Contribution

(a) Previous fiscal years (FY 58 and 59)

In previous years, FY 58 and 59, the U.S. has contributed a Health Education Advisor to the State of Madras (since December 1957) and a Health Education Advisor to the Central Government (since March 1959). The Madras Advisor, as noted above, has provided assistance in planning for the organization of a State Bureau of Health Education which is now being formed. The Central Advisor is assisting in the creation of a national training center and related programs.

Under the FY 58 program, four participants were sent to the U.S. for a year of graduate study in a school of public health. They are now taking up important posts in various health education services in the States of Kerala, West Bengal, Bihar and Mysore.

In FY 58 and 59 a total of \$18,000 of commodities, primarily for training activities, were provided.

(b) Operational Year - FY 1960

For FY 60 (total cost \$66,000) the two segments of the project are as follows for technicians:

i. Assistance to Bureau of Health Education, Ministry of Health:

a) Health Education Training Advisor (HLTH EDU ADV, Pos # 206)

This technician, now on board, will continue in the project as previously described with major responsibility for assisting the Central Bureau staff in planning, organizing and conducting an effective training program in health education at the national level. The major emphasis of the Training Section in the coming year will be on the establishment of the section on a sound basis and the creation of a Central Training Laboratory in Health Education which will provide intensive training experiences for State personnel who will, in turn, undertake similar training experiences in their home areas. The bulk of TCM commodity support will be used in connection with these activities. The request is for two years beginning with the arrival of the technician in the third quarter of FY 59.

b) Health Education Research and Evaluation Advisor (HLTH EDU ADV, Pos # 208)

The request for this technician was originally made in 1958. It is included again at the request of the GOI for a two year assignment. The individual will have responsibility for providing leadership in the development of the Bureau's efforts to gather data essential for the successful planning of health education in India, evaluate present procedures and help in the development of methods suitable to the needs and resources of this country. The GOI is now recruiting counterpart staff for this activity and will activate the Evaluation and Research Section during the first half of calendar year 1960.

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				COUNTRY ECONOMIC PROGRAM	Health Education		

ii. Assistance to States:

a) Health Education Consultant, Madras
(HLTH EDU ADV, Pos # 157)

The present technician, Dr. Dorothy Huskey, will complete a two year assignment in November 1959. During this tour the State has been assisted in development of a plan for a State Bureau of Health Education. Implementation of the plan is now beginning and the State has requested an additional year's consultation to provide assistance in this phase of activity.

Participants: Total cost \$12,000

Two participants from the Central and State Governments will be provided with graduate training in public health with specialization in public health education. All participants will return to positions directly related to various elements of this project.

Commodities: Cost \$10,000

A total of \$10,000 to support the training and research activities at the Center will provide for such commodities as books, teaching aids, information presentation and production devices and vehicles necessary for training purposes.

Other Costs: To defray local cost of driver for Dr. Huskey, to be funded from Section 402 rupees - \$2,000.

(c) Budget Year - FY 1961

During FY 61 the project should see the completion of certain elements and the addition of new ones — all related to the overall objectives. Terminating near the close of the year will be the work with the State of Madras and the specific training assistance within the Central Bureau. Within the same period it is planned

to initiate work in a second state and provide assistance to the Central Bureau in developing an adequate field consultation branch.

Technicians: Cost \$83,000

1. Central Bureau of Health Education, Ministry of Health

- a) Continuation of Training Advisor
- b) Continuation of Research and Evaluation Advisor
- c) Health Education Field Consultation Advisor. By calendar year 1962, the program should reach a point where greater attention will have to be paid to the provision by the Center of continuing and systematic field consultation to the developing State programs. It is the plan of the Central Bureau to recruit and develop a staff to carry out this highly important function. A request has been made, informally up to this point, for a U.S. technician to work with this staff and provide necessary guidance for the development of adequate skills and necessary procedures to organize and conduct this work.
- d) Exhibits and Library Consultant. A short-term (3 months) consultant to advise on the establishment of an exhibits planning section to be integrated into the overall training program. The advisor will provide guidance on administration, layout and other technical matters in the organization of a health museum to be housed in the new Central Health Education Bureau headquarters building.

2. Assistance to States

- a) Continuation of Health Education Advisor, Madras.
- b) Health Education Advisor, Andhra Pradesh. This project

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element will have objectives similar to those previously discussed, i.e., intensive assistance to the State Government in the administrative organization of an effective health education service, the training of personnel and the initiation of similar demonstration and research activities.

Participants: 5 - \$26,000

Commodities: \$8,000 - Training aids, books, demonstration material.

Other Costs: \$3,000

(d) Future Fiscal Years

FY 62 - 64, the final three years of the project as presently planned, will tend to focus increasingly on active participation by TCM technicians and State staff in specific local operational activities growing out of the developments in the Central and State Bureaus up to that time. In addition to the assignment of a technician to a third State level program, the present planning calls for the initiation of at least three district field demonstration centers in three different parts of the country. This will serve to complete the chain and provide assistance at what will probably be the most important point in the entire process. During the same period, full time assistance will be required in the establishment of one or more additional graduate courses in public health education. These tentative future requirements may be summarized as follows:

Technicians: Cost \$300,000

Central Bureau of Health Education:

a) Continuation of Evaluation and Research Consultant (FY 62)

b) Continuation of Field Consultation Advisor (FY 62-63)

c) Visiting Professor, Health Education (FY 63-64). The Visiting Professor will assist in the organization and initial conduct of a graduate course in Health Education at a public health or medical school. Most likely present possibilities for the locale of this training are the State of Bombay and the city of New Delhi.

Assistance to States:

a) Continuation of Health Education Advisor, Andhra Pradesh (FY 62-63)

b) Assignment of Health Education Advisor, State of West Bengal (tentative) FY 62-64

c) Assignment of three Health Education Consultants to Field Training and Demonstration Centers (FY 63-64)

The specific training and demonstration centers to be included in this project will be selected from those being initiated as part of the Central scheme. It is most likely that one will be located in the Delhi area in association with the Central Bureau and the other two in States to which State-level assistance has been provided (e.g., Madras, Andhra Pradesh, West Bengal).

Participants: 4 each year - Cost \$75,000.

Commodities: A total of \$24,000 at \$8,000 for each of the three years.

Other Costs: A total of \$15,000 is estimated for the three years.

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The total project outlined above represents a developmental plan over the next five years based on a definite scheme sanctioned by the Government of India and actively being implemented by it. Should the program develop as anticipated, no U.S. financial or technical assistance of the type proposed here will be required beyond FY 64. Previous experience, however, would indicate the possibility that lags in recruitment, requests for extension of assignments, and changes based on periodic appraisals or changed needs or problems may lead to consideration of possible extensions or other modifications of the project as now proposed.

5. Nature of Cooperating Country Contribution

Present GOI allocations to the scheme to which this project is related include (in the Second Five Year Plan) the equivalent of approximately \$355,000 (U.S.) for the establishment of the Central Bureau of Health Education and the equivalent of approximately \$700,000 (U.S.) as grants to States in the initiation of State Bureaus along lines recommended by the Center. Other allocations, for which exact figures are not available or which have not been determined, would include:

Existing State provisions and anticipated increases over the next five years

Provisions to be made for continuation of Central scheme for Health Education in the Third Five Year Plan.

Existing and future provisions for health education services budgeted through other programs of the Ministry of Health and the State Departments of Health.

A conservative estimate of the probable total of GOI and State allocations for activities related to this project would,

in all probability, be in excess of Rs.15,000,000 (the equivalent of about \$3,000,000 (U.S.).

6. Contribution from Other Sources and Relationship to Other Projects

TGM assistance in this field is part of a total program in which other international agencies, such as WHO and UNICEF have a distinct and specific role. WHO is providing in the current fiscal year the services of a School Health Education Consultant in a joint project with the Ministry of Health and Ministry of Education. In addition it will place technicians, over the next few years, in several State health departments. It is also providing, on a long-term basis, training grants and guidance in the development of health education courses at the All India Institute of Hygiene and Public Health at Calcutta. UNICEF has agreed to supply a basic list of commodities to at least six States valued at \$18,000 for the development of the State Bureau plan. Ford Foundation is participating in one and will possibly add other projects aimed at developing health education techniques for dealing with specific problems in the rural areas.

The tremendously wide scope of health education needs in India create numerous opportunities for a variety of related but non-duplicating assistance by many agencies. The GOI, TGM and other interested agencies have attempted to coordinate their efforts through careful preplanning, continuous exchange of information and definite assignment of specific responsibilities in terms of overall objectives.

Sound public health administration views educational activities as integral and indispensable parts of almost all public health services. The development of adequate leadership, organization and training opportunities in the specialty of health education, therefore, can make a major contribution to all public health and

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related projects.

7. Financial Considerations

GOI funding indicated herein is firm and a part of the Second Five Year Plan. Estimates of financial needs for the Third Five Year Plan are now being prepared in consultation with the Planning Commission with all likelihood of approval to the extent affecting this project.

No pipeline problems are anticipated as commodities required are mostly "shelf" items easily procurable and for which obligated funds can be rapidly liquidated.

8. Cooperating Country - TCM Coordination

Every element of the project presented here is the result of a process of continuous joint planning by the TCM Health Division and the Ministry of Health, GOI. Preliminary plans are developed by the TCM Health ~~Division~~ Education Advisor and the Assistant Director General for Health Education of the Ministry of Health. These plans are formalized in joint meetings of the health education staff with the Director General of Health Services and the Chief of the TCM Health Division. Following further analysis within the GOI, items meeting the criteria are presented to the TCM as formal requests. All items presented here in the FY 60 and 61 program have either been already approved or are far enough along in the process to justify their inclusion. The projections for FY 62 - 64 have been agreed to in principle by the technical groups but have not as yet been initiated through the necessary formal request channels.

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		COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Assistance to Official Health Agencies		

PROJECT BEGINS FY ENDS FY	(A) Function of Funds	Dollar Obligations (\$1,000)							L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract
A. All Prior Years	TC	27	27	-	-	-	-	-										
B. Net Deob.-Reob.		1	1	-	-	-	-	-										
Current Funds	TC	29	29	-	-	-	-	-										
Total Actual Year FY 1959	TC	30	30	-	-	-	-	-							2		1	
C. Operational Year FY 1960	TC	56	40	16	-	-	-	-	6						2		3	
D. Budget Year FY 1961	TC	61	35	21	-	5	-	-	8						2		4	
E. All Subsequent Years	TC	86																
F. Total All Years	TC	260																

FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
		(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	TC	27	-	2	1	1	1	-	3	3	-				
Actual Year FY 1959	TC				29	29	29	-	29	27	2			2	2
Operational Year FY 1960	TC											56	56	35	21
TOTAL	TC	27	-	2	30	30	30	-	32	30	2	56	58	37	21

Problems Addressed:

VIII - The High Prevalence and Incidence of Disease and Physical Disability

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-59-126	E-1
				COUNTRY ECONOMIC PROGRAM		Assistance to Official Health Agencies	

1. General Description of the Project

This project initiated in FY58 provides for technical assistance in the development stages of a limited number of selected health activities, sponsored and requested by the Central Ministry of Health. When justified, separable activities contained herein will be proposed on an individual project basis. As presently constituted the project contains the following components:

- a. Development of a Hospital Administration Training Center.
- b. Development of biostatistical section within the Central Ministry of Health.
- c. Technical assistance to a Planning Commission working group on vital and health statistics.

The project with its present components will terminate in FY63. The total cost will be \$260,000 as follows:

(Figures in thousands)

Fiscal Year	Total	Technicians	Participants	Commodities
1958-59	57	57	-	-
1960	56	40*	16	-
1961	61	35	21	5
1962	55	29	21	5
1963	31	15	16	-
All Years	260	176	74	10

* Includes 1 three month consultant.

2. Specific Activity Targets

- A. Development of a Hospital Administration Bureau within the Central Ministry of Health to provide consultant service to the Center and the States in hospital planning and construction and in the improved utilization of present facilities and to assist in the development of a training program.
- B. The development of a Biostatistical unit within the Central Ministry of Health to develop methods of assembling and analyzing health statistics for provision of statistical consultation to the Ministry staff; to furnish guidance to program planning; to assist in developing quantitative and qualitative objectives and to establish bases for determining priorities and to promote development of statistical sections in State Ministries of Health.
- C. The development of Planning Commission biostatistics projects.

3. Progress towards achievement of Project Activity Targets

- A. The U.S. Technician has entered on duty and is becoming oriented to the operations of the Ministry of Health as well as meeting the colleagues with whom he will be working.
- B. No progress can be reported. No U.S. Technician has been recruited.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386- 59-126	E-1																																																								
		1 November 1959	<input type="checkbox"/> REVISION NO.	Unclassified	India																																																										
COUNTRY ECONOMIC PROGRAM				Assistance to Official Health Agencies																																																											
<p>C. The project segment dealing with the development of project of the Planning Commission has phased out with the termination of the U.S. Technician's tour of duty, September 1959. During the period 1957-1959 projects were developed dealing with determination of population estimates, birth rates, death rates, natural growth rates; a study of the causes of death, disease and injuries according to international standards by assistance in the development of a demonstration program and a training program in medical records systems; gradual development of model registration areas for improved collection of vital statistics; improvement in methods for development of man-power estimates. The incumbent (Dr. E. Douglas Burdick) also assisted in writing special reports amongst which was "India's Population Problem, a Deterrent to India's Progress." A separate continuing project is not planned to be initiated in this activity.</p> <p>Already phased out in FY59 was a demonstration of staff and facility development of a laboratory at the Patel Chest Institute. During the period Calendar Year 1956-58 a laboratory technician training course was developed, the syllabus for which was intended for continuation of a limited training program at that Institution.</p> <p>4. <u>Nature of U.S. Contribution</u></p> <p>Expenditures under this project are anticipated to total \$260,000 distributed according to fiscal year and elements as follows:</p>																																																															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">A. Previous fiscal years</td> </tr> <tr> <td style="width: 60%;">FY 1958 - 59</td> <td style="width: 20%;"></td> <td style="width: 15%; text-align: right;">-</td> <td style="width: 5%;">\$57,000</td> </tr> <tr> <td>Technicians</td> <td></td> <td style="text-align: right;">-</td> <td>\$57,000</td> </tr> <tr> <td>Participants</td> <td></td> <td style="text-align: right;">-</td> <td>None</td> </tr> <tr> <td>Commodities</td> <td></td> <td style="text-align: right;">-</td> <td>None</td> </tr> <tr> <td colspan="4">B. Operational Year</td> </tr> <tr> <td>FY 1960</td> <td></td> <td style="text-align: right;">-</td> <td>\$56,000</td> </tr> <tr> <td colspan="4" style="padding-left: 20px;"><u>Technicians</u></td> </tr> <tr> <td>1. Pos. # 164 Biostatistician Advisor, Occ. Code # 5171026 (Burdick) Grade R-3 ETD September 1959</td> <td></td> <td style="text-align: right;">-</td> <td>\$11,000</td> </tr> <tr> <td>2. Pos. # 165 Hospital Administration Advisor, Occ. Code # 5067000, Grade R-2 (McGibony) EOD October 1959</td> <td></td> <td style="text-align: right;">-</td> <td>\$22,000</td> </tr> <tr> <td>3. Pos. # 327 Biostatistician Advisor, Occ. Code #5153002 Grade R-4 ETA July 1960</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4. Biostatistician Consultant (3 months) ETA January 1960</td> <td></td> <td style="text-align: right;">-</td> <td>\$ 7,000</td> </tr> <tr> <td colspan="4" style="padding-left: 20px;"><u>Participants</u></td> </tr> <tr> <td>3 - To receive training in Hospital Administration and/or Biostatistics, vital statistics</td> <td></td> <td style="text-align: right;">-</td> <td>\$16,000*</td> </tr> </table>								A. Previous fiscal years				FY 1958 - 59		-	\$57,000	Technicians		-	\$57,000	Participants		-	None	Commodities		-	None	B. Operational Year				FY 1960		-	\$56,000	<u>Technicians</u>				1. Pos. # 164 Biostatistician Advisor, Occ. Code # 5171026 (Burdick) Grade R-3 ETD September 1959		-	\$11,000	2. Pos. # 165 Hospital Administration Advisor, Occ. Code # 5067000, Grade R-2 (McGibony) EOD October 1959		-	\$22,000	3. Pos. # 327 Biostatistician Advisor, Occ. Code #5153002 Grade R-4 ETA July 1960				4. Biostatistician Consultant (3 months) ETA January 1960		-	\$ 7,000	<u>Participants</u>				3 - To receive training in Hospital Administration and/or Biostatistics, vital statistics		-	\$16,000*
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PAGE 226 OF 371 PAGES	SECURITY CLASSIFICATION Unclassified			SHEET 3 OF 5 SHEETS TO THIS Project																																																											

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-59-126	E-1
				COUNTRY ECONOMIC PROGRAM		Assistance to Official Health Agencies	

* International travel will be funded from Sec. 402 Rupees - equivalent to \$6,000.

Commodities

- None

C. Budget Year

FY 1961 - \$61,000

Technicians

1. Pos. # 165 Hospital Administration Advisor, Occ. Code # 5087000 Grade R-2 (McGibony) - \$21,000
2. Pos. # 327 Biostatistician Advisor, Occ. Code # 5171026 ETA July 1960 - \$14,000

Participants

- 4 - To receive training in Hospital Administration and/or Biostatistics, vital statistics. - \$21,000*

* International travel will be funded from Sec. 402 Rupees - equivalent to \$8,000.

Commodities

To consist of business machines such as calculators, adding machines, filing systems, ICA Commodity 3 digit commodity code # 780 - \$ 5,000

D. Future fiscal years

FY 1962-63	- \$86,000
Technicians	- \$44,000
Participants	- 37,000
Commodities	- 5,000

5. Nature of Cooperating Country Contribution

The GOI will supply counterparts to the U.S. Technicians, customary office, secretarial and similar services, pay the salaries of participants while undergoing training in the U.S. as well as their within-India costs of travel; pay within-India costs of customs, handling and transportation of commodities imported under this project. The cost in rupees and dollar equivalent cannot be estimated with any degree of accuracy.

6. Contribution from other sources and relationship to other projects.

In Calendar Year 1957 the Rockefeller Foundation brought a Hospital Administrator to India to survey the situation and to render a report. The technician was Dr. McGibony who has now been recruited by ICA for assignment under this project to the Central Ministry of Health. He will therefore be in a position to assist in the implementation of recommendations included in his earlier report. This is a good example of coordination between ICA and other agencies. Hospital Administration training will have an indirect relationship with Medical Education (Project 386-54-123) and General Nursing (Project 386-54-124) in supporting the general objective of improved patient care and better health, the ultimate end result of both of these projects.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-59-126	E-1
				COUNTRY ECONOMIC PROGRAM		Assistance to Official Health Agencies	

6. Financial Considerations

It is not considered that pipeline difficulties can be anticipated in the supply of \$10,000 worth of commodities, the total proposed under this project.

7. Cooperating Country - USOM Coordination

The GOI and TCM are in entire agreement with all elements proposed for implementation under this project. Discussions are held on a continuing basis and all actions to be taken will be as a result of official requests made by the appropriate official of the Government of India.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL		SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	PROJECT NO. 386-53-127	E-1
			<input type="checkbox"/> REVISION NO.		COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Insect Borne Disease Control		

1	PROJECT BEGINS FY 58 ENDS FY 63	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Con- tract	Con- tract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	31	24	7	-	-	-	-											
B. Net Deob.-Reob.			2	1	-	-	-	-											
Current Funds	TC	43	33	-	-	10	-	-											
Total Actual Year FY 1959	TC	45	34	1	-	10	-	-							2				
C. Operational Year FY 1960	TC	56	41	10	-	5	-	-	5						2		2		
D. Budget Year FY 1961	TC	98	71	21	-	5	1	-	8						3		4		
E. All Subsequent Years	TC	123																	
F. Total All Years	TC	353																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY 59	(4) Un-Sub- Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/ 59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/ 60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	13	-	18	2	2	2	-	20	17	3		3	3	-
	Actual Year FY 1959	TC				43	43	41	2	43	24	19		19	11	8
	Operational Year FY 1960	TC											56	56	35	21
	TOTAL	TC	13	-	18	45	45	43	-	63	41	22	56	78	49	29

Problems Addressed:

VIII - The High Prevalence and Incidence of Disease and Physical Disability

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-53-127	E-1
				COUNTRY ECONOMIC PROGRAM		Insect Borne Disease Control	

1. General Description of the Project

This project, initiated in FY 58 and planned to terminate in FY 63, is designed to assist the GOI in the following areas: (1) to successfully prosecute its program of Filariasis Control; (2) in the development of programs aimed at control and/or elimination of arthropod-borne diseases other than Malaria and Filariasis; and (3) to increase the scope of activity and the range of skills of the staff of the Malaria Institute of India as the basis for eventual development and emergence of this Institute as a communicable disease center with training and operational responsibilities in the broad field of communicable disease control.

Important epidemiological factors concerning filariasis remain to be determined in specific fields of investigation including entomological, parasitological, clinical and sanitary engineering aspects. It is only after complete information regarding these areas becomes available that a successful and concerted attack can be made on filariasis. Associated with these aspects is health education of the public for acceptance of the measures necessary for control and eventual eradication.

Such insect borne diseases as filaria, guinea worm, and cutaneous and visceral leishmaniasis are widespread in India, and markedly affect the overall health and productivity of the population. For example, it is now known that at least 50 million persons are living in areas of filaria endemicity. This chronic disease incapacitates relatively or absolutely, and usually for the remainder of their lives, a large number of young adults. Other arthropod-borne diseases, while individually a less serious problem than malaria or filaria, affect in the aggregate millions of individuals.

With the elimination of malaria as a major public health problem, large numbers of capable, trained workers will be

available who have skills which can be channeled into control efforts aimed at other insect-borne as well as communicable diseases spread by other means. The Ministry of Health is planning ahead to insure efficient utilization of this manpower asset, and currently its thinking is in terms of the gradual conversion of the Malaria Institute into a communicable disease center with broad responsibilities. This conversion will take place by stages; the first broadening of the scope of activities was the addition of work in filaria; the second, inclusion of responsibilities for other arthropod-borne diseases in the program of the Institute.

The project to some extent succeeds the "Filaria Control" project 86-51-054 under which during FY 55 through FY 57, commodities, chiefly insecticides, in the amount of \$2,436,000 were supplied out of total expenditure of \$2,459,000. The current project is greatly altered in approach, scope and objectives on the basis of experience and expert advice. The alteration in emphasis is reflected in the costs of the current project covering the provision of technicians, participant training and a limited amount of commodities mainly scientific equipment necessary to the work of the U.S. technicians.

2. Specific Goals or End Products of this Project

- A. The determination of epidemiological factors necessary for control of filariasis.
- B. Development of staff and facilities of the Malaria Institute of India enabling investigation and eventual control of other insect borne and communicable diseases.

3. Progress Toward Achievement of Project Activity Targets

(a) Work accomplished to date

The U.S. technicians, an Entomologist and a Public Health Physician, arrived in FY 59. They have initiated investigational

E-1	FORM ICA 16-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-53-127	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	Unclassified	India		
				COUNTRY ECONOMIC PROGRAM	Insect Borne Disease Control		

activities in their particular special fields including observations in the field and at the Malaria Institute in entomological, parasitological and clinical aspects of filariasis and the development of ~~some~~ visual aids for educational and training purposes.

A separate Filariasis Division has been established at the Malaria Institute. Under this division a Filariasis training center has been established in Ernakulam, Kerala State, South India, in an area having the highest incidence of the disease in India. Similar training centers in other areas are in the planning state.

Results are being studied of the control measures being continued under the National Filaria Control Program (NFCCP). These measures include residual insecticide spraying for control of adult mosquitoes, destruction or treatment of breeding places for larvae control and institution of mass chemo-therapy with anti-filarial drugs. Health education of the public in connection with the foregoing is underway and plans for expansion of this activity are in progress. Several hundred photographs and photomicrographs have been taken and about 200 of these have been selected for use in making 4 film strips. Three film strips will be used for training purposes and the fourth will be used in health education of the public.

Evaluation studies are being continued on the basis of blood surveys and mosquito collections and dissections. Training programs for filariasis control personnel are in progress at the Malaria Institute, Delhi, and at the Field Training Center at Ernakulam.

(b) Work remaining to be done

Counterparts have not been appointed to work with the U.S. technicians. Clinical studies are to be instituted regarding

physiological reactions to administration of anti-filarial drugs in normal persons and persons with filariasis, serological studies using new antigens prepared from various filarial worms. Electrophoretic studies are to be completed. Entomological investigation is to be completed in the bionomics of the vector species of filariasis in India involving at least three species. Additional visual training material is being prepared using photographs to be made in the laboratory and the field.

Six participants are to receive advanced training in various aspects of epidemiology and in public health.

(c) Progress toward achievement of project targets

New methods and techniques of laboratory procedure involving use of recently imported laboratory equipment has been demonstrated to key members of the professional staff of the Malaria Institute. Studies of infected laboratory animals have been made with the assistance of Institute staff members. Techniques of specimen preparation and photomicrography have been demonstrated in entomological studies conducted by the U.S. technician. Work is being done in the field of communicable diseases other than malaria and filariasis by independent research on the part of selected staff members. U.S. technicians have been consulted on these projects.

4. Nature of U.S. Contribution

A. Previous Fiscal Years

FY 58 through FY 59 - expenditure \$74,000 - one U.S. technician, a public health engineer completed one year of investigation in the sanitary engineering aspects of filariasis control. Detailed recommendations regarding elimination of breeding areas are contained in his final report (Thomas McGowan). During FY 59 two U.S. technicians, an Entomologist (Filariasis)

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-53-127	E-1
				COUNTRY ECONOMIC PROGRAM		Insect Borne Disease Control	

and a Public Health Physician (Scientific Investigator) were assigned to the Filariasis Division of the Malaria Institute. The purpose of their assignment was to conduct and with their counterparts to supervise investigational activities.

One participant was sent to the U.S. for 1 year for training in parasitology and public health administration.

Commodities have been supplied in the nature of laboratory equipment for use in the work of the U.S. technicians amounting to \$10,000.

B. Operational Year - Cost \$56,000

Continuation of 2 U.S. technicians \$41,000

Participants: Two to be sent to the U.S. for training in public health and aspects of epidemiology 10,000*

* Does not include \$4,000 costs for international travel to be funded from Section 402 rupees.

Commodities, costing \$5,000, chiefly laboratory equipment. ICA Commodity Code 880 (Miscellaneous commodities to be procured in India NTE \$1,000 will be funded from Section 402 rupees).

C. Budget Year - Total costs - \$98,000

U.S. technicians

1. MED TECH FILARIA, Pos # 178, Occup Code 5064503, ETD July 1960 (cost including international travel) - \$18,000.

2. Public Health Physician, Pos # 179, Occup Code

5060202, ETD October 1960 (cost including international travel) - \$16,000.

3. Sanitary Engineer, Pos # 177, Occup Code 5081905, ETA January 1961 - \$16,000.

4. Consultant, Principal Medical Investigator - \$21,000
Total - \$71,000

Participants - \$21,000 (Four for U.S. training in public health and aspects of epidemiology (exclusive of costs of international travel to be funded from Section 402 rupees).

Commodities: - \$5,000 (For laboratory equipment chiefly under ICA Commodity 3 digit code 880).

Other Costs - \$1,000 (For purchase of miscellaneous services and commodities in India.

D. Future Years

FY 62 through FY 63 - \$123,000

<u>Technicians:</u>	4 man years	\$ 80,000
	6 participants	31,000
	Commodities	10,000
	Other costs	2,000
		\$123,000

5. Nature of Cooperating Country Contribution

Support to this project by the GOI has been given in continuation of its sponsorship of the National Filariasis Control Program. The Malaria Institute has expanded its training facilities and staff at New Delhi, establishing a separate filariasis division and has

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	386-53-127	E-1
				COUNTRY ECONOMIC PROGRAM		Insect Borne Disease Control	

organized a field training center at Ernakulam. Anti-mosquito residual spraying operations are being continued in eleven States with a total of 46 control units functioning. Training has continued at the Malaria Institute and 70 Medical Officers and 109 Filaria Inspectors have been trained. Additional transport has been authorized including 20 jeeps that have been delivered and 20 station wagons not yet received. Hetrazan tablets have been given to about 2.7 million persons. The total expenditure of the GOI exclusive of the States is estimated to be Rs.160,865,000 (\$33,650,000) through the Government of India fiscal year 1957-58.

6. Contributions from Other Sources and Relationship to other Projects

The Virus Research Center at Poona is dealing with virus research which are arthropod-borne. It receives financial and technical aid from the Rockefeller Foundation. Their work however is laboratory based with field studies that are not directly operational in controlling disease. Consultation between that center and the Malaria Institute makes their activities complementary to those covered in this project.

The Malaria Eradication project 386-51-135, being directed from the Malaria Institute has professional staff and facilities fully occupied with their program. Opportunity exists for interchange of ideas and a sharing of scientific knowledge and skills. Activities are separate and clearly defined and no duplication of effort exists.

7. Financial Considerations

The commodity element of approximately \$5,000 per fiscal year is not considered to be consequential. Other elements costed are continuing funding of technicians and those costs connected with a small number of participants. No U.S. funding

will be required after FY 1963.

8. Cooperating Country - TCM Coordination

All elements provided for in this project are implemented upon receipt of an official request from the Government of India. They are fully discussed in advance and are agreed to in principle by the representatives of the Malaria Institute of India, the Government of India and TCM/India.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-54-159	
			COUNTRY ECONOMIC PROGRAM		PROJECT TITLE		
			Scientific Equipment Repair Training				E-1

1	PROJECT BEGINS FY 59 ENDS FY 61	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	TC	-	-	-	-	-	-	-												
B. Net Deob.-Reob.																				
Current Funds	TC	12	12	-	-	-	-	-												
Total Actual Year FY 1959	TC	12	12	-	-	-	-	-												
C. Operational Year FY 1960	-	-	-	-	-	-	-	-												
D. Budget Year FY 1961	TC	78	30	21	-	25	2	-							2	-	4	-	-	
E. All Subsequent Years																				
F. Total All Years	TC	90																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY				
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY 59	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60	
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Actual Year FY 1959	TC				12	12	12	-	12	8	4		4	4	-	
	Operational Year FY 1960	-															
	TOTAL	TC	-	-	-	12	12	12	-	12	8	4	-	4	4	-	

Problems Addressed:

VIII. The High Prevalence and Incidence of Disease and Physical Disability.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-54-159	E-1
				COUNTRY ECONOMIC PROGRAM		Scientific Equipment Repair Training	

A. General Description of the Project

This project was proposed early in FY 59 and was designed to assist India and specifically, through the Indian Council of Medical Research, the All India Institute of Medical Sciences, New Delhi, in the establishment of an instruction center for training in the repair and maintenance of scientific and medical instruments and equipment. With emergence of the increased emphasis on the use of highly complex instruments used in research training and the practice of medicine and all its specialized fields, a large number of these instruments have been and will for some time continue to be imported into India. At present only small numbers of these are being produced indigenously and development of a self contained industry will proceed slowly until skilled mechanics can be trained and factories built with modern production equipment. There is therefore only a beginning of a native industry that in other countries can service and repair devices of its own as well as of foreign make. A few importing firms have service departments to assure the complete utilization of imported equipment brought in by them, but otherwise there is almost a total lack of the skills and facilities necessary to keep in service valuable equipment located all over India. It is expected that upon institution of a training course at this Center with establishment of admission standards and curriculum, the States will propose trainees for enrolment. Upon completion of their training, the students will return to their States for establishment of similar courses so that institutions may develop workshops for repair and maintenance of their own equipment.

It was planned to utilize initially the services of the short-term consultants (upon request of the GOI) with training and practical experience in the field to survey the total medical

and scientific instrument repair situation throughout India and to make definite recommendations regarding the establishment of an instruction center with assistance from U.S. technicians. Their recommendations were to include suggestions regarding facilities and equipment, faculty curriculum and other pertinent factors. Following the survey and recommendations of the consultants, it had been proposed, at the request of the GOI, to recruit two long term U.S. training specialists in this field for assignment to this project to advise and assist in the establishment and development of a training center at the All India Institute of Medical Sciences, New Delhi.

B. Special Activity Targets or End Results of the Project

The development of a well staffed and equipped center for training technicians in the theories and skills necessary for repair, maintenance and rehabilitation of medical and scientific instruments.

C. Progress Toward Achievement of Activity Targets

(1) Work accomplished to date:

In January, 1959 two consultants arrived and after consultations with Ministry of Health officials prepared an itinerary of visits to hospitals, medical schools, research institutions, technical colleges and commercial establishments distributing and servicing medical apparatus. Following this plan, visits were made to eight different areas of India where investigations were conducted. At the conclusion of their enquiries, a report was prepared presenting their conclusions and recommendations. (Report on Medical Equipment Maintenance Survey, George W. Schwager and Paul W. Barenberg).

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-54-159	E-1
				COUNTRY ECONOMIC PROGRAM		Scientific Equipment Repair Training	

The report of the consultants inferred that skilled, experienced and otherwise qualified persons were available in India to assume responsibility for the establishment of a training center proposed in this project. If the GOI concurred in this, no U.S. technicians would be required. Reaffirmation of the request for the long term U.S. technicians to assist in carrying the project forward was sought. In consequence of not having received an affirmative reply, recruitment of the U.S. technicians has been stopped. While provision for 2 technicians, 4 participants, \$25,000 commodities as well as other costs is made herein for FY 1961, due to the higher priorities accorded other continuing Health projects and the necessity for allocating limited funds to projects of high priority, this bilateral project is now expected to be cancelled.

D. Nature of the U.S. Contribution

FY 1959 - Cost of 2 consultants : \$12,000

Project now expected to be cancelled.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-54-160	E-1
				COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Laboratory Technician Training	

1	PROJECT BEGINS FY 61 ENDS FY 61	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years																				
B. Net Deob.-Reob. Current Funds																				
Total Actual Year FY 1959																				
C. Operational Year FY 1960																				
D. Budget Year FY 1961	TC	34	24			10											2			
E. All Subsequent Years																				
F. Total All Years	TC	34																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/			
Dollar Obligation and Expenditure	All Prior Years																		
	Actual Year FY																		
	Operational Year FY																		
	TOTAL																		

Problems Addressed:

II. Need to increase and improve the supply of trained manpower to industry at all levels.

VIII. High prevalence and incidence of disease and physical disability.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-54-160	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Laboratory Technician Training		

A. General Description of the Project

No obligations have been made against this project, to which no funds have been allocated.

This is a new project originally proposed for FY 60 as a result of discussions with the GOI in which the elements contained herein have been agreed to in principle. The project reflects an increased emphasis on the training of laboratory technicians and will develop a training course within a medical college (All India Institute of Medical Sciences, New Delhi) having hospital facilities so that theoretical and classroom work may be closely coordinated with supervised inservice training. It is intended to upgrade this branch of medical technology in order to attract more students to supply the ever increasing need in India for ancillary medical personnel. The need for better qualified technicians is also recognized. It is anticipated that the project will have the effect of creating higher admission standards and improved uniform curricula in the teaching institutions throughout India. There are several schools in India presenting courses in laboratory technology. Most of these are substandard and in the few slightly better schools there is a lack of uniformity and students are graduated with varying degrees of proficiency.

This project proposed during FY 59 and scheduled to begin in FY 60 will not be implemented in FY 60 due to the U.S. funds not being available.

It is nevertheless considered that the project as originally planned merits future consideration. For this reason funding provision is included in FY 1961 for 2 U.S. direct-hire technicians and commodities amounting to \$ 10,000 in support of technicians. Owing, however, to uncertainty regarding funding availabilities for this activity, in the context of other higher priority activities in the health field, further project detail is not being provided at this time.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-66-027	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Assistance to Technical Education Institutions		

1 PROJECT BEGINS FY 55 ENDS FY 59	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
	Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
															Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	SA TC	300 1,716	- -	- -	278 776	22 940	- -												
B. Net Deob.-Reob.		(16)	-	-	127	(143)	-												
Current Funds		-	-	-	-	-	-												
Total Actual Year FY 59	TC	(16)	-	-	127	(143)	-												
C. Operational Year FY 60		-	-	-	-	-	-												
D. Budget Year FY		-																	
E. All Subsequent Years		-																	
F. Total All Years	SA TC	300 1,700																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/
Dollar Obliga- tion and Expend- iture	All Prior Years	SA TC	300 1,716	- 465	954	(16)	449	449	-	938	405	533		533	263	270
	Actual Year FY															
	Operational Year FY 59															
	TOTAL	SA TC	300 1,716	- 465	954	(16)	449	449	-	938	405	533		533	263	270

Problems Addressed:

Also see cover sheet for this project under activity field
"Industry and Mining"

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November '59	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-63-060	E-1
				COUNTRY ECONOMIC PROGRAM			

1	PROJECT BEGINS FY ENDS FY	Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper-ating Country		(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years		SA TC	683 344	- 25	- -	533 279	150 40	- -												
B. Net Deob.-Reob.			-	-	-	-	-	-												
Current Funds			-	2	-	-	-	-												
Total Actual Year FY 59		TC	2	2	-	-	-	-									-	9	-	-
C. Operational Year FY 60		TC	75	-	-	75	-	-									-	9	-	8
D. Budget Year FY 61			-	-	-	-	-	-									-	9	-	-
E. All Subsequent Years																				
F. Total All Years		SA TC	683 421																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	SA TC	265 25	- 40	418 319	- -	- 40	- 40	- -	418 319	271 -	147 319		147 319	75 160	72 159
	Actual Year FY 59				2	2	2	-	2	1	1		1	1	-	
	Operational Year FY 60											75	75	-	75	
	TOTAL	SA TC	265 25	- 40	418 319	- 2	- 42	- 48	- -	418 321	271 1	147 320	- 75	147 395	75 161	72 294

Problems Addressed:

VI - Insufficient human resources educated to meet the needs of modern India

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				COUNTRY ECONOMIC PROGRAM			

Financial Summary of the Project for FY 61

	Grand Total	U.S. Commodities	U.S. Technicians	Contract Services	Contract Technicians	Contract Commodities	Contract Participants	Other Costs	PL. 480 Funds
	\$	\$	\$	\$	\$	\$	\$	\$	\$
<u>Previous Years:</u>									
FY 55	705,000	-	20,000	685,000	(470,000)	(150,000)	(65,000)	-	-
FY 56	13,740	-	13,740	-	(-)	(-)	(-)	-	-
FY 57	11,240	-	11,240	-	(-)	(-)	(-)	-	-
FY 58	319,000	40,000	-	279,000	(225,000)	(-)	(54,000)	-	-
FY 59	2,000	-	-	-	(-)	(-)	(-)	2,000	-
	1,050,980	40,000	44,980	964,000	(695,000)	(150,000)	(119,000)	2,000	-
<u>Operational Year:</u>									
FY 60	75,000	-	-	75,000	(48,000)	(-)	(27,000)	-	20,000
<u>Budget Year:</u>									
FY 61	-	-	-	-	(-)	(-)	(-)	-	-
<u>Future Fiscal Years:</u>									
FY 62 etc.	-	-	-	-	(-)	(-)	(-)	-	-
Grand Total:	1,125,980	40,000	44,980	1,039,000	(743,000)	(150,000)	(146,000)	2,000	20,000

Rupee Grand Total: 715,000

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM			

A. GENERAL DESCRIPTION OF THE PROJECT

This is a continuing project to render assistance to Home Science Education and Research. There are two interrelated phases of the project. (1) An initial phase FY 55-FY 58 which provided assistance for strengthening and developing Home Science Education in eight selected institutions. (2) This final phase FY 58-FY 61 which assists four regional demonstration centers with the planning, development, implementation and evaluation of teacher-training programs in India for home science teachers on all educational levels. The change in emphasis in this second phase came for two reasons: (1) There was little hope of direct help to every Home Science college so the demonstration technique was adopted. (2) It was felt that concentration on leadership training in four centers could make a deeper impact on both pre-service and in-service training.

The principal long range goal is to expand educational opportunities for girls and women in India with programs geared to their needs both as home makers and as wage earners. The means is through teacher training for the work opportunities under the Ministries of Education, Agriculture, Community Development and Health. Slowly private enterprise is also evolving work opportunities for trained women. Specifically in the educational field the concepts of vocational homemaking is gaining momentum on the high school level and as it does, there will be a rapidly growing demand for adequately trained teachers. Some 1,200 multipurpose high schools are already in existence. This pattern has been adopted for secondary education. The 18,000 present high schools may soon be changed over to this type of organization.

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

1. End Results:

End Results expected are adequately trained home makers and skilled and efficient workers in home science occupations.

2. Specific Activity Targets (First Phase):

- a. To help create an awareness of the importance of home making in the upgrading of the status of women in India by conferences with government officers, seminars, workshops, etc. with faculties.
- b. To widen the scope of homemaking education.
- c. To strengthen the eight selected Indian institutions in matters of curricula, methods, techniques, etc. and by U.S. advanced training of faculty members.
- d. To improve the physical facilities of the eight selected institutions, especially by providing adequate equipment for teaching purposes.
- e. To promote Home Science Research.

3. Specific Activity Targets (Second Phase):

- a. By concentrating U.S. aid efforts in four Regional Colleges to make them model demonstration centers of home science education. This involves content, method, techniques, etc.
- b. To upgrade the physical facilities, especially equipment, of the four regional colleges so they are fairly adequate for demonstration purposes.
- c. To do demonstration teaching in the various fields of home science not to exceed 25% of working time of technicians.

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				COUNTRY ECONOMIC PROGRAM			

- d. As requested and as time permits furnish consultation services to home making colleges surrounding each Regional Center.
- e. By conferences, seminars, workshops, etc. spread the proven results of the four Demonstration Centers to home making colleges in each regional area.
- f. Guide the planning and supervise the development of research programs as an integral part of the graduate activities.

G. PROGRESS TOWARD ACHIEVEMENT OF ACTIVITY TARGETS

1. Work Accomplished To Date:

- a. FY 55-58 First Phase: Specific indication of progress is furnished by the following outline of major accomplishments taken from the Second Annual Report of the University of Tennessee Team in India:
 - (1) Interest in Home Science has been increased, as evidenced by: the enthusiasm of professional Home Science workers; the support of university and college administrators from other disciplines for Home Science; the attitudes of government officials; and inquiries about Home Science education from the general public.
 - (2) The scope of Home Science has been broadened, as evidenced by: the addition of areas in Home Science and undergraduate programs, the development of graduate programs, with emphasis on research and the holding of workshops and seminars for professional Home Science workers.
 - (3) The staff in Home Science has been strengthened as evidenced by: successful implementation of the concept of

U.S. technician-Indian counterpart relationship; U.S. participant training for 11 Indian Home Science educators; and the holding of nine major workshops for in-service training of Indian Home Science faculty members.

- (4) The facilities for teaching Home Science have been augmented as evidenced by: the disbursement of \$125,500 (to 6/30/58) for technician and institutional support commodities, the introduction of new methods of teaching through use of audio-visual aid equipment; the addition of space for Home Science in six of the eight cooperating Indian institutions; the improvement of library facilities, and the production of teaching materials.

b. FY 58-61 Second Phase:

- (1) A planning survey of the four Regional Demonstration Centers was made in the last quarter of 1958 to appraise specific needs of each institution, eg. the advanced U.S. training needed, the additional equipment needed and the specific fields in which U.S. technical help was required.
- (2) In December 1958 an All-India conference of home science colleges was held to explain the plan of technical assistance by demonstration centers. Many problems, aspirations and accomplishments in home science education were discussed. This gave direction to the Demonstration Center plans.
- (3) TCM technicians, after careful study with each of the four College Faculties and with the Ministry of Education officials, have evolved a very selective list of commodities (\$40,000) to make the physical equipment in these four Regional Colleges adequate for demonstration teaching.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM		Assistance to Home Science Education and Research	

(4) Nearly all of the technicians are doing demonstration teaching up to the 25% of time limit.

(5) The two technicians in each of the Centers have assisted the Faculties in the selection of faculty members for advanced training in U.S. The eight selected have been approved by GOI and they will be going to U.S. in January, 1960.

(6) Plans are developing for consultation services for the home science colleges surrounding each Demonstration Center. Four short courses involving 6 U.S. technicians have been completed.

(7) As need arises in each of the Centers for which the assigned technicians are not qualified to cope a qualified technician from another Center is moved in to deal with it. Three instances of this have occurred (November 1959).

(8) Counterparts for each of the U.S. technicians have been assigned who will carry on the work when U.S. technical help is terminated.

2. Work Remaining To Be Done:

a. First Phase is completed. However two of the institutions with which the Final Team worked have been selected as Demonstration Centers of the second phase.

b. Second Phase - Second Team:

(1) The development of the Four Regional Colleges into Demonstration Centers is only nicely begun. The equipment is on order but has not yet begun to arrive. However, it

is expected the work will be reasonably well completed by the termination date of the contract (late 1960).

(2) The limits of time available to the team to fill requests of the home science colleges surrounding each Demonstration Center for U.S. consultation services is being reached rapidly. This work — conferences, short courses, symposiums, etc. — will continue during the life of the contract. It should have a real impact on home science instruction.

(3) The demonstration teaching will continue under the 25% time limitation. This should upgrade faculty instruction.

(4) Although the spreading of the proven results of the Demonstration Centers is just starting, this process should be in full swing by the terminal date of the Tennessee Contract (late 1960). This will be accomplished by publications, conferences, seminars, workshops, conventions, etc.

(5) Course work in scientific research methods has been given on the graduate level. Student research projects are beginning, but none have been finished. The Tennessee Team has started a statistical research into the different phases of home science education.

D. NATURE OF U.S. CONTRIBUTION

a. Previous Fiscal Years:

FY 55: \$705,000 total; \$20,000 for on roll technicians, \$685,000 contract services including \$150,000 for commodities and \$65,000 for 11 participants.

FY 56: \$13,740 total for on-roll technicians.

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				COUNTRY ECONOMIC PROGRAM		Assistance to Home Science Education and Research	

FY 57: \$11,240 total for on-roll technicians.

FY 58: \$119,000 total; \$40,000 for commodities, \$279,000 for contract services including \$54,000 for 8 participants.

FY 59: \$2,000 total other costs.

Total previous years \$1,050,980; \$44,980 for on-roll technicians, \$40,000 for commodities outside the contract, \$2,000 for other costs, \$964,000 for contract services which includes \$695,000 for contract technicians, \$150,000 for commodities and \$119,000 for participants.

b. Operational Year FY 60:

\$75,000 total; \$75,000 for contract services which includes \$48,000 for contract technicians and \$27,000 for 8 participants. \$20,000 in rupees provided \$16,000 for international travel of participants and \$4,000 for other costs. Unused balance in contract may be used for commodities.

c. Budget Year FY 61:

Any possible funding depends on special needs not completely covered by second phase contract amendment. No proposal as of now. Present contract phased out.

No funding in FY 61.

d. Future Fiscal Years:

(See c. above)

E. NATURE OF COOPERATING COUNTRY'S CONTRIBUTION DURING LIFE OF SECOND PHASE OF CONTRACT

a. Furnishes office space, supplies equipment, communication services, printing and duplicating facilities and secretarial service. Estimated cost Rs. 75,000 interpreter service, translation service, etc.

b. Basic operating facilities (laboratories, workshops, classrooms).

c. Access to pertinent official records and documents.

d. Per diem cost for each technician at rates of Rs. 15 or Rs. 25 per day as per TCM-GOI agreement.

e. Salaries of participants while on U.S. training tours.

f. Inland transportation costs of U.S. commodities estimated at Rs. 25,000.

g. Customs charges on U.S. commodities estimated at \$40,000 (Rs.195,000).

Grand Total Rs.295,000. The First Phase cost estimated at Rs.325,000.

F. CONTRIBUTIONS FROM OTHER SOURCES DURING BOTH PHASES OF CONTRACT AND RELATIONSHIP TO OTHER PROJECTS

a. Other Sources:

(1) USEFI has made a contribution to Home Making Education of \$7,200 over four years.

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-63-060	E-1
				COUNTRY ECONOMIC PROGRAM		Assistance to Home Science Education and Research	

(2) Ford Foundation has made a contribution to Home Making Education largely in the extension field of \$635,879 over three years. The high point of contribution was in 1954 of \$618,000.

(3) UNESCO, Colombo Plan and U.K. Council have made some contributions but of a relatively minor nature.

This project has the enthusiastic endorsement of the Ministry of Education, the Planning Commission and GOI generally. TCM considers women's education generally and home science specifically very important in the educational scheme in India.

b. Relationship to Other Projects:

(1) This project has a relation to the Home Science Extension sector of OO7 Agriculture and Home Science Extension and Training. The projects are complementary to each other.

This project should furnish the Home Science Education for teachers for 063 Secondary Education Vocational Home Science departments.

(2) Programs have always been worked out by conference so that there is no overlap or duplication.

G. FINANCIAL CONSIDERATIONS

The institutions helped are established units, the expenses of which are now carefully budgeted, the aid to which, is included as part of the Second Five Year Plan.

All the components of the Second Phase program are now on a current basis.

H. COOPERATING COUNTRY-TCM COORDINATION

All the elements of the Second Phase have been previously approved by GOI and TCM and ICA/W.

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			<input type="checkbox"/> REVISION NO.		COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Assistance to the Extension Training Program for Secondary School Teachers												
1	PROJECT BEGINS FY 56 ENDS FY 65	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C)	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country	Other External Financing	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
		A. All Prior Years	TC	1,512	-	-	462	1,050											
		B. Net Deob.-Reob.	TC	7	-	-	36	(29)											
		Current Funds		-	-	-	-	-											
		Total Actual Year FY 59	TC	7	-	-	36	(29)											
		C. Operational Year FY 60	TC	42	-	-	42			8			8				6		
		D. Budget Year FY 61	TC	700	-	-	700										15		48
		E. All Subsequent Years	TC	3,954															
		F. Total All Years	TC	6,215															
		2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960				
					(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60	
All Prior Years	TC				940	71	572	7	7	7	-	579	195	384		384	211	173	
Actual Year FY 59																			
Operational Year FY 60	TC														42	42	-	42	
TOTAL	TC	940	71	572	7	7	7	-	579	195	384	42	426	211	215				
Problems Addressed:																			
VI. Insufficient human resources educated to meet the needs of modern India.																			
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Summary of U.S. Funding for the Project

	Grand Total \$	U.S. Commodities \$	Contract Services \$	Contract Technicians \$	Contract Participants \$	Contract Commodities \$
<u>Previous Years</u>						
FY 56	1,177,900	846,000	331,900	$\frac{4}{4}$ (331,900)	(-)	(-)
FY 57	323,000	184,000	139,000	$\frac{4}{4}$ (101,000)	$\frac{10}{10}$ (38,000)	(-)
FY 58	-	-	-	(-)	(-)	(-)
FY 59	35,000	-	35,000	(35,000)	(-)	(-)
Total ...	1,535,900	1,030,000	505,900	(467,900)	(38,000)	(-)
<u>Operational Year</u>						
FY 60	42,000	-	42,000	$\frac{1}{1}$ (42,000)	(-)	(-)
<u>Budget Year</u>						
FY 61	700,000	-	700,000	$\frac{9}{9}$ (425,000)	$\frac{46}{46}$ (275,000)	(-)
Total ...	742,000	-	742,000	(467,000)	(275,000)	(-)
<u>Future Fiscal Years</u>						
FY 62	1,550,000	-	1,550,000	$\frac{23}{23}$ (1,150,000)	(-)	(400,000)
FY 63	774,000	-	774,000	$\frac{8}{8}$ (400,000)	$\frac{18}{18}$ (94,000)	(280,000)
FY 64	1,430,000	-	1,430,000	$\frac{23}{23}$ (1,150,000)	(-)	(280,000)
FY 65	200,000	-	200,000	(200,000)	(-)	(-)
Total ...	3,954,000	-	3,954,000	(2,900,000)	(94,000)	(960,000)
Grand Total ...	6,231,900	1,030,000	5,201,900	(3,834,900)	(407,000)	(960,000)

$\frac{\square}{\square}$ Indicates number of technicians and participants.

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Summary of Local Currency

	Total	Teachers College Building	Teachers College Equipment	Multipurpose High School Building	Multipurpose High School Equipment	Scholar- ships	Administrative Assistant, etc.	Other Costs
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
FY 60	40,000	-	-	-	-	-	-	40,000
FY 61	4,806,000	2,796,000	-	<u>1</u> 2,000,000	-	-	10,000	-
FY 62	11,390,000	-	1,840,000	<u>14</u> 7,000,000	1,600,000	800,000	100,000	50,000
FY 63	47,500,000	-	-	<u>14</u> 7,000,000 <u>68</u> 34,000,000	5,600,000	800,000	100,000	-
FY 64	83,700,000	-	-	<u>100</u> 50,000,000	5,600,000 27,200,000	800,000	100,000	-
FY 65	130,900,000	-	-	<u>100</u> 50,000,000	40,000,000 40,000,000	800,000	100,000	-
	278,336,000	2,796,000	1,840,000	150,000,000	120,000,000	3,200,000	410,000	90,000

* Indicates number of buildings.

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		1, November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Assistance to the Extension Training Program for Secondary School Teachers.		

A. GENERAL DESCRIPTION OF THE PROJECT

The purpose of this project is to provide assistance to the Central Ministry of Education in its efforts to reorganize and improve secondary education throughout India. Assistance under this project will be primarily focused on strengthening the preparation of teachers for the vocational streams of the multipurpose high school and the development of the multipurpose high school. More specifically, this involves:

1. An international travel seminar for State educational leaders in the field of secondary education with special reference to the vocational fields.
2. The training program in the U.S.A. for Indian teacher educators in modern techniques of vocational education.
3. The development of four regional vocational teacher education institutions.
4. The development of four experimental multipurpose high schools to be attached to the regional vocational teacher education institutions.
5. The development of two model multipurpose high schools in each state (28 schools).
6. The construction of 300 model multipurpose high school building, one in each of the 300 districts of India.

Secondary education in India, as in most countries in the world, occupies a vital position in the total educational scheme. While the strengthening and improvement of secondary education is extremely important in its own right, it must be remembered that

it is also the primary key to the improvement of higher education because the graduates of secondary schools constitute the pool of human resources from which will be drawn the future business, industrial, professional and technical personnel for India. It should also be noted that teachers for elementary schools are usually drawn from the ranks of the high school graduates.

The Nature of the Multipurpose High School

The multipurpose high school differs from the traditional, academic secondary school in that it provides both college preparation and terminal education. The program consists of providing a core of general education experiences for all students plus seven different elective streams, including Humanities, Science, Agriculture, Commercial, Technical, Home Science and Fine Arts. A student electing one of these streams may receive both the necessary background for continuing the work in college and the professional fields involved and also the fundamentals necessary for entrance into a gainful occupation.

The multipurpose higher secondary school has been accepted as the desirable type of school to promote the objectives stated by the Secondary Education Commission in its 1953 Report and accepted by the State Department of Education. In commenting on the schools prior to that date, the Commission said:

"This education was too bookish and mechanical and did not cater to the different aptitudes of the pupils The unilateral scheme of studies which concentrated almost entirely on preparing students for entrance to the University was not calculated to bring out the best either in the teacher or the pupil..... Again, a failure to provide diversified courses of study made it difficult for many students to secure suitable employment at the end of the course."

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The multipurpose school makes it possible: (1) to cater to different interests and aptitudes of students; (2) to provide for practical and vocational efficiency, especially for students who will not seek higher education, and thus; (3) to provide the basis for good citizenship in an evolving democratic society. Experience has shown that the multipurpose school is economically and socially advantageous.

Economically there are two facets: (1) It is much cheaper to operate a multipurpose high school than to operate parallel single-purpose high schools because there is a core of subjects fundamental to all. So the waste of duplication is avoided. In small communities, it is the only possible organization because of costs. Most of India is rural. (2) There is great need for highly skilled mechanics to support and push forward India's industrialization both large and small. The small industry is and probably will remain the great job opportunity for the skilled mechanic.

Socially it is highly desirable, especially in India, for the professional man and the skilled mechanic to rub elbows in getting their early education so they will in later life respect each other's abilities and personal qualities. This has far-reaching implications in a democratic state where it is particularly important to instill a respect for the dignity of labor.

The Second Five-Year Plan target (bringing the total number of multipurpose schools to 1,500) has almost been reached, since at the present time over 1,100 schools are so classified. Qualitatively, however, much is still to be desired. A recent sampling survey of multipurpose schools shows that the blocks to improvement are: (1) lack of agreement on the purposes and functions of the multipurpose high schools and of the practical streams provided therein; (2) shortage of qualified teachers, especially in the vocational streams; (3) absence of provision for pre-service training of

teachers; (4) lack of provision for vocational-guidance personnel; (5) dearth of instructional materials; and (6) inadequacy of physical facilities.

Urgency of Teacher-Education Program

As in all educational programs, the key to success depends upon quality of teaching personnel. Provision has been made in India in the 167 institutions recognized by the Central Ministry of Education for the preparation of teachers of the traditional, academic subjects. In addition, a comprehensive concentrated program of in-service education has been developed and implemented during the past several years for the improvement of teachers in secondary education. But the fact remains that there has been no institution developed for preparing the teachers for the vocational streams of the multipurpose high school and, as a result, it has been impossible for the schools to implement their plans for the vocational streams. Thus, the multipurpose high school ideas have grown and have been accepted, but in reality those fields which make the multipurpose high school different from the traditional, academic education program have not even begun to attain their potential effectiveness. In order to meet the need for qualified teachers of the vocational streams, it is proposed under this scheme to develop four regional vocational teacher-education institutions which will guarantee a supply of highly qualified teachers.

Participants

The establishment of these four regional teacher-education institutions will call for a faculty of qualified teacher-educators in these vocational fields. At the present time, there is no such group of qualified personnel available. In order to meet this demand, it is proposed to select and send to the United States a group of experienced and competent Indian teachers for training as

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teacher-educators in the vocational education fields.

Further, in addition to the participant program for the teacher-educators, an international seminar is planned for Indian school administrators and supervisors from the State and Center Ministries. Through such a program, the leaders would be able to study vocational education programs in the U.S.A. and in several other countries where outstanding work has been done in this area.

Model Multipurpose Schools

While over 1,100 multipurpose schools have been established in India, for the most part these schools have no more than three streams, perhaps including only one of the vocational streams. Furthermore, a survey has shown that confusion as to the purposes of the multipurpose schools and of the practical streams is widespread. It seems obvious to all concerned in the establishment and implementation of the multipurpose schools that one of the greatest needs is for a number of model schools to be established in order to demonstrate the effectiveness of this educational institution.

It is proposed that one demonstration school be developed in connection with each one of the four teacher training colleges. Then, in order to make such model schools accessible for observation by administrators and teachers throughout India, it is proposed that two model multipurpose schools be developed in each State - a total of 28 schools. Finally, it is proposed that one model multipurpose school building be built in each of the 300 districts in India.

B. SPECIFIC ACTIVITY TARGETS AND END RESULTS

1. End Results:

The ultimate goal is to provide the educated manpower in

sufficient quantity to adequately man India's expanding industrial and economic development. To accomplish this end, the multipurpose secondary school will serve two major objectives:

- a. To furnish in adequate numbers thoroughly prepared students for higher education with proper emphasis on the professional school side.
- b. To furnish in sufficient numbers skilled technical workers. In some instances this manpower will be trained adequately at the high school level. In other instances, the high school education will serve as a firm foundation on which to build the technical training.

2. Specific Activity Targets (1961-65) to Start in FY 61:

- a. To establish four Regional Vocational Teacher Training Colleges. The enrollment in each College will be approximately 200. The course will be for one academic year. The fields of specialization will be Agriculture, Commercial, Home Science, Technical, Crafts and Vocational Guidance. The prerequisite for this training will be a bachelor's degree emphasizing one of the vocational fields. (However, in the technical education field, it will probably be necessary to admit graduates of the polytechnical institutes.)
- b. To establish thirty two new demonstration multipurpose schools as lighthouses of the ideal organization and structure of the multipurpose high school and especially to focus attention on the functioning of the vocational streams on a quality basis to meet the needs of advancing economic and industrial development. Four of these institutions will be demonstration schools attached to the four new teacher training institutions. The other 28 will be model multipurpose schools - two located in each

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State. These 32 schools will be free to experiment in the interest of developing the best possible educational program at the secondary school level.

c. Three sets of participants are to be trained in connection with this project:

- (1) Fourteen Directors of Public Instruction (or Deputies) or Secretaries from the States and two officers from the Central Ministry to observe the organization, administration and practices of vocational education in other countries by means of International Travel Seminar.
- (2) Thirty teachers would be given one year of training in U.S. so that when they return to India they will be qualified to serve on the staffs of the four Regional Vocational Teacher Education Colleges.
- (3) Eighteen supervisors to U.S. for six months to observe and study vocational education of less than college grade.

C. PROGRESS TOWARD ACHIEVEMENT OF ACTIVITY TARGETS

1. Work Accomplished to Date:

a. First Phase of Program:

First phase was concerned with the development of an in-service education program for secondary school teachers. A team of four technicians were provided under Contract. Three of these two year technicians have completed their assignments — Curriculum and Organization, Science and Social Studies. The fourth in Evaluation is just arriving. FY 60.

54 education extension centers were established, staffed and equipped and are functioning. The Ohio State University team participated in some 92 workshops, seminars, conferences, etc. held to upgrade both content and teaching. Some 3,000 Headmasters, officials and teachers were involved in these meetings.

b. Second Phase:

Second phase of the project is being directed toward the development of Vocational Education in the multipurpose school curriculum. A team of five Ohio State University College contract technicians are provided. Four of these are on duty and the fifth should be arriving in FY 60. The specific assignment involves the development of 26 selected multipurpose high schools.

2. Work Remaining to be Done:

- a. Build and equip four Regional Colleges.
- b. Build and equip 32 demonstration Multipurpose High Schools, four as experimental schools connected with the four Regional Vocational Colleges.
- c. Build and equip 268 additional multipurpose high schools. With the 32 demonstration schools in b. above, this would provide one fully equipped multipurpose high school in each political District of India. The impact of this program will rank high among the major projects of Third Five Year Plan.
- d. A 64-man participant U.S. training program in three groups spread over two years. FY 61 - (46), FY 63 - (18). Part of these are to staff the four Regional Colleges. The others are educational officials who need to develop a clearer concept of the scope and content of vocational education.

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e. The sponsoring of a scholarship program to attract the best student talent to the four teacher education colleges.

3. Progress Toward Achievement - Third Phase:

- a. A survey has been made by Ohio State Team of the Multipurpose School situation in India and a Report has been made to the Ministry of Education and TCM.
- b. The plans represented by this third phase of the project have arisen out of recommendations based on the Survey Report. These have been so favorably received by the Ministry of Education that they are now formalized in this E-1.

D. NATURE OF U.S. CONTRIBUTION - T.C. FUNDING

1. Previous Fiscal Years:

FY 56 \$331,900 contract services for 4 two-year specialists three of which have completed assignment.
\$846,000 of commodities outside contract.
Total: \$1,177,900.

FY 57 \$139,000 contract services including \$38,000 for participants; \$184,000 commodities outside contract. Total: \$323,000.

FY 58 No funding.

FY 59 \$35,000 contract services. (Administrative Assistant).
Total Previous Years: \$ 1,535,900

2. Operational Year FY 60:

One two year technician in Vocational Guidance to serve first with the Second Phase Team and then with the Headquarters team explained later, \$42,000 and \$8,000 in Sec. 402 rupee funds. (40,000 rupees).

3. Budget Year FY 61:

- a. Eight two-year technicians - Chief of Party, Agriculture, Commercial, Home Science, Technical, Crafts, Curriculum Development and Science as Headquarters team to supervise the planning and development of the third phase of the program and to continue to follow the inservice education program. (Holdover Vocational Guidance technician will also be a member of the team.)
\$ 400,000
- b. One Consultant in school building planning for six months to help plan the Four Regional Colleges and the Multipurpose High Schools:
\$ 12,000
- c. Extension of tour of present Chief of Party for overlap with new team - six months:
\$ 13,000
- d. Sixteen participants for International Travel Seminar with American leader. Fourteen from the fourteen States, either Secretaries or Directors of Public Instruction, and two from Central Ministry of Education, plus transportation and per diem for Seminar leader.

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The purpose is to acquaint these education leaders with Vocational Education in countries doing outstanding work in this field. Since Vocational Education is in its embryonic stage in India, and since the educational leaders have had little experience in developing such programs, it seems particularly important that they gain experience in this field. This seminar group will study the organization and administration of the comprehensive high school curriculum, guidance, vocational teacher preparation, finance and physical facilities.

\$ 65,000

e. Thirty participants for U.S. study for one year. Upon completion of study programs these participants will return to India and become members of the faculties of the four Regional Colleges. They will be in four groups in the following special fields — Agriculture, Home Science, Commercial, Technical, Crafts and Guidance. Each of these participants will be primarily concerned with the content, organization and methodology of his special subject but will want an overview of the features indicated in d. above. The other six will be concerned with organization, and administration of vocational education.

\$ 210,000

Total cost .. \$ 700,000

All of FY 61 will be in contract services.

4. Future Fiscal Years:

a. FY 62

(1) Twenty two technicians in four teams of five each — Agriculture, Home Science, Commercial, Technical and Crafts — for each of the four Regional Colleges. One of each team will be designated as team leader. Two technicians in vocational guidance will serve the four colleges.

\$ 1,100,000

(2) Renewal of Headquarters Team Vocational Guidance Technician for two years.

\$ 50,000

(3) Participants none.

(4) Commodities: Equipment for the four Regional Colleges @ \$80,000 percollege; equipment for four new Demonstration Multipurpose High Schools @ \$20,000 per school. (U.S. Title).

\$ 400,000

Contract Services Total: \$ 1,550,000

b. FY 63

(1) Renewal of Headquarters team - eight technicians for two years

\$ 400,000

(2) Participants 18 for six months. These participants will be on the supervisory level, the object would be to acquaint them with supervision and evaluation procedures of teachers and pupils with some special emphasis on vocational education.

\$ 94,000

(3) Foreign Exchange equipment for 14 Multipurpose Schools @ \$ 20,000

\$ 280,000

Contract Services Total \$ 774,000

c. FY 64

(1) Renewal for twenty two two-year technicians assigned to four Regional Colleges

\$ 1,100,000

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(2) Renewal of Vocational Guidance technician in Headquarters team for two years

\$ 50,000

(3) Participants none.

(4) Commodities: Foreign Exchange component for 14 Multipurpose High Schools

\$ 280,000

Contract Services Total ... \$ 1,430,000

d. FY 65

(1) Renewal of eight man Headquarters team for one year

\$ 200,000

(2) Participants none

\$ -

(3) Commodities none

\$ -

Contract Services Total ... \$ 200,000

e. FY 66

No funds needed. Contract phases out.

E. NATURE OF U.S. CONTRIBUTION - L.C. FUNDING

1. FY 61 Funding (PL. 480 Rupees)

a. Build four Regional Colleges specializing in Vocational Teacher Education @ Rs. 699,000

Rs. 2,796,000

b. Four new demonstration Multipurpose Schools attached to the four Regional Vocational Colleges are to be built to serve as model schools and for experimentation @ Rs.500,000

Rs. 2,000,000

c. Administrative Assistant and jeep driver

Rs. 10,000

Total: Rs. 4,806,000

2. FY 62 Funding (PL. 480 Rupees)

a. Indian Equipment for four Regional Colleges @ Rs.460,000

Rs. 1,840,000

b. Indian equipment for four demonstration Multipurpose Schools @ Rs. 400,000

Rs. 1,600,000

c. Scholarships to the four Regional Colleges one year @ Rs.1,000 per year

Rs. 800,000

d. Five administrative assistants and five jeep drivers, one year

Rs. 50,000

e. Office supplies and secretarial help, one year

Rs. 50,000

f. Other Costs

Rs. 50,000

g. Build fourteen Demonstration Multipurpose High Schools @ Rs. 500,000

Rs. 7,000,000

Total: Rs. 11,390,000

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3. <u>FY 63 Funding (PL. 480 Rupees)</u>		f. Build 100 Multipurpose High Schools @ Rs. 500,000		Rs. 50,000,000
a. Building 14 Multipurpose High Schools @ Rs. 500,000	Rs. 7,000,000			Rs. 83,700,000
b. Scholarships for four Regional Colleges - one year	Rs. 800,000	5. <u>FY 65 Funding (PL. 480 Rupees)</u>		
c. Indigenous equipment for fourteen Multipurpose High Schools @ Rs. 400,000	Rs. 5,600,000	a. Scholarships to four Regional Colleges	Rs. 800,000	
d. Five administrative assistants and five jeep drivers	Rs. 50,000	b. Five administrative assistants and five jeep drivers	Rs. 50,000	
e. Office supplies and secretarial help	Rs. 50,000	c. Indigenous equipment for 100 Multipurpose High Schools @ Rs. 400,000	Rs. 40,000,000	
f. Build 68 multipurpose high schools @ Rs. 500,000	Rs. 34,000,000	d. Office supplies and secretarial services	Rs. 50,000	
	Total: Rs. 47,500,000	e. Build and equip 100 Multipurpose High Schools @ Rs. 900,000 (500,000 plus 400,000)	Rs. 90,000,000	
4. <u>FY 64 Funding (PL. 480 Rupees)</u>		Total: Rs. 130,900,000		
a. Scholarships for four Regional Colleges	Rs. 800,000	F. <u>NATURE OF COOPERATING COUNTRY CONTRIBUTION</u>		
b. Indigenous equipment for 14 multipurpose high schools @ Rs. 400,000	Rs. 5,600,000	1. <u>Teachers - 300 Multipurpose High Schools</u>		
c. Indigenous equipment for 68 Multipurpose High Schools @ Rs. 400,000	Rs. 27,200,000	Estimating the average enrollments at 700 students, this would mean an average faculty of about 30, or a total of 9,000 new teachers. Estimated average wage including housing and allowances at Rs. 8,000, these teachers will mean an added cost of Rs. 72,000,000 (roughly \$13,000,000) each year.		
d. Five administrative assistants and five jeep drivers	Rs. 50,000	2. <u>Teachers - 4 Regional Colleges</u>		
e. Office supplies and services for one year	Rs. 50,000	Estimating a faculty of 11 in each college, this would mean 44		

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-65-063	E-1
				COUNTRY ECONOMIC PROGRAM		Assistance to the Extension Training Program for Secondary School Teachers.	

new college teachers at Rs.12,000 per year, (including housing and allowances) and the added cost each year will be Rs.530,000 or \$110,000.

3. Salaries of participants are continued during U.S. training, which is roughly estimated at Rs. 450,000 or \$95,000.

4. Travel and per diem for 31 technicians @ Rs. 25 and Rs. 15 per day paid by GOI into joint fund, estimated at Rs. 392,000. (Roughly \$80,000).

5. Inland freight and customs charges \$50,000.

G. CONTRIBUTIONS FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

1. Other Sources:

a. Ford Foundation has contributed from 1953 through 1958 toward Secondary Education \$ 2,023,348

b. USEFI has contributed to Secondary Education over the period of 1952 to 1959 about \$ 250,000

Total: \$ 2,273,348

2. Relationship to Other Projects:

a. The Ford Foundation has assisted the Secondary Education Extension Training Program largely through:

- (1) "Budgetary Support" on a matching basis
- (2) Short-term U.S. consultants and some U.S. training for Indian educators.

b. USEFI has provided teams of U.S. educators to direct workshops for Indian secondary school teachers and headmasters.

c. There is a very positive and complementary relationship between this project and project 184 - "The National Professional Education Center". The Center is largely concerned with graduate teacher education and this will be influential in the preparation of headmasters for the multipurpose schools. Projects in Agriculture, Home Science and Labor are also complementary in that through those programs, students will be prepared for the further training provided in the Vocational Education Colleges.

H. FINANCIAL CONSIDERATION

It is proposed to have a contract with Ohio State University covering all ICA funding. The contract will be amended each fiscal year as indicated in the breakdown by fiscal years, thus keeping the pipeline to a minimum.

The Indian Central Government is providing for the improvement and expansion of secondary education in the Third Five Year Plan and is budgeting funds for the operational expenses of this expansion through an aid program to the States.

I. COOPERATING COUNTRY-TCM COORDINATION

The plan for vocational teacher training and this expansion of buildings and facilities of multipurpose high schools has been cooperatively developed by the GOI Ministry of Education, Ohio State University team and TCM. The plan as herewith presented is being considered by the Planning Commission.

RM #D-109 59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
	1, November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-69-074	
			COUNTRY ECONOMIC PROGRAM	PROJECT TITLE		
			SCHOOL BUILDING IMPROVEMENT			

Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
														Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
TC	45	35	-	-	10	-												
	1	1	-	-	-	-												
	18	18	-	-	-	-												
TC	19	19	-	-	-	-												
	-																	
	-																	
	-																	
TC	64																	

Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
	(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
TC	33	-	12	1	1	1	-	13	7	6		6	6	-
TC				18	18	18	-	18	16	2		2	2	-
TC	33	-	12	19	19	19	-	31	23	8		8	8	-

VI - Insufficient human resources educated to meet the needs of modern India.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-69-074	E-1
				COUNTRY ECONOMIC PROGRAM		SCHOOL BUILDING IMPROVEMENT	

1. GENERAL DESCRIPTION OF THE PROJECT

This project involved providing assistance to the GOI Ministry of Education in school building planning in order to improve school construction and utilization in India.

Expansion of the educational system of India demands the planning and construction of many additional school buildings on an economical basis as is consistent with educational requirements. Redirection of education with concomitant changes in objectives and curricula demand new approaches to utilization of the physical plant, which in turn requires a new concept of school building planning.

Activity under this project which terminated in FY 59 included the services of one technician for a two year period and \$10,000 worth of commodities used by the U.S. technician for demonstration purposes.

2. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

- a. Develop a concept of school building planning which represents the best adaptation of U.S. theory to the Indian situation.
- b. Render consultant services concerning the planning, construction and utilization of school buildings which are functional in India.
- c. Assist with the establishment of organizational units for school building planning within GOI and State Education Ministries.
- d. Assist with the preparation of bulletins, filmstrips and other aids for school buildings planning instructional activities.

3. PROGRESS TOWARD ACHIEVEMENT OF ACTIVITY TARGETS

The work of the U.S. technician was largely responsible for the following results:

- a. The Ministry of Education especially, now is "School Building Planning" conscious and a concept of this area based on U.S. theory but realistic in terms of the Indian situation has been developed and is being promulgated throughout India.
- b. Consultant services on school building problems and topics have been provided to scores of educators working throughout India. A specific and important result of this activity has been the development of a "Functional Core" type of village school building which can be expanded economically as required. This result has reached the attention and received the backing of the Prime Minister of India.
- c. The GOI Ministry of Education and all State Ministries of Education now have school building planning units which are cooperating in carrying out a planned series of conferences, workshops and seminars for the improvement of school building in India.
- d. Bulletins, filmstrips and other aids for school building planning instructional activities have been produced and are being distributed by the Center unit, of which the U.S. technician was a member.

Through this project the Ministry of Education has undertaken a planned program of action for school building improvement. Having served its purpose the project was phased out on schedule.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION	COOPERATING COUNTRY	386-69-074	E-1
		1 November 1959		UNCLASSIFIED	INDIA		
				COUNTRY ECONOMIC PROGRAM		SCHOOL BUILDING IMPROVEMENT	

4. NATURE OF THE U.S. CONTRIBUTION

Total dollar obligations through FY 59 were \$64,000. The project has been phased out and no future financial contributions will be made.

5. CONTRIBUTION FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

Insofar as is known, no other external aid has been provided in this area.

6. NATURE OF COOPERATING COUNTRY CONTRIBUTION

Not applicable - project phased out.

7. FINANCIAL CONSIDERATIONS

Not applicable - project phased out.

8. COOPERATING COUNTRY - TCM COORDINATION

Not applicable - project phased out.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-69-107	E-1
	COUNTRY ECONOMIC PROGRAM			PROJECT TITLE RURAL INSTITUTES			

1	PROJECT BEGINS FY 57 ENDS FY 61	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contrib- utions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Contract	Con- tract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years		TC	25	-	-	-	25	-											
B. Net Deob.-Reob.			(1)	-	-	-	(1)	-											
Current Funds			211	9	120	82	-	-											
Total Actual Year FY 59 *		TC	210	9	120	82	(1)	-	37			37			-	-	20	-	-
C. Operational Year FY 60		TC	50	5	-	45	-	-							-	5	-	-	-
D. Budget Year FY 61		TC	30	-	-	-	30	-							-	1	-	-	-
E. All Subsequent Years			-																
F. Total All Years		TC	315									37							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	13	-	12	(1)	(1)	(1)	-	11	9	2		2	2	-
	Actual Year FY 59 *	TC				211	211	211	-	211	8	203		203	103	100
	Operational Year FY 60	TC											50	50	10	40
TOTAL		TC	13	-	12	210	210	210	-	222	17	205	50	255	115	140

Problems Addressed:

VI. Insufficient human resources educated to meet the needs of modern India.

* AS adjusted after close of actual year.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-69-107	E-1
				COUNTRY ECONOMIC PROGRAM		RURAL INSTITUTES	

Financial Summary of the Project for FY 61

	Grand Total	U.S. Technicians	U.S. Commodities	U.S. Participants	Contract Services	Contract Technicians	Contract Commodities	Contract Participants	Sec. 402 Funds
	\$	\$	\$	\$	\$	\$	\$	\$	\$
<u>Previous Years</u>									
FY 57	24,000	-	24,000	-	-	(-)	(-)	(-)	-
FY 58	-	-	-	-	-	(-)	(-)	(-)	-
FY 59	211,000	9,000	-	120,000	82,000	(82,000)	(-)	(-)	37,000
Total:	235,000	9,000	24,000	120,000	82,000	(82,000)	(-)	(-)	37,000
<u>Operational Year</u>									
FY 60	50,000	5,000	-	-	45,000	(45,000)	(-)	(-)	-
<u>Budget Year</u>									
FY 61	30,000	-	30,000	-	-	(-)	(-)	(-)	-
Total New Funds:	80,000	5,000	30,000	-	45,000	(45,000)	(-)	(-)	-
<u>Future Years</u>									
	-	-	-	-	-	(-)	(-)	(-)	-
	315,000	14,000	54,000	120,000	127,000	(127,000)	(-)	(-)	37,000

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-69-107	E-1
				COUNTRY ECONOMIC PROGRAM		RURAL INSTITUTES	

A. GENERAL DESCRIPTION OF THE PROJECT

The Ministry of Education, three years ago, initiated the Rural Institute scheme to make an experimental approach to the problems of rural rehabilitation and rural education in India. The educational and training campaign is on a wide front - social, economic, and cultural - specialization is offered in rural social services, rural extension services, applied agriculture training, rural action research and rural teacher training. Field observation, field project activities and field practice in the village services are very important parts of this education. The level of study is post high school but does not reach upward to the full university level at present. The Institutes are located in rural settings with ample grounds for agricultural activities.

To facilitate the experimental programs of the Rural Institutes the Ministry of Education has established an external examination system separate from the university system which: (1) takes into consideration the applied approach of this education, giving considerable weight to problem solving in it, (2) allows each institution by internal examination largely devoted to evaluation of field work skills to determine 20% of the final grade of the student - 80% external exam and 20% internal exam. The internal exam sector will be enlarged as the faculties gain more experience with it. The external exam cannot evaluate satisfactorily field work skills and efficiencies. This, by its very nature, has to be appraised by the faculties of each institution. Nor is 20% a proper proportion in the final grade for these field activities. The suggestion has been advanced that the right proportion between external and internal evaluation of the students achievement in this project should be 50%-50%.

The Central Government cooperating with the State Governments have established a separate certificate for the graduates of the

Rural Institutes which is being accepted for employment in Community Development programs. The first graduates last year were rather readily placed.

A conscious effort is made to enroll students from the rural environment (1) to be able to build on their background experiences in this educational crusade against rural problems (2) to more easily stimulate their rural loyalties into deep dedication for work in rural areas.

The project developed out of three different rural survey reports sponsored by the Ford Foundation which brought into bold relief the nature of rural problems and indicated the need for a reconsidered educational approach to these problems. As a result, the Ministry of Education established ten experimental Rural Institutes.

By the present University contract with Berea College, help is to be provided to these ten institutes for two fields of the program - research and extension - through five U.S. technicians, U.S. participant training and commodity support for U.S. technicians.

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

1. End Results:

- a. The long term objective of this experiment is to provide effective workers for the great task of rural rehabilitation through the marked revival of hope, initiative and ambition of the population of Rural India (80% of the total).
- b. A concomitant objective is to make these experimental Institutes so successful that they will be lighthouses of effective rural

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-69-107	E-1
				COUNTRY ECONOMIC PROGRAM		RURAL INSTITUTES	

education for rural rehabilitation and out of them will emerge the future pattern of Rural Higher Education.

2. Specific Activity Targets:

a. Development of curricula in different specialities to be taught at the 10 experimental institutes.

b. Development of work plans for the effective operation of the 10 experimental rural institutes.

c. Faculty improvement program for Indian teachers and administrators of the staffs of the experimental schools.

d. Research into problems relating to extension of the rural institutes scheme on an All-India basis.

e. Equipping the Institutes with essential teaching aids and books.

d. Negotiations are completed with Berea College for technical services.

2. Work Remaining to be Done:

a. Finalization of contract and arrival of long term technician to work in research and extension.

b. Four consultants to arrive during fiscal year 60. Specialities to be determined after the arrival of U.S. technician.

c. Specifications to be written for \$30,000 for commodities in support of technicians.

d. Development of work plans in research and extension to be supervised by U.S. technician.

3. Progress Toward Achievement of Targets:

The project in terms of U.S. help is barely started. See C.1.a, b, & c.

C. PROGRESS TOWARD ACHIEVEMENT OF PROJECT ACTIVITY TARGETS

1. Work Accomplished to Date:

a. Dean Smith of Berea College recently completed an evaluation of all the Rural Institutes.

b. After an International Seminar for twenty participants (faculty members of the ten Rural Institutes) they have arrived at Berea College for a year of intensive study of techniques of rural services.

c. \$25,000 in library books have been distributed to the ten Institutes (FY 57).

D. NATURE OF U.S. CONTRIBUTION

1. Previous years:

- FY 57: \$ 24,000 in Commodities have been PIO/C'd.

- FY 58: Nothing.

- FY 59:

a. 20 participants for one year \$120,000 and \$40,000 in rupees.

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-69-107	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	RURAL INSTITUTES		

b. U.S. Technicians. Three months of service under IND-211-T used by Dean Smith to make survey. \$ 9,000

c. Contract Services. Proposed Berea College contract for \$82,000. Twenty one months technician under contract (remainder of IND-211-T) \$42,000 and four short term consultants, average 4½ months, \$40,000.

d. Commodities none.

e. Other Costs none.

Total FY 59 .. \$ 211,000
Total Previous Years... \$ 235,000

2. Operational Year FY 60:

a. \$5,000 for Dean Smith as short term consultant outside Contract.

b. Shortfall in funding of Contract Services (ICATO 577) in FY 59 for cost of technicians and consultants is \$45,000 which is provided in FY 60.

Total .. \$ 50,000

3. Budget Year FY 61:

\$30,000 for commodities outside the contract but selection and distribution supervised by contract personnel.

4. Future Fiscal Years:

As presently planned, project will phase out in FY 63. No additional funding is anticipated for FY 62 and 63. There is considerable reason to believe contract will have to be extended and expanded after the technicians get on the job.

E. NATURE OF COOPERATING COUNTRY'S CONTRIBUTION

- GOI is budgeting the operating expenses of these ten Institutes.
- Salaries of participants are paid by GOI while participants are in training in U.S.
- Inland freight and customs charges on commodities.
- Office space, equipment supplies and secretarial services for U.S. technicians.
- Contribution to joint funds of Rs. 25 or Rs. 15 per day according to the travel needs of U.S. technicians to cover per diem and in-country travel.

F. CONTRIBUTIONS FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

1. Contributions from Other Sources:

Ford Foundation contributed \$1,799,571 towards buildings, equipments and supplementary salaries beginning in 1954. The peak year was 1955 and high years 1956 and 1957.

No other agency is known to have made more than incidental contributions.

2. Relationship to Other Projects:

As seen in F.1. above, Ford Foundation was involved deeply in the early stages. Ford Foundation may support special features of the project which are outside ICA guidelines.

The other projects that are closely related to the Rural Institute project are:

E-1	FORM ICA 18-128 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-69-107	E-1
				COUNTRY ECONOMIC PROGRAM		RURAL INSTITUTES	
<p>a. 058 - Social Welfare Education - which also trains social welfare officers but on a higher level and for higher posts.</p> <p>b. 007 - Agriculture and Home Science Extension - This project is largely concerned with the in-service upgrading of extension officers. (In some cases with the basic agricultural education and home science). The rural institutes are concerned with a combination of pre-service education and training of extension officers. The projects are complementary.</p> <p>c. 060 - Home Science Education - which trains teachers and extension workers but on a higher level and for higher posts.</p> <p>NOTE: The needs are so great that there is little chance of duplication. By conference in the division and between divisions any such tendency is avoided.</p> <p>G. <u>FINANCIAL CONSIDERATIONS</u></p> <p>The GOI contributions have been allocated in the Second and Third Five Year Plans. Recurring costs are a regular part of the Ministry of Education budget.</p> <p>Any reduction in present funding would definitely injure the effectiveness of the project.</p> <p>H. <u>COOPERATING COUNTRY-TCM COORDINATION</u></p> <p>All features of the project have been approved by GOI, TCM and ICA/W.</p>							
PAGE 267 OF 371 PAGES			SECURITY CLASSIFICATION UNCLASSIFIED		SHEET 6 OF 6 SHEETS TO THIS		

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1, November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-64-114	
			COUNTRY ECONOMIC PROGRAM		PROJECT TITLE: Assistance to National Institute of Basic Education		

1	PROJECT BEGINS FY 57 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A.	All Prior Years	TC	21	-	-	-	21	-	-											
B.	Net Deob.-Reob.		-3	-	-	-	-3	-	-											
	Current Funds		15	-	15	-	-	-	-											
	Total Actual Year FY 59	TC	12	-	15	-	-3	-	-						-	-	2	-	-	
C.	Operational Year FY		<u>1</u>																	
D.	Budget Year FY																			
E.	All Subsequent Years																			
F.	Total All Years	TC	33																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	-	5	21	-3	-3	-3	-	18	12	6		6	3	3
	Actual Year FY 59	TC				15	15	15	-	15	-	15		15	8	7
	Operational Year FY												-	-	-	-
	TOTAL	TC	-	5	21	12	12	12	-	33	12	21	-	21	11	10

Problems Addressed:

1/ Effective FY 60 the current activities under this project have been consolidated into project 386-66-184, National Professional Education Center. Therefore, for description, see project 184.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-67-118	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Assistance to Training in Adult Education		

1 PROJECT BEGINS FY 57 ENDS FY	(A) Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
		Non-Contract		Contract		U.S.		3rd Country		Contract								
A. All Prior Years	TC	25	-	-	-	25	-	-										
B. Net Deob.-Reob.		-	-	-	-	-	-	-										
Current Funds		29	24	5	-	-	-	-										
Total Actual Year FY 59	TC	29	24	5	-	-	-	-									1	-
C. Operational Year FY																		
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	TC	54																

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated In FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	-	-	25	-	-	-	-	25	18	7		7	4	3
	Actual Year FY 59	TC				29	29	29	-	29	21	8		8	4	4
	Operational Year FY															
	TOTAL	TC	-	-	25	29	29	29	-	54	39	15		15	8	7

Problems Addressed:

Effective FY1960 the current activities under this project have been consolidated into project 386-66-184, National Professional Education Center. Therefore, for description, see project -184.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-69-120	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Assistance to Teacher Training in Audio-Visual Education		

1 PROJECT BEGINS FY 58 ENDS FY 59	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
															Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	165	-	-	-	165	-												
B. Net Deob.-Reob.		-9	-	-	-	-9	-												
Current Funds		11	11	-	-	-	-												
Total Actual Year FY 59	TC	2	11	-	-	-9	-							3	-	-	-	-	
C. Operational Year FY		1/																	
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years	TC	167																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	5	38	160	-9	29	29	-	151	112	39		39	21	18
	Actual Year FY 59	TC				11	11	11	-	11	10	1		1	1	-
	Operational Year FY												-	-	-	-
	TOTAL	TC	5	38	160	2	40	40	-	162	122	40	-	40	22	18

Problems Addressed:

1/ Effective FY 1960 the current activities under this project have been consolidated into project 386-66-184, National Professional Education Center. Therefore, for description, see project 184.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1, November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-66-146	
			COUNTRY ECONOMIC PROGRAM		PROJECT TITLE: Assistance to National Professional Education Center		

1	PROJECT BEGINS FY 58 ENDS FY 59	(A) Function of Funds	(B) Dollar Obligations (\$1,000)							(C) L/C Commitments or Obligations					(D) Numbers of People						
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country	Other External Financing	(1) Technicians Authorized		(2) Participants			
																Non-Contract	Contract	Non-Contract U.S.	3rd Country	Contract	
A.	All Prior Years	TC	300	-	-	300	-	-													
B.	Net Deab.-Reab.		-	-	-	-	-	-													
	Current Funds	TC	92	-	-	85	7	-													
	Total Actual Year FY 59	TC	92	-	-	85	7	-									-	5	-	-	-
C.	Operational Year FY		<u>1</u>																		
D.	Budget Year FY																				
E.	All Subsequent Years																				
F.	Total All Years	TC	392																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
	All Prior Years	TC	-	-	300	-	-	-	-	300	3	297		207	114	93
	Actual Year FY 59	TC				92	92	90	2	92	-	92		92	51	41
	Operational Year FY 60												-	-	-	-
	TOTAL	TC	-	-	300	92	92	90	2	392	3	389	-	299	165	134

Problems Addressed: 1 Effective FY 60 the current activities under this project have been consolidated into project 386-66-184, National Professional Education Center. Therefore, for description, see project 184.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-66-154	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Teacher Training in Engineering Education		

1	PROJECT BEGINS FY 58 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years	TC	409	-	409	-	-	-	-											
B. Net Deob.-Reob.		111	-	111	-	-	-	-											
Current Funds		755	-	755	-	-	-	-											
Total Actual Year FY 59	TC	866	-	866	-	-	-	-	277			277			-	-	150	-	
C. Operational Year FY 60	TC	660	-	660	-	-	-	-	111			111			-	-	60	-	
D. Budget Year FY		-	-	-	-	-	-	-											
E. All Subsequent Years																			
F. Total All Years	TC	1935										388							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	-	-	409	111	111	111	-	520	270	250		250	138	112
	Actual Year FY 59	TC				755	755	755	-	755	-	755		755	415	340
	Operational Year FY												660	660	-	660
	TOTAL	TC	-	-	409	866	866	866	-	1275	270	1005	660	1665	553	1112

Problems Addressed:

Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-66-178, Engineering Education, and the project description is included therein.

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			<input type="checkbox"/> REVISION NO.		COUNTRY ECONOMIC PROGRAM	PROJECT TITLE ENGINEERING EDUCATION		

1	PROJECT BEGINS FY ENDS FY	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People													
			(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contrib- utions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants											
																Non- Contract	Contract	Non-Contract		Contract									
A. All Prior Years																													
B. Net Deob.-Reob.																													
Current Funds																													
Total Actual Year FY																													
C. Operational Year FY																													
D. Budget Year FY 61															TC	1,723	51	640	687	345						41	80	40	
E. All Subsequent Years															TC	1,747													
F. Total All Years																3,470													

2	FY Source of Funds	Function of Funds	(A) Total All Prior				(B) Actual Year FY							(C) Operational Year FY														
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/												
																	Dollar Obligation and Expenditure											
All Prior Years																												
Actual Year FY ...																												
Operational Year FY																												
TOTAL																												

Problems Addressed:

VI - Insufficient human resources educated to meet the needs of modern India

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				COUNTRY ECONOMIC PROGRAM	ENGINEERING EDUCATION		

A. GENERAL DESCRIPTION OF THE PROJECT

The objective of this project is to provide substantial and strategic assistance to the GOI Ministry of Scientific Research and Cultural Affairs for the qualitative and quantitative improvement of engineering education throughout India.

This new project is the result of combining three inter-related projects (027, 154 and 150) that have the common goal mentioned above. These three components of the new project contribute to the achievement of the objective as follows:

1. The Project 027 component will now be referred to as the Faculty Development Program. During an initial phase - FY 53-FY 59 - assistance was provided for developing and strengthening eleven individual Indian engineering educational institutions. A second and final phase - FY 58-FY 63 - is now being implemented that will be focused upon assisting in the development of the GOI's newly instituted "Post Graduate-cum-Teacher Training Program" in five of the leading engineering institutions throughout India. The Faculty Development Program will both assist the Teacher Training Program (bringing in and training new engineering teachers) and also will seek to strengthen-develop the existing engineering faculties at these five institutions. This is India's long-range program for increasing the quantity and quality of engineering teachers.

2. The Project 154 component, which now will be referred to as the Engineering Teachers Participant Program, provides assistance of an impact degree in meeting the critical shortage and improving the quality of the teaching faculties in Indian engineering educational institutions by providing U.S. graduate and practical training in engineering for a substantial number of selected Indian participants who will agree to serve (or continue to serve) as teachers in India for a minimum three-year period after completion of their U.S. training.

3. The Project 150 component, which now will be referred to as the Kanpur Program, provides assistance of an impact degree in the survey and planning for, the construction, equipping and initial operational period (about five years) of the Indian Institute of Technology, Kanpur

India is engaged in a long-range program to expand and redirect her educational system in order that education may assist more effectively with implementation of the Five Year Plans. Within the field of education, the GOI have placed highest priority on technical education - and within the technical area, on engineering education - for there is a direct and basic relationship between the availability of qualified engineers and other technical personnel and industrial/economic development.

In 1956 the total intake (new admissions) in undergraduate degree level engineering institutions was 6,600. To meet the demand for the expansion of engineering education, the GOI have taken steps to double

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				COUNTRY ECONOMIC PROGRAM	ENGINEERING EDUCATION		

that intake by 1961, the end of the Second Five Year Plan. Further, the establishment of a number of new educational institutions has been sanctioned. The redirection of engineering education involves the revitalization, revision and broadening of present curricula and teaching methodology in order to make the education of an engineer more useful with respect to India's needs.

The success of plans for the expansion and redirection of engineering education will depend largely on the availability of qualified engineering teachers. There is already an acute shortage of engineering teachers in India (estimated shortage is 1,500). Moreover, in terms of expansion plans for engineering education, approximately 150 additional teachers will be required each year for the next few years. Thus, the need is urgent to improve the quantity and the quality of engineering teachers in India.

There are four basic problems or factors giving rise to this critical teacher shortage: (1) the difficulty of attracting well qualified engineers to the teaching profession; (2) the problem of holding onto qualified engineering teachers, many of whom are attracted by lucrative industrial offers; (3) the problem of providing graduate work in engineering specialties to equip engineering teachers subject-wise; and (4) the problem of providing effective teacher training for engineering teachers at both the pre-service and inservice levels.

The three components of this new Project 178 - Faculty Development Program (027), Engineering Teachers Participant Program (154), and the Kanpur Program (150) - help to solve the above four basic problems and in a quantitative way help to improve engineering education throughout India.

A review of the three component parts of Project 178 follows:

1. Faculty Development Program (027)

a. First Phase - FY 53-FY 59:

Since the inception of the Project 027 in FY 53, assistance under this first phase of the project has been provided to eleven Indian engineering educational institutions through four U.S. ICA university contracts (Wisconsin, Illinois, Tennessee and Rensselaer). This assistance may be summarized as follows: U.S. costs, about 2.9 million dollars (including \$1.1 million prior to "blueprint"); (1) 45 U.S. engineering professors have served a total through FY 59 of about 67 man-years in India; (2) U.S. training has been provided for 59 Indian participants involving approximately 700 man-months of training; and (3) commodity funds total approximately \$911,000.

All of the first Phase "active" elements listed in the June 25, 1959 Project 027 E-1 have now been cancelled with the exception of two on-rolls consultants:

- (1) Short-term consultant for up to 2 months; Water Resources Development Specialist for the University of Roorkee; to be filled/ depart during FY 60; Fy 60 funds.

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			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	ENGINEERING EDUCATION		

(2) Electrical Engineering Specialist at the Bihar Institute of Technology; reduced from one year to six months because B.I.T. requested the services of Professor R.W. Atkinson and he was available for only 6 months; EOD at B.I.T. September 28, 1959; FY 60 funds.

b. Second and Final Phase: FY 58-FY 63

As one measure to help meet the shortage of engineering teachers and the four related problems mentioned above, the GOI have developed the "Post Graduate-cum-Teacher Training Program". Under this program recent top-level engineering graduates will be awarded three-year fellowships at one of five of the leading engineering institutions in India in order to: (1) complete academic work required for a post graduate degree in a field of engineering specialization, or carry on post doctoral research and (2) receive training in teaching, to include actual participation in the teaching of undergraduate engineering subjects. Each person granted a fellowship will agree to teach in an engineering institution for a three-year period of time following satisfactory completion of the three-year fellowship.

In order to initiate the "Post Graduate-cum-Teacher Training Program", the GOI have selected five of the leading engineering institutions to serve as "pilot" demonstration centers for what is hoped will eventually become an all-India application of the scheme. The five institutions selected for the program are: Indian Institute of Technology, Kharagpur; University of Roorkee; Bengal Engineering College, Calcutta; College of Engineering, Guindy-Madras; and the College of Engineering, Poona. In FY 58 the GOI

requested TCM assistance under Project 027 for developing the demonstration program. It is expected that the five "pilot" demonstration centers will produce some 400 new engineering teachers over the next four years and also will play a significant role in the eventual all-India adoption of the Post Graduate-cum-Teacher Training Program.

2. Engineering Teachers Participant Program (154)

This project (154), which was initiated in FY 58 and which should terminate in FY 62, involves a grand total of 370 participants for 1 to 2 year study tours to be funded in fiscal years as follows: FY 58 - 60; FY 59 - 150; FY 60 - 60 (it is hoped that this number can be increased to 80 through the availability of Supplementary Funding); and FY 61 - 80.

Bearing in mind that the overall objective of the Engineering Teachers Participant Program is to develop teaching faculty members for Indian engineering colleges the following GOI/TCM guidelines will apply to this training:

- a. Each participant will be provided with from one to two years training depending on his previous attainments and his progress during the training program.
- b. Each participant will execute a bond with the GOI to agree to serve as a teacher for a minimum period of three years in an Indian engineering educational institution beginning immediately after the satisfactory completion of his U.S. training.

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c. The specific objectives of the training are:

- (1) To complete academic work required in order to receive a graduate degree in engineering - in most cases, the Master's degree will be involved and in a few cases, the Ph.D. degree; and/or to do research and receive practical experience and training in engineering designed specifically to meet requirements of engineering teachers in India.
- (2) To receive training in the teaching of engineering subjects as practiced in U.S. educational institutions.

These two objectives are of equal importance. However, if one must receive primary consideration, the first objective (degree/practical training) may be considered to be paramount.

- d. With respect to degree-work training, it should be noted that the institutions in India are increasingly realizing the need for a graduate degree for their teachers and therefore are embarking on programs both within and outside the country to improve the qualifications of their teachers. It is fully realized that only the cooperating U.S. college can determine the eligibility of a student for graduate work and that this determination might well include - as standard U.S. academic procedure - a period on trial and pre-requisite courses. Thus, training periods may need to be extended beyond those originally programmed. In such cases requests for extension of individual training periods will be considered.

GOI/TCM approval of such extensions will require a report from ICA/W both at the end of the first and second semesters' work. These reports should contain the recommendations of the host institution and the major professor of each participant concerning: (1) the participant's eligibility for a graduate degree, (2) the estimated time required to complete degree training, and (3) if no degree is to be rewarded, recommendations for the balance of the training period.

GOI/TCM will make tentative approvals for extensions on the basis of the report on the first semester's work. Final approval will be made after receipt of the report at the end of the second semester.

- e. With respect to the training-in-teaching objective, it is suggested that each participant who is enrolled in a U.S. college be given specific assignments to understudy U.S. engineering professors in order to receive instruction on such items as course preparation, session planning and presentation, evaluation, and methods of teaching. Other procedures may be necessary for those participants who engage only in practical experience and training.

3. Kanpur Program (150)

In 1945 the GOI appointed a committee (Chairman, N. R. Sarkar) to study the question of the development of technical education in India. In its report, which was submitted in 1946, the committee recommended that

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four national higher technological institutes be established - one each in north, south, east and west India. These four institutes would (a) provide a relatively large number of additional places for students, in terms of the need to expand engineering education; and (b) set the standards for engineering institutions throughout India, in terms of the need to improve engineering education.

The first phase of the Kanpur Program, which was initiated in FY 58 and implemented in FY 59, provided a survey team of U.S. engineering educators through an ICA contract with the American Society for Engineering Education (ASEE). The ASEE team made a survey of Engineering Education in India, with special reference to the IIT-Kanpur during December 1958 and January 1959. The team submitted a report to the GOI, ICA/W and TCM which (a) includes recommendations for the organization and operation of IIT-Kanpur; and (b) has formed the basis for the development of the second and establishment phase of the program.

U.S. assistance to the Kanpur Program under the second phase of the project (FY 59-FY 64) may be divided into three broad categories, as follows: (a) a PL-480 grant in the amount of rupees 44,500,000 for land development and building costs and the purchase of indigenous equipment; (b) technical assistance at a cost of \$2,324,000 to provide under contract services 15 U.S. technician posts at three years each, 60 man-years of participant training and commodities (\$465,000); and (c) the sum of \$3,335,000 for the balance of equipment foreign exchange costs in excess of the TC 20% requirement

on commodity funding. This assistance is predicated upon the basic assumption that the IIT-Kanpur will be one of four unique institutions which together serve to lead the way for the advancement and improvement of engineering education in India, and that the recommendations of the ASEE report will be utilized by the GOI in establishing and operating the IIT-Kanpur.

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

1. Faculty Development Program (027)

a. First Phase - FY 53-FY 59:

To strengthen and develop engineering education in eleven Indian institutions by:

- (1) improving undergraduate and graduate programs
- (2) pointing up research
- (3) making available to Indian staff and students experience and information on recent developments, to include U.S. participant training.
- (4) demonstrating teaching methods, including field trips and supervised work.
- (5) advising and assisting governmental agencies as requested.

b. Second Phase - FY 58-FY 63:

- (1) To assist each of the five Indian engineering institutions designated by the GOI to develop the Post Graduate-cum-Teacher

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Training Program and produce some 400 new engineering teachers by the end of FY 63 by:

- (a) developing graduate curricula and research program.
 - (b) guiding the training in teaching.
 - (c) establishing research facilities whereby techniques for the training of Indian engineering teachers can be developed.
 - (d) assisting the five institutions in carrying out their demonstration function with respect to the Teacher Training Program.
- (2) To provide U.S. participant training for 60 Indian engineering educators by FY 63.

2. Engineering Teachers Participant Program (154)

- a. To make a significant contribution towards relieving the acute faculty shortage in engineering education by providing U.S. graduate and practical training in engineering education for approximately 370 Indian engineering teachers by FY 62.
- b. To help bring about significant improvement of the teaching in Indian engineering educational institutions, through the application of their U.S. training by the approximately 370 Indian engineering teachers to be trained under this project.

3. Kanpur Program (150)

a. First Phase:

To provide short-term consultant service to the Technical Education Division of the GOI Ministry of Scientific Research and Cultural Affairs in order to make a survey and produce a report on or about January 1, 1959, which will include recommendations for the organization and operation of the Indian Institute of Technology, Kanpur; this report, in turn, to form the basis for subsequent discussion between the GOI and TCM relative to the nature and scope of possible further TCM assistance to the Kanpur Institute.

b. Second Phase:

To assist the Technical Education Division of the GOI Ministry of Scientific Research and Cultural Affairs with reference to the establishment and initial operational period of approximately five years of the Indian Institute of Technology, Kanpur, predicated upon the basic assumptions:

- (1) that IIT-Kanpur will be one of four unique institutions (Kanpur, Kharagpur, Madras and Bombay) which together will serve to lead the way for the advancement and improvement of engineering education in India.

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(2) that the recommendations in the ASEE report will be utilized by the GOI in establishing and operating the IIT-Kanpur.

The GOI is committed to open the IIT-Kanpur in July 1960 with the admission of about 100 First Year students.

C. PROGRESS TOWARD ACHIEVEMENT OF PROJECT ACTIVITY TARGETS

1. Faculty Development Program (027)

a. First Phase - FY 53-FY 59:

It is not possible herein to evaluate a six-year program involving four U.S. university contracts at eleven Indian engineering institutions - the work of 45 U.S. professors, the training of 59 Indian participants, and the use of \$911,000 worth of commodities. There are a number of evaluative studies which have been made on this project by TCM, the GOI, and the contracting universities. It may, however, be said that the first phase of the project was very satisfactory with respect to bringing about improvements in eleven individual engineering institutions - but that this phase lacked on overall rationale in terms of deriving maximum benefits for TCM and the GOI; and as a result the project was revised in FY 58 as indicated by the concept of the Second Phase.

With the exception of one 6-month consultant now at B.I.T. and one 2-month consultant for Roorkee (expected to come and complete his

assignment by April 1960) the First Phase of this project is considered concluded.

b. Second Phase - FY 58- FY 63:

(1) Work Accomplished to Date

- (a) The GOI has approved and authorized the five engineering institutions to pay the teacher trainees under this project salaries of Rs.350 per month for the first year of their training program and Rs.375 and Rs.400 per month during the second and third years respectively.
- (b) The GOI and the five engineering institutions have begun the Teacher Training Program with the selection on an all-India basis of 100 teacher trainees (of the 1,150 that applied, over 750 were First Class students).
- (c) The Principals of the five engineering institutions have had several conferences pertaining to the development of the Teacher Training Program. In October 1959 they all met at the University of Roorkee for such a conference and to view firsthand the Roorkee Program. Every three months they will hold conferences at one of the five institutions.
- (d) The University of Wisconsin and the University of Illinois have signed contracts with ICA/W (July and October, 1959 respectively) to implement the U.S. contribution to the Faculty Development Program.

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(e) The University of Wisconsin has nominated several available professors to the Principals of B.E.C. and Roorkee. TCM has asked the Ministry to secure clearances.

(f) The GOI has nominated to TCM 14 participants from the five institutions for training in the U.S. beginning January 1960.

(2) Work Remaining to be Done

(a) The signing of the contract between Cornell University and ICA/W.

(b) Recruiting, processing and posting of U.S. professors at the five institutions. It is expected that most of the 26 posts will be filled by August 1960.

(c) U.S. professors review commodity needs and prepare specifications for same.

(d) U.S. professors review total Faculty Development Program (programs, problems and potentialities) & accordingly develop/recommend action/activities.

(3) Progress Toward Achievement of Project Targets

Though many administrative and functional aspects of the Faculty Development Program have been started or taken care of, the Program (including the Teacher Training Program component) has scarcely begun. It is imperative that U.S. professors be posted in India ASAP.

2. Engineering Teachers Participant Program (154)

a. Work Accomplished to Date

FY 58 Participants: Sixty were selected in June 1958. Fifty-six departed for the U.S. in August-September 1958, three more in January 1959, and one had to drop out for personal reasons (this position was cancelled because there was insufficient time to select an alternate). Of the fifty-nine participants that went to the U.S., sixteen have returned and are employed by the GOI or State institutions. Forty-three remain in the U.S. either because their original one-year programs have not expired, or because they have been granted extension of study tours; one was offered a U.S. University scholarship, acceptance of which was approved by the GOI/TCM.

FY 59 Participants: 120 of the selected participants were able to depart for the U.S. in August-September 1959; the remaining thirty are expected to arrive in the U.S. in January 1960.

b. Work Remaining to be Done:

As soon as approval of the FY 60 program is received, the GOI and TCM will set up a schedule whereby the selection and processing of the sixty participants for FY 60 can be completed by July 15, 1960, to avoid many of the difficulties experienced during the last two years when

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<p>there was scarcely time to complete processing of the participants.</p> <p>c. <u>Progress Toward Achievement of Project Targets</u></p> <p>Whereas sixteen new engineering teachers have returned to India as a result of this program, most of the 120 participants who went to the U.S. in August-September 1959, (and the thirty who will go in January 1960), were teaching in some Indian engineering institution before entering this program. Though for the moment this has reduced rather than reinforced the within-India complement of engineering teachers, it is a very valuable investment - quantitatively as well as qualitatively - for the future.</p> <p>3. <u>Kanpur Program (150)</u></p> <p>a. <u>First Phase</u></p> <p>This was completed in FY 59 and the project target stated in B.3,a, above was attained.</p> <p>b. <u>Second Phase</u></p> <p>(1) <u>Work Accomplished to Date</u></p> <p>(a) The GOI have selected Dr. P.K. Kelkar as Director of the IIT-Kanpur.</p> <p>(b) 600 acres of the approximately 12,00 acres planned for the Institute has been acquired.</p> <p>(c) It is generally understood that until the Institute's own buildings can be erected, the IIT will utilize a portion of the Butler Technical College, Kanpur.</p> <p>(2) <u>Work Remaining to be Done</u></p> <p>(a) A U.S. contract needs to be secured to implement the U.S. contribution to this important project. A representative of the contractor - Chief of Party - needs to arrive in India ASAP in order to assist with the establishment of the Institute.</p> <p>(b) Equipment needs to be ordered. An analysis should be made to determine what commodity items needed for the Institute are available in India and can be purchased with rupees.</p> <p>(c) Four U.S. professors in addition to Chief of party should arrive in FY 60 to assist with the establishment and development of undergraduate and graduate curricula, research programs, faculty in-service training activities. Recruitment of these professors should begin soon.</p> <p>(d) The remaining 600 acres of land needs to be acquired.</p> <p>(e) An extensive land survey needs to be made of the entire 1,200 acre site.</p>							
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(f) A campus planner needs to be appointed to prepare a comprehensive campus plan in reference to and in consultation with the ASEE Report and team members (particularly Professor Huntington) and the contractor.

(g) An architect needs to be appointed to prepare plans for the Institute buildings. This should be done in reference to and in consultation with the ASEE Report and team members (particularly Professor Huntington) and the contractor and his representatives. The architect should visit the U.S. for discussions with the contractor and members of the ASEE team and to inspect and study similar engineering institutions.

(h) Housing arrangements need to be made for the U.S. professors and their families.

(3) Progress Toward Achievement of Project Targets

Work is only about to begin with reference to the actual establishment of the IIT-Kanpur.

D. NATURE OF THE U.S. CONTRIBUTION

1. Faculty Development Program (Q27)

a. First Phase - FY 53-FY 59

During this phase of the project assistance provided to eleven engineering education institutions amounted to approximately \$2.9 million. This involved 45 U.S. engineering professors serving for about 67 man-years; 59 Indian participants using about 700 man-months of training in the U.S.; and approximately \$911,000 in commodity funds.

b. Second Phase - FY 58-FY 63

(1) Previous Fiscal Years

In FY 58 funds were provided for ICA/W contracts with three U.S. universities (Cornell, Illinois and Wisconsin) for 26 U.S. engineering professors, twenty Indian participants and commodities in support of the U.S. engineering professors.

(2) Operational Year

During FY 60 two on-rolls consultants: one 6-month Electrical Engineering Specialist at the Bihar Institute of Technology (EOD India September 28, 1959); one 2-month Water Resources Development Specialist for the WRDTC, University of Roorkee.

(3) Budget Year

During FY 61 the 3 U.S. University Contracts should be able to fill most of the 26 professor positions and implement other elements in their contracts as follows:

(a) Technicians: 26 university contract engineering professor positions all for three years each, as follows:

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<p>- Cornell University and: - College of Engineering, Guindy-Madras (4): Civil Engineering (2), Electrical Engineering (1), Mechanical Engineering (1).</p> <p>- College of Engineering, Poona (5): Civil Engineering (1), Electrical Engineering (2), Mechanical Engineering (1), Metallurgical Engineering (1).</p> <p>- University of Illinois and Indian Institute of Technology, Kharagpur (8): Civil Engineering (2), Electrical Engineering (2), Mining Engineering (1), Mechanical Engineering (3).</p> <p>- University of Wisconsin and: - Bengal Engineering College (5): Civil Engineering (3), Electrical Engineering (1), Mechanical Engineering (1).</p> <p>- University of Roorkee (4): Civil Engineering (2), Electrical Engineering (1), Mechanical Engineering (1).</p> <p>The exact specialities of the above positions are to be agreed upon between the contractors and the GOI institutions. GOI requests for all 26 positions received in FY 58 and positions funded for 2 (of 3) years each in FY 58.</p>				<p>number of participants (20) and the total number of participant man-months funded (222) are not exceeded.</p> <p>FY 61: 20; 2 @ 3 months each and 18 @ 18 months each to be requested by the GOI and funded by TCM in FY 61. Six-month extensions for the 18 1-year FY 58 participants, to be requested by the GOI and funded by TCM in FY 61.</p> <p>FY 62: 20; 2 @ 3 months each and 18 @ 18 months each, to be requested by the GOI and funded by TCM in FY 62.</p> <p>(c) Commodities: Total of \$130,000 to be used by U.S. professors for demonstration purposes and to include books, periodicals, teaching aids and equip- ment, scientific and professional instruments and apparatus and laboratory equipment - pertinent to engineering education: - \$80,000 provided in FY 58 and to be PIO/C'd ASAP after arrival of contract teams. - \$50,000 to be funded in FY 61.</p> <p>In FY 61 TCM will provide: (a) 6-month extension of U.S. study tours for the 18 1-year participants presently in the contract (expected to begin U.S. train- ing programs during FY 60), \$54,000; (b) twenty new contract participant positions (2 @ 3 months each and 18 @ 12 months each), \$133,000; (c) commodities used by the U.S. professors for demonstration purposes and to include books, periodicals, teaching aids and equip- ment, scientific and professional instruments and apparatus and laboratory equipment -pertinent to engineering education, \$50,000; and \$51,000 for U.S.</p>			
<p>(b) <u>Participants: 60 under contracts:</u></p> <p>FY 58: 20; 2 @ 3 months each and 18 @ 1 year each as funded in FY 58; however, variations in individual periods of training may be made provided the total</p>							
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technician positions which are now expected to be cancelled: in which case this funding would be used to extend study tours to 18 months each for the above 18 new participant positions.

(4) Future Fiscal Years

Funds will be provided to the contracts to cover the third year of the 26 U.S. professor positions, \$780,000; twenty additional participants, \$187,000; and commodities in support of the U.S. professors, \$50,000.

2. Engineering Teachers Participant Program (154)

a. Previous Fiscal Years

Funds were provided for a FY 58 group of 60 engineering teacher participants and a FY 59 group of 150 engineering teacher participants; total \$1,281,750.

b. Operational Year

During FY 60 funds were provided for a FY 60 group of 60 engineering teacher participants (at 18 months each), twenty man-years of extension for the FY 58 group of participants, and \$70,000 deficit funding for the FY 59 program; total \$660,000.

It is hoped that supplementary Funding (TC) will become available to provide (1) additional extensions for the FY 58 group, (2) 20 more FY 60 engineering teacher participants for

18 months each, and (3) 6-month extensions needed for the 150 FY 59 group.

c. Budget Year

Funds will be provided for a FY 61 group of 80 engineering teacher participants (at 18 months each); \$640,000

d. Future Fiscal Years

No further fiscal year contributions are now anticipated.

3. Kanpur Program (150)

a. Previous Fiscal Years

FY 58 funds were provided for the ASEE contract (Survey and report of recommendations for the organization and operation of the IIT-Kanpur). This completed the First Phase of this project. FY 59 funds were provided to finance under ICA contract the first 5 technician posts for two years each and commodities in support of the technicians; \$489,000.

b. Operational Year

FY 60 funds were provided for the second 5 contract technician posts for two years each, 20 contract participants for two years each and commodities in support of the above technicians; \$568,000

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(This project has top priority claim on prior year DA deobligations; \$1,000,000 of which is required in FY 60 for the purchase of laboratory equipment, instruments and apparatus for the IIT-Kanpur).

Local currency funds in the amount of Rs.4,500,000 for land development, building costs and purchase of indigenous equipment.

c. Budget Year

Funds will be provided in FY 61 for the third group of five contract technician posts (chemical, civil, electrical, mechanical, metallurgical and/or textile engineering) for two years each, \$300,000; twenty contract participants for 18 months each, \$200,000, and commodities, \$295,000, (primarily scientific and laboratory items toward equipping the following departments at the IIT-Kanpur: chemical, civil, electrical, mechanical, metallurgical and textile engineering and chemistry, physics and drafting); total \$795,000.

(\$1,000,000 DA deobligations and \$500,000 TC Supplementary Funds (as part of the overall Project 178 limit of 20% on commodities) for the purchase of laboratory equipment, instruments and apparatus for the IIT-Kanpur).

Local currency in the amount of Rs.8,500,000 for land development, building costs and purchase of indigenous equipment.

d. Future Fiscal Years

Funds will be provided in FY 62 for the third year of each of the 15 technician posts and commodities in support of the technicians; \$730,000.

(\$1,000,000 additional funding requirement for the purchase of laboratory equipment, instruments and apparatus for the IIT-Kanpur)

Local currency funds in the amount of Rs.31,500,000 for land development building costs and purchase of indigenous equipment.

E. NATURE OF COOPERATING COUNTRY CONTRIBUTION

1. Faculty Development Program (027)

It is quite obvious that the Faculty Development Program (which includes but is not limited to the Teacher Training Program) can only operate and be effective at engineering institutions which are quite well established with undergraduate, post graduate and research programs and with the basic staff, plant and equipment to support same. The five institutions where the Faculty Development Program will be centered meet these qualifications. They have a combined enrollment of 6,000 and represent a total capital investment of approximately Rs.144,000,000 (\$30,000,000) and a total present recurring expenditure of about Rs.11,900,000 (\$2,500,000). It is difficult to assign a percentage of the capital investment to

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the operation of the Faculty Development Program. However, with respect to the Teacher Training phase of the program, where the teacher trainees will spend about half of their 3-year training program in post graduate and research work, it would seem fair to assume that (due to the 100 teacher trainees in the program in FY 60, the total of 200 that there will be in FY 61, and with the total of 300 that there will be each year thereafter) the added recurring expenditure for other than the teacher trainee salaries will be about Rs.200,000 in FY 61 and Rs.700,000 for the period FY 60, 62 and 63. Their salaries will add Rs.870,000 in FY 61 and Rs.3,120,000 during the other fiscal years.

Another GOI contribution to the Faculty Development Program is the salaries that will be paid to the participants who will go for U.S. training in connection with this program. This will amount to about Rs.170,000 in FY 61 and Rs.510,000 in the other fiscal years. The GOI contribution to the program in the form of intra-India support of the U.S. professors will include provision of office space and stationery; clerical, secretarial and interpreter services; and payment of all official communications. The GOI will also make a contribution to a TCM maintenance fund which will amount to approximately Rs.108,000 in FY 61 and Rs.314,000 in the other fiscal years. The GOI will also provide for inland handling, transportation and installation of equipment supplied through this program. This will amount to about Rs.10,000 in FY 61, and Rs.21,000 in the other fiscal years.

In summary, the GOI contribution to the Faculty Development Program (027) will be (only non-capital costs):

	<u>FY 61</u> (Rs)	<u>Other Fiscal</u> <u>Years</u> (Rs)
a. Teacher Trainees		
(1) Recurring expenditure (other than salaries)	200,000	700,000
(2) Salaries (while in U.S.)	870,000	3,120,000
b. Salaries and intra-India travel of participants	170,000	510,000
c. Intra-India support of U.S. professors	108,000	314,000
d. Inland handling, transportation and installation of equipment	<u>10,000</u>	<u>21,000</u>
Totals	<u>1,358,000</u>	<u>4,665,000</u>

2. Engineering Teachers Participant Program (154)

The direct GOI contribution to this program will be for salaries and intra-India travel for the participants going to the U.S. This will amount to approximately Rs.626,000 in FY 61 and Rs.1,875,000 in the other fiscal years.

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3. Kanpur Program (150)

The direct GOI contribution to this program will be the provision of 1,200 acres of land (estimate value Rs.500,000) and recurring costs of Rs.500,000 in FY 61 and Rs.4,500,000 in fiscal years 60,62,63 and 64.

4. Total GOI Contribution for Project 178

	Fy 61 (Rs)	Other Fiscal Years (Rs)
a. Faculty Development Program	1,358,000	4,665,000
b. Engineering Teachers Participant Program	626,000	1,875,000
c. Kanpur Program	500,000	4,500,000
d. TOTALS (only non-capital costs)	2,484,000	11,040,000
GRAND TOTAL:	Rs.13,524,000 (\$2,841,000)	

F. CONTRIBUTION FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

1. Faculty Development Program (027)

Whereas some general grant assistance (UNESCO, WHO, Colombo Plan) has been received by some of the five Indian engineering institutions where the Faculty Development Program will be centered,

this project provides the only known external aid to the GOI Teacher Training Program and to the specific objectives of the Faculty Development Program at the five institutions.

2. Engineering Teachers Participant Program (154)

This project represents, as far as is known, the only external assistance to the specific type of teacher training involved in this program.

3. Kanpur Program (150)

This project represents the only present external assistance to the Indian Institute of Technology, Kapur.

G. FINANCIAL CONSIDERATIONS

1. Faculty Development Program (027)

As of March 31, 1959, the piepline contained \$1,497,000 of FY 57-58 funds and \$624,000 of prior FY 57 funds (this reflects estimated expenditures through December 31, 1958 only). Of this \$2,121,000 total, \$1,773,000 is for Second Phase activities of the project (two year university contracts; Wisconsin and Illinois have signed contracts with ICA/W; Cornell is expected to sign soon). The balance of \$348,000 plus \$31,000 obligated in FY 59 remains committed to First Phase contracts whose activities have now been concluded. The \$1,773,000 for Second Phase activity obligations is expected to be reduced by \$300,000 in FY 60 and liquidated in FY 61.

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<p>Funding requirements beyond the budget year will be for the third and final year of the 26 U.S. contract professors, twenty additional contract participants and commodities in support of the U.S. Professors. It is expected that U.S. funding assistance to this project will be phased out by FY 63.</p> <p>2. <u>Engineering Teachers Participant Program (154)</u></p> <p>No unusual pipeline is anticipated. No funding requirement is expected beyond the budget year.</p> <p>3. <u>Kanpur Program (150)</u></p> <p>Upon the receipt of approval of the FY 60 URAM the FY 60 funds plus the \$400,000 obligated on June 26, 1959, will be combined and put into a contract with either the American Society for Engineering Education or with one of the leading U.S. engineering educational institutions for implementation of the U.S. cooperative portion of the project.</p> <p>H. <u>COOPERATING COUNTRY - TCM COORDINATION</u></p> <p>All three component programs of the project hold a very high priority rating with the GOI, have received and will receive full support of the GOI.</p> <p>The Plans embodied in this E-1 have been jointly developed by Mr. G.K. Chandiramani, Joint Secretary, Ministry of Scientific Research and Cultural Affairs, the Chief Education Advisor, TCM and the Technical Education Advisor, TCM.</p>							
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		1 NOVEMBER 1959	<input checked="" type="checkbox"/> REVISION NO. 1	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE NATIONAL PROFESSIONAL EDUCATION CENTER		

PROJECT BEGINS FY 60 ENDS FY 61	(A) Dollar Obligations (\$1,000)									(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
	Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country	(1) Technicians Authorized		(2) Participants			
														Non-Contract		Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years																			
B. Net Deob.-Reob.																			
Current Funds																			
Total Actual Year FY																			
C. Operational Year FY 60	TC	129	25		104										1	7			
D. Budget Year FY 61	TC	462	12		450										-	14		10	
E. All Subsequent Years																			
F. Total All Years	TC	591																	

FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
		(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/			
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual Year FY 59	-				-	-	1	-	-	-	-	-	-	-	-	-	-	-
Operational Year FY 60	TC												129	129	18	111		
TOTAL	TC	-	-	-	-	-	-	-	-	-	-	-	129	129	18	111		

Problems Addressed: **PROBLEM:** Insufficient human resources educated to meet the needs of modern India
GOAL: Coordination and upgrading of professional education activities including teacher training.

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				COUNTRY ECONOMIC PROGRAM		NATIONAL PROFESSIONAL EDUCATION CENTER	

A. GENERAL DESCRIPTION OF THE PROJECT:

This continuing project provides U.S. technical assistance through the GOI Ministry of Education to the field of educational leadership and has as its central purpose the facilitating of the development of a National Professional Education Center which will be charged with the responsibility of expanding and improving professional education in India. The following six operating organizations will be incorporated into the Center program:

1. The Central Institute of Education
2. The National Institute of Basic Education
3. The National Institute of Audio-Visual Education
4. The National Fundamental Education Center
5. The Central Bureau of Textbook Research
6. The Central Bureau of Educational and Vocational Guidance.

The major objectives of the Center program are:

1. To exert professional leadership throughout the country
2. To conduct and coordinate research programs of national significance including the collection and distribution of findings.
3. To provide a multi-purpose professional education program with advanced graduate training of the highest order
4. To provide extension services on a broad national scale.

The basic problems of education in India arise out of the need to expand and reorient the educational system of the country. A key element in the success of this required expansion and reorientation is the training and competency of the educational leadership in India.

The development and implementation of the concept of a National Professional Education Center, is being undertaken by the Ministry of Education in order to effect significant and rapid improvement in educational leadership. Such a Center would have not only an operational function, actually providing training — but also a demonstrational function for the hundreds of teacher-training institutions which are operated by state governments.

There is increasing recognition of the fact that different levels of education and areas of specialization do not flourish in isolation, but are strengthened by a mutual and continuous flow of ideas, problems and practices between them. While merit is to be found in various institutes concentrating on separate problem areas in education, there is even greater merit in seeing that these activities are undertaken only in the context of the total needs and resources of the educational system. Thus it is important that at the working level — in an actually functioning institution — there take place side by side activities which reach into the heart of educational problems at every level. It is only at the working level that the various specialists are able to coordinate their skills, ideas and findings and so strengthen the various programs. It is envisioned that such an atmosphere could exist, in a National Professional Education Center whose program was all-inclusive and dedicated to the enrichment of the total educational system of India.

The activities planned under this project have five major aspects:

1. Educational research
2. Leadership training in professional education
3. Production and publication of educational materials

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4. Administrative and functional coordination or merger of the existing institutions into a National Professional Education Center.

5. Expansion or provision of facilities and housing for the National Professional Education Center Program.

In FY 60 the current activities of the following projects have been consolidated into the "National Professional Education Center" 386-66-184:

- 1) National Institute of Basic Education - 386-64-114:
- 2) Training in Adult Education - 386-67-118
- 3) Teacher Training in Audio-Visual Education - 386-69-120.
- 4) General undergraduate and graduate teacher training at the Central Institute of Education including the work of Bureau of Textbook Research and Educational and Vocational Guidance - 86-66-146.

Elements of the above projects which have already been implemented will be continued under their present numbers with the exception that the U.S. technician in Project -118 and the U.S. Consultant in project -120 will be transferred to Project -184 beginning FY60.

This merger results in the request for implementation in FY 60 of the following total activities:

1. An expanded TC contract team to include five technicians and six consultants as outlined in Section D. Nature of U.S. Contribution.

2. Up to 10 man-years of participant training already funded in the TC contract.

3. Continuation of one U.S. technician incumbent and one U.S. Consultant incumbent.

An expansion of the contract program is planned to include five additional technicians in FY 61 and participant training not to exceed 10 man-years. Additional commodity support in FY 61 is also planned. Local currency allocation to assist the GOI in expanding facilities for the National Professional Education Center is planned for FY 61 and subsequent years.

It is the intention of the present proposal that while the contract and U.S. technicians and consultants will have individual institutional assignments in accordance with the GOI requests received and expected, nevertheless, the team approach will enable the advisors and their GOI counterparts to

- 1) distribute the benefits of progress in any one area to corresponding areas of need in other institutions,
- 2) coordinate plans for the expected consolidation or association of the various components into a truly National Professional Education Center with common objectives and procedures,
- 3) enable the U.S. advisers to bring to bear on the various areas of educational problems a variety of talents and abilities coordinated so as to have maximum effectiveness,
- 4) blend the resources of one of the largest and most outstanding educational institutions in the U.S. directly into the current project.

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				COUNTRY ECONOMIC PROGRAM		NATIONAL PROFESSIONAL EDUCATION CENTER	

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT:

The end results of the project are planned to include the strengthening of the professional educational leadership in India through an increased understanding of the role of functional education at the elementary level (Basic Education), the secondary level (the multipurpose high school with emphasis on the vocational component), the higher education level (teacher training) and the adult education level (extension training). It is recognized that understanding can only be demonstrated through action. Therefore, as a result of this project education in general should be able to move more solidly in the direction of undergirding India's advancing economic development.

The project has three broad activity targets:

1. To bring into close association or merge the activities of the six existing organizations to constitute a National Professional Education Center.
2. To upgrade and intensify the activities of each of the constituent organizations to the point that they are able to exert energetic leadership within the whole framework of Indian education.
3. To establish, expand and improve facilities to house the activities of the National Professional Education Center in a manner consistent with its functions and obligations.

In FY 60 the following specific activity targets have been established:

1. Reorganization of the Central Institute of Education as suggested in the Teachers College Survey Report.
2. Integration of the functioning of the Central Bureau of Educational and Vocational Guidance and Textbook Research into the overall functioning of the CIE.
3. Development of plans for the functional integration of the activities of the three national institutes and the CIE into the concept of the National Professional Education Center.
4. Development of plans for the physical plant and equipment to house various parts of the Center program.
5. Continue the expansion and improvement of activities in each area of the professional education field.

In FY 61 the following specific activity targets have been established:

1. Implement the plans for the functional integration of the activities of the six components of the National Professional Education Center.
2. Begin implementation of the building plans for facilities and housing for the Center program.
3. Continue the expansion and improvement of activities in each area of the professional education field.

In FY 62 the concept of the National Professional Education Center should be well established and functioning. The U.S. assistance to the various arms of its activities should be able to begin phasing out completing all activity by FY 64.

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G. PROGRESS TOWARD ACHIEVEMENT OF ACTIVITY TARGETS:

1. Work Accomplished to Date

a. Activities of the Central Institute of Education have been studied by a GOI committee with certain recommendations for a revision of structure. Additional recommendations have been incorporated in a report by Dr. R. Freeman Butts while serving as a consultant to CIE. A special committee of the Ministry of Education has examined the proposed reorganization of the six existing organizations into a National Professional Education Center and has issued an interim report for partial reorganization. Dr. Butts' proposals call for a complete association of all the activities of these organizations.

b. The National Fundamental Education Center has carried out three training courses for Social Education Organizers with the assistance of UNESCO and TCM advisors. The Center is approaching a full work schedule of activity.

c. The National Institute of Basic Education has carried out a number of workshops in various parts of India during which time the concepts and purposes of basic education as a new approach to elementary education for India have been explained and discussed.

d. The National Institute of Audio-Visual Education has recently opened and has completed the installation of most of its equipment, organized its curriculum on a tentative basis, set forth its objectives and organization and made final plans for its first training course to take place in August 1959.

e. All of the organizations have carried on or begun research projects in their respective fields and have organized or strengthened their staff and facilities to carry out their respective training assignments.

2. Work Remaining to be Done

a. Integrate the Central Bureau of Educational and Vocational Guidance and the Central Bureau of Textbook Research into the Central Institute of Education in FY 60 and to reorganize their functions.

b. Incorporate the activities of the Central Institute of Education, the National Institute of Basic Education, the National Fundamental Education Center and the National Institute of Audio-Visual Education into a coordinated program of professional educational leadership training.

c. Follow up leadership training and research started by the work of the four consultants on the Teachers College team so as not to lose already established momentum. (The two new technicians arriving in September 1959 will carry the process forward.)

d. Establish high level teacher training and extension services training. (The arrival of the short-term consultants in FY 60 should stimulate this work. Also a two year specialist in Student Teaching proposed for FY 61 will consolidate the gains and expand them.)

e. Round out and coordinate the activities of the several components of the National Professional Education Center in order to cover all the areas of need in professional education at all levels.

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f. The contract activities will have to be expanded and recruitment of requested positions carried out by the contractor.

g. Participants will have to be selected cooperatively by the contractor, TCM and GOI.

h. Draw up and implement plans for expansion of building and facilities for the various components of the Center.

3. Progress toward Achievement of Activity Targets

a. Preliminary plans and recommendations for the establishment of the National Professional Education Center have been made and are being studied by the Ministry of Education.

b. The three National Institutes have housing that is adequate for the beginning activities of each program. The Audio-Visual Institute has been housed in a new building with a large initial investment of equipment and facilities.

D. NATURE OF THE U.S. CONTRIBUTION:

1. Previous Fiscal Years

a. Under project -114 \$ 21,000 in commodities were furnished to the National Institute of Basic Education in FY 57 and FY 58. Two participants in the field of Basic education were funded in FY 59 and will depart India in August 1959 for 12 months training each.

b. Under project -118 \$25,000 in commodities were furnished to the National Fundamental Education Center in FY 57. In FY 59

a U.S. technician, Adult Leadership Training Specialist, was provided and entered on duty in India, October 9, 1958. One participant was funded in FY 59 for training in adult leadership training and research for 6 months and will depart India in August 1959.

c. Under project -120 \$182,000 in commodities were furnished to the National Institute of Audio-Visual Education in FY 57. A U.S. consultant is serving 9 months, (6 months in FY 59) assisting the GOI staff to open the Institute, install the equipment and organize the Institute and its training programs.

d. Under project -146 (formed by a merger of projects 073 and 119 in FY 58) a total of \$77,000 commodities has been furnished to the Central Institute of Education (\$60,000), the Central Bureau of Textbook Research (\$10,000) and the Central Bureau of Educational and Vocational Guidance (\$7,000). Under the present contract with Teachers College the services of the following have been made available:

- (1) Educational and Vocational Guidance Specialist for one month only due to emergency return to U.S.
- (2) Textbook Development Specialist for four months from January 19, 1959 to May 2, 1959.
- (3) Tests and Measurements Consultant for four months from October 2, 1958 to January 20, 1959.
- (4) Educational Philosophy Consultant for four months from February 5, 1959 to May 30, 1959.

The above contract specialists assisted the respective organizations to which they were attached in the upgrading and expansion of their activities. The latter consultant served in coordinating capacity as chief of party of the contract team

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and as such presented TCM and the GOI with the consolidated recommendations which have influenced the direction of this project.

2. Operational Year - 1960

In FY 1960 this project provides for the merging of all active elements of projects 114, 118 and 120 into project 184. Provisions contained in the present contract with Teachers College under the FY 59 project 184 will be continued with alterations in the participant allocation. The present contract will be expanded to include the technicians and consultants required in the merged projects with the exception of the Adult Leadership Specialist. Total FY 60 U.S. contribution \$181,000.

a. Technician Adult Education Advisor, 6171008, (Leadership Training) Position No. 188, FSR-3. Assigned to the National Fundamental Education Center to advise in the development of training programs for Social Education Organizers and to advise the Ministry of Education, State governments and social education centers in the field of leadership training in adult education, for 12 months in FY60, \$21,000.

b. Consultant Audio-Visual Education Adviser, serving total of nine months in Position No. 190. Assigned to the National Institute of Audio-Visual Education to advise the Director of the Institute in the initial organization and operation of the Institute, for three months in FY 60 (ETD, September 1959) \$4,000.

c. Contract Services Continuation and extension of the present contract with Teachers College (ICA-W-698

signed September 8, 1958) which includes the following active positions:

- (1) Professor of Educational Administration 24 months, ETA September 1959, assigned to the Central Institute of Education - also designated Chief of Party.
- (2) Professor of Education, Specialist in Guidance, 23 months, (one incumbent filled post for one month prior emergency return to U.S.), assigned to the Central Bureau of Educational and Vocational Guidance, ETA FY 60.
- (3) Professor of Curriculum, Textbook Research Specialist, 20 months, (one incumbent filled post temporarily for four months) assigned to the Central Bureau of Textbook Research, ETA FY 60.
- (4) Consultant in Educational Psychology, 6 months assigned to the Central Institute of Education, ETA September 1959.
- (5) Consultant in Educational Sociology, 6 months assigned to the Central Institute of Education, ETA FY 60.

Reassignment of the 17 participant positions funded in the TC contract to provide a total of 10 man-years of participant training for participants mutually selected by the GOI, TCM and the contractor in areas of training connected with the expanded activities of this project. Under this provision participant elements mutually planned under projects 114, 118, 120 and 146 can be implemented up to the limits proposed above through the

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<p>provisions already made and funded in the present TC contract. (Requests for 3 participants - staff members of the National Institute of Basic Education - for up to one year's U.S. training are pending in the Ministry of Education at this time.)</p> <p>(No FY 60 funding required for the above positions and participants as they were fully funded in FY 59.)</p> <p>Expansion of the TC contract to include the following positions formerly carried as U.S. technicians under projects 114 and 120 respectively: (FY 60 contract services funding \$104,000 and \$16,000 in PL. 402 rupees).</p> <p>(1) Professor of Elementary Education, Specialist in Research, 24 months, assigned to the National Institute of Basic Education, to assist the Institute in developing its research program in the field of Basic Education. ETA FY 60, \$52,000 and \$8,000 in 402 rupees.</p> <p>(2) Professor of Audio-Visual Education, 24 months, assigned to the National Institute of Audio-Visual Education to assist the Institute in developing its training and research programs and to coordinate the contributions of the consultant specialists outlined below. ETA FY 60, \$52,000 and \$8,000 in PL.402 rupees. Total FY 60 funding \$129,000.</p> <p>3. <u>Budget Year - 1961:</u></p> <p>In FY 61 the contract services outlined in FY 60 will be continued and expanded to include five additional technicians, 4 consultants, 10 additional man-years of participant training and additional commodity assistance (first under the</p> <p>contract). The U.S. technician in adult leadership training will be continued to the termination of this position. Local currency allocations to the expansion of facilities and equipment of the National Professional Education Center is planned. Total FY 61 U.S. contribution is \$462,000.</p> <p>a. <u>On-Rolls Technician:</u> Adult Education Advisor, 617100 (Leadership Training) position No. 188, FSR 3 Continuation of assignment to termination, 3 months in FY 61, (ETD - October, 1960), \$12,000.</p> <p>b. <u>Contract Services:</u> Expansion of the TC contract (FY 61 total cost of \$450,000) to include the following elements:</p> <p>(1) Professor of Educational Research, 24 months to be assigned to the Central Institute of Education to assist the Institute and the other organizations of the National Professional Education Center in the planning and coordination of their research programs.</p> <p>(2) Professor of Education of the Exceptional and Physically Handicapped Children, 24 months, assigned to the Central Institute of Education to assist the Institute, other organizations of the National Professional Education Center, and the Ministry of Education in their plans and programs to expand this field of education.</p> <p>(3) Professor of Curriculum Development, 24 months assigned to the Central Institute of Education to assist the Institute and other organizations of the National Professional Education Center in the study of and coordination of curriculum development</p>							
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and revision on a national scale.

(4) Professor of Education in Student Teaching, 24 months, assigned to the Central Institute of Education to assist the Institute and other organizations of the National Professional Education Center in the reorganization and upgrading of their teacher training programs.

(5) Professor of Library Science, 24 months, assigned to the Central Institute of Education to assist the Institute and other organizations of the National Professional Education Center to organize, supplement and coordinate their libraries, to enable them to adequately support the training and research activities carried on through the National Professional Education Center.

Five technicians for 24 months each funded in FY 61 for contract services \$300,000.

(6) Four Consultants in audio-visual education for total of 12 man-months assigned to the National Institute of Audio-Visual Education, in such fields as pre-service and in-service audio-visual education, administration of audio-visual education programs, direction of national and state A-V association activities, and A-V research and evaluation to assist the Institute in developing its top level leadership training programs. Funded in FY 61 for contract services \$30,000.

(7) Addition of provision for 10 man-years of participant training to include participants representing the various associated organizations of the National Professional Education Center for U.S. training arranged by the contractor in fields appropriate to their assignments in India. Ten participant man-years funded in FY 61 for contract services - \$70,000.

(8) Provision for commodity procurement by the contractor of teaching aids, demonstration, transport, duplicating and educational equipment funded for contract services in FY 61 - \$50,000.

4. Future Fiscal Years

At the present time it is anticipated that TC funding will not be required beyond FY 61.

E. NATURE OF THE COOPERATING COUNTRY CONTRIBUTION:

The GOI Ministry of Education budget is the entire support (other than external aid) for the six organizations presently associated with the National Professional Education Center project. These organizations have been brought into being, buildings erected or rented, staffs recruited and paid, and programs organized and financed completely by the Central Government. These organizations are permanently established Institutes and Bureaus which are contemplated to give long-range direction and guidance to the evolution of educational policies and practices in India. The GOI contribution to their support is calculated on this long-term basis. External assistance such as the TCM assistance is (as described herein) additional to the basic GOI assistance and intended to make

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more effective the fundamental GOI investment in these activities. The GOI is currently considering the financial requirements for providing more adequate facilities and equipment for the projected National Professional Education Center and its constituent organizations.

The Government of India or the sponsoring agency will pay the participants' salary during their training abroad and local travel costs upto Delhi before departure and from Delhi to place of duty after return from the United States, and any other expenses in connection with the participants' pre-departure formalities.

F. CONTRIBUTION FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS:

1. Other Sources

UNESCO has furnished (through FY 60) a total of 12 technicians and \$122,500 (\$2,500 from Russia) to the organizations listed herein: National Fundamental Education Center - 3 technicians, 3 man-years total, \$10,000 commodities; National Institute of Basic Education, 1 technician, 1 man-year; National Institute of Audio-Visual Education (to activities in the A-V field prior to the actual opening of the Institute) 2 technicians, one man-year total, \$112,500 commodities; Central Institute of Education - 1 Technician, one man-year; Central Bureau of Textbook Research - 2 technicians, 1½ man-years total; Central Bureau of Educational and Vocational Guidance, 3 technicians, 2 man-years total. Two Fulbright Professors have served for 1½ man-years total at the Central Institute of Education. The Wheat

Loan program has provided \$7,200 for the purchase of library books for the CIE. The above external assistance was provided to the various organizations with the same objectives in mind as listed in B-2 above — upgrading and intensifying the activities engaged in by the GOI organization. The specific fields of activities have been coordinated with TCM to avoid duplication of effort.... rather the programs were complementary to each other.

2. Relationship to other Projects

This is the only known project including external assistance directly concerned with leadership training in a multi-level basis in education. Several projects deal in part with leadership and teacher training in specific levels of the educational structure, but the specific purposes of this project are not furthered directly through these other projects.

G. FINANCIAL CONSIDERATIONS:

At the present time no additional funding is anticipated from TCM funds after FY 61. The GOI does now and will assume the significant financial burden for the cost of the project. As each of the presently operating organizations has firm place in the budget of the Ministry of Education there is every reason to believe that a closer association of their work and pooling of resources will in no way make their financial situation less secure.

No significant U.S. pipeline is anticipated other than what is required for forward funding of the university contract.

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Contract activities are expected to increase rapidly in tempo resulting in a decline in the pipeline in FY 60.

H. COOPERATING COUNTRY — TCM COORDINATION

The elements of the FY 60 portion of this E-1 are all covered basically by GOI requests pending from previous years in the projects merged herein. A change in the wording of several of the requests is necessary to negotiate with the GOI before implementation as a result of the change to contract implementation and the use of short-term personnel in the Audio-Visual field due to extreme recruitment difficulties in the U.S. The general project goals are being studied by the GOI at the highest level in the Ministry of Education at this time. It is an objective of this project to stimulate the GOI thinking in the direction of greater coordination of the various activities of the organizations described herein. There is agreement by the responsible division heads of the Ministry of Education with TCM in regard to all of the separate elements of the project described herein. There is not yet complete endorsement of all the projections which this activity may lead to in the future. This lack of endorsement in no way means that the GOI has objections to the plan. Rather it means that U.S. assistance in this project is timely in that the GOI is interested in and appreciative of the advice and recommendations of educational experts from the U.S. as it (the GOI) seeks to develop its educational policies and practices to best meet the needs of India at this time.

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		COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Procurement Consultation Services

1 PROJECT BEGINS FY 1955 ENDS FY 1960	(A)		Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C)	(D) Numbers of People			
	Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country	Other External Financing	(1) Technicians Authorized				
															Non-Contract	Contract	(2) Participants		
A. All Prior Years	-	*	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
B. Net Deob.-Reob.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Funds	-	20	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Actual Year FY 59	TC	20	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Operational Year FY 60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D. Budget Year FY 61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. All Subsequent Years	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F. Total All Years	TC	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2 Dollar Obligation and Expenditure	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60					
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60		
	All Prior Years		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Actual Year FY 59	TC	-	-	-	20	20	20	-	20	-	20	-	20	4	16	-	-
	Operational Year FY 60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	TC	-	-	-	20	20	20	-	20	-	20	-	20	4	16	-	-

Problems Addressed: * 10 disbursed in prior years under activity code 99. See notes 4 and 9. No new funds are to be obligated. Contract expires 12-31-59. Funds already obligated are expected to be sufficient.

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				COUNTRY ECONOMIC PROGRAM		Procurement Consultation Services	

1. General Description of Project

This project is to provide the technical services of a competent procurement consulting firm to the India Supply Mission, Washington DC. These services will complement the staff of the India Supply Mission and aid them in clarifying specifications, evaluating bids, drawing specifications as required, scrutinizing inspection reports and consultation with contractors on technical problems and details.

2. Specific Activity Targets or End Results of the Project

The procurement consulting firm will assist and advise the India Supply Mission to achieve the following:

- a) Sufficiency of technical particulars on specifications prior to issuance of bid invitations.
- b) Evaluation of bids and accurate technical analysis of tenders.
- c) Selection of most suitable equipment which meets specifications, at competitive prices.
- d) Compiling of specifications for equipment or supplies, when requested.
- e) Review of inspection reports furnished by inspection contractors.
- f) Consultation with contractors on technical problems on details, as required.
- g) Review of progress reports submitted by contractors to ensure delivery within periods specified in the contracts.

3. Progress Toward Achievement of Activity Targets

- a) Work Accomplished to Date
This project was initiated in FY 1955, however full use of the procurement consultation firm (John I. Thompson Co.) was not made until the middle of FY 1958.
- b) Work Remaining to be Done
Services outlined in 2 above will continue to be available through December 31, 1959, at which time contract with the procurement consultation firm expires.
- c) Progress toward Achievement of Activity Targets
Rate of utilization of services has been slower than initially envisaged, and due to decrease and change in the commodity element of the program the need for procurement consultation services has consequently diminished.

4. Nature of the U.S. Contribution

- a) Previous Fiscal Years
Upon initiation of the project (FY 55) \$100,000 was obligated for the purposes described above; the obligation was reduced to \$10,000 in FY 1958 reflecting a slower rate of utilization of services, than initially anticipated. In FY 1959 an additional \$20,000 was provided for these procurement consultation services.
- b) Operational Year, Budget Year, Future Fiscal Years
No new funds are to be obligated. ICA/W Contract with John I. Thompson Co. expires 31 December 1959. Funds already obligated are expected to be sufficient.

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<p>5. <u>Nature of Cooperating Country Contribution</u></p> <p>No financial contribution. India Supply Mission in Washington request the services of the contractor when they require them.</p> <p>6. <u>Contribution from Other Sources and Relationships to Other Projects</u></p> <p>This project is directly related to all projects for which commodity procurement is carried out through the India Supply Mission.</p> <p>7. <u>Financial Considerations</u></p> <p>The U.S. contribution for FY 1959 terminates the U.S. contribution to the project. No significant pipe line exists. It is planned to deobligate balance of funds remaining in ProAg on termination of contract.</p> <p>8. <u>Cooperating Country - USOM Coordination</u></p> <p>This project has been jointly approved by the GOI and TCM.</p> <p>*9. <u>Prior Year's Obligation</u></p> <p>Activity Code 99 was initially assigned to this project. This was changed to activity code 76 on the E-1 dated 11-17-58. The Controller's Analysis of unliquidated obligations as of June 30, 1959 shows \$10,000 disbursed under activity code 99 and \$20,000 under activity code 76 as an unliquidated obligation.</p>							
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					COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Assistance to Indian Statistical Institute	

1	PROJECT BEGINS FY 56 ENDS FY 61	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
			(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract		Contract
				U.S.	3rd Country	Contract														
A. All Prior Years		TC	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B. Net Deob.-Reob.			-4	-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Current Funds			5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Actual Year FY 59		TC	1	1	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	
C. Operational Year FY 60		TC	88	77	5	-	-	-	2	-	-	-	-	4	-	1	-	-	-	
D. Budget Year FY 61		TC	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E. All Subsequent Years			-																	
F. Total All Years		TC	130																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60					
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60		
All Prior Years		TC	7	-	4	-4	-4	-4	-	-	-	-	-	-	-	-	-	-
Actual Year FY 59		TC				5	5	5	-	5	-	5				5	4	1
Operational Year FY 60		TC											82	82	62		20	
TOTAL		TC	7	-	4	1	1	1	-	5	-	5	82	87	66		21	

Problems Addressed:

VII. Deficiencies in public administration.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November '59	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-78-078	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Assistance to Indian Statistical Institute		

A. GENERAL DESCRIPTION OF THE PROJECT

This continuing project involves providing assistance to the Indian Statistical Institute, Calcutta, in order to help improve certain specialized fields in statistical education and research directly related to national economic planning.

India is engaged in a program of economic planning and advancement which is widely known. The ISI is a unique statistical and research institution in India which conducts professional training and research in statistics at the graduate and postgraduate levels, performs statistical work for the National Sample Survey and collects and analyzes statistical data which becomes the basis for the formulation of India's development plans by the Planning Commission. Thus, the role of the ISI is significant in the total planning efforts of the GOI. U.S. experience in such specialized fields as sample survey, statistical quality control, economic and statistical analysis, electronic computing, operations research, etc. is highly beneficial to the GOI through assistance to the Indian Statistical Institute. Special emphasis is now being placed on the collection of data for the Third Five Year Plan (expected to be completed by FY 61).

The U.S. assistance includes modest commodity support, one consultant, one participant, and four U.S. technicians for the Institute as detailed in Section D.

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

This project is designed to assist the ISI in penetrating new fields of statistical and economic research

by providing U.S. experts to work with Indian counterparts in the following fields:

- (a) Sampling theory and sample survey design with special reference to socio-economic inquiries.
- (b) Statistical quality control and other techniques for control of operations, increase of productivity and improvement of industrial management.
- (c) Economic and statistical analysis relating to inter-industry relations, economic growth, and programs for economic development.
- (d) Development and application of electronics and other equipment to such problems.
- (e) Operations research with special reference to industrial management and economic development.

C. PROGRESS TOWARD ACHIEVEMENT OF THE PROJECT ACTIVITY TARGETS

Commodities provided for in FY 56 have been delivered to the library of the ISI. The electronics Computing Consultant served one month in FY 57. One technician in Operations research arrived in June 1959 and is proceeding to establish an operations research unit at the Institute. Two other technicians are expected in October 1959. The fourth technician has not been nominated.

D. NATURE OF THE U.S. CONTRIBUTION

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-78-078	E-1
				COUNTRY ECONOMIC PROGRAM		Assistance to Indian Statistical Institute	

1. Prior Fiscal Years:

- (a) Commodities consisting of \$2,750 worth of management books and periodicals for the library provided in FY 56.
- (b) One U.S. Consultant, Electronics Computing expert for one month provided in FY 57.
- (c) 4 U.S. technicians, grade R-3, for one year each in the fields of Statistical Quality Control, position No. 214; Statistician (Sample Survey), position No. 215; Statistician (Economics & Statistics) position No. 216; and Statistician (Operations research), position No. 217. These technicians were requested by GOI in FY 58 and all expected to be in India in FY 60. Cost in FY 60 \$77,000.
- (d) One participant in Statistical Quality Control for U.S. training for 9 months requested in FY 60 @ \$5,000 Sec. 402 rupees, \$1,850 for international round-trip travel.

2. Budget Year FY 61:

Funding two technicians (SPN 214 & 215) for 3 mos. each @ \$21,000; one technician SPN 216 for 6 months @ \$15,000.

U.S. contributions are not anticipated after FY 61.

E. NATURE OF THE COOPERATING COUNTRY CONTRIBUTION

The Indian Statistical Institute provides classroom and laboratory space and other necessary educational

facilities for the activities of the U.S. technicians. A contribution is made by the GOI to a TCM maintained trust fund to help cover some of the within-India travel.

F. CONTRIBUTION FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

This project is closely related to project 86-75-062, Economic Planning, under which assistance was given to the Ministry of Finance and the Planning Commission in various specialized fields such as finance, manpower and raw materials.

Assistance to the ISI is also being furnished by the U.N., Ford Foundation, Colombo Plan and the U.S.S.R. Although other external assistance may be in the same fields in which TCM is assisting, such apparent duplication is encouraged by the Institute in order to have Indian counterparts exposed to all possible approaches followed elsewhere so that they may determine those procedures which are best suited to Indian conditions. In addition certain experts required are from such highly specialized fields as to make it impossible to find readily trained and available personnel in India and even difficult for any one country to furnish them.

G. FINANCIAL CONSIDERATIONS

No pipeline problem exists.

H. COOPERATING COUNTRY - TCM COORDINATION

All elements of the project have been approved and requested by the GOI.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-79-080	E-1
	COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Training in Public Administration		

1	PROJECT BEGINS FY 55 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants		
																Non- Contract	Contract	Non-Contract U.S.	3rd Country	Contract
A. All Prior Years	TC	27	-	27	-	-	-	-												
B. Net Deob.-Reob.		-3	-	-3	-	-	-													
Current Funds		31	31	-	-	-	-													
Total Actual Year FY 59	TC	28	31	-3	-	-	-								1	-	-	-	-	
C. Operational Year FY		-																		
D. Budget Year FY		-																		
E. All Subsequent Years		-																		
F. Total All Years	TC	55																		

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	TC	20	-	7	-3	-3	-3	-	4	4	-		-	-	-
	Actual Year FY 59	TC				31	31	31	-	31	28	3		3	3	-
	Operational Year FY															
	TOTAL	TC	20	-	7	28	28	28	-	35	32	3	-	3	3	-

Problems Addressed:

This project has been phased out. Commencing FY1960 the continuing portion of this project has been transferred to project 386-72-170, Organization and Management. Therefore, for description, see project -170.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-72-170	E-1
				COUNTRY ECONOMIC PROGRAM		PROJECT TITLE ORGANIZATION AND MANAGEMENT	

1	PROJECT BEGINS FY 60 ENDS FY	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper-ating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	3rd Country
A.	All Prior Years																		
B.	Net Deob.-Reob. Current Funds																		
	Total Actual Year FY 59																	-	-
C.	Operational Year FY 60	TC	27	21	5		1			5							1	2	
D.	Budget Year FY 61	TC	39	17	20		1	1									-	6	
E.	All Subsequent Years																		
F.	Total All Years	TC	66																

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/			
	All Prior Years																		
	Actual Year FY																		
	Operational Year FY 60	TC												27	27	17	10		
	TOTAL	TC												27	27	17	10		

Problems Addressed:

VII - Deficiencies in Public Administration. (To assist the Government of India in its program to analyse the existing work and procedures of the Central Government in order to bring about increased economy, efficiency and effectiveness in all government services.)

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-72-170	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	ORGANIZATION AND MANAGEMENT		

A. GENERAL DESCRIPTION OF THE PROJECT

Under this project the U.S. will provide technical assistance to the Special Reorganization Unit of the Ministry of Finance and the Committee on Plan Projects of the National Development Council, Government of India in carrying out a "work study" program which represents a concentrated two to three year effort on the part of the GOI to evaluate all governmental services for the purpose of finding better and more economical work methods and standards of performance.

The GOI has determined to achieve increased efficiency in work methods, greater economy in operations and higher performance standards in its public services in order to meet development program needs and the tremendously increasing demands from the public for more and better governmental services. The adaptation of new technologies and operational methods to all governmental activities is necessary to gain the maximum productive value from the use of its human and material resources. The success of present and future programs for economic development and government stability in India depends heavily on the ability of governmental activities to implement the various programs successfully within the resources available to the country. In this regard there is clearly an economic value in activities which have as their purpose the finding of ways to reduce the operational costs, to reduce future requirements for staff, materials and capital goods, to increase productivity and effectiveness of staff, to improve use of material resources and to expedite services to the public.

In FY 58 TCM provided a six-month consultant (under project 86-76-062, Economic Planning) to the Ministry of Finance and the Committee on Plan Projects for the purpose of giving training and advisory assistance to the staffs in administrative research methods with particular emphasis on work study. A short training course for 12 organization and management officers was conducted

and several exploratory studies were made of one government - department — Posts and Telegraphs. The early training and research activities of the S.R.U. contributed to an increasing interest on the part of the responsible GOI officials and the GOI has decided to expand the work study staff, develop more intensive training methods and to broaden the scope of the work study program to cover all governmental activities.

The "work study" program has as its broad goal the development of improved methods of organization and procedure which will result in greater economy and efficiency and better public services in all branches of the government. Specifically, this program includes the following activities to be carried out for each of the 23 central government ministries and 3 special units:

1. An analysis of work content, distribution and methods to find more efficient and expeditious work practices.
2. An analysis of organization to bring about better personnel utilization, to simplify lines of authority and to improve inter-organizational work relationships.
3. An analysis of work output of individuals and units for the purpose of fixing performance standards in order to increase productivity and personnel utilization in government work.
4. Stimulation of departmental interest in activities aimed at work simplification and improvement.

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

The total work study program is being scheduled by the S.R.U. at the present time and is anticipated to require about two years

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-72-170	E-1
				COUNTRY ECONOMIC PROGRAM		ORGANIZATION AND MANAGEMENT	

for completion in all governmental activities. The completion of a study of "housekeeping" services of the government is expected within about six months of this time. The end results of the total project will include:

1. Maximum utilization of personnel, supplies and equipment.
2. Reduced cost of operations.
3. Better conditions of work.
4. Simplification of work procedures.
5. Alleviation of service deficiencies and better services to the public.

C. PROGRESS TOWARD ACHIEVEMENT OF PROJECT ACTIVITY TARGETS

1. Work accomplished to Date:

The U.S. Technician has assisted the S.R.U. work study unit to:

- a. Set up general plans for the training courses to be given to analysts.
- b. Prepare training materials and library resource materials for the training courses.
- c. Complete a training course for departmental O.&M. officers at the supervisory level. (Three such classes have been held.)

- d. Initiate a training course for 16 senior officers and 2 state university officials who will be associated with the two year work study program.

2. Work Remaining to be Done:

The U.S. technician will assist the work study unit to:

- a. Modify course content and repeat course of No. 1.d. above for other senior officials.
- b. Develop appreciation or orientation materials for top level executive officers in work study and simplification.
- c. Repeat No. 1.c. above for lower rank officers.
- d. Complete the work studies of all government ministries and special units.
- e. Expand training resources — films, library, audio-visual aids, etc.
- f. Give guidance as requested to "Economy (Work Study) Units" recently established in all ministries.

3. Progress Toward Achievement of Project Targets:

- a. The Work Study Unit (SRU) has completed plans for the work study evaluation of the whole central government.
- b. A work study of the Ministry of Finance is nearing completion. As a result of new performance

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-72-170	E-1
				COUNTRY ECONOMIC PROGRAM		ORGANIZATION AND MANAGEMENT	

standards and simplified methods adopted it has been found that about 15% of the existing staff could be subject to transfer to more productive assignments and transfers have been started. This experience will be used to support the work study program in other ministries.

- c. Studies of smaller units of other ministries have been completed and studies of several ministries are underway or are projected for the immediate future.
- d. Detailed plans for the study of house-keeping services have been completed and study is underway.
- e. Training activities have stimulated a spreading interest in the work study program. Special "Economy Units (work study units) have been established in all ministries and training of staffs for such units will receive increasing attention.

D. NATURE OF THE U.S. CONTRIBUTION

1. Previous Fiscal Years:

In FY 58 the U.S. contributed (under project 86-75-062, Economic Planning) the six month consultant in Organization and Management whose initial activities have been expanded within the present project. In FY 59 the GOI request for a two year extension of the consultant resulted in the Organization and Management Advisor being furnished under project 86-79-080 — Public Administration — for activities described herein. The technician entered on duty in India November 27, 1958.

2. Operational Year - 1960:

In FY 60 the U.S. will continue the services of the Organization and Management Advisor under this new project. U.S. and third-country observation and training tours will be provided for three officers of the GOI. Modest commodity and other costs support will be given to the U.S. technician. Total FY 60 U.S. contribution - \$27,000. Sec. 402 rupees - \$5,000.

- a. Technician: Organization and Management Advisor, 7030301, (Organization and Methods Advisor, Public Administration) Position No. 280. KSR-3. For 12 months \$21,000. To assist in the development and conduct of training activities, gathering and utilization of practical training materials and to participate in work study projects.
- b. U.S./Third Country Observation/Training: One senior government official having responsibilities in the field of government management, research and operational improvement activities to visit the U.S. for 3-4 months to investigate management, operational and administrative research methodology in the U.S. Government and those private enterprises which might have application to GOI public corporation activities. Emphasis is to be placed on the organization and techniques used for operations research, program evaluation, work simplification and work measurement, cost analysis and expenditure control. Arrangements also should permit gaining familiarity with work methods of private management consulting organizations and with management and operational research units associated with educational institutions, professional associations and non-profit research organizations.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-72-170	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	ORGANIZATION AND MANAGEMENT		

In addition at least a brief examination of Canadian governmental management research program is requested.

(One participant for 4 months costed at \$2,000 plus sec. 402 rupees for international travel). ETA US May 1960, Canada July 1960.

One middle management government official for a period not to exceed six months to undertake training programs, field trips and participation in practical work projects as appropriate to his management research assignment in the GOI. This individual will be selected on the basis of demonstrated ability in administration and from an organization where his services are, or will be utilized for management improvement work. The participant will be assigned to programs in the field of work simplification, work measurement and general organization and methods research. The objectives of the training are the enhancement of his value as an analyst in GOI administrative research, work simplification and operational improvement work and the development of skills which he can impart to others in future GOI training programs. (One participant for not to exceed 6 months costed at \$3,000 plus Section 402 rupees for international travel.) ETA US June 1960.

- c. Commodities: \$1,000 in Code 890 for books, periodicals, films, filmstrips and other training aids in support of the U.S. Technician.
- d. Other Costs: \$1,000 (from Sec.402 rupees) to cover the cost of locally produced training aids in support of the activities of the U.S. Technician.

3. Budget Year - 1961

In FY 61 TCM will continue to provide the services of the

Organization and Management Advisor for 6 months. Provision will also be made for 5 additional participants for observation and training in the U.S. Modest commodity and other costs support will be provided for the U.S. Technician. Total FY 61 contribution - \$39,000.

- a. Technician: Organization and Management Advisor as described in Operational Year section above - \$17,000. ETD, January 1961.
- b. Participants: Five middle management level government officials for observation/training in the U.S. similar to that outlined in FY 60. \$15,000.

Two of these participants may be assigned to study operational methodology and improved techniques in a specific administrative or technical area such as records management, supply management, budget analysis, internal audit, etc.

One participant for U.S. graduate and practical training in operations research for application to administrative problems for a period not to exceed one year. The participant will make practical applications of his training in program evaluation and operation analysis problems in the GOI upon return to India. \$5,000.

- c. Commodities: \$1,000 for technician support commodities in Code 890.
- d. Other Costs: \$1,000 for local production of training aids in support of U.S. technician.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-72-170	E-1
				COUNTRY ECONOMIC PROGRAM	ORGANIZATION AND MANAGEMENT		

4. Future Fiscal Years:

There are no present plans for future fiscal year contributions to the project, but interest has been expressed by GOI officials in the participant training program if results from the FY 60 and FY 61 efforts are favorable.

nature exist between the GOI organizations described above and private and semi-private institutions such as the Institute of Public Administration in New Delhi. No other direct aid to the project is known.

2. Relationship to Other Projects:

The only other projects in the field of Public Administration in which the U.S. has been involved are:

- a. 386-72-078: Indian Statistical Institute - under which four statistical specialists are assisting this agency in various aspects of its program concerned with the ~~work~~ collection, presentation and analysis of statistical data used by the Ministry of Finance and the Planning Commission in developing government plans and policies. The specialists in quality control and operations research will make available advice and training to the Organization and Management project on a limited basis as may be requested.
- b. 386-72-080: Public Administration - provided assistance to the University of Lucknow in developing an Institute of Public Administration. The Organization and Management Advisor was carried under this project during FY 59 but it was recognized that as the main objectives of the project were directed towards the academic aspects of public administration this position should be transferred to a new project in FY 60. There are no active elements remaining in project 080.
- c. The Ford Foundation has assisted the Institute of Public Administration in New Delhi by providing some \$335,000 for technical training and library development at the Institute. The Institute has undertaken special

E. NATURE OF COOPERATING COUNTRY CONTRIBUTION

The GOI has initiated and undertaken the entire project with very limited assistance from the U.S. as described above. The Ministry of Finance has a Special Reorganization Unit under the supervision of a Joint Secretary devoted wholly to the evaluation of regular governmental activities. The National Development Council in cooperation with the Planning Commission has a Committee on Plan Projects devoted wholly to the evaluation of projects appearing in the Five Year Plan. The activities of the SRU and the C.O.P.P. are coordinated by the Joint Secretary of the Ministry of Finance. The original SRU staff of some 4 senior government officers supported by a number of analysts and investigators has been supplemented by some 8 senior officials and the addition of analysts and investigators. Departmental "work study" units are also being established. The U.S. technician is assisting with the training of these personnel.

The Government of India or the sponsor will pay the participants' salary during their training abroad and local travel costs upto Delhi before departure and from Delhi to place of duty after return from the United States, and any other expenses in connection with the participants' pre-departure formalities.

F. CONTRIBUTION FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

1. Other Sources:

Informal and indirect relationships of a professional

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-72-170	E-1
				COUNTRY ECONOMIC PROGRAM		ORGANIZATION AND MANAGEMENT	

academic teaching in public administration and has projected several workshop training activities of a practical nature for government officials.

G. FINANCIAL CONSIDERATIONS

At this time it is expected that the FY 61 contribution of \$41,000 will terminate U.S. assistance to the project. The GOI organization of the project within the regular structure of the Ministry of Finance insures that high level priority will be given to its continuation through final conclusion. Its nature will not require heavy financial drain on resources, but its activities should result in marked financial rewards for the government as has been discussed above. No U.S. pipeline is anticipated.

H. COOPERATING COUNTRY -- TCM COORDINATION

The plans for this project have been made by the GOI with advice from the Organization and Management Advisor. The full weight of implementation is being taken by the GOI through its own efforts. The plans for TCM assistance have been discussed with the Joint Secretary of the Ministry of Finance supervising the Special Reorganization Unit and carries his endorsement. The participant and training elements are subject to the high level clearances which are usual for all projects in India.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-81-008	E-1	
		COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Community Development Program			
		<input type="checkbox"/> REVISION NO.						

1 PROJECT BEGINS FY 52 ENDS FY 59	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
															Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	SA TC	8,998 4,883	- 117	- 51	- -	8,998 4,715	- -												
B. Net Deob.-Reob.		-173	-	10	-	-183	-												
Current Funds		8	8	-	-	-	-												
Total Actual Year FY 1959	SA TC	-89 -76	- 8	- 10	- -	-89 -94	- -												
C. Operational Year FY 1960		-																	
D. Budget Year FY 1961		-																	
E. All Subsequent Years		-																	
F. Total All Years	SA TC	8,909 4,807																	

2 Dollar Obligation and Expenditure	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	SA		7,899	-	1,099	-89	-89	-89	-	1,010	947	63		63	32	31
	TC		4,404	78	479	-84	-6	-6	-	395	346	49		49	25	24
Actual Year FY 59		TC				8	8	8	-	8	8	-		-	-	-
Operational Year FY																
TOTAL	SA TC		7,899 4,404	- 78	1,099 479	-89 -76	-89 2	-89 2	- -	1,010 403	947 354	63 49		63 49	32 25	31 24

Problems Addressed: This project is indirectly related to:

Problem I : Need to increase crop yields and total food production.

Problem V : Need for improvement and expansion of transportation and telecommunication facilities.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-81-008	E-1
				COUNTRY ECONOMIC PROGRAM		Community Development Program	

A. General Description of Project

This project began in FY 1952 and provided assistance, primarily in the form of commodities, to the Community Development program at national and state levels. The project phased out in FY 1959.

B. Specific Activity Targets or End Results of the Project

To provide technical services of government to the village; to strengthen and develop democratic institutions in the village; and by other means to foster development of the means of improvement of the standard of living of India's 280 million villagers, through:

- (1) provision of essential equipment necessary for creation of village access roads thereby opening the village to outside influences;
- (2) provision of vehicles, (especially jeeps), to maximize effectiveness of scarce technical personnel;
- (3) provision of facilities permitting application of mass communications media techniques in village aid work; and
- (4) provision of technical advisory services and selected participant training, pertaining essentially to that part of community development as it relates to development of the community and its democratic institutions. (Technical aspects of rural development have remained responsibilities of appropriate GOI ministries and their counterpart TCM technical divisions.)

G. Progress Toward Achievement of Project Activity Targets

1. Work Accomplished to Date

Between FY 1952 and FY 1957, equipment valued at approximately \$14 million has been provided for 820 community development blocks covering approximately 120,000 villages (of a total of 5,000 blocks and 550,000 villages), primarily vehicles for transport of scarce technical personnel, road rollers for construction of village access roads, and audio-visual equipment.

Technicians (generalists) in the field of community organization and human relations skills have been provided to advise and aid in training activities.

Participant training has been provided in areas of CD not available in India.

2. Work Remaining to be Done

Inapplicable insofar as TCM assistance has been phased out.

3. Progress Toward Achievement of Project Activity Targets

In providing or fostering the creation of basic physical facilities in the village, such as roads, schools, and wells, the project has been an unqualified success. Much, however, remains to be done in the development of democratic institutions at the village level. Improvement of the standard of living at the village level is essentially a question of increasing agricultural incomes—through increased agricultural production; here, also, much remains to be done and falls essentially within the scope of agricultural extension

E-1	FORM ICA 18-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-81-008	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Community Development Program		

activities (now being supported by TCM under the Food Production project).

D. Nature of the U.S. Contribution

1. Prior years

A total of \$13,716 (SA \$8,909 and TC \$4,807) has been obligated, primarily for commodities. 9 participants received training in FY58 in the U.S. in such fields as social education, audio-visual techniques, evaluation techniques, community organization and extension methods. Under this project 1 U.S. technician was assigned to the Government of West Bengal. Other advisory support has been provided by TCM staff technician positions. Most of the technicians who have been associated with the Community Development program in India have been brought in under agriculture, health and education programs.

2. Operational, Budget and Future Years

No further assistance is to be provided.

E. Nature of the Cooperating Country Contribution

Through March 30, 1958 the GOI and state governments had expended approximately 804 million rupees on the Community Development program. Villagers' contributions are estimated through the same period of time, @ Rs. 516 million.

In addition, the GOI has covered within-India handling, transportation and customs duties on the imported commodities, support costs for requested technicians and salaries while in

training as well as within-India transportation and pre-departure costs for the participants.

F. Contributions from Other Sources

In prior years 12 American technicians were provided under contract with the American Friends Service Committee. The Ford Foundation has extended major assistance in the community development field and is the major source of advisors for the Ministry. Since 1952 the FF's contribution exceeds \$ 10 million.

G. Relationship to Other Projects

Activity under such current projects as Food Production, Agricultural Cooperatives and Farm Organizations, National Water Supply and Sanitation, Water and Power Development (Groundwater Exploration sub-project), and Malaria Eradication support the objectives of the CD program in India.

H. Financial Considerations

Project is phased out; pipeline is negligible and will be liquidated by FY 1961.

I. TCM-GOI Coordination

Inapplicable as project is now phased out.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1
		1 November 1959		UNCLASSIFIED	INDIA	386-82-058	
				COUNTRY	PROJECT TITLE		
				ECONOMIC PROGRAM	Social Welfare Education		

1	PROJECT BEGINS FY 55 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People					
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper-ating Country	(1) Technicians Authorized		(2) Participants		
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country	Contract
A. All Prior Years	TC	426	45	-	350	31	-													
B. Net Deob.-Reob.		-	-	-	-	-	-													
Current Funds	TC	203	-	-	196	7	-													
Total Actual Year FY 59	TC	203	-	-	196	7	-											4	3	
C. Operational Year FY 60	-	-	-	-	-	-	-											4	-	
D. Budget Year FY	-	-	-	-	-	-	-											3	-	
E. All Subsequent Years	-	-	-	-	-	-	-													
F. Total All Years	TC	629	-	-	-	-	-													

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60				
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60	
Dollar Obligation and Expenditure	All Prior Years	TC	264	-	162	-	-	-	-	162	91	71			71	36	35
	Actual Year FY 59	TC				203	203	195	8	203	-	203			203	41	162
	Operational Year FY 60																
	TOTAL	TC	264	-	162	203	203	195	8	365	91	274			274	77	197

Problems Addressed:

VI - Insufficient human resources educated to meet the needs of modern India.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-82-058	E-1
				COUNTRY ECONOMIC PROGRAM		Social Welfare Education	

A. GENERAL DESCRIPTION OF THE PROJECT

This continuing project involves providing assistance to the Ministry of Education in the field of Social Welfare Education in India. Since its inception in FY 55 through its expected termination in FY 61 the project has three interrelated phases in chronological order.

1. FY 55-58: Two TCM on-rolls staff technicians surveyed the needs and planned the university training attack on the problems of social welfare. Besides this, a considerable part of their energies was used as consultants to private voluntary agencies.
2. FY 56-59: A contract with the Council of Social Work Education provided seven technicians to work in six colleges. Its chief concern was an academic one in helping determine the academic content needed for the pre-service training of social workers. The definition of the scope of social work itself was a part of this.
3. FY 59-61: (Third and final Phase): Extension of contract with Council of Social Work Education provided four technicians. The extensive approach was changed to an intensive regional plan on the recommendation of the First Team. Four schools were to become demonstration centers with emphasis on the method and technics of actual functioning situations, through field work in agency situations.

-One extension of an incumbent at the Institute of Social Sciences, Kashi Vidyapith, Varanasi; Case Work/Field Work Specialist; up to May 1960.

-Three Specialists in Field Work for two years each at Delhi School of Social Work, Madras School of Social Work, and Lucknow University, Department of Social Work, respectively.

In addition, three participants are included in the contract extension to work in training institutions.

B. SPECIFIC ACTIVITY TARGETS OR END RESULTS OF THE PROJECT

1. End Results:

- a. To help reorient the structure, the scope and the methods of functioning of various types of social welfare agencies to make them more effective in solving social problems.

2. Specific Activities (Third Phase):

- a. To help the faculties in the four selected Colleges make these institutions into outstanding demonstration centers of social work education especially on the leadership level. (Some 150 graduates per year).
- b. To provide consultant services as requested to other schools of social work in each regional area.
- c. To provide consultant services to social welfare agencies in each regional area as requested and as time permits.
- d. To provide teaching services not to exceed 25% of the technicians' time.
- e. To help select U.S. participants for advance training as Indian Social Work Educators in the four Demonstration Centers.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-82-058	E-1
				COUNTRY ECONOMIC PROGRAM		Social Welfare Education	

C. PROGRESS TOWARD ACHIEVEMENT OF ACTIVITY TARGETS

1. Work Accomplished to Date:

- a. On-rolls technicians (First Phase) did the initial work in social work helping to examine the needs and to propose the plans for formal training of social workers that was finalized by a contract with the Council of Social Work Education for a team of seven technicians.

Besides this, advice and help was given to the many voluntary agencies throughout India. This work has now been phased out.

- b. The first team (Second Phase) worked in six colleges helping to develop and define the scope of social work education in India. From this was developed the organization of the social work colleges and the content to be used in instruction.

The following major accomplishments may be indicated:

- (1) Concept of Social Work: All through their tours, team members have stimulated Indian social workers and social work educators to develop a concept of the meaning of social work which will represent the best adaptation of U.S. theory to the Indian setting.
- (2) Professional Organization: Initiated, through meetings together of faculties of all six schools, what is hoped will result in closer relationships and eventually a professional Social Work Education Organization.
- (3) Curriculum Revision: Assisted the schools with varying degrees of curriculum revision; helped one school make a complete revision, and presented a report to the faculty

of another school which will be the basis for curriculum revision.

- (4) Curriculum Evaluation: Assisted the schools with curriculum evaluation; one important result of which was the identification of the major need to improve field work.
- (5) Teaching Materials: The production of indigenous teaching materials; a volume of casework records and a volume of groupwork and community organization records.
- (6) Demonstration Teaching: All team members did demonstration teaching in various degrees.
- (7) Participant Training: Assisted in the selection of 6 Indian Social Work Educators for U.S. participant training. Three have returned to India, two are due to return within September 1959, and one is in the United States. Proforma for the three participants provided in the extended project is awaited.

- c. Third Phase: The basic need as defined by the first contract team in its final report is the need to provide more practical training through the effective integration of class room study with suitable field work. Hence the concentration in the final phase by Second Team on group work, case study and actual field practice in functioning agencies. The primary function is pre-service training but working at the agency level necessitates a considerable amount of in-service training to create satisfactory practice situations.

Two of the four technicians in the Second Team are on the job. (Banaras & Lucknow). In these two institutions the work seems to be progressing very satisfactorily. A number of

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-82-058	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Social Welfare Education		

conferences and workshops in other institutions for in-service teachers have been held. The results have been very satisfying.

2. Work Remaining To Be Done (Third Phase):

a. To consolidate the integration of class work and field work so that the pattern of training produces the most effective field worker. By the end of the contract this should be very well developed.

b. With the accomplishment of the above, the agencies - both governmental and voluntary, should begin to be rather well staffed with adequately trained workers. This should effect better organization of the agencies and a much more effective field operation - the bringing of the adequately trained person face to face with the social problem. Better results should be forthcoming.

3. Progress Toward Achievement in Third Phase:

a. Building on the accomplishments (see C.1.a.&b.) of the first two phases, this Third Phase is just nicely started with two of the four man team on the job. There is encouraging evidence that the goals set for the Third Phase will be pretty well accomplished by the end of the contract.

D. NATURE OF THE U.S. CONTRIBUTION

1. Prior Fiscal Years:

a. Two TCM staff positions as Social Welfare advisors were provided between FY 55 and FY 58. \$45,000.

b. Seven contract technicians were furnished, completing their activities in FY 59, except for one present incumbent extended through FY 60. \$350,000.

c. Four contract technicians are currently provided for, two of which are in India now and the final two expected December 1960.
FY 59 \$ 196,000

d. A total of 9 participant training opportunities have been provided.

e. Commodities totalling \$31,000 have been provided for under the contract and \$7,000 outside the contract.

f. Total U.S. contributions to the project through FY 59 \$629,000.

2. Operational Year FY 60:

No funding required.

3. Budget Year FY 61:

No additional funding for this project is contemplated.

E. NATURE OF THE COOPERATING COUNTRY CONTRIBUTION

The GOI provides classroom and other necessary educational facilities for the activities of the contract technicians. A contribution is made by the GOI to a TCM maintained trust fund to help cover the within India travel costs. Inland handling, freight and customs of commodities imported under the project are met by the GOI.

GOI has raised its budget for social welfare work from Rs. 20 crores (Second Five Year Plan) to Rs. 80 crores, (Third Five Year Plan)

PAGE 321 OF 371 PAGES	SECURITY CLASSIFICATION UNCLASSIFIED	SHEET 4 OF 5 SHEETS TO THIS PROJECT
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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1, November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	386-82-058	E-1
				COUNTRY ECONOMIC PROGRAM		Social Welfare Education	

which is an indication of its concern with social problems.

Operating expenses for the institutions and agencies are budgeted by the Central Government and States working together.

F. CONTRIBUTION FROM OTHER SOURCES AND RELATIONSHIP TO OTHER PROJECTS

The United States Educational Foundation in India has furnished several professors to schools of social work who have contributed individually to the general goals of this project. These activities are coordinated by the GOI Ministry of Education so that they do not duplicate each other. Ford Foundation has made some contributions.

TCM assistance to the National Fundamental Education Center has been directed toward the training of social education organizers (SEO'S) for the Community Development Scheme. Part of the responsibilities of the SEO's are with social work and rehabilitation in the villages. Field work experience is a significant part of their training.

TCM assistance in this project is on the higher leadership level.

G. FINANCIAL CONSIDERATIONS

The obligation of \$203,000 in FY 59 completes the funding of this project, as it will phase out in 1961. Subobligation of \$7,000 for commodities in FY 59 is awaiting the arrival of contract technicians to write the specifications for each of the four centers.

H. COOPERATING COUNTRY-TCM COORDINATION

All three phases of this project were worked out in GOI-TCM conference.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	PROJECT NO. 386-98-076	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Nuclear Engineering		

1 PROJECT BEGINS FY 56 ENDS FY 66	(A) Function of Funds	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants		
															Non-Contract	Contract	Non-Contract	U.S.	3rd Country
A. All Prior Years	TC	99	=	99															
B. Net Deob.-Reob.		1	=	1															
Current Funds		128	=	128															
Total Actual Year FY 59	TC	129	=	129			4											21	
C. Operational Year FY 60	TC	109	=	109				39			39							21	
D. Budget Year FY 61	TC	94	16	78				28			28							15	
E. All Subsequent Years	TC	510																	
F. Total All Years	TC	941									67								

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obligation and Expenditure	All Prior Years	TC	45	-	54	1	1	1	-	55	41	14		14	14	-
	Actual Year FY 59	TC				128	128	128	-	128	20	108		108	76	32
	Operational Year FY 60	TC											109	109	-	109
	TOTAL	TC	45	-	54	129	129	129	-	183	61	122	109	231	90	141

Problems Addressed:

PROBLEM II - Need to increase and improve the supply of trained manpower to industry at all levels.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-98-076	E-1
		1 November 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Nuclear Engineering		

1. General Description of the Project

This project involves assistance to the Department of Atomic Energy, Government of India. The Department of Atomic Energy through its Atomic Energy Establishment, Trombay (Bombay) has undertaken development of atomic energy in all its facets including processing plants; instrumentation; setting, operation and maintenance of nuclear reactors; research laboratories; and prospecting and development of radio-active minerals.

Since its inception in FY-1956 project activity has been confined to providing training to Indian scientists in the nuclear research establishments, universities and other institutions of the United States in the field of atomic energy. However, in FY-61 it is proposed to expand the project activity field by introducing technician element through provision of two short-term consultants.

2. Specific Activity Targets or End Results of the Project

To assist India in the development of its atomic energy resources for peaceful purposes through:

- i. Provision of training facilities in the U.S. to Indian scientists of the Atomic Energy Establishment.
- ii. Provision of short-term consultants to advise AEE on specific nuclear problems

3. Progress toward Achievement of Activity Targets

a. Work Accomplished to Date

14 participants have returned to India after receiving training in the United States and are now working with the Atomic Energy Establishment. Another 16 participants are at present in the U.S.A. undergoing training in the various fields of nuclear engineering.

b. Work Remaining to be Done

Training facilities to Indian nuclear engineering scientists will be provided during the coming years. In addition, short-term consultants will also be furnished to the AEE to advise it on specific problems.

c. Progress towards Achievement of Progress Targets

The training program formulated under the project is progressing according to schedule and no undue delay is foreseen.

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

Up to FY 59 training facilities have been provided to 35 participants. Of these 14 participants have completed their training programs and returned to India, 16 are at present in the United States and 5 are awaiting their training programs and expected to leave for U.S. shortly.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-98-076	E-1
				COUNTRY ECONOMIC PROGRAM			

b. Operational Year

Participants

21 participants for 12 months each \$ 109,000

U.S. owned Sec. 402 funds in local currency to pay the cost of international travel for the participants \$38,850 (in rupees)

c. Budget Year

Participants

15 participants for 12 months each in various fields of atomic energy such as basic research, instrumentation, prospecting and development of radio-active minerals, and application of atomic energy in the fields of agriculture, industry and health etc. \$ 78,000

U.S. owned Sec.402 funds in local currency to pay the cost of international travel for the participants \$27,750 (in rupees)

Technicians

2 consultants to advise AEE on specific nuclear problems, as required, for 3 months each @ \$ 8,000 \$ 16,000

Total \$ 94,000

d. Future Fiscal Years

It is expected that assistance in the magnitude as provided in FY-61 will be provided to AEE for a further period of 5 years.

5. Nature of Cooperating Country Contribution

Government of India will provide:

- a. In respect of technicians, suitable office space, office equipment, furnishing and supplies, stenographic, secretarial, translation and interpreting services and technical assistants as required and pay the cost of official communications. GOI will also provide contribution to a TCM maintained rupee trust fund for the period of technicians' stay in India to cover the local travel costs including fueling and servicing of vehicles of U.S. technicians as per agreement between the two governments dated May 9, 1956 and as amended.
- b. In respect of participants, GOI will pay travelling expenses from the post of duty to New Delhi and back, expenses connected with their pre-departure formalities and salaries of participants during the period of their stay abroad.

6. Contribution from Other Sources and Relationship to Other Projects

a. Other Sources

India is receiving aid for carrying its development program in atomic energy from U.N. and Colombo Plan countries like Canada and U.K.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-98-076	E-1
				COUNTRY ECONOMIC PROGRAM		Nuclear Engineering	

b. Relationship to Other Projects

Under Project 86-98-090 \$669,760 were provided from FY-56 funds to provide specialized equipment to assist in the development of nuclear research at the Atomic Energy Establishment, Bombay.

7. Financial Consideration

The Government of India is bearing all rupee costs for the programs of Atomic Energy Establishment and has arranged to meet its foreign-exchange requirements by its own resources or through assistance from friendly countries. U.S. participation has so far lent a great hand in providing highly specialized training to the scientists of atomic energy. In the event of elimination or reduction of U.S. assistance the GOI will have to arrange such assistance from other countries. Such an action will probably slacken the pace of atomic development of one of the most promising democratic countries.

The pipeline indicated in Block 2 C on the E-1 front sheet is connected with the participants funded in FY-59 and 60 who are either receiving training in the U.S. or have not yet started their training programs.

8. Cooperating Country-USOM Coordination

The plans embodied in this E-1 and extended in the project Work Plan have been jointly prepared by the Department of Atomic Energy of the GOI and Industry Division of TCM.

It is understood that the financial contribution proposed under this project for FY 1961 by the TCM and the GOI is contingent upon the availability of U.S. and GOI funds and such other factors as may arise.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-91-134
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Refinance Corporation	

1 PROJECT BEGINS FY 59 ENDS FY 59	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
	Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
															Non- Contract	Con- tract	Non-Contract U.S.	3rd Country
A. All Prior Years																		
B. Net Deob.-Reob.																		
Current Funds																		
Total Actual Year FY 1959	L/C										55,020	55,020						
C. Operational Year FY																		
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	L/C											55,020						

2 Dollar Obliga- tion and Expend- iture	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY					
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/		
	All Prior Years																	
	Actual Year FY																	
	Operational Year FY																	
	TOTAL																	

Problems Addressed: Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-91-176, Banking, Finance and Investment, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-91-142	E-1
				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Banking & Investment		

1	PROJECT BEGINS FY 58 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A.	All Prior Years	TC	54	-	54														
B.	Net Deob.-Reob.																		
	Current Funds		25	-	25														
	Total Actual Year FY 59	TC	25	-	25				30			30					16		
C.	Operational Year FY																		
D.	Budget Year FY																		
E.	All Subsequent Years																		
F.	Total All Years	TC	79									30							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/
	All Prior Years	TC	-	-	54	-	-	-	-	54	49	5		5	5	-
	Actual Year FY 59	TC				25	25	25	-	25	-	25		25	20	5
	Operational Year FY															
	TOTAL	TC	-	-	54	25	25	25	-	79	49	30		30	25	5

Problems Addressed:

Problem III - Need to Broaden Available Capital Resources and Effect Qualitative Improvements in the Banking & Investment Field.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project 386-91-142	E-1
		November 1, 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	INDIA		

(1) General Description of the Project:

The objective has been to provide background information and training to streamline the operations of the Refinance Corporation already established by the GOI for the purpose of providing medium term finance for medium-sized industries in the private sector.

By showing to Indian bankers the American approach to granting medium loans and assessment of credit-worthiness of borrowers, it was anticipated that formal term lending to industry by the Indian banks would be increased.

(2) Specific Activity Targets or End Results of the Project:

U.S. assistance has provided training in the U.S. for Indian banking executives. Upon return to India, these participants have been engaged in disseminating and introducing the banking practices observed by them in the U.S., thus leading to a liberalization of the existing loan policies of Indian banks.

(3) Progress toward Achievement of Activity Targets:

a. Work Accomplished to Date:

FY 1958:

16 participants proceeded to the U.S. to observe and study American banking practices. These participants have returned and are now employed with their respective banks.

FY 1959:

A team of 16 participants has left for the U.S. for similar observation and study of American banking practices.

b. Work Remaining to be Done:

No assistance beyond FY 59 is contemplated.

c. Progress toward Achievement of Project Targets:

The FY 1958 team returned to India and has been responsible for introducing some new practices in Indian banking, observed by them in the U.S.

(4) Nature of U.S. Contribution:

a. Previous Fiscal Years:

In FY 58 one team of 16 Indian banking executives visited the U.S. for an observation and study tour of approximately three months. A similar team has proceeded to the U.S. in FY 59. This training was made possible thru U.S. contributions.

b. Operational Year:

No assistance is contemplated in FY 60.

c. Budget Year:

No assistance is contemplated in FY 61.

d. Future Fiscal Years:

No assistance is contemplated in future years.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-91-142	E-1
				COUNTRY ECONOMIC PROGRAM		Banking & Investment	

(5) Nature of Cooperating Country Contribution:

The GOI, or the sponsoring bank pays the salaries of the participants during their training abroad and travel costs from duty station to New Delhi and back plus all other expenses connected with the pre-departure formalities.

(6) Contribution from Other Sources and Relationship to Other Projects:

a. Other Sources:

No assistance from any other source in this respect has been rendered to the GOI.

b. Relationship to Other Projects:

This project basically supports project 386-91-134, Refinance Corporation, and supplements other Mission technical cooperation services being rendered to the GOI.

(7) Financial Considerations:

All funds have been subobligated. No difficulties are foreseen in the liquidation of participant pipeline.

(8) Cooperating Country - TCM Coordination:

The GOI and Indian banks have provided excellent cooperation.

The FY 58 returned participants met in New Delhi in a Banking & Investment Seminar held during April 1959.

Considerable satisfaction was expressed at the results of the training provided to Indian bankers.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	INDIA	386-91-164
COUNTRY ECONOMIC PROGRAM				PROJECT TITLE		
				All India Investment Center		

1 PROJECT BEGINS FY60 ENDS FY 60	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
															Non-Contract	Contract	Non-Contract	Contract
A. All Prior Years																		
B. Net Deob.-Reob. Current Funds																		
Total Actual Year FY																		
C. Operational Year FY 60	TC	442 ^{a/}	-	20	384	38	-	67			67			-	13	10	-	-
D. Budget Year FY																		
E. All Subsequent Years																		
F. Total All Years	TC	442									67							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY					
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60		
Dollar Obligation and Expenditure	All Prior Years																	
	Actual Year FY																	
	Operational Year FY 60	TC												442	442	-	442	
	TOTAL	TC												442	442	-	442	

Problems Addressed: Commencing with FY1961, this project becomes a sub-project component of consolidated project 386-91-176, Banking, Finance & Investment, and the project description is included therein.

a/ This amount does not include an additional requirement in FY1960 of \$250 (Sought from FY1960 Private Enterprise Incentive Fund).

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-91-165	E-1
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Industrial Finance Corporation	

1	PROJECT BEGINS FY 59 ENDS FY 59	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C		(5) Cooperating Country	(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A. All Prior Years																			
B. Not Deob.-Reob. Current Funds																			
Total Actual Year FY 59	I/C									21,000		21,000							
C. Operational Year FY 60																			
D. Budget Year FY 61																			
E. All Subsequent Years																			
F. Total All Years	I/C											21,000							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY					
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/		
Dollar Obligation and Expenditure	All Prior Years																	
	Actual Year FY																	
	Operational Year FY																	
	TOTAL																	

Problems Addressed:

Commencing with FY61, this project becomes a sub-project component of consolidated project 386-91-176, Banking, Finance and Investment, and the project description is included therein.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED	<input checked="" type="checkbox"/> ORIGINAL		SECURITY CLASSIFICATION	COOPERATING COUNTRY	PROJECT NO.	E-1											
		1 NOVEMBER 1959	<input type="checkbox"/> REVISION NO.		UNCLASSIFIED	INDIA	386-91-168												
				COUNTRY ECONOMIC PROGRAM		PROJECT TITLE Assistance to the Industrial Credit & Investment Corporation of India													
1	PROJECT BEGINS FY 59 ENDS FY 60	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C)	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Com-modities	(6) Other Costs	(7) Contri-butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter-part	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country	Other External Financing	(1) Technicians Authorized		(2) Participants	
A. All Prior Years																			
B. Net Deob.-Reob.																			
Current Funds																			
Total Actual Year FY 1959		IC									21,000		21,000						
C. Operational Year FY																			
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years													21,000						
2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY						
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub-Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY	(4) Un-Sub-Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/			
Dollar Obligation and Expenditure	All Prior Years																		
	Actual Year FY																		
	Operational Year FY																		
TOTAL																			
Problems Addressed:		Commencing with FY 1961, this project becomes a sub-project component of consolidated project 386-91-176, <u>Banking, Finance & Investment</u> , and the project description is included therein.																	
PAGE 333 OF 371 PAGES					SECURITY CLASSIFICATION					UNCLASSIFIED					SHEET 1 OF 1 SHEETS TO THIS PROJECT				

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED November 1, 1959	<input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> REVISION NO. 1	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. Project 386-99-172	E-1
	COUNTRY ECONOMIC PROGRAM			PROJECT TITLE Life Insurance Corporation			

1	PROJECT BEGINS FY 1960 ENDS FY 1960	(A) Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
		Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C		(5) Cooper- ating Country	(1) Technicians Authorized		(2) Participants	
																Non- Contract	Contract	Non-Contract U.S.	3rd Country
A. All Prior Years																			
B. Net Deob.-Reob.																			
Current Funds																			
Total Actual Year FY																			
C. Operational Year FY 1960	TC	24	-	24					22			22					12		
D. Budget Year FY																			
E. All Subsequent Years																			
F. Total All Years	TC	24										22							

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY 1960					
			(1) Cumulative Expenditures 6/30/	(2) Un-Sub- Obligated 6/30/	(3) Unliquidated Obligations 6/30/	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/		
Dollar Obliga- tion and Expend- iture	All Prior Years																	
	Actual Year FY																	
	Operational Year FY 1960	TC												24	24	-	-	
	TOTAL	TC												24	24	-	-	

Problems Addressed:

Problem II. Need to Increase and Improve the Supply of Trained Manpower to Industry at all Levels.

III. Need to Broaden Available Capital Resources and Effect Qualitative Improvements in the Banking & Investment Field.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-99-172	E-1
			<input checked="" type="checkbox"/> REVISION NO. 1	COUNTRY ECONOMIC PROGRAM	Life Insurance Corporation		

(1) General Description of the Project:

The primary purpose of the project is to assist the GOI toward attainment of greater effectiveness and efficiency in operation of the Life Insurance Corporation (LIC) of India which is a government operation serving the basic function of providing life insurance coverage for the general populace, and concurrently investing accumulated reserve funds, which provide financial assistance for the development of India's industrial and agricultural growth and support.

TCM assistance to the LIC of India is geared toward providing a generally comprehensive training to 12 staff members of LIC in operating policies, practices and procedure, augmented by specific concentration in such area as investment, actuarial policies, office administration, policy holder servicing, contract development, promotional sales and advertising, public relations, real estate loans, etc. It is anticipated that this combination of general and specific training being provided to LIC executives from both central and regional operating divisions, will provide a cadre of additionally trained key personnel capable of establishing policies for other staff members for initiation of procedural revisions where deemed appropriate and necessary.

The GOI is heavily committed in their current five year plan, and to a considerably greater extent in the next plan (1961-66), to a concentrated program of overall development, transport improvement, housing etc. The local capital support for such programs must be provided from and through properly organized and efficiently operated lending institutions both private and governmental. Toward this end, TCM has already sent a 16-man commercial banking team to the U.S.A., which upon returning to India, has already evidenced positive indications of institution policy and procedural

revisions for improved and more effective results in commercial banks, refinance corporation and the reserve bank system.

(2) Specific Activity Targets or End Results of the Project:

The specific targets of this project are:

- a) to enable India's Life Insurance Corporation to provide effective and efficient coverage to the populace in general;
- b) to upgrade and strengthen the LIC's administrative and operating management policies and procedures;
- c) to enable the LIC reserve to be judiciously and appropriately administered for optimum amount of benefits to India's expansion program;
- d) to provide through observation a highly experienced cadre of key executives capable of implementing policies and practices for the benefit of LIC operations.

(3) Progress Toward Achievement of Activity Targets:

a. Work Accomplished to-date:

No work on this project has been accomplished to-date. The project is proposed initially in FY 1960 and actual implementation will start later during the fiscal year.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED	<input type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION	COOPERATING COUNTRY	Project 386-99-172	E-1
		November 1, 1959	<input checked="" type="checkbox"/> REVISION NO. 1	UNCLASSIFIED	INDIA		
				COUNTRY ECONOMIC PROGRAM	Life Insurance Corporation		

b. Work Remaining to be Done:

Cost: \$ 9,000

The following work remains to be done in this project:

- (i) Training of 12 participants in FY 1960.

Group 2 - Six men are expected to be ready for a 12 weeks course of training in the U.S.A. starting in February 1960. Membership of this team will consist essentially of a cross-section of Operating Management drawn from the LIC organization.

c. Progress towards achievement of project targets:

Cost: \$ 15,000

No nominations to-date have been received from the GOI. However, it is expected that the relevant nominations will be received from the GOI within a reasonable period of time.

Total Cost: \$ 24,000

(4) Nature of the U. S. Contribution:

a. Previous Fiscal Years:

No U. S. assistance was rendered thru this project in the past. The project is proposed in FY 1960.

The concurrent starting date for both groups is to enable scheduling all 12 men together for concentration during the first two weeks on subjects of fundamental and common interest. Following this Group 1, Administrative Management is to continue with a program specifically geared to their objectives; and Group 2 Operating Management will be separately scheduled for detailed concentration in their areas of responsibilities.

b. Operational Year:

The following U.S. contribution is proposed:

One team of 12 participants will be selected from LIC Executive Management staff. The makeup and anticipated schedule for this team is as follows:

It is proposed that large American life insurance companies such as the Metropolitan, Prudential, North Western, etc., and some of the smaller-sized companies and the Life Insurance Institute be scheduled in the plans for training of both teams. This will provide a highly desirable broad range exposure for each teams' evaluation of U.S. management and operating practices for possible adoption by central, zonal and divisional operations of India's LIC.

Group 1 - Six men are expected to be ready for six weeks training in the U.S.A., starting in February 1960. This team will be made up of top level executives from the central, zonal and divisional offices of LIC. The primary focus of training for this team is to be directed toward Policy, Procedure, and Operating Practices from an Administrative Management point of view.

Specific areas of coverage are to include interalia:

- 1) Office Administration, facilities, equipment, work flow, etc.
- 2) Policy holder servicing.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	Project 386-99-172	E-1
			<input checked="" type="checkbox"/> REVISION NO. 1	COUNTRY ECONOMIC PROGRAM	Life Insurance Corporation		

- 3) Contract development - type, forms, clauses, rates, group plans etc.
- 4) Actuarial Policies - formula & development of tables.
- 5) Promotional - Sales, advertising, public relations etc.
- 6) Investments - real estate, government, equities, etc.
- 7) Mortgage loans, home builders associations, etc.

- c. Budget Year:
d. Future Fiscal Years:

This is a one-year project initiated in FY 1960. The project will be completed and phase out the same year. No activity is anticipated beyond FY 1960.

(5) Nature of the Cooperating Country Contribution:

The GOI (LIC) pays for the participants' travel from their duty stations to New Delhi and return; their salaries during training abroad; and any other incidental expenses.

(6) Contribution from Other Sources & Relationship to Other Projects:

a. Contribution from Other Sources:

Assistance in respect of the activity covered under this project is not being rendered to the GOI by any other Agency.

b. Relationship to Other Projects:

In addition to the complementary relation of this project to the Banking Team (Project 386-91-142), it is axiomatic that the success of numerous other TCM projects is greatly dependent upon sound savings, investment and loan practices - specific examples being - Small Industries (Project 386-29-087) and National Productivity Council (Project 386-27-115), where TCM and GOI efforts would be dissipated if the financial needs for capital equipment, factory construction, operating capital, etc., were not available commercially on a sound & reasonable basis.

(7) Financial Considerations:

Not applicable.

(8) Cooperating Country - TCM Coordination:

Following the nationalization of life insurance business in India, the self-help efforts of the GOI in setting up the LIC and a continued endeavour to upgrade and improve its operations provide the organizational framework in which Mission assistance can be very effectively utilized. The LIC has evinced keen interest in studying the operations of American life insurance companies with a view to introducing such practices in India as may be applicable to local conditions and environment. It is expected that the GOI nominations for training will be forthcoming in due course.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	Project 386-91-176	E-1
				COUNTRY ECONOMIC PROGRAM		Banking, Finance and Investment	

(1) General Description of the Project:

This is a comprehensive project with, as its broad objectives, (a) assistance to the GOI in providing industrial development capital to both public and private enterprises and (b) assistance to GOI in its efforts at attracting foreign capital into Indian enterprises. In order to accomplish these broad objectives this project is concentrating on the following activities:

(a) Assistance to the three most important Indian financing agencies which provide loan, risk and working capital to industries in the private sector. These financing agencies are the Refinance Corporation for Industry Private Limited, the Industrial Credit & Investment Corporation of India (ICICI), and the Industrial Finance Corporation of India. Through substantial loans from PL 480 rupee funds, the operating capital of these three financing agencies will be considerably enhanced.

(b) Assistance to the GOI in the establishment and development of an All India Investment Center in New Delhi, which will function as an independent private government-supported non-profit Public Service Division of the Industrial Credit & Investment Corporation of India, for the purpose of attracting foreign private capital investment to India. It is realized in both government and private circles that foreign capital, by providing technical, marketing and managerial knowledge, capital equipment and foreign exchange, will contribute greatly to the economic development of India. This Center will, therefore, make available to industry and government these specialized technical and promotional services which have demonstrated their value to investment centers in other countries by securing substantial amounts of foreign investment capital.

The purpose of the project is to attract foreign investment capital and technical know-how to India, which is a long range objective in the economic development program of the country.

The country will benefit as a whole from the inflow of foreign exchange but this will not result in any financial benefits to the Center. The Center will thus be dependent upon continued financial support from the Government of India to carry out its promotional activities.

(2) Specific Activity Targets or End Results of the Project:

(a) To supplement the loan and investment capital of the three previously mentioned financing agencies for the private sector with an approximate sum of Rs. 460 million (\$96.60 million) from P.L. 480 local currency funds.

(b) Through the establishment of an "All India Investment Center" to aid and stimulate the flow of foreign private investment capital into industrial enterprises in India; to create an atmosphere conducive to meet this objective; and to create better international understanding of economic, political and geographical conditions in India as well as of specific investment opportunities, through effective publicity abroad.

(3) Progress Towards Achievement of Activity Targets:

(a) Work Accomplished to Date:

Under former projects 386-91-134, Refinance Corporation; 386-91-168, Assistance to Industrial Credit & Investment Corporation of India; and 386-91-165, Industrial Finance Corporation respectively, Rs.260 million approximately (equivalent of \$ 55 million) Rs. 100 million (equivalent of \$ 21 million) and Rs. 100 million (equivalent of \$ 21 million) were made available through the GOI to the three private enterprise financing agencies through FY 59.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED November 1, 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	Project 386-91-176	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Banking, Finance & Investment		

(b) Work Remaining to be Done:

Under former project 386-91-164, All India Investment Center, ICA/W is in the process of locating a highly qualified foreign Investment Promotion Specialist to visit India for 60-90 days who, after consultation with GOI, TCM and ICICI, will make recommendations for implementation of the project.

Based on the recommendations of the foreign Investment Promotion Specialist, the Center will be provided the services of contract technicians to assist and advise in the varied aspect of attracting foreign capital investment.

Training to the Center Officials will also be provided in the U.S. and/or third countries.

Commodities, as needed, will be furnished to the Center in support of the activity by the U.S. contract technicians.

(c) Progress Toward Achievement of the Project Targets:

Under former projects 386-91-134, Refinance Corporation; 386-91-168, Assistance to the Industrial Credit & Investment Corporation of India; and 386-91-165, Industrial Finance Corporation, all local currency funds have been made available to the GOI and withdrawals will be made as and when needed by these three financing agencies.

No activity has commenced under Project 386-91-164, All India Investment Center.

(4) Nature of the U.S. Contribution:

(a) Previous Fiscal Years:

FY 1959:

During FY 1958 and 1959 under project 386-91-134, Refinance Corporation, the rupee equivalent of \$ 55 million was made available to the GOI for discounting loans made to medium-sized industry in the private sector.

In FY 59 under project 386-91-165, Industrial Finance Corporation, a sum of Rs.100 million was made available to provide additional capital required by the IFC to enable it to meet private industry's anticipated loan applications thru March 31, 1961.

Also in FY 1959, under project 386-91-168, Assistance to the Industrial Credit & Investment Corporation of India, a sum of Rs.100 million was made available for supplementing the capital resources of the ICICI, which is required to bring about a more rapid expansion of Indian private industry.

(b) Operational Year:

In FY 1960 the following activity is proposed:

1. Sub-project (386-91-164): All India Investment Center:

Participants: One team consisting of 5 Investment Center representatives, including the Director and Deputy Director, will visit Investment Centers in Western Europe, Puerto Rico, and the U.S. for a period of 3 months each to observe various investment promotion techniques and learn from the experience of those who have been successful in attracting foreign private capital.

A second group of 5 representatives of the Center will visit capital markets in the U.S., and/or third countries for a period of 3 months to confer with survey, banking, and consultant firms rendering specialized support services to foreign investors. In this way,

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				COUNTRY ECONOMIC PROGRAM		Banking, Finance & Investment	

<p>valuable contacts will be established and a better understanding will be gained of what is expected from the Center.</p> <p>Cost: \$ 20,000.</p> <p>Section 402 funds to cover international round-trip travel costs for above: \$ 19,000.</p> <p><u>Contract Services:</u> One Investment Promotion Specialist will come to India for a period of 60-90 days and make a survey and recommendations in regard to TCM assistance in setting up the Investment Center.</p> <p>Cost: \$ 12,000.</p> <p>Based on the recommendations of the Investment Promotion Specialist, it is anticipated that the contract services of the following six 3-year technicians will be made available to the Center. Contract to be funded for 2 years in FY 1960.</p> <p>Investment Specialist - Diversified background in foreign investment banking or administration of investment promotion agency. (as direct advisor to the Director)</p> <p>Financial Economist - Experience with private or governmental banking organizations in evaluating investment situations and preparing documentation for investments or loans.</p> <p>Investment Prospectus Analyst - Senior experience in supervising legal, engineering, economic, and fiscal staffs in preparation of prospectuses and allied material for capital transactions.</p>	<p>Investment Promotion Technician - Specialist in promotional literature, public relations, and technical business reports.</p> <p>Investment Climate Analyst - Economist or legal expert in business conditions and legislative factors affecting foreign investment.</p> <p>Investment Center Specialist - Third country expert in policies and administration of investment promotion agency.</p> <p>Cost: \$ 372,000.</p> <p>Section 402 funds for above: \$ 48,000.</p> <p><u>Commodities:</u></p> <p>Supporting commodities in the amount of \$ 38,000 will also be provided, as approved by the Investment Promotion Specialist.</p> <p>Total FY 60 TC funds: \$ 442,000.</p> <p>Section 402 funds for above: \$ 67,000.</p> <p>The following additional activity under this project is proposed to be financed out of funds provided under special appropriation section for Encouragement of Private Enterprise.</p> <p><u>Contract Services:</u> Based on the recommendations of the Investment Promotion Specialist, the contract services of six one-year technicians will be provided to the Center.</p> <p>Cost: \$ 186,000.</p> <p>Section 402 funds for above: \$ 24,000.</p>
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Commodities

Additional commodities in the amount of \$ 64,000 may be provided.

Total special funds: \$ 250,000.

Total Section 402 funds for above: \$ 24,000.

The breakdown on commodities proposed to be funded out of Technical Cooperation and Private Enterprise funds is as follows:

1. Financial library publication	\$ 25,000
2. Reference and Credit Subscription Services	5,000
3. Printing Equipment and Supplies	21,000
4. Outside Publication Costs	11,000
5. Transportation Equipment (5 Vehicles)	15,000
6. Office Equipment	25,000
	<u>\$ 102,000</u>

(c) Budget Year:

In FY 1961 this Mission will continue to furnish the All India Investment Center with contract technicians through the contracting firm, send additional participants to the U.S., supply necessary commodities from U.S. sources, and provide Technical Support staff in the form of guidance by the Mission Investment Advisor as follows:

Participants: Fifteen 6-week participants will be sent to the U.S. and/or third countries for training in promotional activities:

Cost: \$ 15,000.

Section 402 funds for above: \$ 28,000.

Ten one-year participants will be similarly trained:

Cost: \$ 65,000.

Section 402 funds for above: \$ 19,000.

Contract Services: The contract services of six 3-year technicians provided in FY 1960 will be funded for the third year:

(Contract funded for the third year) Cost: \$ 210,000.

Based on the recommendations of the Investment Promotion Specialist, the contract services of three additional one-year technicians will be provided to the Center.

Cost: \$ 105,000.

Commodities:

The following supporting commodities in the amount of \$ 45,000 are proposed to be provided.

Library	\$ 5,000
Subscriptions	5,000
Printing Supplies	5,000
Publications Services	30,000
	<u>\$ 45,000</u>

Total Cost: \$ 391,000.

Section 402 funds for above: \$ 83,000.

(d) Future Fiscal Years:

It is anticipated that the following activity will be undertaken in support of sub-project All India Investment Center in FY 1962:

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Participants: (a) Three teams of 5 men each will be sent to the U.S. and/or third countries for a period of 6 weeks each to learn specific phases of investment promotion including making of surveys and feasibility studies, prospectus preparation, loan applications, publicity, investment inducements and others. These trainees will be drawn from the Center, cooperating organizations, financial institutions, and government agencies.

Cost: \$ 15,000.

Section 402 funds for above: \$ 28,000.

(b) 10 participants will be sent to the U.S. and/or third countries for a period of 12 months each to study related techniques of attracting foreign capital investment.

Cost: \$ 65,000.

Section 402 funds for above: \$ 19,000.

Commodities:

Supporting commodities as outlined in FY 61 in the amount of \$ 45,000 may be supplied to the Center.

Total FY 62 Cost: \$ 125,000.

Section 402 funds for above: \$ 47,000.

(5) Nature of Cooperating Country Contribution:

The GOI has made a rather substantial local currency contribution to the Refinance Corporation sub-project in the form of a subscription to the share capital by three government-owned institutions as follows:

Reserve Bank of India	Rs. 50 million
Government Life Insurance Corp.	Rs. 25 million
The State Bank of India	Rs. 23 million
Fourteen Private Banks have subscribed to:	Rs. 27 million.

The ICICI, sub-project, received an interest free loan of Rs.75 million from Indian government-owned rupees generated through the sale of steel granted by this Mission to the GOI.

The Government of India has subscribed to approximately 60% of the Rs.50 million share capital of former Industrial Finance Corporation of India with 2½% interest guaranteed by the GOI. The remainder of the share capital is contributed by private financial institutions. The GOI has guaranteed a 4½% interest rate on two bond issues totalling approximately Rs.124 million. The GOI has extended loans totalling Rs.150 million at 4½% interest, and the Reserve Bank of India is authorized to permit borrowings by the IFC up to Rs.30 million at 4% interest.

For the All India Investment Center sub-project, although the details have still to be worked out, it is expected that the GOI will pay the rupee cost of Investment Center staff, office equipment, construction or a rental of the office building, and all other local incidental expenditures.

(6) Contribution from Other Sources and Relationship to Other Projects:

Other Sources:

The Government of India has requested that one or more contract technicians be recruited from the Netherlands. It is expected that the Netherlands' Ministry of Foreign Affairs will make available the requested technicians. It is also expected that the Netherlands Investment Center and possibly investment

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centers in other European countries will receive the Director of the All India Investment Center, Members of the Staff and participant teams to familiarize them with their experience and methods of operation for possible duplication in India.

At the inception of the ICICI, the U.K. made a contribution of a sum equivalent of Rs.20 million in the risk capital of the Corporation.

Relationship to Other Projects:

The successful operation of this project is of major importance in the development and dissemination of technical know-how which is being provided to the GOI thru various other projects such as under former project 142, Banking & Investment (now phased out). This project will assist in the development and expansion of the Indian industry by providing the much needed local currency and foreign exchange financing and has close relationship with other Mission projects for the same purpose.

(7) Financial Considerations:

PL 480 funds in the total amount of Rs.460 million (approximate) have been placed at the disposal of the GOI and will be withdrawn by them as needed.

Activity has not begun under All India Investment Center sub-project. However, no pipeline difficulties are anticipated.

The GOI, it is expected, will pay for the all local costs in support of the activities of the Investment Center.

The Government of India will also (1) for imported commodities provide inland handling and transportation; (2) for U.S. technicians provide facilities and make a cash contribution toward their intra-India support, in accordance with the agreement between the two Governments dated May 9, 1956; and (3) for the selected participants provide for their salaries while in training abroad, and their intra-India transportation costs to and from Delhi.

(8) Cooperating Country's--USOM Coordination:

Project 386-91-164, All India Investment Center

The Investment Center project embodied in this E-1 has been jointly prepared by this Mission, the Industrial Credit & Investment Corporation of India, and the Government of India. The Investment Center will function as a non-profit Public Service Division of the ICICI. It is expected that the needed cooperation will be provided by the GOI and concerned agencies.

E-1	FORM ICA 10-109 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	PROJECT NO. 386-99-000	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Technical Support		

1 PROJECT BEGINS FY 52 ENDS FY CONTI- ning.	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
		(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants	
															Non- Contract	Contract	Non-Contract U.S.	Contract Country
A. All Prior Years	TC	2,451	1,228				1,223*											
B. Net Deob.-Reob.		-11	12				-23											
Current Funds		1,301	925				376											
Total Actual Year FY 59	TC	1,290	937				353*							42				
C. Operational Year FY 60	TC	1,136	963			173	-	388						50				
D. Budget Year FY 61	TC	1,554	958			157	439							51				
E. All Subsequent Years																		
F. Total All Years																		

2 Dollar Obliga- tion and Expend- iture	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 59							(C) Operational Year FY 60			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/ 58	(3) Unliquidated Obligations 6/30/ 58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/ 59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
All Prior Years	TC	TC	2,157	-	294	-11	-11	-11	-	283	273	10		10	10	-
Actual Year FY 59	TC	TC				1,301	1,301	1,301	-	1,301	1,055	246		246	230	16
Operational Year FY 60	TC	TC											1,136	1,136		
TOTAL	TC	TC	2,157	-	294	1,290	1,290	1,290	-	1,584	1,328	256				

Problems Addressed:

* Includes Contract Services and Commodities.

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				COUNTRY ECONOMIC PROGRAM		Technical Support	

Technical Support estimates include all the US employees of the Mission staff (chargeable to program funds), who are not GOI requested and hence are not chargeable to projects; technical back-stopping for more than 100 field technicians; logistic support for approximately 190 US families (Delhi and field; on-rolls and contract). Technical Support requirements for the Operational and the Budget Years are given below:

1. Operational Year

Operational Year estimates for technical support total \$1,136,000 to include:

(a) \$963,000 to fund 52 US Direct-Hire technician positions, as well as 2 short-term consultants. Since 2 positions are expected to be phased out during the Fiscal Year, the total number of people on board at the end of FY1960 will be 50.

(b) The balance of \$173,000 are required to fund technical support commodities including vehicles, household equipment, spare parts, office equipment and communications media equipment.

Other costs totalling \$388,000 to cover such expenses as local employee support staff, local travel, transportation, communications, rents and utilities, printing and binding, contractual services, supplies and materials, and equipment will be funded out of Sec. 402 rupees.

2. Budget Year

Budget Year estimates for technical support total \$1,554,000 to include:

(a) \$958,000 to fund the continuance of the following 50 positions; and addition of 51st position:

S.No.	Position Title	Position No.	Grade
1.	Labor Advisor	143	R-2
2.	Comm. Dev. Adv.	108	R-4
3.	Training Off.	22	R-4
4.	Training Asst.	23	R-6
5.	Contract Services Off.	15	R-5
6.	Comm. Media Off.	320	R-4
7.	Comm. Media Adv.	25	R-4
8.	-do-	26	R-4
9.	Supply Advisor	16	R-3
10.	Asst. Supply Adv.	18	R-5
11.	-do-	19	R-5
12.	Secretary	20	S-13
13.	Asst. Prog. Off.	36	R-3
14.	Prog. Anal. Oprn.		R-7
15.	Asst. Prog. Off. Oprn.	40	R-5
16.	Secretary		(S-12)
17.	Food and Agr. Off.	42	R-1
18.	Dep. Food and Agr. Off.	43	R-2
19.	Agr. Edu. Adv.		(R-3)
20.	Agr. Economist		(R-2)
21.	Agr. Prog. Asst.	44	R-5
22.	-do-	45	R-5

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				COUNTRY ECONOMIC PROGRAM		Technical Support	

23.	Agr. Adv.	47	R-3
24.	Secretary	48	S-11
25.	Agronomy Adv.	194	R-2
26.	Extension Adv.	65	R-2
27.	Home Econ. Adv.	76	R-4
28.	Livestock Adv.	87	R-2
29.	Industry Off.	111	R-1
30.	Dep. Industry Off.	114	R-2
31.	Ind. Dev. Adv. (Prod)	293	R-3
32.	Ind. Prog. Asst.	118	R-5
33.	Ind. Dev. Adv.	326	R-2
34.	Ind. Investment Adv.	120	R-3
35.	General Engr.	128	R-2
36.	Construction Engr.	134	R-4
37.	Secretary	136	S-11
38.	Chief P.H. Adv.	145	R-1
39.	P.H. Physician	146	R-3
40.	P.H. Nurse	166	R-3
41.	Sanitary Engr.	149	R-2
42.	Health Admin. Adv.	200	R-5
43.	Secretary	148	S-11
44.	Chief Edu. Adv.	180	R-2
45.	Dep. Chief Ed. Adv.		(R-2)
46.	Secondary Ed. Adv.	181	R-4
47.	Technical Ed. Adv.	183	R-4
48.	Education Prog. Asst.	182	R-6
49.	Secretary	184	S-12
50.	Labor Edu. Adv.	321	R-4
51.	Agr. Adv. (Prod)		R-3

(b) \$157,000 to cover off-shore procurement (maintenance of stock-levels - see 1(b) above).

(c) The balance of \$439,000 is to cover other costs. These are higher than those provided for in FY60, due to normal increased operating expenses for local employees support positions, within India shipments, communications, rents and utilities, contractual services and local purchase of material and equipment, as based on Mission's experience.

3. It may be noted here that Technical Support, unlike other projects, is a continuing requirement.

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	COUNTRY ECONOMIC PROGRAM				PROJECT TITLE Malaria Eradication		

1	PROJECT BEGINS FY 1958 ENDS FY 1965	(A) Function of Funds	Dollar Obligations (\$1,000)							(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People			
			(1) Total	(2) U.S. Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contributions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counterpart	(4) Total U.S. Owned or Controlled L/C	(5) Cooperating Country		(1) Technicians Authorized		(2) Participants	
																Non-Contract	Contract	Non-Contract U.S.	Contract 3rd Country
A.	All Prior Years	SA TC	11,352 642	- -	- 14	- -	11,352 628												
B.	Net Deob.-Reob.		-	-	-	-	-												
	Current Funds	SA	10,220	13	10	-	10,197												
	Total Actual Year FY 1959	SA TC	10,219 1	13 -	10 -	- -	10,196 1							1		2			
C.	Operational Year FY 1960	SA	12,646	53	26	-	12,567	10	16,800					3		5			
D.	Budget Year FY 1961	SA	18,918	55	21	-	18,839	3						3		4			
E.	All Subsequent Years	SA	10,773																
F.	Total All Years	SA TC	63,908 643																

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY 1959							(C) Operational Year FY 1960			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub-Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY 59	(2) Total Available for Sub-Oblig.	(3) Sub-Obligated in FY 59	(4) Un-Sub-Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY 59	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY 60	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY 60	(4) Unliquidated Obligations 6/30/60
	All Prior Years	SA TC	6464 -	2647 622	4888 642	1 1	2646 623	2512 623	134 -	4887 643	4620 631	267 12		267 12	267 12	- -
	Actual Year FY 59	SA				10,220	10,220	10,195	25	10,220	3738	6482		6482	6160	322
	Operational Year FY 60	SA											12,646	12,646	4553	8093
	TOTAL	SA TC	6464 -	2647 622	4888 642	10,219 1	12,866 623	12,707 623	159 -	15,107 643	8358 631	6749 12	12,646 -	19,395 12	10,980 12	8415 -

Problems Addressed:
VIII - The High Prevalence and Incidence of Disease and Physical Disability

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		1 November 1959	<input type="checkbox"/> REVISION NO.	UNCLASSIFIED	India		
				COUNTRY ECONOMIC PROGRAM	Malaria Eradication		

1. General Description of the Project

This project is designed to assist the GOI in achieving its goal of malaria eradication through the provision of specialized consultants, training in the U.S. of key personnel, and provision of the bulk of those commodities which are required to be imported.

In pre-World War II days, there were an estimated 100,000,000 cases of malaria and one million deaths from malaria annually. By the spring of 1953, malaria control program in various states had brought the annual incidence down to 75,000,000 cases and the annual number of deaths down to possibly 800,000. On December 13, 1952, the National Malaria Control Program was formally initiated with the signing of the agreement between the GOI and the U.S. Government. This program was designed to afford protection to 200,000,000 persons living in areas where malaria was a significant public health problem. During 1957, it is estimated that less than 20,000,000 cases and 400,000 deaths occurred. By this time, the technical and fiscal feasibility of malaria eradication was well established and the need recognized for a rapid massive approach, lest the development by anopheline mosquitoes of resistance to insecticides lose this unusual opportunity for India.

The decision was therefore made by the GOI to convert to a program of malaria eradication. The campaign against malaria has been and will be for the next several years the highest priority health program of the Indian Government.

This project was initiated in FY58, although it is a direct outgrowth of the national control project which was initiated in FY 53 and continued through FY 57. It is anticipated that ICA's assistance will be required until at least FY 65. This represents an extension of two years of ICA assistance. Although

the program actually started in 1958, there were many organizational delays which prevented the program from reaching its goal during this first year. During the current spraying season, FY 1959-60, several of the states have found that the estimated amount of DDT, 35.5 long tons per unit round, was insufficient for 100% coverage. A general review of the DDT requirements resulted in an increased estimate to 45 long tons per unit round. A detailed unit-by-unit study of DDT requirements is now underway. A review of the transport facilities indicated a need for some replacements which are included in the general statement of the fiscal needs of this project which follow.

TABLE I

Costs of Malaria Eradication Project FY 61-64 by Project Element
(In thousands of U.S. dollars)

FY	Technicians		Consultants		Participants		Commodities S.A.	Other Cost	Total
	No.	Cost	No.	Cost	No.	Cost			
58	-	-	-	-	2	14	11,980	-	11,994 *
59	1	13	-	-	2	10	10,197	-	10,220
60	3	39	2	14	5	26	12,567	-	12,646**
61	3	55	-	-	4	21	18,839	3	18,918
62	3	55	-	-	4	21	6,612	2	6,690
63	2	36	-	-	4	21	3,259	2	3,318
64	-	-	-	-	-	-	465	-	465
65	-	-	-	-	-	-	300	-	300
		198		14		113	64,219	7	64,551

* This includes funds as follows: SA - 11,352; TC - 642

** This figure was revised upwards to 15,507 million as per OPAR submission dated August 8, 1959. On the basis of data submitted to the Special Working Committee of the NMEP at meetings held August 28 and September 8, 1959 it is apparent that this figure is still too low and if targets are to be met \$17,728,750 will be

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				COUNTRY ECONOMIC PROGRAM		Malaria Eradication	

required. Efforts are being made to obtain the deficit from other sources. If these efforts fail, adjustments in the program will have to be made and yet another extension may be necessary. (See sheets 5 and 6) -#

From FY 58 onwards support is provided from the Special Malaria Eradication Fund. From FY 60 onwards, these funds would be utilized to provide all imports essential to the project, primarily insecticides, transport, drugs and microscope slides. In addition, highly specialized technicians to assist in the training of personnel and to aid in the continuing assessment of and planning for eradication are provided. Two consultants to deal with the special problem of DDT and vehicle logistics and of DDT production are also included. While it is believed to be highly desirable that a three man team come to India in the spring of calendar year 1960 to assess the progress of the program and to make recommendations. Participants are included, five in FY 60 and four per year thereafter to allow the training of counterparts from Malaria Institute and of key regional and State personnel to assure continued high quality operations of this program during and following the life of the project.

Part of this project will be in the form of scientific equipment and teaching aids in support of the work of the technicians. While commodity assistance has been given to the Malaria Institute of India in the past, it has been general and fundamental in type. Now that specific technicians are coming on duty, specialized equipment to meet their needs will be required in moderate quantities. It is being ordered on their advice, after arrival.

2. Specific Activity Targets or End Results of the Project

A. Virtual elimination of malaria from India by the end of the project (FY 65).

B. Provision of insecticides, transport, microscopes, drugs etc. needed to be imported to allow the attainment of A.

C. Provision of training to key personnel from the Malaria Institute, the regional offices and the State programs.

D. Provision of three technicians and two consultants to give assistance in specialized field.

3. Progress Toward Achievement of Project Activity Targets

A. Work accomplished to date:

Commodities imported with FY 58 funds allowed the launching of the eradication program in April of 1958. By the end of the 1958 spraying season, 225-3/4 units of the planned 230 had been placed in operation. However, due to administrative difficulties it was impossible to effect the complete coverage contemplated for that year. This in effect means that the 1959 spraying season should constitute the first year of total coverage. By the end of the current spraying season, 230 expanded teams working in endemic* areas and 160 teams working in hypoendemic* areas should have provided appropriate protection to the bulk of the 390 million persons expected to come under the program. Four participants will have received training out of FY 58 and FY 59 funds. One technician has been recruited and is currently on duty.

B. Work Remaining to be Done:

The principle upon which this program has been based has been that three years of total coverage of endemic areas and two years in hypoendemic areas should interrupt transmission of malaria to the point that spraying activity could be withdrawn.

* For administrative purposes, hypoendemic areas are those with spleen rates of less than 10%, and endemic areas are those with higher levels.

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E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY India	386-51-135	E-1
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	Malaria Eradication		

Recognizing that for various reasons it is unlikely that this goal can be met throughout the country, current plans call for a phased withdrawal of spraying. In order that this withdrawal can be based on sound data, surveillance activities will be started in all areas beginning with the 1960 spraying season.

One of the major problems in planning for this project is the fact that the withdrawal of units from spraying operations depends upon knowledge of the actual operations in previous years. Hence it is necessary to make final decisions regarding the withdrawal of units from spraying in one season only after completion of the preceding year's work and analysis of the data received regarding operations. On the other hand, it is necessary to make budget estimates a minimum of eighteen months before these final data are available.

Because of this difficulty, one must be certain that the budgetary estimates and provisions are adequate to take care of any shortfalls in program operations. The degree to which such allowance is made is one of philosophical approach rather than a scientific certainty. The Special Working Committee of the National Malaria Eradication Program, chaired by the Director General of Health Services and with representatives of the Ministry of Health, the Planning Commission, the Directorate General of Health Services, the Malaria Institute of India, the World Health Organization, and TCM has worked on this problem and has evolved what is agreed to by all as the most likely level of performance and hence the probable rate at which units can be withdrawn from spraying. The TCM Health Division submitted a plan phased considerably more slowly which was considered to allow for all possible shortfalls in operational targets. These estimates appear in the following tables:

TABLE II

Estimates of Requirements for Spraying Units in NMEP, Special Working Committee, FY 60-65 (1)

<u>Fiscal</u> <u>Year</u>	<u>Endemic</u> <u>Units</u> (2)	<u>Hypoendemic</u> <u>Units</u> (3)
1960 (4)	250	140
1961 (4)	200	50
1962 (4)	130	-
1963	75	-
1964	25	-
1965	25	-

TABLE III

Estimates of Requirements for Spraying Units in NMEP, allowing for all possible operational contingencies, prepared by TCM Health Division, FY 60-65 (1)

<u>Fiscal</u> <u>Year</u>	<u>Endemic</u> <u>Units</u> (2)	<u>Hypoendemic</u> <u>Units</u> (3)
1960 (4)	270	120
1961 (4)	270	108
1962 (4)	210	-
1963	190	-
1964	25	-
1965	25	-

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- (1) Indigenous production will meet DDT requirements after 1963.
- (2) These units conduct two rounds of spraying annually using 45 L.T. 75% DDT per round.
- (3) These units conduct one round of spraying annually with same dosage.
- (4) In these years 20 units are included which were originally scheduled to work as hypoendemic units - changed on basis of new evidence regarding level of malaria in area.

In planning for requirements the latter estimate is used as a base for planning ICA assistance for FY 61 for two main reasons. First it allows completion of operations in the 1961 spraying season despite any contingencies which may arise. Second, it allows for a probable carryover of DDT supplies with which to commence operations in the following year. The probable requirements as estimated by the Special Working Committee are utilized for subsequent forecasts. This plan calls for no more total outlay than would a less conservative estimate of performance since to the extent that ~~xxx~~ successful performance allows savings in DDT, these savings will be reflected in expenditures during subsequent years.

C. Progress Toward Achievement of Project Targets:

As regards fulfilment of the targets above, the following comments should be made.

In order to achieve the goal of virtually eliminating malaria by the end of the period covered by this project, it is essential that the schedule outlined above be meticulously

adhered to. The major current obstacle is the shortage of funds during FY 60. Based on experience gained during the first season of spraying (1958) and the first half of the second year (1959), it is apparent that the average house size is greater than originally believed: 1800 sq. ft. as opposed to 1300 sq. ft. Likewise certain areas originally considered to be hypoendemic have, in fact, proved to be endemic. This has necessitated a revision of estimated needs for FY 60. In anticipation of the need for upward revision, an estimate of needs for FY 60 in the amount of \$15,507,000 was submitted in August 1959. Final review by the Special Working Committee at meetings terminated September 8, 1959, show that if all targets are met these figures are still too low. Total DDT requirements are now estimated at 28,800 long tons. With an indigenous production equivalent to 3710 long tons and with virtually no carryover of DDT from the 1959 spraying season, the total requirement for imported DDT is 25,090 L.T. The foreign exchange requirement for this is \$16,935,750 and funds available from the Special Malaria Eradication Fund for DDT purchases is \$11,808,185. This leaves a deficit of roughly \$5.1 million or approximately 7,500 L.T. of DDT. If these funds are available from other sources, the future year estimates should be adequate to permit achievement of targets A and B. Otherwise it will, in all likelihood, mean an extension of major spraying operations for yet another year (See sheet 3) -#

Training will be given to five staff members in FY 60 and four in the year thereafter. The recruitment of two technicians and two consultants remains to be achieved.

4. Nature of the U.S. Contribution

A. Fiscal years 1958-59

In FY 58, a total of \$11,994,000 and in FY 59, \$10,220,000

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were provided which permitted the importation of all insecticide, transport, drug, microscope and microscope slide requirements for the program, except for \$1.5 million worth of DDT provided in FY 59 by WHO. In addition, four participants were sent for training and one technician, an entomological adviser, was provided in FY 59. Scientific equipment and teaching aids were provided to support the U.S. in their training and investigational activities.

B. Fiscal Year 1960 - Operational Year

The \$12,646,000 provided in this E-1 will be used as follows:

Item	Amount	Unit Cost	(In thousands)	
			Total Cost	
75% DDT	17,600 L.T.	\$ 675.00	\$11,800	
Jeeps	150 - with spare parts assembled	2090.00	314	
Microscopes	30 - monocular	68.00	2	
Calculators	6 - Marchant, Monroe or Friden	900.00	5	
Microslides	195,000 gross	0.7315	143	
Chloroquin	8.5 million tablets(1)	5232.00	45	
Primaquin	63 million tablets	2500.00	158	
Lab. Equip.	To be selected by technicians		20	
Technicians	Entomologist - R.L. Laird (R-3) Pos. # 204		18	

Physician Epidemiologist (R-3) - 1/4 year, Pos # 205	11
Sanitary Engineer (R-2) 1/4 year Pos. # 292	10
(2)* Conalts. Biochemist-DDT Formulation (3 mos)	7
San. Engr.-Logistics (4 mos)	7
Participants 5 at \$5,200 (excludes international travel funded from Sec. 402 rupees at \$9,000)	26

Section 402 rupees at \$1,000 for miscellaneous local expenditures

(See sheet 3)-# Total \$12,646

- (1) Other 4-aminoquinoline products may be substituted with appropriate changes in quantity and dosage.
- (2) It is considered essential that a team of three experts be made available to review the eradication program and to make such recommendations as they believe desirable for strengthening of the program. Such a team would have responsibilities similar to the team which evaluated the control program in the spring of 1957. The GOI is in complete accord as to the need for such an independent review, however, in the interest of effecting the arrival of the team early in calendar year 1960, the team will not be formally requested by the GOI. Also, since this was not originally planned for and since funds are inadequate for program operations, it is anticipated that the necessary costs may be borne by ICA/W.

In addition, a grant of up to Rs.80,000,000 from U.S. PL 480 sales

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				COUNTRY ECONOMIC PROGRAM	Malaria Eradication		

proceeds has been made available during FY 60 for the local purchase of materials and equipment including DDT and BHC, and for payment of staff salaries, allowances and expenses. The final contribution date under this agreement will be August 30, 1962.

C. Fiscal Year 1961 - Budget Year - Estimated Requirements

Item	Amount	Unit Cost	(In thousands) Total Cost
*75% DDT	26,033 L.T.	\$ 675.00	\$ 17,572
Jeeps	80	2090.00	167
Jeep trucks	115	2700.00	311
Microslides	195,000 gross	0.75	146
Chloroquin	63 million tablets	5232.00	330
Primaquin	117 million tablets	2500.00	293
Lab. Equip.	(to be selected)		20
Technicians	Entomologist - R.L. Laird (R-3) incl. home leave		21
	Physician Epidemiologist (R-3) full year		118
	San. Engineer (R-4) full year		16
Participants	4	5200.00	21
Other Costs			3
			<u>\$ 18,918</u>
* 270 endemic teams X 2 rounds X 45 L.T.		24,300 L.T.	
108 hypoendemic teams X 1 round X 45 L.T.		<u>4,860</u>	
		29,160 L.T.	
2% reserve including supplies for areas under surveillance		<u>583</u>	
		29,743 L.T.	
Indigenous production		<u>3,710</u>	
		26,033 L.T.	

D. Future Fiscal Year Requirements

Fiscal Year 1962 - Dollar requirements (in thousands)

75% DDT	8690 L.T.	5,856
Microslides	195,000 gross	146
Drugs		600
Lab. Equip.		10
Technicians	3	55
Participants	4	21
Other Costs		<u>2</u>
		6,690

Fiscal Year 1963 - Dollar requirements (in thousands)

75% DDT	3915 L.T.	2,643
Microslides	195,000 gross	146
Drugs		465
Lab. Equip.		5
Technicians	2	36
Participants	4	21
Other Costs		<u>2</u>
		3,318

Fiscal Year 1964 - Dollar requirements (in thousands)

Drugs		465
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Fiscal Year 1965 - Dollar requirements (in thousands)

Drugs		300
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E. Summary of Commodity Import Requirement Estimates, FY 61-65

For convenience, the following summary of current estimates of dollar requirements in thousands of dollars for major commodities follows:

Year	DDT	Transport	Microscopes and Slides	Drugs	Total
1961	17,572	478	146	623	18,819
1962	5,856	-	146	600	6,602
1963	2,643	-	146	465	3,254
1964	-	-	-	465	465
1965	-	-	-	300	300
Total	<u>26,071</u>	<u>476</u>	<u>438</u>	<u>2,453</u>	<u>29,440</u>

5. Nature of Cooperating Country Contribution

The GOI through FY 59 has provided all components of the project requiring rupee expenditures. This has included salaries, allowances and expenses of staff; staff training; buildings, including offices, storage space, laboratories and class rooms; inland transportation of all staff, supplies and equipment; servicing of equipment; locally produced insecticides, now totalling the equivalent of 3710 L.T. of 75% DDT annually; locally produced spraying equipment, none having been imported since the inception of this project; and repair and maintenance of equipment.

Total cost figures for the program, 1958-66, including dollar costs are given below (in thousands of dollars).

Year (a)	Central Govt. (b)	State Govt.	Total
1958-59(c)	\$13,404	\$7,906	\$21,310
1959-60(d)	21,234	9,558	30,792
1960-61(d)	-	-	36,084(b)
1961-66(e)	-	-	<u>123,158(b)</u>
Total			\$211,344

- (a) April 1 - March 30
 (b) Includes dollar provisions from all sources
 (c) Actual expenditures
 (d) Budgeted expenditures
 (e) Total estimated cost for Third Five Year Plan

6. Contribution from Other Sources and Relationship to Other Projects

Project No. 386-53-127, Insect Borne Disease Control, supports filaria operations and research which are carried out under the direction of the National Malaria Institute. The technicians working on this project will inevitably give indirect support to the U.S. technicians working on the malaria project and to the general caliber of the activities of that Institute.

WHO is providing assistance to the malaria eradication program. In FY 58, \$1,500,000 was provided for the procurement of DDT. In addition, technicians to assist in surveillance of the program were provided. Fellowships were also awarded. It is anticipated that technician and fellowship support at approximately \$30,000 per annum will be continued for several years. It should be emphasized that except for the DDT contribution, WHO activities are quite different from the assistance offered by ICA. WHO fellowships have been in the form of short-term observation tours to other eradication programs-

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ICA has on the whole sponsored younger individuals for full year basic formal training. WHO technicians are assigned primarily to regional offices and will deal primarily with surveillance and international aspects of the program. TCM technicians are assigned to the Malaria Institute and have country-wide responsibilities in their particular specialties. There is no overlapping or duplication of assistance.

The DDT plants established with financial and technical assistance by UNICEF and WHO will continue to provide a small portion of the DDT requirements of the program.

UNICEF, WHO and the Rockefeller Foundation have all participated in the development of the control program in addition to ICA. This background provided an excellent basis upon which to build the current malaria eradication program.

7. Financial Considerations

Details of the costs of the program have been outlined in previous sections. It will be noted that U.S. dollar contributions for FY 1961 are placed at \$18,918,000 with the total thereafter expected to be in the order of \$10,773,000. Total program costs, rupee and dollar, for 1960-61 are estimated to be \$21,310,000 and for the Third Five Year Plan, 1961-66, \$211,344,000.

The nature of the commodities procured under this project are such that expenditures occur quite rapidly. No pipeline difficulties are anticipated. As of June 30, 1959, the unliquidated balances were \$6,761,000. However, the vast bulk of materials ordered against this figure have arrived in India and the balances will be liquidated rapidly.

8. Cooperating Country - TCM Coordination

The plans embodied in this E-1 have been the product of collaboration between the Ministry of Health, GOI, and the Health Division of TCM. In a broader sense, the whole plan has been reviewed by the Special Working Committee of the National Malaria Eradication Program with representatives of the Ministry of Health including the Directorate General of Health Services, the Planning Commission, the U.S. T.C.M. and WHO. While some alterations in detailed estimates for future years will be forthcoming and details are under continuing review, there is full agreement on the contents of this E-1.

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				COUNTRY ECONOMIC PROGRAM	PROJECT TITLE Orissa Iron Ore		

1 PROJECT BEGINS FY - 58 ENDS FY - 64	(A) Dollar Obligations (\$1,000)								(B) L/C Commitments or Obligations					(C) Other External Financing	(D) Numbers of People				
	Function of Funds	(1) Total	(2) U.S. Tech- nicians	(3) Non- Contract Participants	(4) Contract Services	(5) Com- modities	(6) Other Costs	(7) Contri- butions to Cooperative Service	(1) U.S. Owned MSP	(2) PL 480 and Other	(3) MSP Counter- part	(4) Total U.S. Owned or Controlled L/C	(5) Cooper- ating Country		(1) Technicians Authorized		(2) Participants		
															Non- Contract	Con- tract	Non- Contract U.S.	Con- tract 3rd Country	Con- tract
A. All Prior Years	SA (AEDF)	20,000				20,000													
B. Net Deob.-Reob.	-	-																	
Current Funds	-	-																	
Total Actual Year FY 1959	-	-																	
C. Operational Year FY 1960	-	-																	
D. Budget Year FY 1961	-	-																	
E. All Subsequent Years	-	-																	
F. Total All Years	SA (AEDF)	20,000																	

2	FY Source of Funds	Function of Funds	(A) Total All Prior			(B) Actual Year FY							(C) Operational Year FY			
			(1) Cumulative Expenditures 6/30/58	(2) Un-Sub- Obligated 6/30/58	(3) Unliquidated Obligations 6/30/58	(1) Actual Obligations During FY	(2) Total Available for Sub-Oblig.	(3) Sub- Obligated in FY	(4) Un-Sub- Obligated 6/30/59	(5) Total Available for Expenditure	(6) Actual Expenditure in FY	(7) Unliquidated Obligations 6/30/59	(1) Estimated Obligations in FY	(2) Total Available For Expenditure	(3) Estimated Expenditures in FY	(4) Unliquidated Obligations 6/30/60
Dollar Obliga- tion and Expend- iture	All Prior Years	SA (AEDF)	-	20,000	20,000	-	20,000	-	20,000	20,000	-	20,000		20,000	2,550	17,450
	Actual Year FY 1959															
	Operational Year FY 1960															
	TOTAL	SA (AEDF)	-	20,000	20,000	-	20,000	-	20,000	20,000	-	20,000	-	20,000	2,550	17,450

Problems Addressed:
PROBLEM IV Need for development and improved utilization of natural resources.

E-1	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 November 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION Unclassified	COOPERATING COUNTRY India	UNN (451-99-011)	E-1
				COUNTRY ECONOMIC PROGRAM			

1. General Description of the Project

This project is designed to exploit the Kiriburu iron ore mines in the State of Orissa to export 2,000,000 tons of iron ore to Japan and also to open an undeveloped area with rich natural resources for industrial development. The three main facets of the project are:

- a. Development of iron ore mines at or near Kiriburu in the Rourkela area.
- b. Construction of railway connecting link of 111 miles between Sambalpur and Titilagarh and a rail connection from mine site to the existing railroad of about 25 miles; provision of rolling stock and motive power to permit adequate rail movement of the ore from Kiriburu to port Visakhapatnam.
- c. Expansion of port and harbour facilities at Visakhapatnam.

This project has great significance to India in that it will allow export of an abundant natural resource to foreign countries and thereby earn considerable foreign exchange. It will also extend transportation thru a relatively undeveloped area of India making possible a multiplier effect in regards to other natural resources.

2. Specific Activity Targets or End Results of the Project

- a. Starting in 1964 export 2.0 million tons of iron ore to Japan.

- b. Provide an addition of 136 miles of railroad facilities together with the necessary rolling stock to carry iron ore from mines to Vizag Port.
- c. Provide two ore handling berths with ore handling equipment; two general cargo berths; railway siding facilities and ancillary equipment at the Vizag Port.
- d. Open up to access and exploitation one of the most backward and inaccessible areas in Orissa State of India thus enhancing the possibility of natural resources development.
- e. Create a mining-transportation complex which will produce jobs, create cities, in a countryside where none now exist.
- f. Open up an additional source of iron ore that can further support the Indian steel program.

3. Progress toward Achievement of Activity Targets

a. Work Accomplished to Date

Engineering designs and cost estimates submitted by GOI in respect of railroad lines, rolling stock, ore and general cargo berths have been accepted by ICA/W. GOI is preparing specifications for these items and PIO/Cs will be issued in October 1959. GOI plans for ore handling facilities have been submitted to ICA/W and their approval is awaited.

Contract has been awarded to Japanese Arch. Engr. firm for development of the mine at Kiriburu.

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				COUNTRY ECONOMIC PROGRAM	Orissa Iron Ore		

b. Work Remaining to be Done

The project, although well along in plans and designs, has not entered the construction phase. According to present schedule the mines will start operating by December, 1963.

The U.S. assisted elements which are the railroad and port only are further described as under:

c. Progress toward Achievement of Progress Targets

Mining and export of iron ore has not yet begun but specs for necessary equipment are now being prepared.

Railroad

Items of Work	Million in dollars		
	Indian Currency	Foreign Currency	Total Cost
New lines - 136 miles	18.80	9.00	27.80
Additional facilities on existing lines and modernization.	4.36	2.02	6.38
Rolling stock - 30-1850 HP Diesel-Electric locomotives, 524 - 80 ton gross gondola wagons and 28 break vans.	3.57	9.03	12.60
Totals -	26.73	20.05	46.78

4. Nature of the U.S. Contribution

a. Previous Fiscal Years

In FY-58 U.S. provided \$ 20,000,000 of Asian Economic Development funds for elements of this project. The elements for which the U.S. participation is involved are the railroad expansion and modernization and the port expansion and modernization. The total cost of the project is estimated at 67 million dollars and is summarized as follows:

Main element	Indian Currency	Foreign Currency	Total Cost
	Dollars in Millions		
Mining	2.659	8.050	10.709
Rail	26.730	20.050	46.780
Port	5.040	4.410	9.450
Total:	\$ 34.429	\$ 32.510	\$ 66.939

Port of Visakhapatnam

Rail terminal facilities	0.21	0.13	0.34
Ore Handling facilities	0.86	2.50	3.36
General Cargo handling facilities	-	0.55	0.55
Two Ore Berths	1.52	0.50	2.02
Two General Cargo Handling Berths	1.03	0.31	1.34
Dredging	0.71	0.42	1.13
Water Supply	0.25	-	0.25
Misc. items, general & establishment charges	0.46	-	0.46
Totals -	5.04	4.41	9.45

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b. Operational Year, Budget Year & Future Fiscal Years

No further U.S. assistance is contemplated for this project.

proper. It is estimated that there is a foreign exchange cost of approximately \$ 8,000,000 to fully develop and equip the mine.

5. Nature of Cooperating Country Contribution

The Government of India will supply approximately \$ 34,500,000 for the local rupee costs of the project. This amount will be expended as under:

b. Relationship to Other Projects

The construction of Hirakud Dam (assisted under OA-11) in Orissa is tied in with this project as power will be available for use at the mine from Hirakud. While the two million ton demand of Japan will be completely met by this project there is no doubt that ore from the completely developed mine will be used at the Rourkela and Bhilai steel plants.

<u>Items of Work</u>	<u>Millions of Dollars</u>
Development of Mines	2.659
Railroad Expansion and Modernisation	26.730
Port Expansion and Facilities	5.040
Total	\$ 34.429

7. Financial Considerations

The U.S. contribution of \$ 20,000,000 and Japanese contribution of \$ 8,000,000 are expected to partially take care of the foreign exchange requirements of the project leaving \$ 4,510,000 to come from other GOI sources. All local costs will be met by the Indian Government from its own resources.

After the project is completed, all operating costs will be borne by the project itself as it is considered to be self-liquidating.

Of the total amount of \$ 20,000,000 obligated in FY-58 no amount has been subobligated as of this date. This is due to the fact that ICA/W would release money only after general approval of engineering plans and cost estimates submitted to it by the GOI. ICA/W has since approved all items except ore handling equipment. A PIO/C for \$ 2,765,000 for steel and accessories is currently with GOI for signature. GOI Ministries

Government of India will furnish from other resources \$ 4,510,000 in foreign exchange to complete the foreign currency requirements of the Railroad and Port portions of the project.

Government of India will also pay all operating costs of the going project which are not sufficiently precise for listing at this time.

6. Contribution from Other Sources & Relationship to Other Projects

a. Other Sources

An integral part of this project is a Japanese loan of \$ 8,000,000 in yen to pay for the equipment in the mine

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of Railways and of Transport & Communications are working on detail specifications for purchase of other equipment and materials. A PIO/C for about \$ 4,000,000 for bridge steel and railroad construction equipment will be issued shortly and PIO/Cs for the balance are expected to be issued before the close of the year.

8. Cooperating Country-USOM Coordination

There is a close liaison between the Industry Division of this Mission and the GOI Ministries of Railways and Transport & Communications. All the plans required by the loan agreement prepared by these ministries are informally discussed and approved by the Mission before transmission to ICA/W.

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	(A) CUMULATIVE TO ACTUAL YEAR	(B) ACTUAL YEAR FY 1959		(C) OPERATIONAL YEAR FY 1960		(D) BUDGET YEAR FY	REMARKS:			
		TOTAL	(1) Prior Year Funds	(2) Actual Year Funds	(1) Congressional Presentation			(2) Program		
(ALL FIGURES IN \$1,000)										
1 DOLLAR PROGRAM	A. Defense Support Special Assistance	1. Project	215,331	-567	-567	-	-	a/ Includes loan portion financed from sales of Agricultural Surplus.		
		2. Non-Project	121,998	29	29	-	-			
		TOTAL	337,329	-538	-538	-	-			
	B. Technical Cooperation	62,886	7,414	14	7,400	10,500	8,000		14,911	
	TOTAL	400,215	6,876	-524	7,400	10,500	8,000		14,911	
	C. Includes MSP Loans	130,000	-	-	-	-	-			
	D. Includes MSP Sales of Agricultural Surplus	68,203	-418	-418	-	-	-			
2 GENERATION OF L/C FOR MSP USES	A. U.S. Owned L/C Generation for MSP Uses	Potential Generation	68,203	-418	-418	-	-	-		
		Less: Triangular currencies not available for internal use	Waivers	426	661	661	-	-	12	
			TOTAL	67,777	-1,079	-1,079	-	-	-12	
		B. Counterpart L/C Generation for MSP Uses	Potential Generation	332,012	7,294	-106	7,400	10,500	8,000	14,911
	Less: L/C for U.S. uses		Waiver of Counterpart Deposit	202,012	7,294	-106	7,400	10,500	8,000	14,911
			Other (Loan, etc.)	130,000 a/	-	-	-	-	-	-
	Add: Excess of Sales Proceeds Over Commensurate Value Counterpart Loan Repayments		Other (footnote)	-	-	-	-	-	-	-
			TOTAL	-	-	-	-	-	-	-
			TOTAL GENERATION	67,777	-1,079	-1,079	-	-	-	-

G-2	FORM ICA 10-114 (6-59)	DATE PREPARED 1 NOVEMBER 1959	SECURITY CLASSIFICATION UNCLASSIFIED		COOPERATING COUNTRY INDIA		ICA ADMINISTERED PROGRAM		G-2						
			<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM			DOLLAR PROJECT PROGRAM BY FIELD OF ACTIVITY							
ANNUAL PROJECT ASSISTANCE COSTS BY FIELD OF ACTIVITY All Dollar Figures \$1,000	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H) 71-79 Public Administration			(I) 81-89 Community Development, Social Welfare and Housing			(J) 91-99	
	Total All Fields	11-19 Food and Agriculture	21-29 Industry and Mining	31-39 Transportation	41-49 Labor	51-59 Health and Sanitation	61-69 Education	(1) 71 Public Safety	(2) 72-79 Public Administration	Total	(1) 81-82 Comm. Devel. and Social Welfare	(2) 83-89 Housing	Total	General and Miscellaneous	
1 ACTUAL YEAR FY 1959	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	7,400	2,231	1,700	44	6	545	1,153	-	56	56	211	-	211	1,454
	Total	7,400	2,231	1,700	44	6	545	1,153	-	56	56	211	-	211	1,454
No. of Technicians - Total		335	99	109	3	1	34	30	-	9	9	4	-	4	46
Direct Hire		157	44	16	2	1	34	5	-	9	9	-	-	-	46
Contract		178	55	93	1	-	-	25	-	-	-	4	-	4	-
No. of Participants - Total		700	144	297	13	2	48	196	-	-	-	-	-	-	-
Non-Contract		591	58	297	13	2	48	173	-	-	-	-	-	-	-
U.S.		590	57	297	13	2	48	173	-	-	-	-	-	-	-
Third Country		1	1	-	-	-	-	-	-	-	-	-	-	-	-
Contract		109	86	-	-	-	23	-	-	-	-	-	-	-	-
2 OPERATIONAL YEAR FY 1960	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	8,000	2,109	2,234	83	36	762	956	-	109	109	-	-	-	1,711
	Total	8,000	2,109	2,234	83	36	762	956	-	109	109	-	-	-	1,711
No. of Technicians - Total		298	91	81	1	-	23	28	-	5	5	4	-	4	64
Direct Hire		128	35	11	1	-	25	1	-	5	5	-	-	-	50
Contract		170	56	70	-	-	-	27	-	-	-	4	-	4	13
No. of Participants - Total		650	135	328	18	12	43	68	-	3	3	-	-	-	43
Non-Contract		558	71	308	18	12	43	60	-	3	3	-	-	-	43
U.S.		n.a.													
Third Country															
Contract		92	64	20	-	-	8	-	-	-	-	-	-	-	-
3 BUDGET YEAR FY 1961	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	14,911	4,560	1,928	257	836	2,252	2,915	-	75	75	-	-	-	2,088
	Total	14,911	4,560	1,928	257	836	2,252	2,915	-	75	75	-	-	-	2,088
No. of Technicians - Total		377	127	37	3	15	51	81	-	-	-	3	-	3	60
Direct Hire		180	64	16	2	1	45	1	-	-	-	-	-	-	51
Contract		197	63	21	1	14	6	80	-	-	-	3	-	3	9
No. of Participants - Total		787	187	259	16	20	81	178	-	6	6	-	-	-	40
Non-Contract		593	91	259	16	20	81	80	-	6	6	-	-	-	40
U.S.		n.a.													
Third Country															
Contract		194	96	-	-	-	98	-	-	-	-	-	-	-	-

Technicians and participants funded from Malaria Eradication Funds are excluded.

G-3	FORM ICA 10-115 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	ICA ADMINISTERED PROGRAM	G-3
	COUNTRY ECONOMIC PROGRAM			DOLLAR PROJECT PROGRAM BY COST COMPONENT			

DOLLAR COST COMPONENTS AND NUMBER OF PEOPLE BY FY AND FUNCTION	(A) MAJOR COST COMPONENTS (ALL FIGURES \$1,000)								(B) NUMBER OF TECHNICIANS					(C) NUMBER OF PARTICIPANTS		
	(1) Total Cost	(2) Direct Hire Technicians	(3) Non-Contract Participants	(4) Contract Services	(5) Commodities	(6) Other Costs	(7) Contribution to Cooperative Services	(1) Direct Hire		(2) Contract		(3) Locals	(1) Non-Contract		(2) Contract	
								(a) Positions Authorized	(b) On Board End of Year	(a) Positions Programmed	(b) On Board End of Year	Direct Hire on Board End of Year	(a) Programmed for U.S.	(b) Programmed for 3rd Country	Programmed	
1 ACTUAL YEAR FY59	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	7,400	2,529	2,019	2,005	847	410	-	157	93	178	45	-	590	1	109
	TOTAL	7,400	2,529	2,019	2,005	847	410	-	157	93	178	45	-	590	1	109
2 Congressional Presentation	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	10,500	3,131	3,085	2,821	1,112	351	-	n.a.	151	n.a.	137	-	644	n.a.	72
	TOTAL	10,500	3,131	3,085	2,821	1,112	351	-	n.a.	151	n.a.	137	-	644	n.a.	72
OPERATIONAL YEAR FY60	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	8,000	2,462	2,241	2,513	784	-	-	128	90	170	65	-	558	n.a.	92
	TOTAL	8,000	2,462	2,241	2,513	784	-	-	128	90	170	65	-	558	n.a.	92
3 BUDGET YEAR FY61	SA/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TC	14,911	3,435	2,612	6,465	1,897	502	-	180	110	197	75	-	593	n.a.	194
	TOTAL	14,911	3,435	2,612	6,465	1,897	502	-	180	110	197	75	-	593	n.a.	194

Note: Technicians and participants funded from Malaria Eradication funds are excluded.

G-4	FORM ICA 10-116 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	ICA ADMINISTERED PROGRAM	G-4
				COUNTRY ECONOMIC PROGRAM	LOCAL CURRENCY PROGRAM BY FIELD OF ACTIVITY		

	OBLIGATIONS OR COMMITMENTS BY FISCAL YEAR (All Figures \$1,000 Equivalent)	(A) FY 59			(B) FY 60			(C) FY 61		
		(1) MSP Source		(2) Title I PL 480 & Other	(1) MSP Source		(2) Title I PL 480 & Other	(1) MSP Source		(2) Title I PL 480 & Other
		(a) U.S. Owned	(b) Counterpart		(a) U.S. Owned	(b) Counterpart		(a) U.S. Owned	(b) Counterpart	
		DEFINITIONS: OBLIGATIONS or COMMITMENTS 1. U.S. owned local currency - Obligation is considered to take place in same manner as for dollar funds. 2. Counterpart - Commitment is considered to take place when a firm agreement is made between the U.S. and the host country to provide specified amounts for specific purposes or projects. Since such agreement takes place at different stages in different countries, varying from instances in which the obligation or commitment and the authorization to release from the special account are identical to instances in which the firm agreement precedes such authorization, indicate the point in the programming process which precludes reprogramming without amendment of an intergovernmental agreement.								
1	MILITARY PURPOSES	A. Projects	-	-	-	-	-	-	-	-
		B. Budget Support	-	-	-	-	-	-	-	-
		C. Military Procurement	-	-	-	-	-	-	-	-
		TOTAL	-	-	-	-	-	-	-	-
2	ECONOMIC PURPOSES	A. Projects								
		1. Food and Agriculture	80	-	-	403	-	168	-	-
		2. Industry and Mining	18,675	-	193,342	503	-	479	-	-
		3. Transportation	17	-	-	34	-	30	-	-
		4. Labor	4	-	-	22	-	37	-	-
		5. Health and Sanitation	60	-	-	97	-	150	-	-
		6. Education	276	-	-	155	-	148	-	-
		7. Public Admin.								
		Public Safety	-	-	-	-	-	-	-	-
		Public Administration	-	-	-	7	-	11	-	-
		TOTAL	-	-	-	7	-	11	-	-
		B. Community Development and Social Welfare	-	-	-	-	-	-	-	-
		C.D., S.W., & H.								
Housing	-	-	-	-	-	-	-	-		
TOTAL	-	-	-	-	-	-	-	-		
9. General and Miscellaneous	33	-	97,019	516	-	74	-	-		
TOTAL	19,145	-	290,361	1,737	-	1,097	-	227,535		
B. Budget Support	-	-	-	-	-	-	-	-		
C. Procurement for Third Countries	-	-	-	-	-	-	-	-		
TOTAL	19,145	-	290,361	1,737	-	1,097	-	227,535		
3	TOTAL ALL PURPOSES	19,145	-	290,361	1,737	-	1,097	-	227,535	

G-4	FORM ICA 10-120 (6-59) Continuation Sheet	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	ICA ADMINISTERED PROGRAM	G-4
			<input type="checkbox"/> REVISION NO.	COUNTRY ECONOMIC PROGRAM	LOCAL CURRENCY PROGRAM BY FIELD OF ACTIVITY		

TABLE G-4

EXPLANATORY COMMENT

A project breakdown would be premature at this time, since a bilateral local currency (L/C) program has not yet been developed by the GOI and TCM. Several serious policy issues and administrative complications have arisen in connection with L/C programming. These problems arise principally from the heavy volume of local currencies available for programming in India, GOI treatment of such L/C programming as budgetary support, and the difficulty of reconciling these considerations with ICA project programming processes. For example, the GOI takes the position that U.S. L/C aid is extended to the Central Government, not to State Governments or to specific institutions. It is the Central Government's exclusive prerogative to determine the terms and conditions under which such L/C will be allotted (by the Central Government) to recipient State Governments and/or specific institutions, i.e., whether such L/C aid will be allotted on a grant basis, a loan basis, or a grant/loan basis. Because of the volume of L/C involved, it is administratively impracticable to attempt to program P.L. 480 L/C in dribblets for small individual

projects. For these and other reasons, the program detail normally provided in Table G-4 is not wholly available at present.

However, the total estimated P.L. 480 L/C availabilities are reflected in Table G-4, since it is proposed to program these total availabilities during the course of FY 1960 and FY 1961, provided solutions to the above problems can be found.

The U.S.-owned MSP (Sec. 402) L/C obligations shown in Table G-4 for FY 1959 are limited to international travel costs for non-contract participants; the estimates for FY 1960 reflect expanded utilization to cover other program costs payable in rupees; the estimates for FY 1961 reflect only international travel costs for non-contract participants, but subsequent revision of the FY 1961 program budget will reflect expanded use of Sec. 402 rupees (on the scale budgeted in the FY 1960 OPAR Submission, Amendment No. 1, dated 13 October 1959).

DEFINITIONS: GENERATED - Generated is defined to mean the amount of local currency that has accrued or will accrue as a result of dollar obligations. Deductions should be made for MSP currencies not available for MSP use as indicated in Table G-1. OBLIGATED OR COMMITTED 1. U.S. owned local currency - Obligation is considered to take place in same manner as for dollar funds. 2. Counterpart - Commitment is considered to take place when a firm agreement is made between the U.S. and the host country to provide specified amounts for specific purposes or projects. Since such agreement takes place at different stages in different countries, varying from instances in which the obligation or commitment and the authorization to release from the special account are identical, to instances in which the firm agreement precedes such authorization, indicate the point in the programming process which precludes reprogramming without amendment of an intergovernmental agreement (describe below the type of document used for such agreement). EXPENDITURE 1. U.S. owned currency - Expenditure of U.S. owned local currency is considered to take place at the time funds are withdrawn from the U.S. account. 2. Counterpart - Expenditure of counterpart is considered to take place at the time funds are withdrawn from the special account.	(ALL FIGURES \$1,000 EQUIVALENT)	(A) FY 1959			(B) FY 1960		(C) FY 1961			
				(1) Status 7/1/58	(2) Net Change	(3) Status 6/30/59	(1) Net Change	(2) Status 6/30/60	(1) Net Change	(2) Status 6/30/61
		1	A. U.S. Owned	1. Generated	2. Deposited	3. Obligated	4. Expended	5. Undeposited Generation	6. Unobligated Deposits	7. Unexpended Deposits
LOCAL CURRENCIES Exchange Rate \$1 = Rs. 4.79		67,777	-1,079	66,698	-12	66,686	-	66,686		
		54,711	12,629	67,340	-654	66,686	-	66,686		
		14,614	19,145	33,759	1,737	35,496	1,097	36,593		
		10,556	4,065	14,621	10,785	25,406	10,858	36,264		
		13,066	-13,708	-642	642	-	-	-		
		40,097	-6,516	33,581	-2,391	31,190	-1,097	30,093		
		44,155	8,564	52,719	-11,439	41,280	-10,858	30,422		
2 PL 480 TITLE I LOCAL CURRENCY FOR MSP PURPOSES Exchange Rate \$1 = Rs. 4.762	A. Generated	323,200	150,400	473,600	400,000	873,600	200,000	1,073,600		
	B. Deposited	220,165	151,942	372,107	208,568	580,675	229,260	809,935		
	C. Obligated	-	290,361	290,361	191,188	481,549	227,535	709,084		
	D. Expended	-	10,500	10,500	139,930	150,430	235,524	385,954		
	E. Undeposited Generation	103,035	-1,542	101,493	191,432	292,925	-29,260	263,665		
	F. Unobligated Deposits	220,165	-138,419	81,746	17,380	99,126	1,725	100,851		
	G. Unexpended Deposits	220,165	141,442	361,607	68,638	430,245	-6,264	423,981		
3 OTHER LOCAL CURRENCY FOR MSP PURPOSES Exchange Rate \$1 =	A. Generated									
	B. Deposited									
	C. Committed									
	D. Expended									
	E. Undeposited Generation									
	F. Uncommitted Deposits									
	G. Unexpended Deposits									

G-8 a

FORM
ICA 10-135
(6-59)

DATE PREPARED

1 NOVEMBER 1959

 ORIGINAL REVISION NO.

SECURITY CLASSIFICATION

UNCLASSIFIED

COUNTRY
ECONOMIC PROGRAM

COOPERATING COUNTRY

INDIA

ICA ADMINISTERED PROGRAM

ICA/IES COORDINATED PLANS

G-8 a

		(A) ICA PROGRAM										(B) IES PROGRAM										(C)	
Actual Year = FY 1959 Operational Year = FY 1960 Budget Year = FY 1961		U.S. TECHNICIANS			PARTICIPANTS TO U.S.					U. S.					FOREIGN					GRAND TOTAL			
Subject Matter Fields	ICA Activity Code	Univ. Contract	All Other	Total	Observational Study	In-Service Training	Educ. Inst. Study	Total	3rd Country Participants	Total	Lecturers & Research Scholars	Teachers	Students	Specialists	Total	Lectures & Research Scholars	Teachers	Students	Leaders & Specialists		Total	Total	
A. Agriculture	(11-19)	Act FY	53	56	109	20	37	86	143	1	253	-	-	1	-	1	-	-	3	1	4	5	258
		Op FY	56	47	103	20	51	64	135	-	238	-	-	-	8	8	1	-	1	-	2	10	248
		Bud FY	63	77	140	20	71	96	187	-	327	-	-	-	-	-	-	-	-	-	-	-	327
B. Atomic Energy	(98)	Act FY	-	-	-	-	-	21	21	-	21	-	-	-	-	-	-	-	-	-	-	-	21
		Op FY	-	-	-	-	-	21	21	-	21	-	-	-	-	-	-	-	-	-	-	-	21
		Bud FY	-	-	-	-	-	15	15	-	15	-	-	-	-	-	-	-	-	-	-	-	15
C. Civil Police Administration	(71)	Act FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Op FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Bud FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D. Community Development and Social Welfare	(81-82)	Act FY	-	5	5	-	3	-	3	-	8	-	-	-	-	-	-	-	-	-	-	-	8
		Op FY	-	5	5	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	5
		Bud FY	-	4	4	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4
E. Economics		Act FY	-	-	-	-	-	-	-	-	-	2	-	3	1	6	1	-	5	-	6	12	12
		Op FY	-	-	-	-	-	-	-	-	-	2	-	1	1	4	-	-	7	-	7	11	11
		Bud FY	-	-	-	-	-	-	-	-	-	2	-	2	2	6	1	-	7	-	8	14	14
F. Education	(61-69)	Act FY	24	11	35	20	-	3	23	-	58	4	2	1	8	15	-	15	4	20	39	54	112
		Op FY	27	7	34	-	-	8	8	-	42	2	-	-	8	10	-	15	6	14	35	45	87
		Bud FY	40	6	46	-	-	58	58	-	104	2	-	-	12	14	-	14	7	12	33	47	151
G. Engineering		Act FY	47	0	47	-	-	170	170	-	217	-	-	-	1	1	-	-	6	-	6	7	224
		Op FY	36	0	36	-	-	80	80	-	116	-	-	-	1	1	-	-	5	-	5	6	122
		Bud FY	41	0	41	-	-	120	120	-	161	-	-	-	1	1	-	-	-	-	-	1	162
H. English Language	(69)	Act FY	-	-	-	-	-	-	-	-	4	-	-	-	4	2	-	3	-	5	9	9	9
		Op FY	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	-	-	3	3	3
		Bud FY	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	1
I. Housing	(83-89)	Act FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Op FY	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2	2
		Bud FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J. Humanities		Act FY	-	-	-	-	-	-	-	-	5	-	6	-	11	2	-	7	-	9	20	20	20
		Op FY	-	-	-	-	-	-	-	-	10	-	11	-	21	5	-	22	-	27	48	48	48
		Bud FY	-	-	-	-	-	-	-	-	10	-	8	-	18	5	-	25	-	30	48	48	48

PAGE 369 OF 371 PAGES

SECURITY CLASSIFICATION

UNCLASSIFIED

SHEET 1 OF 3 SHEETS TO THIS TABLE

G-8b

FORM
ICA 10-136
(6-59)

DATE PREPARED

1 NOVEMBER 1959

 ORIGINAL REVISION NO.

SECURITY CLASSIFICATION

UNCLASSIFIED

COUNTRY
ECONOMIC PROGRAM

COOPERATING COUNTRY

INDIA

ICA ADMINISTERED PROGRAM

ICA/IES COORDINATED PLANS

G-8b

1 Cont'd.			(A) ICA PROGRAM										(B) IES PROGRAM										(C)		
Actual Year = FY 19 59 Operational Year = FY 19 60 Budget Year = FY 19 61			U.S. TECHNICIANS			PARTICIPANTS TO U.S.				U. S.					FOREIGN					GRAND TOTAL					
Subject Matter Fields	ICA Activity Code		Univ. Contract	All Other	Total	Observa- tional Study	In- Service Training	Educ. Inst. Study	Total	3rd Country Partici- pants	Total	Lecturers & Research Scholars	Teachers	Students	Special- ists	Total	Lecturers & Research Scholars	Teachers	Students		Leaders & Special- ists	Total	Total		
K. Industry & Mining	(21-29)	Act FY	-	71	71	-	260	-	260	-	331	-	-	-	-	-	-	-	-	-	1	1	1	332	
		Op FY	-	52	52	-	308	-	308	-	360	-	-	-	-	-	-	-	-	-	-	-	-	-	360
		Bud FY	-	47	47	-	259	-	259	-	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L. Labor	(41-49)	Act FY	-	3	3	2	-	-	2	-	5	-	-	-	1	1	-	-	-	-	5	5	6	11	
		Op FY	-	2	2	4	8	-	12	-	14	-	-	-	2	2	-	-	-	-	2	2	4	18	
		Bud FY	-	17	17	6	14	-	20	-	37	-	-	-	3	3	-	-	-	-	-	-	-	3	40
M. Mass Media Communica- tions	(92)	Act FY	-	3	3	-	-	-	-	-	3	-	-	1	1	-	-	-	-	-	15	15	16	19	
		Op FY	-	3	3	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	18	18	18	21	
		Bud FY	-	3	3	-	-	-	-	-	3	-	-	3	3	-	-	-	-	-	25	25	28	31	
N. Parliamen- tarians		Act FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	
		Op FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	
		Bud FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	
O. Public Administra- tion	(72-79)	Act FY	-	9	9	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	1	1	2	11	
		Op FY	-	5	5	-	3	-	3	-	8	-	-	-	-	-	-	-	-	-	2	2	2	10	
		Bud FY	-	-	-	-	6	-	6	-	6	-	-	-	-	-	-	-	-	-	4	6	6	12	
P. Public Health	(57-59)	Act FY	-	19	19	-	-	5	5	-	24	-	-	-	-	-	-	-	-	-	-	-	-	24	
		Op FY	-	15	15	-	-	10	10	-	25	-	-	-	-	-	-	-	-	-	-	-	-	25	
		Bud FY	-	26	26	-	-	23	23	-	49	-	-	-	-	-	-	-	-	-	-	-	-	49	
Q. Public Officials		Act FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	
		Op FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	
		Bud FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	
R. Science (Medical, Physical, Natural)		Act FY	-	21	21	-	-	43	43	-	64	3	-	-	-	3	3	-	34	-	37	40	104		
		Op FY	-	19	19	2	1	30	33	-	52	4	-	3	2	9	11	5	48	-	64	73	125		
		Bud FY	-	31	31	4	2	52	58	-	89	4	-	2	3	9	8	6	40	-	54	63	152		
S. Social Sciences		Act FY	-	-	-	-	-	-	-	-	-	5	-	4	2	11	-	-	15	4	19	30	30		
		Op FY	-	-	-	-	-	-	-	-	-	9	-	1	2	12	2	-	10	2	14	26	26		
		Bud FY	-	-	-	-	-	-	-	-	-	6	-	3	4	13	3	-	17	4	24	37	37		
T. Transpor- tation	(31-39)	Act FY	-	3	3	-	13	-	13	-	16	-	-	-	-	-	-	-	-	-	-	-	16		
		Op FY	-	1	1	-	18	-	18	-	19	-	-	-	-	-	-	-	-	-	-	-	19		
		Bud FY	-	2	2	-	16	-	16	-	18	-	-	-	-	-	-	-	-	-	-	-	18		

G-8 c	FORM ICA 10-137 (6-59)	DATE PREPARED 1 NOVEMBER 1959	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISION NO.	SECURITY CLASSIFICATION UNCLASSIFIED	COOPERATING COUNTRY INDIA	ICA ADMINISTERED PROGR.
				COUNTRY ECONOMIC PROGRAM	ICA/IES COORDINATED PLANS	

1 Cont'd. Actual Year = FY 19 59 Operational Year = FY 19 60 Budget Year = FY 19 61		(A) ICA PROGRAM										(B) IES PROGRAM									
		U.S. TECHNICIANS			PARTICIPANTS TO U.S.				3rd Country Particip- ants	Total	U.S.					FOREIGN				Total	
		Univ. Contract	All Other	Total	Observa- tional Study	In- Service Training	Educ. Inst. Study	Total			Lecturers & Research Scholars	Teachers	Students	Special- ists	Total	Lecturers & Research Scholars	Teachers	Students	Leaders & Special- ists		
Subject Matter Fields	ICA Activity Code																				
U. Banking & Investment	Act FY	-	-	-	16	-	-	16	-	16	-	-	1	2	3	-	-	-	-		
	Op FY	-	13	13	22	-	-	22	-	35	-	-	3	-	3	-	-	-	1		
	Bud FY	-	9	9	15	10	-	25	-	34	-	-	-	4	4	-	-	-	1		
V. Miscella- neous	Act FY	-	10	10	-	-	-	-	-	10	-	-	-	-	-	-	-	-	1		
	Op FY	-	10	10	-	-	-	-	-	10	-	-	-	-	-	-	-	-	1		
	Bud FY	-	11	11	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-		
W.	Act FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Op FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Bud FY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL	Act FY	124	211	335	58	313	328	699	1	1035	23	2	17	15	57	8	15	-	-		
	Op FY	119	179	298	48	389	213	650	-	948	30	-	19	24	73	21	20	-	-		
	Bud FY	144	233	377	45	378	364	787	-	1164	25	-	18	29	72	17	-	-	-		

2. Comments: