

AIRGRAM

DEPARTMENT OF STATE

Proj. No. 62-10 050 (2)
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UNCLASSIFIED

CLASSIFICATION

A.I.D. PD-AAB-241-
Reference Center B1
Room 1686 NS

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INFO

TO - AID/W TOAID A-196 X

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September 30, 1969

DISTRIBUTION

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FROM - DAR ES SALAAM

SUBJECT - Non-Capital Project Paper, Proposed Project

REFERENCE - M.O. 1025.1

NON-CAPITAL PROJECT PAPER (PROP)

I. Standard Identifying Information:

Country: Tanzania

Submission Date: September 3, 1969

Project Title: Technical Education

Project Number: 621-11-660-050

U.S. Obligation Span: FY 1965 through FY 1970

Gross Life of Project Financial Requirements: U.S. Dollars \$1,993,000

of which \$440,000 remains to be funded. See page 5.

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PAGE 1 OF 3 PAGES 3

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| DRAFTED BY WAWhitten:mm | OFFICE ED | PHONE NO. | DATE 9/3/69 | APPROVED BY: DIR: Charles J. Nelson |
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AID AND OTHER CLEARANCES

PO: CAward

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II. Summary Description:

The background and progress of this project to date are fully described and evaluated in the PAR dated June 30, 1969. Consequently, this PROP presents only those proposed activities required to complete the project successfully by 1971.

A. Justification

Technical Education in Tanzania and in East Africa is still in its infancy. Secondary Technical Schools and technical colleges are staffed predominately by expatriates. Also, industry positions, particularly at the engineering level and at many sub-professional technician levels, continue to be filled largely by non-citizens. More important, the demand for adequately trained nationals to fill these positions far exceeds the supply.

Tanzania's manpower projections for its Second Five-Year Plan (1969-1974) calls for 980 engineering technicians and 34 laboratory technicians or a total of 1,064 middle-level technicians during the Plan period. The Dar Technical College is the nation's sole resource for training technicians at this level and even at peak performance it will not be able to meet the nation's total technical in-training needs. To close the gap, Tanzania plans to begin a second Technical College, probably in the Mwanza area, and to establish an engineering faculty at the University College Dar during the Second Five-Year Plan period.

For the above reason, the continuation and upgrading of the Dar Technical College is essential as the project cannot only continue to assist in producing technicians but also serve as a nucleus to help shape the further development of technical education in Tanzania.

B. Projective Objectives

The purpose of this project has been to effect basic institution building in the Dar Technical College. Notable accomplishments have occurred in curriculum development and regular classroom instruction. However, progress to date has been minimal and unsatisfactory in observable growth toward institutional maturity. Consequently, during the remaining period (FY 1970-1971), the project will focus more directly on strengthening the management staff and planning capability of the College to enable it to fill more completely the role in Technical Education assigned to it by the Government of Tanzania.

The specific activity targets have now become:

- (1) to establish an administrative and planning facility within the College capable of effecting a creative and self-generative management operation with the flexible qualities essential to meeting/education needs of developing Tanzania.
technical.

(2) To continue in the development and improvement of an academic program which includes operational departments of instruction in civil, mechanical and electrical engineering and a pertinent curriculum and instructional program that is consonant with Tanzania's training needs.

(3) In carrying out the above, develop an output capacity for graduating 100 qualified Tanzanian technicians annually by 1973.

(4) To train a cadre of Tanzanians through participant and in-service training to replace all U.S. instructors at the College and to provide some assistance in expanding and nationalizing College staff.

C. Minimum Levels of Output Required

Though some aspects of project implementation have been retarded in the past, overall output performance of the College is sufficient to merit continued AID participation throughout project duration subject to the following priority activities mutually agreed to by the Ministry, USAID/T and the Contractor:

(1) That the contractor develop a long-range Master College Plan for use by the Ministry during the Second Five-Year Plan period 1969-1974.

(2) That the Master Plan be divided into annual operational Work Plans to cover the duration of the project.

(3) That the above plans include the following elements: a Physical Plant Utilization Plan, a feasible academic plan which coordinates the ordinary Diploma, the H.S.C. Program, and the other courses offered by the College, and an effective staff training plan at Dar Technical to meet its recurring staff and instructional needs.

~~(4) That the contractor develop a long-range Master College Plan for use by the Ministry during the Second Five-Year Plan period 1969-1974.~~

D. General Approach

To achieve the revised output targets set for this project, it will be necessary to continue and expand the following activities which four comprise the course of action in Part V: (1) college management and administration; (2) academic departmental organization and administration; (3) curriculum and instruction; and (4) staff training.

E. Summary of Project Inputs

(1) AID Inputs

Personal Services. The bulk of AID assistance in this project consists of personnel (contract) services. In 1965, the first group of four U.S. instructors were assigned to the College and team strength reached a peak of seven

in 1963. A total of 18 resident contract personnel have served or are now serving at the College since project inception.

The contractor will furnish 7 U.S. engineers through July 1970, and 4 engineers between July 1970 and July 1971. One specialist will then be continued through May 1972 to assist with the in-service training of returned participants, and advise in overall College administration and supervise an orderly phase-out of project activities. Additional short-term consultants will be provided as needed.

Contract Staff Assigned to Dar Tech

| <u>Name</u> | <u>Specialty</u> | <u>Duties</u> | <u>Arrival</u> | <u>Departure</u> |
|------------------|------------------|------------------|----------------|------------------|
| 1. Belcher | Electrical Eng. | Dept. Head (COP) | Apr. 1965 | July 1967 |
| 2. Sherman | Business Mgt. | Dept. Head | Apr. 1965 | Dec. 1966 |
| 3. King | Civil Eng. | Dept. Head | May 1965 | July 1967 |
| 4. Wolpert | Mechanical Eng. | Dept. Head | Aug. 1965 | Aug. 1967 |
| 5. Wassal | Mechanical Eng. | Instructor (COP) | July 1966 | July 1968 |
| 6. Sutton | Electrical Eng. | Instructor | July 1966 | July 1968 |
| 7. Mylander | Mechanical Eng. | Dept. Head | July 1967 | July 1969 |
| 8. Bruns | Electrical Eng. | Dept. Head (COP) | July 1967 | July 1969 |
| 9. Ogle | Civil Eng. | Dept. Head | Aug. 1967 | July 1969 |
| 10. Smith | Industrial Eng. | Instructor | Aug. 1967 | July 1969 |
| 11. Allen* | Industrial Eng. | Zanzibar | Aug. 1968 | Aug. 1969 |
| 12. Jarrett | Civil Eng. | Instructor | Aug. 1968 | July 1970 |
| 13. Nesin | Mechanical Eng. | Dept. Head | Aug. 1968 | July 1970 |
| 14. Schoenwetter | Electrical Eng. | Dept. Head (COP) | Aug. 1968 | July 1970 |
| 15. Subbiondo | Civil Eng. | Dept. Head | July 1969 | July 1971 |
| 16. Fillhart | Civil Eng. | Instructor | June 1969 | July 1971 |
| 17. Wolf | Electrical Eng. | Instructor | July 1969 | July 1971 |
| 18. Mellard | Mechanical Eng. | Instructor | June 1969 | July 1971 |
| 19. Smith | Consultant | Zanzibar | Sept. 1969 | July 1971 |

* Ray Allen, Equipment Specialist, provided for Zanzibar Technical College, was funded under this project and contract for administrative reasons. Richard Smith completed a two-year tour at Dar Technical and has been assigned to a one-year tour at Zanzibar Tech as a consultant during the phase-out of that project.

Commodities. AID commodity inputs have been minimal consisting mainly of limited equipment, books and materials required for upgrading the instructional program. Also, a 29-passenger bus was supplied to provide student transportation for field trips and visits to industrial sites.

Participant Training. Fourteen Tanzanian participants were sent to Cal Poly for degree training; one was returned in 1969 for medical reasons. Of

the 13 remaining, 3 will return in 1969, 6 in 1970, and 4 in 1971. All are bonded to serve at the College upon the completion of their U.S. training.

(2) Other Donor Inputs

The campus and facilities of Dar Tech, provided mainly by the U.K., are valued at approximately \$1 million and were opened initially in 1957. The Government of Canada has been primarily responsible for the development and implementation of the crafts program located at Dar Tech during 1962-67. They provided approximately \$175,000 in equipment for this program which during the time it was in operation constituted the largest enrollment of any course at the College. In 1963 the total crafts program, including 6 Canadian staff and the bulk of Canadian equipment, was transferred to another location to provide space for expanding the diploma and other middle-level technical programs.

(3) Life of Project Funding

The table below includes actual funding cumulative through June 30, 1969 as shown in U-203 report of June 30, 1969. Estimated costs for FY 70 ~~and proposed through FY 71~~ are based on the contractor's budget. Funding will be complete for this project in FY 7).

U.S. Dollars (000's)

| | <u>Cumulative thru 6/30/69</u> | <u>FY 70</u> | <u>Total</u> |
|-------------------------|------------------------------------|--------------|--------------|
| Personal - Contract | 1,037 | 431 | 1,518 |
| Participants - Direct | 11 | - | 11 |
| Participants - Contract | 231 | 17 | 248 |
| Commodities - Direct | 34 | - | 34 |
| Commodities - Contract | 46 | - | 46 |
| Other Costs | <u>34</u> | <u>52</u> | <u>136</u> |
| Total | <u>1,443</u> | <u>550</u> | <u>1,993</u> |

The Mission has included estimated obligations required to complete funding of the Cal Poly contract in FY 1970 in accordance with the CP final obligation rate. The funding requirement is based on the contractor's budget prepared in June 1969 for the period through 12/31/71 plus an estimated \$20,000 to continue one technician until final phase-out in June 1972. Billing information available in the Mission is inadequate to permit calculation of alternative funding requirements and recruitment lag time would make no appreciable difference since personnel have already arrived on schedule. Since the estimated FY 70 requirements of \$550,000 are significantly above both the CP

and PBS levels and would require more than 25% of the estimated OYB availabilities, the Mission requests that consideration be given to extending the final obligation date to FY 1971 with funding of \$394,000 being provided to carry the contract to March 31, 1971, and the additional requirement of \$156,000 being added in FY 1971. Otherwise, it may be necessary to defer ^{other} new project starts from FY 1970 to FY 1971. This proposal is being made to AID/W in a separate airgram.

F. Host Country Contribution

The Government of Tanzania through its Ministry of National Education has agreed to continue full support of the Dar Technical College during and subsequent to the period of AID assistance. More specifically the Ministry will continue to provide:

- (1) Housing, hard furnishings, utilities and office space for contract personnel assigned to the College.
- (2) Qualified candidates for replacement staff training in the U.S.
- (3) Salaries and costs of international travel for participants in U.S. training.
- (4) Appropriate employment on the College staff for returned participants.

III. Setting or Environment:

The changes that have occurred in the host country environmental factors, which led to the initiation of this project in 1964, have served to increase the need for continuing the project. These changes are reflected in Tanzania's program of "Education for Self-Reliance" released in 1967 which is being implemented through the nation's Second Five-Year Plan. These documents, together with the PROP "Agricultural Education for Secondary Schools" dated August 3, 1969, provide a full description of the environmental conditions affecting this project and are available in Aid/Washington.

IV. U.S. Strategy:

AID strategy for the implementation of this project was developed in 1964. No major change or alteration of this strategy is needed during project life. The proposed changes contained herein reflect only a shift in emphasis which is well within the project's original intent and scope of work. Moreover, these changes are designed primarily to enhance the present and future effectiveness of the Dar Technical College and to increase the potential contribution of the project as conceived at inception. For a comparison of proposed changes, see CAPs 1964-66 and PBS FY 70.

V. Course of Action:

The following course of action is essentially the same as utilized in previous implementation actions with the exception that it gives more emphasis to the institutional development aspects.

It is necessary to continue four activities to complete this project on schedule. They are:

(1) College Management and Administration. The lag in notable growth toward institutional maturity at present is traceable primarily to the expatriate administration and staffing of the College. Many of these foreign staff were minimally qualified for their tasks and most were personally uncommitted to the long-range development of the College. Rapid staff turnover has impeded the continuity of the College program. Also, the absence until recently of a technical education specialist on the Ministry staff has been a further drawback.

Prospects are good for resolving these negative conditions. Already, the Ministry has installed a Tanzanian principal who appears to be a capable administrator. Furthermore, the Ministry has added a Ford Foundation technical education advisor to its staff, and has requested USAID/T to prepare a detailed development plan for its guidance during the Second Five-Year Plan.

In response to these conditions and the specific Ministry request, AID will furnish a Liaison Officer for the remaining life of the project to work with the College principal, the Ministry, the USAID/T and contract personnel in:

- (a) Coordinating overall project activities.
- (b) Developing a Master College Plan to include annual work plans and systematic evaluation and reports.
- (c) Effecting a broad base of public support which may include a College Governing Board and/or a Board of Industry Representatives.
- (d) Establishing a staff training program within the College.
- (e) Providing advisory services to the College Principal as needed.

Also, AID, through the contractor, will provide short-term consultants to assist in accomplishing the above tasks.

(2) Academic Departmental Organization and Administration. Satisfactory progress has been made in the establishment of departments of instruction in civil, mechanical and electrical engineering. Remaining activities will

concentrate on improved procedures in staff assignments, class scheduling and departmental organization.

AID will continue to provide 3 U.S. engineers through July 1971 to serve as department heads or assist qualified Tanzanian replacements in this capacity.

(3) Curriculum and Instruction. The present curriculum for the three-year Diploma Program is a revision of the two-year City and Guilds Syllabus of London (C&G). This revision has proven to be more practical than the strict C&G course. However, additional research is needed to deal with the inadequate background of Tanzanian students who enter the College and to meet the particular training needs of Tanzanian industry, government and commerce.

Also, the College has been required to provide a variety of courses including the H.S.C. Program which at present constitutes considerable duplication and wasted effort. The Ministry has requested the contractor to prepare a coordinated plan which will eliminate this duplication.

AID, through the contractor, will continue to provide in addition to the Liaison Officer and the three department heads mentioned above, the services of three resident instructors until July 1970. These U.S. instructors together with other contract personnel will conduct the necessary research to update the curriculum and instructional program.

(4) Staff Training. Under AID financing, the contractor will continue the training of 13 Tanzanians who are now enrolled in degree courses at Cal Poly. Also, contract personnel will assist the College in establishing a continuing staff training program to meet future trained staff needs of the College.

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Department of State

TELEGRAM

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PAGE 01 STATE 188331

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DRAFTED BY: MARSHALL L. FIELDS AFR/ID/ED

APPROVED BY: AFR/ID: RLRUPARD

AFR/ID: SFUHR

AFR/ESA: PBUWEN PHONE

AFR/DP: WLEFES PHONE

DIST: 3D

ACTION: AFR

INFO: DSM GC PRR AAPC SRD 40P

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TO AMEMBASSY DAR ES SALAAM

UNCLAS STATE 188331

AIDAC

SUBJECT: TECHNICAL EDUCATION PROP, 621-11-660-050

REFERENCE: (A) TOAID A-196; (B) STATE 185164

TECH EDUC PROP, DSM PROPOSED MASTER PLAN, AND CAL POLY SKELETAL WORK PLAN REVIEWED PER REFTEL B. AID/W FINDS INSUFFICIENT JUSTIFICATION WARRANT PROJECT EXTENSION BEYOND FY 1970.

AID/W COMMENTS AND PARTIAL WORK PLAN BEING POUCHED. PRESUME USAID/T HAS RECEIVED MASTER PLAN. SUGGEST MISSION REVISE PROP IN LIGHT THESE COMMENTS AND DOCUMENTS. WILL RECONSIDER PROJECT EXTENSION IF ADEQUATE JUSTIFICATION IS PROVIDED.
ROGERS

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AIRGRAM

DEPARTMENT OF STATE

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TO - AmEmbassy, DAR ES SALAAM

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FROM - AID/W

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SUBJECT - Technical Education PROP, 621-11-660-050, Cal Poly Contract,
AID/afr-408

REFERENCE - (A) State 188331; (B) State 185164; TOAID A-196, 9/3/69;
(D) AIDTO A-83, 10/16/69

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AID/W has reviewed concurrently the Non-Capital Project Paper for Technical Education, Cal Poly Consultants Report on a Proposed Master Plan for Dar es Salaam Technical College, and a skeletal "work plan" for the Contract Team. The purpose of this Airgram is to convey AID/W views about the PROP and these related documents.

The PROP makes a case to extend the final contribution date from FY 1970 to FY 1971 in order to allow for the orderly termination of the project. However the PROP, together with the Proposed Master Plan, failed to identify specific targets which support the concept of institution building in terms of the project. Consequently it is difficult to determine exactly what the project targets are, let alone evaluate progress toward their achievement. Thus, we are at a loss in determining whether an extension is justified.

The attached "Partial Work Plan for the Cal Poly Team at Dar es Salaam Technical College" was submitted to AID/W subsequent to the receipt of the Proposed Master Plan. The purpose of the work plan was to identify those areas of responsibility indicated in the Master Plan which may be carried out by the Contractor during the remaining life of the contract. However, the information contained therein was found to be inadequate. The "work plan" together with the letter of transmittal is attached for your review.

PAGE 1 OF 2 PAGES

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|----------------------------------|---------------------|--------------------|------------------|-----------------------------------|
| DRAFTED BY Marshall L. Fields | OFFICE AFR/ID/ED | PHONE NO. 22947 | DATE 11/10/69 | APPROVED BY: AFR/ID, RL Dupard |
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AID AND OTHER CLEARANCES
AFR/ID, SFuhr
AFR/ESA, P Bowen (Subs)
AFR/DP, W Lefes (Draft)

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AID/W has these general comments about the Proposed Master Plan:

1. It fails to identify project objectives and the Contractor's role in the proposed activities.
2. It omits recommendations concerning the modus operandi of (a) the professional advisory committees and (b) the technical education advisory committees.
3. It does not indicate the readiness of the Tanzania Government to implement any or all of these activities.

Refair D indicated the need to reduce the team's teaching load. While this recommendation was not included in the Consultants' Report, it is implied in the attached letter of transmittal, paragraph 4. AID/W views that if the team is required to teach loads above the acceptable minimum, the project should be terminated as scheduled.

AID/W regrets the delay in responding on this subject; and suggests that the PROP be revised in the light of these comments, the Proposed Master Plan, and the attached documents. If justification is found to be adequate in the revised submission, AID/W will approve extension of the project.

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AIRGRAM

DEPARTMENT OF STATE

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A.I.D.
Reference Center
Room 1656 NS
DATE REC'D.

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TO - AID/W TOAID A-249 X

NOV 21 1969

FROM - DAR ES SALAAM

SUBJECT - Technical Education PROP, 621-11-660-050,
CalPoly Contract, AID/AFR-408

REFERENCE - REFS: (A) AIDTO A-101; (B) STATE 188331; (C) TOAID A-196

DATE SENT
November 26, 1969

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G.C.

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There appears to be some misunderstanding in AID/W, which may be due to the lack of clarity in Mission communications, regarding both the Proposed Master Plan for the Dar Technical College and the PROP for the subject project. The following paragraphs are an effort to clarify the situation:

- The "Proposed Master Plan" was ~~never~~ intended as a study to "identify project objectives and the Contractor's role in the proposed activities." The purpose of the study and subsequent report was to provide a guide for the Ministry and the College for the long-range development of the college within the broad framework of the Second Five-Year Development Plan. As such the scope of the report extends well beyond that of the AID project both in range of activities and time. It was never intended that the recommendations of the report be incorporated as objectives of the project; rather provision of the report to the Ministry is considered to meet one of the objectives of the project. Hence it is not appropriate that the recommendations of the Proposed Master Plan as such be incorporated in the PROP. It is true however, that AID technical assistance efforts throughout the remaining life of the project will be directed toward the implementation of those recommendations which the GOT and the Technical College wish to move forward on. The TanGov will review the Plan in the context of its manpower needs and its ability to implement the recommendations within the framework of the Second Five-Year Development Plan.
- The refair A as well as reftel B indicate that AID/W is laboring under misapprehension that the USAID has proposed extending the

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PAGE 1 OF 3 PAGES

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|-------------------------|---------------|-----------|------------------|------------------------------|
| DRAFTED BY CDWard:mb | OFFICE PRM | PHONE NO. | DATE 11/15/69 | APPROVED BY: DIR:CJNelson |
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AID AND OTHER CLEARANCES
EDU:NTMyers/WAWhitten (draft)
A/DIR:WASponsler (draft) UNCLASSIFIED

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physical life of the project. This is not the case. The FY 1970 PBS contained the phase-out schedule which indicated that the last man would depart in June 1972, and this was repeated in the PROP; actually the USAID and the contractor have subsequently agreed that the last man would serve an 18-month tour and depart in December 1971, some five months later than other personnel under the contract and 6 months earlier than the original ending date for physical activity. With the latter modification we still propose to adhere to this phase-out schedule and are not recommending an extension.

3. In the PROP, however, we did recommend an extension of the final obligation date from FY 70 (as shown in the FY 71 PBS and CP) to FY 71. This was done because the final funding requirements were well above the estimate contained in the FY 71 CP and would take an excessively large proportion of available FY 70 funds. While the Mission would still prefer this approach, we realize the funding extension may present difficulties. Later information on expenditures indicates that only \$431,100 would be required complete funding which eases the situation somewhat. The preceding figure is based on estimated expenditures through June 1969 of \$1,122,103, an estimated average expenditure of \$95,000 per quarter for the remaining half of the calendar year, and the contractor's projected budget of \$334,716 and \$181,374 for calendar years 1970 and 1971 respectively. It should be noted that the \$275,897 unexpended balance as of June 30, 1969, remaining under the contract will only be sufficient to cover contract expenditures until about mid-March; hence approval of the PROP and obligation of new funds takes on some degree of urgency.
4. In view of the above points the Mission is at something of a loss in comprehending the changes that AID/W desires be made in the PROP. Refair A states that "it is difficult to determine exactly what the project targets are, let alone evaluate progress toward their achievement." The Mission notes for AID/W attention that the project objectives and courses of action stated on pp. 2-4 and pp. 7-8 of the PROP (ref C) are essentially the same as stated in the earlier PBS narratives and in the contract. They are the basis on which the project has been approved for funding over the past several years and it seems inappropriate to change the objectives at the time one is adding the final statement of funding for the project. We would also note that the PROP is not designed to be an evaluation document and that a PAR was submitted on June 30, 1969, using the present objectives as the basis for evaluation. We assume the PAR was adequate since AID/W has never commented to the contrary. In general we do not feel that the PROP, a life of project document, is the appropriate place to include annual work plans. However, the contract team here is presently preparing an annual work plan which should be completed within a few days and we will attempt to amend the PROP so as to provide a more explicit statement of targets and to incorporate such portions of the work plan as seem appropriate. We agree that the "Partial Work Plan" provided by the campus is inadequate but this is understandable since it was keyed to a document which goes well beyond the scope of the project as such.

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TO - AID/W TOAID A-251 X

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DATE SENT

November 29, 1969

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INFO.

FROM - DAR ES SALAAM

SUBJECT - PROP Revision: Technical Education, Project No. (21-11-00-050)

REFERENCE - (A) TOAID A-196; (B) AID/A-101; (C) TOAID A-249

Per AID/W request in ref B and as indicated in ref C, USAID/Tanzania is submitting a revision of the objectives for the PROP transmitted as ref A.

Since the revisions are all on pages 2 and 3 of ref A, we are submitting re-typed airgram hectos for those two pages only, which should be reproduced and inserted in the original PROP. It should be noted that ref C also contains a revised estimate of funding requirements; however, we assume from M.O. 1025.1 that this does not require a revision of the EDOP.

The Mission hopes that this PROP will now receive early review and approval.

OTHER AGENCY

State

MAILBOX

PAGE 1 OF 3 PAGES

DRAFTED BY

NTMyers/CDward:mhb

OFFICE

DDO/ RI

PHONE NO.

DATE

11/29/69

APPROVED BY:

DIR:CD/10/10/69

AID AND OTHER CLEARANCES

A/DIR:WASponder (draft)

UNCLASSIFIED

CLASSIFICATION

II. Summary Description:

The background and progress of this project to date are fully described and evaluated in the PAR dated June 30, 1969. Consequently, this PROP presents only those proposed activities required to complete the project successfully in 1972.

A. Justification

Technical Education in Tanzania and in East Africa is still in its infancy. Secondary technical schools and technical colleges are staffed predominantly by expatriates. Also, industry positions, particularly at the engineering level and at many sub-professional technician levels, continue to be filled largely by non-citizens. More important, the demand for adequately trained nationals to fill these positions far exceeds the supply.

Tanzania's manpower projections for its Second Five-Year Plan (1969-1974) call for 980 engineering technicians and 84 laboratory technicians or a total of 1,064 middle-level technicians during the Plan period. The Dar Technical College is the nation's sole resource for training technicians at this level and even at peak performance it will not be able to meet the nation's total technical in-training needs. To close the gap, Tanzania plans to begin a second Technical College, probably in the Mwanza area, and to establish an engineering faculty at the University College Dar during the Second Five-Year Plan period.

For the above reason, the continuation and upgrading of the Dar Technical College is essential as the project cannot only continue to assist in producing technicians but also serve as a nucleus to help shape the further development of technical education in Tanzania.

B. Project Objectives

The basic purpose of this project is to develop a diploma level program for technician training and to establish the components of institutional operation that carry out this responsibility. For the remainder of this project period (FY 1970-72) contract activity will focus on qualitative instruction, staff training, management training, curricula development, departmental organization, and physical plant planning.

The specific activity targets are:

1. To provide qualitative instruction in civil engineering, electrical engineering and mechanical engineering.
2. To help select and train future staff using facilities at the Dar es Salaam Technical College as well as in the U.S.
3. To strengthen management capabilities of the College through participant training and to develop management and planning aids such as hand books and card inventory systems and a developmental master plan.
4. To provide departmental chairmen for mechanical, civil and electrical

engineering departments and, through their leadership, fully develop the organization and capacity of each department.

5. To develop a comprehensive curricula for the three engineering disciplines that will carry beyond the project end and improve upon the constricted London City and Guilds standards.

C. Collectively, achievement of the above five objectives will assist Tanzania to reach a national goal of producing 100 technicians annually by 1973.

C. Minimum Levels of Output Required

Though some aspects of project implementation have been retarded in the past, overall output performance of the College is sufficient to merit continued AID participation throughout project duration subject to the following priority activities mutually agreed to by the Ministry, USAID/T and the Contractor:

1. That the contractor develop a long-range Master College Plan for use by the Ministry during the Second Five-Year Plan period 1969-1974.

2. That an annual operational Work Plan to cover the duration of the project be devised.

3. That the above master plan include the following elements: a Physical Plant Utilization Plan, a feasible academic plan which coordinates the ordinary Diploma, the H.S.C. Program, and the other courses offered by the College, and an effective staff training plan at Dar Technical to meet its recurring staff and instructional needs.

D. General Approach

To achieve the output targets set for this project, it will be necessary to continue and to accelerate the following activities: (1) qualitative instruction; (2) staff training; (3) management training and advisory services; (4) departmental organization; and (5) curricula development.

E. Summary of Project Inputs

(1) AID Inputs

Personal Services. The bulk of AID assistance in this project consists of personnel (contract) services. In 1965, the first group of four U.S. instructors were assigned to the College and team strength reached a peak of seven

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PROJECT AUTHORIZATION

Proj. 6210050
PN

| | | |
|---|------------------------|------------------------------------|
| 1. PROJECT NUMBER 621-11-660-050 | 3. COUNTRY Tanzania | 0024-1 |
| 2. PROJECT TITLE Technical Education | | 6. AUTHORIZATION DATE |
| | | 6. PROP DATED November 29, 1969 |

7. LIFE OF PROJECT

a. Number of Years of Funding: 7
Starting FY 19 70; Terminal FY 19 71

b. Estimated Duration of Physical Work
After Last Year of Funding (in Months): 18

| FUNDING BY FISCAL YEAR (in U.S. \$ or \$ equivalent) | DOLLARS | | P.L. 480 CCC + FREIGHT | LOCAL CURRENCY Exchange Rate: \$1 = | | | |
|--|---------|------|---------------------------|--|------|--------------------|-------|
| | GRANT | LOAN | | U.S. OWNED | | HOST COUNTRY | |
| | | | | GRANT | LOAN | JOINTLY PROGRAMMED | OTHER |
| Prior through Actual FY 1970 | 1873 | | | | | | |
| Operational FY Budget FY | 115 | | | | | | |
| B + 1 FY | | | | | | | |
| B + 2 FY | | | | | | | |
| B + 3 FY | | | | | | | |
| All Subsequent FY's | | | | | | | |
| TOTAL | 1988 | | | | | | |

9. DESCRIBE SPECIAL FUNDING CONDITIONS OR RECOMMENDATIONS FOR IMPLEMENTATION, AND LIST KINDS AND QUANTITIES OF ANY P.L. 480 COMMODITIES

Tanzania Contributions (1) Housing, hard furnishings, utilities, and office space for contract personnel; (2) Salaries and costs international travel of participants; (3) Salaries for two contract OPEX personnel during this period covered by this revision.

10. CONDITIONS OF APPROVAL OF PROJECT

GOT will pay local salaries into Trust Account for use in conjunction with a prospective Phase Out Grant which will be made in FY 1972 subject to availability of funds

(Use continuation sheet if necessary)

11. Approved in substance for the life of the project as described in the PROP, subject to the conditions cited in Block 10 above, and the availability of funds. Detailed planning with cooperating country and drafting of implementation documents is authorized.

This authorization is contingent upon timely completion of the self-help and other conditions listed in the PROP or attached thereto.

This authorization will be reviewed at such time as the objectives, scope and nature of the project and/or the magnitudes and scheduling of any inputs or outputs deviate so significantly from the project as originally authorized as to warrant submission of a new or revised PROP.

| A.I.D. APPROVAL | CLEARANCES | DATE |
|--|---|---------|
|  SIGNATURE | AFR/EAF, E. D. Conroy  | 5/4/71 |
| | AFR/DP, D. Shear  | 5/1/71 |
| AA. AFR | A/CONT, C. F. Flinner | |
| | | 6/18/71 |
| TITLE | DATE | |