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PROGRAMS IN THE AGRICULTURAL RESEARCH PROJECT PHASE II

USAID NO. 388-0051

**Cost : US. \$ 16.8 Million
Period : July 1981—June 1986**

**Bangladesh Agricultural Research Council
BARC Complex, Farm Gate
New Airport Road, Dacca-15
Bangladesh**

Introduction

The purpose of the Agricultural Research Project Phase-II is to increase the effectiveness of agricultural research necessary for development of appropriate agricultural technologies for Bangladeshi farmers. Concentrated efforts will be made to link different agricultural institutes into a research system relevant to achieving the country's agricultural development objectives of greater food production through more productive use of land and labor.

The contract will provide funds for contract research and sabbatical research. Contract research will be arranged with other institutions or individuals in Bangladesh who have special services to offer for achieving project objectives and with whom closer ties will be beneficial in the research system. Sabbatical research will offer opportunities for exchange of scientific staffs between universities and research experiment stations for one or two years to undertake specific research activities of interest to them, their universities and the project. Programs for Contract and Sabbatical Research are presented separately.

In-country, third-country and special research scholarship support will be provided for training of research officers, extension agents and university students involved in project activities. It is anticipated that 81 man-years of U.S. and third-country training will be provided and 2,000 research and extension officers will receive in-country training. There will also be farmer field days and other specialized farmer training in connection with the Farming System Research (FSR) program. Training and Scholarship Programs are presented separately.

In the succeeding pages the reader is directed to the specific Programs under Agricultural Research Project Phase-II including program objectives, scope, selection criteria, budget and application formalities.

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Training of BARC Scholars Abroad

The Training program of BARC is designed to improve research performance and management throughout the National Agricultural Research System with the two fold purpose:

- 1) Determination of gaps in needed subject areas of specialization, degree of training, regional distribution and agency requirements to achieve research excellence in solving prioritized problems and attain National Agricultural Development Goals.
- 2) Planning for the continuous up-grading and improvement of the national research manpower in Bangladesh through degree and non-degree orientated training programs.

*Objectives:

Under the USAID Supported Research Project II Training program importance will focus on strengthening scientific and management competencies to:

- 1) Diagnose analyse and solve priority farm problems that constrain food production and rural welfare. / ✓
- 2) Accelerate the generation of improved technology by up-grading manpower performance in the nine core disciplines. / ✓
- 3) Develop capability in conducting multidisciplinary research with a farming system approach. / ✓
- 4) Improve the research-extension linkage by up-grading communication and support service competencies which facilitate technology transfer. / ✓
- 5) Up-grade the Agricultural research system by ensuring regional distribution and inter-Institutional manpower development based on locality needs. / ✓

Selection Criteria

Selection of candidates for training abroad will be based on the following criteria:

- 1) Need for such training in terms of National Goals and the National Agricultural Research Plan.
- 2) Evidence of outstanding scientific and/or professional performance while working in the Agricultural Research System.
- 3) Academic back ground and potential for successful participation in the training program.
- 4) Urgency of improved competency in the subject area of the proposed training, relevance to project objectives and to the nine core discipline components.
- 5) Regional distribution of and institute (agency) requirements for trained manpower.
- 6) Certification of regular appointment with and return to institute upon completion of training when his services will be utilized at a Regional Station for 1-3 years.

*Training Schedule, Degree and Short-Term Scholars:

The proposed BARC Training categories (degree and short-term) and phasing cost (US \$ 000) for the scholars abroad program is presented in table 1. The Ph.D, M.S. and short-term categories provide training opportunities for 82 scholars in either the US, 3rd Country or at International Research Centres.

Training is scheduled over the 5 year Research Project Phase II period within the total budget and annual disbursement prescribed in the Contract.

Annual costs are shown for each training category and country. The 6 Ph.D and 15 M.S. scholar programs have been budgeted for 42 and 24 months respectively.

Table 1: Kinds of Training, Student Numbers and Phasing Cost(US\$000)
For the Scholar Abroad Training Program

Category	1982/82		1982/83		1983/84		1984/85		Six Month 1986		Total	
	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost
A. <u>Ph.D (3.5 yr.)</u>												
1) US 18,000/yr.	-	-	4	72	(4)	72	(4)	72	(4)	36	4	252
2) Third Country 14,000/yr.	-	-	2	28	(2)	28	(2)	28	(2)	14	2	98
B. <u>M.S. (2 yr.)</u>												
1) US @ 15,000/yr.	-	-	6	90	(6)	90					6	180
2) Third Country 12,000/yr.			(8)	96	9	108	(1)	12			9	216
C. <u>Post Graduate or Post Ph.D 12,000/yr.</u>												
	-	-	3	36	2	24					5	60
D. <u>Short Term Training*</u>												
1) US 6 month @ 10,000	-	-	6	60	6	60					12	120
2) Third Country 6 month @ 7,000	9	63	10	70	9	63					28	196
3) Third Country 3 months @ 5,000	7	35	6	30	3	15					16	80
Sub-Total	16	98	37	482	29	460	-	112	-	50	82	1202

* Includes International Research Centres

Project Participant Training Implementation Plan

Subject Area	Project Year					Month/Type/Place
	1	2	3	4	5	
<u>Research System Management:</u>						
Administration		12	6			24/MS/US or developed 12/ST/US or developed
Finance		6	6			24 MS/US or developed 6/ST/US or developed 6/ST/3rd country
Farm Service	3	3				9/ST/3rd Country 12/ST/3rd country
<u>Farming System Research:</u>			42			42/Ph.D/3rd country 48/MS/3rd country
Farm System and/or On Farm Trials	6	6	6			66/ST/3rd country
<u>Crop Science:</u>						
Agronomy		24	42			42/Ph.D/US or developed 24/MS/US or developed
Coarse Grain	6		42			42/Ph.D/US or developed 24/MS/3rd country 6/ST/3rd country
Horticulture		24				24/MS/US or developed
Specialized	3	6	3			6/ST/US or developed 21/ST/3rd country

Project Participant Training Implementation Plan

Subject Area	Project Year					Month/Type/Place
	1	2	3	4	5	
<u>Soil Management:</u> ✕ ✕						
Soil Fertility		← 42 →				42/Ph.D/3rd country
		← 6 →				6/ST/3rd country
Soil Plant Analysis		← 24 →				24/MS/US or developed
Specialized		← 6 →	← 6 →			12/ST/US or developed
	← 6 →	← 6 →	← 6 →			18/ST/3rd country
<u>Economics & Social Science:</u>						
Agriculture Economics		← 24 →				
		← 48 →				48/MS/3rd Country
Social Science ✕		← 42 →				42/Ph.D/US or developed
		← 6 →				6/ST/US or developed
		← 6 →				6/ST/3rd country
Specialized			← 6 →			6/ST/US or developed
			← 6 →			6/ST/3rd country
	← 3 →	← 3 →	← 3 →			15/ST/3rd country

Project Participant Training Implementation Plan

Subject Area	Project Year					Month/Type/Place
	1	2	3	4	5	
<u>Water Management:</u>						
Irrigation		← 3 →	← 3 →	42		42/Ph.D/US or developed 6/ST/3rd country
Moisture Conservation (Rainfed)		← 24 →				24/MS/US or developed
Water Management	← 3 →	← 6 →	← 6 →			12/ST/US or developed 3/ST/3rd country
Specialized	← 3 →	← 6 →				6/ST/US or developed 3/ST/3rd country
<u>Pest Management:</u>						
Vertebrate		← 24 →				24/MS/US or developed
		← 24 →				24/MS/3rd country
Entomology		← 24 →				24/MS/3rd country
Pathology		← 24 →				24/MS/3rd country
Storage		← 3 →				3/ST/3rd country
Specialized	← 6 →	← 6 →	← 12 →			12/PG/3rd country 12/ST/3rd country

Project Participant Training Implementation Plan

Subject Area	Project Year					Month/Type/Place
	1	2	3	4	5	
<u>Information & Library:</u>						
Communication			12			12/Ph/3rd country
Library Science		12				12/Ph/3rd country
Specialized	6					6/ST/3rd country
			6			6/ST/3rd country
<u>Livestock:</u>						
Animal Science				6		6/ST/US or developed
		6				12/ST/3rd country
Specialized			24			24/MS/3rd country
TOTAL:	75 Mo	390 Mo	375 Mo	84 Mo	36 Mo	960
<u>DETAILS:</u>	NoxNo	NoxNo	NoxNo	NoxNo	NoxNo	
Ph.D/US or developed	-	4x12=48	4x12=48	4x12=48	4x6=24	
Ph.D/3rd country	-	2x12=24	2x12=24	2x12=24	2x6=12	
MS/US or developed	-	6x12=72	6x12=72	-	-	
MS/3rd country	-	8x12=96	9x12=108	1x12=12	-	
PD/PG	-	3x12=36	2x12=24	-	-	
6 Mo/ST/US or developed	-	5x6=36	6x6=36	-	-	
6 Mo/ST/3rd country	9x6=54	10x6=60	9x6=54	-	-	
3 Mo/ST/3rd country	7x3=21	6x3=18	3x3=9	-	-	
	75	390	375	84	36	

NOTE: PG = Post Graduate
PD = Post Doctoral

The B.A.R.C.
Contract Research Program

1. Nature and Scope : A key thrust of Project-II will be to develop capabilities in widely applicable, low-risk, high yield and farm tested technological interventions for extension delivery to farmers. It is designed to bring the National Agricultural Research System closer to the small Bangladeshi farmer by supporting participating institutions in developing improved farming systems and component technologies that increase food production and net farm income. Concurrent station and farm trials will be tailored to select varieties and cultivation practices that fit the environments in which farmers must cultivate.

The core research program introduces a farming systems approach supported by the following components. Research Management, Economics and Social Science, Crop Research, Soil and Water Management, Pest Management, Livestock Research and Support Services.

2. Purpose and Objectives: The aim of contract research is to provide resource support to scientists of participating institutes in the diagnosis and analysis of priority on farm problems, implementation of research for their resolution, and making readily available results for adoption by farmers or for further verification and farm validation.

2.1 Specific Objectives : Contract Research aims to support:

- 1) Gaps in priority research as identified in the five year Agricultural Research Plan and where additional funding is needed.
- 2) Studies in the core disciplines as identified in the Agricultural Research Project-II, which develop improved technologies for ready adoption by Bangladeshi farmers.

- 3) Concurrent station and farmer field trials that focus on farming systems to generate location specific improved varieties and low risk, high yield farm tested technology.
- 4) Multidisciplinary research among participating Institutes designed to increase food production and improve farmer welfare.
- 5) Effective coordination and systematic monitoring and evaluation of Contract Funded Projects.

3. Selection Criteria :

3. Criteria : Proposals for Contract Research funding will be selected according to the degree by which the project.
 - 1) Contributes significantly beyond present knowledge to assist solve farm problems which constrain food production and net farm income.
 - 2) Focuses on generating improved technological ventions to resolve problems identified in specific farming systems.
 - 3) Supports otherwise non funded research within the core disciplines identified in The Agricultural Research Project Phase-II.
 - 4) Provides likelihood of early success and important findings that assist achieve, National food, employment and welfare goals.
 - 5) Reflects capability of agency scientists to conduct research with resources available.

6. Provides opportunity for inter-institutional coordination and multidisciplinary participation on station and on farm.
7. Provides prospects for significant accomplishments within the contract research budget constraints and objectives.
8. Presents with clarity and in prescribed BARC format project objectives, methodology and relevant details.

The farming systems approach to be featured in Research Project-II with selected component core discipline studies are designed to increase food production through improved technological interventions that have been farm tested. Particular importance is therefore given to criteria 1 through 3 (above) in providing resources through contract research.

4. Process of Selection:

The BARC has established six steps in the selection process of contract research proposals before final approval by the Council's Governing Board. At each step the above 8 criteria will be rigorously applied.

Step I : The nature scope and objectives of contract research will be made available to scientists through appropriate channels of participating research Institutes. A research proposal completed by Institute/Scientist on a prescribed BARC Contract Research Format (Annex-I) will be submitted to the Executive Vice-Chairman with a copy to the Member-Director concerned with the research projects discipline.

Step II : Contract Research Project proposals will then be transmitted for review to (usually three) leading inter-institutional scientists whose experience and field of expertise qualifies them to scrutinize it. Comments and suggestions received from the reviews by BARC are conveyed to the Project Leader.

Step III : Proposed Projects are then submitted by the Member-Director to one or more of 10 standing BARC Technical Committees.

1. Field Crops;
2. Industrial Crops;
3. Horticultural Crops;
4. Soils and Irrigation Agronomy;
5. Forestry;
6. Livestock;
7. Fisheries;
8. Agricultural Engineering;
9. Nutrition and Home Science;
10. Agricultural Economics and Social Science;

Technical Committee Members (leading participating Institute Scientists) individually review the proposal then are convened to consider action on the proposal.

Step IV Recommendations (with justification statement from T.C.) for project/sub-project approval are submitted in writing by appropriate Member-Director to the Executive Vice - Chairman together with an estimated budget.

Step V : Review and Recommendation by the BARC Finance Committee (consisting of Executive Vice-Chairman BARC, Head, Agricultural Division Planning Commission, Financial Advisor Ministry of Agriculture, Vice-Chancellor BAU, Director BCSIR Laboratories and Secretary BARC) examine the budget statements of all research proposals to determine source and availability of funds and appropriateness of budget category estimated expenditures.

Step VI : Final recommendation for research proposals by the Executive Committee for the BARC Council is made.

5. Financial Procedures:

During Step V (above) in the Research Project selection process budgets are examined and assessed against total annual contract research fund release according to the following formula:

Table : 1 Percent allotment of Contract Research Funds according to Project Core Disciplines.

<u>Core Discipline</u>	<u>Percent of Contract Research Budget</u>
Farming System	20
Crop Sciences	25
Livestock Sciences	5
Pest Control	15
Economic and Social Sciences	15
Soil Science	15
Water Management *	5*

* Project amendment now in preparation will provide fund increase

The Contract Research budget and annual disbursement schedule is presented in Annex II together with an explanation of items under operational and commodity categories.

Budget management Control for Contract Research will be exercised by the Member-Director(s) under which the project is assigned and assisted by an International Staff Support and Coordinated Cell (ISSCC) Accountant.

6. Operational Procedure:

Prior to the release of contract research funds to participating Institute scientist, BARC will require from the recipient Institute : a signed memo of understanding by the Institute Head, and Executive Vice-Chairman that the following conditons are adhered to:

- 1) Contract funds will be utilized according to approved budget with not more than 15 percent transfer within budget categories provided the total budget does not exceed the total approved budget.
- 2) Salaries of participating Institute Scientists will not be paid from Contract Funds unless approved by Executive Vice-Chairman and USAID.
- 3) USAID/IADS will release to Executive Vice Chairman six months advance and BARC will quarterly disburse to Institute Contract Research Funds consistent with the approved project budget.
- 4) The participating Institute will provide BARC a quarterly statement (Annex III).
- 5) Quarterly statement received from participating Institutes are reviewed by respective Member-Director with assistance from ISSCC Accountants and forwarded to USAID/IADS.
- 6) USAID/IADS upon receipt of the quarterly Financial Statement will liquidate the amount released and advance funds for the next quarter.

- 7) Achievements accrued from Contract Research Projects will be assessed by respective Member Directors at six months intervals and recorded as Field Evaluation Reports (Annex IV) for transmission to Institute and Scientist(s).
- 8) At the end of each project year each participating Institute will furnish an Annual Progress Report (Annex V) to BARC for subsequent forwarding to USAID.
- 9) Contract Research Terminal Report(s)(Annex VI) will be completed by Project Leader and submitted to BARC, Participating Institute(s) and USAID within 30 days of termination date.

7. Administrative Direction:

Administrative direction of Contract Research Projects is exercised at three levels:

1. By the Executive Vice-Chairman, Member Directors and Council Committees who administer Contract Research Funds according to given criteria and schedule, and take necessary action based on Financial/Technical Monitoring Reports (see accountability below).
2. Heads of Institutes assisted by their support staff with authority delegated by the Council administer Contract Research Funds released by BARC to the Institute for approved project/sub-projects.
3. Project Leaders at the given participating Institute receive timely released funds from the Institute Accountant and exercise control of their Contract Research. Operational costs and procurement records are maintained by the Institute Accountant.

8. Accountability:

The BARC has established Technical and Budget Management control procedures complete with developed formats which serve the following:

	<u>Annex</u>
1. Research Proposal	I
2. Contract Research Budget	II
3. Quarterly Financial Report	III
4. Field Evaluation Report	IV
5. Annual Progress Report	V
6. Project Terminal Report	VI

The BARC In-Country Research Scholarship
Program:

1. Nature and Scope:

The Scholarship fund made available by USAID through BARC was established to assist promising specialists within the Research Systems (including University) to attend a program for advanced degree training at a Bangladesh Institution acceptable to BARC. Alternatively, the scholarship fund could serve as a research grant towards an on-going advanced degree where the thesis will be conducted in a Bangladesh Agricultural Research Institute.

2. Objectives:

The aims of the Research Scholarship Fund are to:

- 1) Encourage Bangladesh scientists, to continue studies leading to an advanced degree (M.S./Ph.D) in one of the Agricultural Science disciplines.
- 2) Provide internship opportunity for scientists to conduct thesis research at one of the participating Research Institutes.
- 3) Strengthen the linkage between the academic community and Research Institutes in both priority research and training.

3. Selection Criteria:

Selection of candidates for in-country training will be based on the following criteria:

- 1) Need for such scholarship in terms of National Goals and the National Agricultural Research Plan.

- 2) Evidence of good scientific and/or professional performance while working in the Agricultural Research System.
- 3) Academic background and potential for successful participation in the scholarship program.
- 4) Urgency of improved competency in the subject area of the proposed scholarship, relevance to project objectives and to the nine core discipline components.
- 5) Regional station/sub-station distribution of and institute (agency) requirements for trained manpower.
- 6) Certification of regular appointment with and return to Institute to serve at a regional station upon scholarship completion.
- 7) Written agreement by applicant to serve at a Regional Station for 1 to 3 years upon completing scholarship.

4. Process of Selection:

A four step selection process will be involved:

Step I The nature scope and objectives of the in-country research scholarship will be made available by BARC to participating Institute(s)/Universities/individuals through appropriate channels. Application & Proposal formats(Annex VII) will be available at BARC.

Step II The BARC In-country scholarship selection will be conducted by the Research Project II Advisory Committee which will scrutinize applicants according to defined selection criteria and reserve the right to interview applicants before final committee selection.

Step III Successful applicants will be promptly notified by BARC through Institutional/University heads/individuals in which the scholar is employed with a copy to head of Institution/University where scholarship will be undertaken.

Step IV Completed application formats (Annex VII) of selected scholars will be submitted to the Executive Vice-Chairman with copies to the head of Institute of applicant and to the head of Institute/ University where Research Scholarship will be carried out.

5. Financial Procedures:

The In-country Scholarship budget (800,000 Taka) percent allocation and stipends etc. is presented in Annex VIII. Financial Procedures for in-country scientists are as follows:

- * The BARC through ISSCC will advise USAID of selected scientist(s) and request release of six months advance funds from USAID/IADS.
- * In-country released funds from USAID/IADS to Executive Vice-Chairman will be disbursed quarterly through ISSCC to Institute in which the scholar is employed (or where he will do his research) according to terms of the scholarship.
- * Upon receipt by BARC and USAID/ IADS of satisfactory quarterly (Annex III) financial reports USAID/IADS will advance to BARC a further six month payment for the in-country scholarship program.
- * The In-country Scholar will provide BARC an Annual Progress Report (Annex V) of accomplishments and Budget Summary.
- * On completion of in-country scholarship the Institute/ University in which the scholar works will provide BARC with a Terminal Report (Annex VI) while unspent funds will be returned to BARC in-country scholarship fund.

6. Operational Procedure:

* The Executive Vice-Chairman will delegate to ISSCC budget management control responsibility for the In-country scholarship program.

* The ISSCC accountant will establish with the scholar's employment Institute/University and graduate advisor fund dispersement and accounting procedures. (Annex ILL).

* Agricultural Research Project II advisory committee will review atleast annually the progress and achievements of scholars and Institute/Universities participating in the In-country Scholarship Program.

7. Administrative Direction:

Administration of Sabbatic Research will be at two levels:

1. Research Project II Advisory Committee: will select candidates, review sabbatic researchers progress and ensure completion of formats as required under terms of the Sabbatic Program.
2. ISSCC Accountant : will administer, on behalf of Executive Vice-Chairman, the Sabbatic Funds and provide budget management control with a reporting schedule to USAID as specified under stated terms of program.

8. Accountability:

In-country scholars in addition to providing a synopsis of their research will complete the following formats and submit them to the BARC Chairman of Research Project II Advisory Committee.

1. Research Application & Proposal-Annex VII
2. Quarterly Financial Report - Annex III
3. Annual Progress Report Annex - V
4. Project Terminal Report - Annex VI

The B.A.R.C.
Sabbatic Research Program

1. Nature and Scope:

All participating Research and Educational Institutes may participate in the Sabbatic Research Program. Sabbaticals that involve exchanges between the universities and the mono - or multi crop, (livestock) institutes will be of highest priority. Normally, such exchanges are intended within Bangladesh and the program especially encourages BAU staff to conduct studies at the various research Institutes. However, if it is identified during an annual project evaluation, that third country institutes should be included in the Sabbatical Research. The contract can be amended to reflect this need and funding will only address the Bangladesh participant. No sabbatical shall exceed US\$25,000/year unless rescheduled by BARC and approved by the project contractor.

2. Objectives:

- To strengthen the University and Research Institute linkage by encouraging faculty to conduct priority strategic and operational research on topics identified in the 5 year Agricultural Research Plan.
- To provide opportunities for faculty to update their course subject-matter content and teaching methodology based on recent Research Institute findings and experience.

3. Selection Criteria:

- Demonstrated ability of applicant to conduct research within Project II core disciplines as revealed by scientific publications and/or evidence of farmer acceptance of previous research output.

Professional competence of candidate as assessed by peers to conduct research in the identified core disciplines.

1/ Project Paper provides for annual evaluations : 3 internal and 2 external

- * Full time appointment at one of the participating Institute(s)/ Universities as a PSO or at least at the Associate Professor level.
- * Certification of regular appointment with and return to Institute/University upon completion of Sabbatic when his/her services will be utilized at Regional/Substation for 1 to 3 years.
- * A statement on BARC format (Annex IX) of research to be undertaken, approvals from involved agency heads and relevant details including prospects for significant accomplishments during Sabbatic.
- * Willingness to work at Regional Research Station.

4. Process of Selection:

The selection process will consist of four steps:

- Step I The Nature scope and objectives of Sabbatic Research will be made available to participating Institutes/Universities/ individuals through appropriate channels. Application and Proposal formats (AnnexIX) will be available at BARC.
- Step II The Inter-Institutional Sabbatic Research Selection Committee appointed by BARC will screen applications and select according to defined selection criteria and reserve the right to interview applicants before final selection.
- Step III Successful candidates will be promptly notified by BARC through Institutional heads in which scientist is employed with a copy to agency head where sabbatic will be undertaken.
- Step IV Selected Sabbatic scholars will complete Research Application & Proposal, Work Plan and Budget Summary (Annex IX) and submit to the Executive Vice-Chairman with copies to the Institute/University heads/Individuals participating in the applicants sabbatic research.

5. Financial Procedure:

An annual budget of US\$ 50,000 for each of Five Years is presented in Annex X . The process of fund disbursement is as follows:

- * The BARC through ISSCC will advise USAID of selected scholars and request release of six month advance funds for the total sabbatic scholar approved annual budget.

USAID/IADS will release to Executive Vice-Chairman the six month advance while ISSCC will establish a sabbatic scholar budget and disburse to Institute of scholar the advanced funds together with details for budget management control.

- * The Institute/University of each scholar will maintain record of accounts for scholar(s) of that Institute as instructed by BARC. Upon receipt by BARC and USAID/IADS of satisfactory quarterly financial report (Annex III) from Institute(s) a further six month advance payment will be provided by USAID/IADS to BARC.
- * The BARC delegates authority for financial transfer between Institute which employes scholar to Institution where the Sabbatic will be taken provided such transfers are consistent with approved scholar budget and BARC is so notified.
- * Transfer of funds between budget categories provided in Annex X will be permitted provided for total expenditure remains within sabbatic researchers approved budget

6. Operational Procedure:

In addition to the previously detailed financial procedures other operational processes include:

- 1.A Six monthly Field Evaluation Report (Annex IV) will be conducted by BARC and Sabbatic Scholar which provides a synopsis of progress, budget summary and achievements accrued. Copies of the evaluation report will be transmitted to heads of Institute/University participating.

2. USAID upon receipt of the quarterly financial report from ISSCC accountant will liquidate the amount released and advance for the next six months.
3. Upon termination of the Sabbatic the scholar will forward to Executive Vice-Chairman (with copies to participating Institute/University heads and USAID) a Project Terminal Report (Annex VI) within 30 days of completion of sabbatic to BARC with copies to participating Institutes and USAID.

7. Administrative Direction:

Sabbatic Research administrative direction will be provided at three levels:

1. By the Executive Vice-Chairman with assistance from ISSCC who will administer Sabbatic Research program according to given financial and operational procedures.
2. Heads of Institutes and support staff participating in the sabbatic (with authority delegated by the Council to administer released Sabbatic funds) to timely release of funds to the scholar and submit reports to BARC in accordance with stated terms of the Sabbatic.
3. Sabbatic researcher will exercise control over his budget and research maintaining and submitting records and reports as defined in the Sabbatic program.

8. Accountability:

Researcher on Sabbatic will provide BARC with following on BARC supplied formats:

1. Sabbatic Research Application & Proposal, Work Plan & Budget-Annex IX
2. Quarterly Financial Reports - Annex -III
3. Field Evaluation Report - Annex IV
4. Project Terminal Report - Annex VI

Senior Staff International Travel

Introduction:

Research Project Phase II in recognition of the importance for senior staff to attend conferences abroad and benefit from study/observation tours has provided funding assistance. Consistent with the aim to increase the effectiveness of agricultural research necessary for development of appropriate agricultural technologies for Bangladeshi farmers specific objectives for senior staff International Travel are provided.

Objectives:

1. To enable senior staff attend conferences/seminars relevant to the core disciplines which will assist wise and systematic implimentation of Phase II.

2. To develop understanding of mutual problems and resolution strategies effective in strenghtening the research system including research management.

3. To encourage observation/study of both experiment station and on farm research, training and the successful transfer of improved technology.

Selection Criteria and Percent Allocation:

The following criteria provide a guide in the selection process for the senior staff International Travel program:

Acknowledged good performance of candidate in the Research System and importance of conference/study tour in terms of Phase II objectives .

2. Relevance and urgency of International Travel in terms of System management, coordinated research program, and/or support service assignment.

3. Degree to which the International Travel assists maintain an acceptable Institution/Agency and/or regional distribution in conferences and study tours abroad.

4. The anticipated success by which conference/study leave abroad will further improve senior staff performance.

For convenience nine broad categories may be used in allocating support for senior staff International Travel.

<u>Category:</u>		<u>Per Cent Allocation</u>
Research Management	...	10
Socio-Economics	...	10
Farming System	...	15
Crop Science	...	15
Soil and Water Management	...	20
Pest Management	...	5
Support Services/Monitoring	...	5
Agricultural Engineering	...	10
Miscellaneous	...	10
		<u>100</u>
		=====

Administration:

All travel proposals by Bangladeshi Officers will be initiated by BARC. In consultation with the Project Supervisor, the BARC Executive Vice-Chairman and USAID shall jointly approve in advance all Bangladeshi senior staff International Travel.

The Executive Vice-Chairman will administer and manage the senior staff travel program with assistance from Project Supervisor and ISSCC.

Brief reports will be required of participants in the International Staff Travel Program which identify issues, information and experience acquired during travel. Such reports are to be deposited with the Executive Vice-Chairman within 15 days upon participants return to Bangladesh.

Budget:

The International Travel annual and five year budget is presented in Table 1 while Table 2 details estimated reallocation of funds according to given category.

Table 1: International Travel Annual and Five Year Budget

(US\$ 000)

Category	PROJECT YEARS					Total
	1	2	3	4	5	
Senior Staff Conferences/ Workshops	13	15	20	20	15	83
Senior Staff Study and Observation	12	15	20	20	15	82
TOTAL:	25	30	40	40	30	165

Table 2: Reallocation of International Travel Funds
According to Subject Area Category

(US\$ 000)

Category	PROJECT YEARS					Total
	1	2	3	4	5	
Research Management	2.5	3	4	4	3	16.5
Socio-Economics	2.5	3	4	4	3	16.5
Farming System/ Crop Science	3.75	4.5	6	6	4.5	24.75
Soil and Water Management	3.75	4.5	6	6	4.5	24.75
Pest Management	5	6	8	8	6	33
Support Services/ Monitoring	1.25	1.5	2	2	1.5	8.25
Agriculture Engineering	1.25	1.5	2	2	1.5	8.25
Miscellaneous	2.5	3	4	4	3	16.5
	25	30	40	40	30	165

The BARC
In Country Workshop, Seminar and Short Course Training Program

Introduction;

An effective research system has not been achieved until findings from research have been adopted by the farmer. Gaps between research and farmer on the one hand and experiment station and farm yields on the other, constrain agricultural productivity. In country training will concentrate efforts to close this gap by strengthening the research extension linkage, providing skills in practical on farm testing and developing different teaching/demonstration techniques. To accelerate transfer of improved technology generated in a farming system perspective and centred on Project II core research projects, in country training will utilize a variety of mechanisms, that include training of extension officials, packaging technology, developing subject matter specialist competencies and providing innovations for technical dissemination. Workshops, Seminars, short courses and field trips will provide opportunity for the farmer and researcher to alternate as teacher.

Aim and Objectives:

In service training is multi-purpose namely, to develop competencies in management, research, extension and support services as well as farmer training by providing a variety of teacher-learning situations that will accelerate adoption of improved technology.

Specific Objectives:

Based on the farming system approach and component nine core disciplines the thrust of inservice training will be to:

1. Provide extension and selected farmers opportunity in mastering knowledge, farm skills and alternative cropping systems to increase production and farm income.
2. Demonstrate relevant experiment station research and on farm testing projects to farmers, extension officials and leaders of rural development programs.
3. Improve interagency understanding and performance in their respective roles of planning, problem diagnosis/resolution and technology transfer.
4. Develop packages of improved technology through strengthening links among Research Extension and support services.
5. Establish and maintain continuous monitoring and evaluation of research and farm testing that ensures achievement of Research Project II goals.

Scope:

Within the context of farming systems and the nine core disciplines identified, inservice training will involve different audiences, at selected times and locations. The teacher learning situations for seminars, workshops short-courses and field trips will vary accordingly (farmer, extension official, researcher etc) as will training objectives.

Organization and Management:

Planning for specific in service training will be the responsibility of the appropriate BARC member-director assisted by specialist/consultants. Scientists and/or personnel from participating institute(s)/agency in

cooperation with the member director(s) will prepare on prescribed BARC Inservice Training Format (Annex XI) the inservice training particulars (including budget) which is synchornized with the schedule presented in figure I. This schedule reflects emphasis given to Project II core discipline areas and annual budget dispersement constraints provided in the Research Contract. Reviews, recommendations and approval of all inservice training will be subject to the same procedures required of Research Project.

The BARC Training Cell will provide logistical support as required and assist coordinate the Inservice Training Program. Information specialists will, where possible, assist multidisciplinary scientists and other officials in developing multi-media instruction materials for scheduled inservice training.

Figure: I In-country Training Schedule of Workshops, Conferences & Seminars

Training Category	Average No. of Workshops per year	Average days per workshop	Average cost per workshop	Average yearly cost	Total workshops for 5 years	Total cost	PROJECT YEARS																								Total No. of Workshops
							Months of Years 1, 4 & 5												Months of Year 3												
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crop Sciences:																															
Agronomy	1	3	1,200	1,200	5	6,000																									
Coarse Grain	1			1,200	5	6,000																									
Horticulture	1			1,200	5	6,000																									
Specialized	2			2,400	10	12,000																									
SUB-TOTAL:	5			6,000	25	30,000																									
Soil Management:																															
Soil Fertility	1	"	"	1,200	5	6,000																									
Soil Plant Analysis	1			1,200	5	6,000																									
Specialized	1			1,200	5	6,000																									
SUB-TOTAL:	3			3,600	15	18,000																									

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ANNEX I

BARC Form No. P-1	Bangladesh Agriculture Research System RESEARCH PROPOSAL 1/		Prepared by : Name : Date :
To be filled up by BARC	Research Code		
PROJECT IDENTIFICATION DATA			
Project Title :	<input type="checkbox"/> Coordinated	<input type="checkbox"/> Independently Implemented	
Sub-Project Titles :			
To be filled up by BARC	Commodity	Priority Area	Priority Rank
Proponent Agency :			
Implementing Research Station(s)/Unit(s):			
Coordinator/Project Leader : Designation/Title Mailing Address :			
Principle Investigator : Designation/Title : Mailing Address :			
Submitted by :		Endorsed by Agency Head :	
Signature :			
Name			
Designation/Title			
Date			

1/ To be accomplished by proponent and submitted to BARC in 5 copies

Best Available Document

PROPOSAL CONTENT

A. Detailed Writings:

1. Importance/Significance of Research Work

2. Literature Review

3. Objectives

4. Methodology

5. Budgetary Needs

6. Bibliography

WORK PLAN SUMMARY			
WORKPLAN SUMMARY			
Planned Project Life (in months):			
Planned Starting Date:		Planned Completion Date:	
Major Activity No.	Studies or Major Activities	Duration (Months)	Planned Cumulative % Completion
			Year 1. _____ % 2. _____ % 3. _____ % 4. _____ % 5. _____ %
ACTIVITY CHART			
	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36		

BUDGET ESTIMATE
PERIOD: _____

LINE ITEM	YEAR - 1					YEAR-2	YEAR-3	TOTAL
	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Total			
1	2	3	4	5	6	7	8	9
OPERATIONAL EXPENSES:								
a. Salary & Allowance								
b. Office Supplies/ Services								
c. Travel & Transportation								
d. Fuel, Oil & Maintenance								
e. Field Research Expenses								
f. Contingencies								
SUB-TOTAL:								
CAPITAL EXPENSES:								
a. Furniture								
b. Equipment								
c. Motorcycle/ Bicycle								
d. Vehicle								
SUB-TOTAL:								
GRAND TOTAL:								

PREPARED BY _____

APPROVED BY _____

DETAILS OF CAPITAL EXPENSES

LINE ITEMS 1	SPECIFICATIONS 2	QUANTITY 3	UNIT PRICE 4	YEAR-1					YEAR-2 10	YEAR-3 11	TOTAL 12
				Qtr. 1 5	Qtr. 2 6	Qtr. 3 7	Qtr. 4 8	Total 9			
A. Furniture											
1.											
2.											
3.											
SUB-TOTAL											
B. Equipments											
1.											
2.											
3.											
SUB-TOTAL											
C. Moto cycle/Bicycle											
1.											
2.											
3.											
SUB-TOTAL											
D. Vehicle:											
1.											
2.											
3.											
SUB-TOTAL											
SUB-TOTAL											

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Contract Research Budget by Categories
For 1981 - 83

A. Contract Research
(Operational Funds)

<u>Category</u>	<u>(July'81 to June'82)</u>		<u>Year in US\$000</u>			<u>Total</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
Contract Research	50	100	150	100	50	450
Monitoring/Evaluation		4		4		8
1. Farming System (on farm trials)	10	20	<u>To be assessed during 1982</u> <u>after Contract Ammendment</u>			
2. Pest Management	7.5	15				
3. Crop Sciences	12.5	25				
4. Livestock Sciences	2.5	5				
5. Econ., & Soc., Science	7.5	15				
6. Soil Management	7.5	15				
7. Water Management	2.5	5				
Sub Total	50.0	100				

B. Commodities:

<u>Category</u>	<u>Years in US\$000</u>					<u>Total</u>	
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>		
Bangladesh Total (Contract Phase II)	(480)	(620)				1400	
Farming Systems (on farm trials)	30.00	44	<u>To be assessed during</u> <u>1982 after Contract</u> <u>Ammendment</u>			110.00	
Crop Sciences	17.00	22					55.00
Pest Control (Ent., and Pathology)	3.00	3					6.00
Econ., & Soc., Sciences	34.00	46					113.00
Soil Management	3.00	4					10.00
Water management	33.00	44					110.00
	120.00	163					404.00

Note:

1. Motor Cycle/Bicycles : Project has US\$40,000 Total for Year 1 Budgeted
2. Agricultural Engineering approved projects supporting the above major programs will be funded from the above categories (1 - 7)

Budget for Contract Research and Commodities

1. The Contract Research budget of US\$450,000 for five years with annual dispersments are presented in table 1 together with a proposed funding for the seven core disciplines identified in the contract agreement. Funding has been allotted according to Research Project II emphasis and/or the potential for necessary funds from other sources. (Table I). Some US\$80,000 in the project agreement has been identified for monitoring and evaluation of which 10 per cent has been allotted to Contract Research. Contract Research Funds would be primarily to support operational expenditures in approved projects. Table 1 presents the proposed contract research budget for the first two years (1981-82 and 1982-83) based on the Research Project II Contract USAID dispersment schedule. Pending the proposed contract ammendment an updated budget will be presented during 1982.
2. Commodities for laboratory and field equipment to be used in approved Contract Research Projects by participating institutes will be funded from the Research Project II Commodity Account. Table 1 presents a proposed commodity budget for this purpose. Project Paper annex O pages 4 to 7 has provided the basis for computing this commodity budget for contract Research. The 480 and 620 represents about 30% and 40% release of contract commodity budget during year 1 and year 2 respectively. It is assumed that 50 percent (100% for data processing) of laboratory/field experiment equipment will be delegated to Contract Research as reflected in the commodity item above budget with annual dispersement for year 1 and year 2 at 30% of total commodity budget.

BARS Form No.1-1

QUARTERLY FINANCIAL REPORT
For the Period _____ to _____ 19____

1. Code and Name of Project _____ :
2. Name of Centre/Sub-centre/
Institute/Organization _____ :
3. Name of the Principal Investigator _____ :
4. Cost of the Scheme _____ :
5. Duration of the Scheme _____ : From Month _____ Year _____ to Month _____ Year _____

LINE ITEM	BUDGET	AMOUNT RELEASED			EXPENDITURE INCURRED			REMARKS	
	Current Financial Year	Current Quarter	Financial Year (FY) Start to Date	Project Year Start to Date	Current Quarter	Financial Year (FY) Start to Date	Project Year Start to Date		
1	2	3	4	5	6	7	8	9	
	Taka	Taka	Taka	Taka	Taka	Taka	Taka	10	
OPERATIONAL EXPENSES:-									
a. Salary & Allowance									
b. Office Supplies & Services									
c. Travel & Transportation									
d. Fuel, Oil & Maintenance									
e. Field Research Expenses									
f. Contingencies									
SUB-TOTAL									
CAPITAL EXPENSES:-									
a. Furniture									
b. Equipment									
c. Motorcycle/Bicycle									
d. Vehicle									
SUB-TOTAL									
GRAND TOTAL									

Prepared By: _____

Audited By: _____

Concurred By: _____

Best Available Document

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DARS		Prepared by:	
Form No. E-2	Bangladesh Agriculture Research System	Name	
Page No. 1 of 2	FIELD EVALUATION REPORT ^{1/}	Date	
PROJECT IDENTIFICATION DATA (To be filled up by DARS).			
Research For the Period		Code ¹	
Research Title:			
Implementing Agency/Research Station or Unit:			
Funding Agency:			
Research Leader/Designation:			
WORK PLAN SUMMARY			
Date Planned Start:		Date Actual Start:	
Date Planned Completion:		Date Actual or Expected Completion:	
Total Budget		Budget Released to Date	
A. EVALUATORS' SUMMARY			
CONCLUSIONS/RECOMMENDATIONS:			
1. Technical Achievement	<input type="checkbox"/> Excellent	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory
2. Adherence to Schedule	<input type="checkbox"/> Excellent	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory
3. Adherence to Budget	<input type="checkbox"/> Excellent	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory
<input type="checkbox"/> Continue	<input type="checkbox"/> Integrate	<input type="checkbox"/> Suspend	<input type="checkbox"/> Terminate
Further Remarks:			
Date of Field Visit:			
Persons Interviewed		Designation/Agency	
Evaluator(s)		Designation/Agency	Signature

^{1/} This report will be accomplished and submitted in 3 copies to by an evaluator to be appointed by DARS, preferably the same person who evaluated the proposal. Field evaluation should be done in the middle of each cropping season, once or twice a year but before preparation of the annual progress report.

B. TECHNICAL ACHIEVEMENT		
Criteria	Findings in Terms of Objectives	
1. Adherence to Planned Work Scope and Methodology		
2. Highlights of Technical Accomplishments	In terms of Activities as in Proposal	
3. Factors for Project Success		
1. Adherence to Schedule		
2. Adherence to Budget		
C. ACTION REQUIRED TO IMPROVE PERFORMANCE		
Problem/Opportunity	Action Required	Resource Required (if any)

BARS Form No. 11-3 Page No. 1 of 2	Bangladesh Agriculture Research System ANNUAL PROGRESS REPORT ^{1/}	Prepared by: Name Date
Project Identification Data		
Research Code	For the Period	
Research Title:		
Implementing Agency/Research Station or Unit:		
Funding Agency:		
Research Leader/Designation:		
WORK PLAN SUMMARY		
Date Planned Start:	Date Actual Start:	
Date Planned Completion:	Date Actual or Expected Completion:	
Total Budget	Budget Released to Date	
Budget for Current Year	Budget Released for Current Year	
ACCOMPLISHMENT AND PLANNED ACTIVITIES (Use additional sheets if needed)		

^{1/} This report will be accomplished annually by research leader and submitted in 5 copies to appropriate BARS Member-Director. The financial data will be provided by the project accountant.

MENU ACTIVITY SCHEDULE STATUS							
Activity No.	Completion	Date of Completion		Duration			Problems Encountered/Action Taken
		Planned	Actual	Planned	Actual	Variance	

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IARS Form No. II-3 Page No. 1 of 2	Bangladesh Agriculture Research System PROJECT TERMINAL REPORT	Prepared by: Name Date
Project Identification Data		
Research Code	For the Period	
Research Title:		
Implementing Agency/Research Station or Unit:		
Funding Agency:		
Research Leader/Designation:		
WORK PLAN SUMMARY		
Date Planned Start:	Date Actual Start:	
Date Planned Completion:	Date Actual or Expected Completion:	
Total Budget	Budget Released to Date	
Budget for Current Year	Budget Released for Current Year	
ACCOMPLISHMENT AND PLANNED ACTIVITIES (Use additional sheets if needed)		

The BARC
In-Country Research Scholarship
Application & Proposal

ANNEX VII

1. Name of Applicant(s):
2. Present Post and Address:
3. Institute/University where scholarship will be utilized:

4. Approval of candidate's supervisor:

Approval of Your Director/Vice-Chancellor:

Name:

Title:

Approval of Director/Vice-Chancellor where
Research/Training will be done

Name:

Title:

5. Synopsis of proposed research:
6. Scholar will be required to execute a guarantee bond with BARC that during Tenure of Scholarship he will not be eligible to apply for training elsewhere.

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BARC Form No. P-1	Bangladesh Agriculture Research System RESEARCH PROPOSAL 1/	Prepared by : Name : Date :	
To be filled up by BARC	Research Code		
PROJECT IDENTIFICATION DATA			
Project Title : Sub-Project Titles :	<input type="checkbox"/> Coordinated	<input type="checkbox"/> Independently Implemented	
To be filled up by BARC	Commodity	Priority Area	Priority Rank
Proponent Agency :			
Implementing Research Station(s)/Unit(s):			
Coordinator/Project Leader : Designation/Title Mailing Address :			
Principle Investigator : Designation/Title : Mailing Address :			
Submitted by :		Endorsed by Agency Head :	
Signature :			
Name			
Designation/Title			
Date			

1/ To be accomplished by proponent and submitted to BARC in 5 copies

WORK PLAN SUMMARY			
WORKPLAN SUMMARY			
Planned Project Life (in months):			
Planned Starting Date:		Planned Completion Date:	
Major Activity No.	Studies or Major Activities	Duration (Months)	Planned Cumulative % Completion
			Year 1. _____ % 2. _____ % 3. _____ % 4. _____ % 5. _____ %
ACTIVITY CHART			
	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36		

BUDGET ESTIMATE
PERIOD: _____

LINE ITEM	YEAR - 1					YEAR-2	YEAR-3	TOTAL
	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Total			
1	2	3	4	5	6	7	8	9
OPERATIONAL EXPENSES:								
a. Salary & Allowance								
b. Office Supplies/ Services								
c. Travel & Transportation								
d. Fuel, Oil & Maintenance								
e. Field Research Expenses								
f. Contingencies								
SUB-TOTAL:								
CAPITAL EXPENSES:								
a. Furniture								
b. Equipment								
c. Motorcycle/ Bicycle								
d. Vehicle								
SUB-TOTAL:								
GRAND TOTAL:								

PREPARED BY _____

APPROVED BY _____

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ANNEX VIII

Incountry Research Scholarship Budget
Percent Allocation, Stipend and Contingencies

<u>Degree</u>	<u>Percent No. Allocation</u>	<u>Monthly Stipend</u>	<u>Yearly Stipend</u>	<u>No.</u>	(Amount in Taka)
					<u>Total</u>
Ph.D (3.5 Years)	25	1,500	18,000	6	378,000
M.S. (1.5 Years)	75	1,000	12,000	18	324,000
				24	
*Contingencies (Tk. 7,000/Scholarship maximum)					72,000
					Tk. 774,000

Based on the above formula there would be a maximum of 25 scholarships with the present allocated US\$ 50,000 or ($\$50,000 \times \text{Tk. } 16$) = Tk. 800,000. This is subject to change based on inflation factors and as agreed upon by the Project Advisory Committee with BARC. Scholarship-holders on deputation for study leave will get his/her salary as admissible under rules from the employing agencies.

Further contributions beyond the US\$ 50,000 Project Phase II year (1) present allocation will be encouraged depending upon the initial Research Scholarship Fund success.

The BARC
Sabbatic Application & Proposal

1. Name of Applicant(s) Address

2. Institute/University or Centre
where Sabbatic will be taken

3. Approval of Agencies:
 - a. Present Agency Head:

 - b. Sabbatic Year Agency Head

4. Synopsis of Sabbatic Research:

5. Scholar will be required to execute a gurantee bond with BARC that during Tenure of Scholarship he will not be elegible to apply for training elsewhere.

BARC Form No. P-1	Bangladesh Agriculture Research System RESEARCH PROPOSAL 1/	Prepared by : Name : Date :	
To be filled up by BARC	Research Code		
PROJECT IDENTIFICATION DATA			
Project Title : Sub-Project Titles :	<input type="checkbox"/> Coordinated	<input type="checkbox"/> Independently Implemented	
To be filled up by BARC	Commodity	Priority Area	Priority Rank
Proponent Agency :			
Implementing Research Station(s)/Unit(s):			
Coordinator/Project Leader : Designation/Title Mailing Address :			
Principle Investigator : Designation/Title : Mailing Address :			
Submitted by :		Endorsed by Agency Head :	
Signature :			
Name			
Designation/Title			
Date			

1/ To be accomplished by proponent and submitted to BARC in 5 copies

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WORK PLAN SUMMARY			
WORKPLAN SUMMARY			
Planned Project Life (in months):			
Planned Starting Date:		Planned Completion Date:	
Major Activity No.	Studies or Major Activities	Duration (Months)	Planned Cumulative % Completion
			Year 1. _____ % 2. _____ % 3. _____ % 4. _____ % 5. _____ %
ACTIVITY CHART			
	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36		

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BUDGET ESTIMATE

PERIOD: _____

LINE ITEM	YEAR - 1					YEAR-2	YEAR-3	TOTAL
	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Total			
1	2	3	4	5	6	7	8	9
<u>OPERATIONAL EXPENSES:</u>								
a. Salary & Allowance								
b. Office Supplies/ Services								
c. Travel & Trans- portation								
d. Fuel, Oil & Maintenance								
e. Field Research Expenses								
f. Contingencies								
SUB-TOTAL:								
<u>CAPITAL EXPENSES:</u>								
a. Furniture								
b. Equipment								
c. Motorcycle/ Bicycle								
d. Vehicle								
SUB-TOTAL:								
GRAND TOTAL:								

PREPARED BY _____

APPROVED BY _____

Estimated Sabbatic Research Program
Annual Budget for Each of Five Years

A. In country Budget	<u>Taka</u>	<u>US\$</u>
Operational Expenses:		
Subsistence allowance		4,000
Travel		1,000
Rent/Utilities		2,000
Book and Printed Material		1,500
Miscellaneous		1,500
		<u>10,000</u>
		=====
B. International Centre Budget		
Operational Expenses:		
		<u>US\$</u>
Subsistence Allowance		10,000
Travel		3,000
Rent/Utilities		3,000
Books and Printed Materials		2,000
Miscellaneous		2,000
		<u>20,000</u>
		=====

A letter of request from BARC for ammendment to provide alternative Sabbatic at International Centres for one Participant annually is forthcoming.

The BARC
Seminar/Workshop/Short Course/Field Trip
In Service Training Formate

Title of Training

Principal Leader

address

Cooperating Instructors:

address

Audience and Estimated No.

Unit Objectives:

Justification

Methodology/Teaching Aids

Location: _____

Dates _____

Initiation _____

Termination _____

Estimated Budget

Operational Expenses:

Approximate Taka:

1. Honorarium	6,000 ^{1/}
2. Travel and Transportation	3,000 ^{2/}
3. Utilities/Rental	3,500
4. Printed Material	3,000
5. Office Supplies	2,500
6. Miscellaneous	2,400
<u>Sub Total</u>	<u>20,400^{3/}</u>

Capital Expenses: (From Commodity Account)

7. Equipment
8. Furniture
9. Other (give details)

Sub TotalGrand TotalNotes:

- 1/ 20 persons @ Tk.100/person/day
for 3 days = 20 x 100 x 3 = 6,000
- 2/ 5 Vehicles @ 4 gal. each/day
for 3 days 5 x 4 x 3 = 60 gal.
@ Tk. 50/gal 3,000
- 3/ Tk. 20,400 = US\$1,200 @ conversion
rate of Taka 17.00

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COMMODITY BUDGET FOR IADS SPECIALIST

ANNEX-XII

Category	PROJECT YEAR					TOTAL
	1	2	3	4	5	
Research Management	159,450	240,500	69,700	30,350		500,000 ^{1/}
Farming System	70,150	105,800	30,650	13,400		220,000
Economics and Social Science	49,450	74,550	21,600	9,400		155,000
Information/Library	68,550	103,400	30,000	13,050		215,000
Crop Research	84,500	127,450	36,950	16,100		265,000
Livestock Research	12,800	19,300	5,700	2,200		40,000
Soil Management	23,900	36,150	10,450	4,500		75,000
Water Management	70,150	105,800	30,650	13,400		220,000
Pest Management	20,800	31,300	9,100	3,800		65,000
Land Development	46,250	69,750	20,200	8,800		145,000
TOTAL :	606,000	914,000	265,000	115,000		1,900,000 ^{2/}

^{1/} IADS Household and Office Equipment and Vehicles

^{2/} Total Project Phase-II Commodity Budget is \$1,900,000

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