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Consolidated Annual Implementation Plan

Third Year — 1992/93 (JUNE 1, 92 - MAY 31, 93)

Cooperative Agreement No. 306-0204-A-00-0767-00

between

Office of the A.I.D. Representative to Afghanistan

and Volunteers in Technical Assistance

for the Implementation of the

Agriculture Sector Support Project

Agriculture and Rural Rehabilitation

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TABLE CONTENTS

GLOSSARY OF ACRONYMS .
FOREWORD
EXECUTIVE SUMMARY
I. INTRODUCTION
A. ORGANIZATION .
1. PESHAWAR HEADQUARTERS
2.ARR/QUETTA
3.AGRICULTURE REHABILITATION SCHEMES (ARS) .
4.HOME OFFICE
II. IRRIGATION AND ROADS AND BRIDGES
A.GENERAL
1. PROGRESS AND PROPOSED SCHEDULES
2, 1991 - 92 PLAN
B.IRRIGATION
1. 1990/92 PLAN
2. 1991/93 PLAN
C.ROAD AND BRIDGES
1. 1990/92 PLAN
2. 1992/93 PLAN
D.SUB-PROJECTS IMPLEMENTATION
1. FORMS IR-1 & 2, & RB-1 & 2
2. MONITORING & UPDATING OF PLANS
3. MANAGEMENT INFORMATION
E.EXPENDITURES - ESTIMATES
1. 1992/92 PLAN
2. 1992/93 PLAN
III.ENGINEERING SERVICES
IV.ARS PLANNING
V. POPPY REDUCTION
VI.TRAINING
A. 1991/92 TRAINING PLAN
B. 1992/93 TRAINING PLAN
VII.MONITORING
A.LEVEL-1 MONITORING

B.LEVEL-2 MONITORING
C.LEVEL-3 MONITORING
VIII.AFGHAN ENTITY DEVELOPMENT
IX.AMENDMENT NO. 9, DATED SEPTEMBER 1992
A.ARTICLE I.B.III
1.ENVIRONMENTAL PROTECTION PROCESS
B.ARTICLE I.B.IIIC
1.TRAINING
C.ARTICLE I.B.IV
1.MANAGEMENT INFORMATION, PLANS AND DOCUMENTATION - TRANSITION PLAN..
D.ARTICLE I.B.IV.B
1.SEMI-ANNUAL IMPLEMENTATION PLAN REVISIONS
F.ARTICLE V.
1.REPORTING REQUIREMENTS - EQUIPMENT MONITORING.
a.REPORTS ON EQUIPMENT AND MAINTENANCE REPORT
b.EQUIPMENT OPERATION & MAINTENANCE REPORTS

LIST OF CHARTS

1. Headquarters Senior Staff
2. VITA Organization Chart.
3. Organization Chart Quetta Office
4. Organization Chart - Typical ARS.....
5. ARS Directors and Technical Staff.....
6. Map - ARSs in Afghanistan as of September 1992.....
7. Flow Chart of a Typical Project.....
8. 1992/93 Plan - Engineering Services.....
9. 1992/93 Plan - Training.....
10. 1992/93 Plan - Monitoring.....
11. Level I - Monitoring - Sub-projects Inspected.....
12. Level III - Monitoring - Sub-projects Inspected - April 1991 - April 1992.....

LIST OF TABLES

A 1987 - 91, 1990/92 Sub-project - Planned, Completed and Under Construction 1

B Plan Year 1992/93 - Sub-projects Planned

C Plan Year 1992/93 - Approved Sub-projects

D Plan Year 1992/93 - Sub-project Ready of Approval

E Expenditures, April 1990 to May 1993

F 1992/93 Training Program

G 1992/93 Local Training Costs

GLOSSARY OF ACRONYMS

AG	= Agriculture
AID/REP	= AID Representative to Afghanistan
AID	= Agency for International Development
AIIP	= Annual Irrigation Implementation Plan
ARBIP	= Annual Roads & Bridges Implementation Plan
ARD	= Agriculture & Rural Development
ARR	= Agriculture & Rural Rehabilitation
ARS	= Agriculture Rural Schemes
ASSP/GIS	= Agriculture Sector Support Project/Geographical Information System
BA	= Bachelor of Arts
BE	= Bachelor of Engineering
BS	= Bachelor of Sciences
CAIP	= Consolidated Annual Implementation Plan
CIV	= Civil
COP	= Chief of Party
DCOP	= Deputy Chief of Party
EPP	=. Environmental Protection Process
HQS	= Headquarters
IR	= Irrigation
LBII	= Louis Berger International Incorporated
ME	= Master in Engineering
MIN	= Minister/Ministry
MIT	= Massachusetts Institute of Technology
MS	= Master of Science
NACP	= Narcotics Awareness and Control Project
NGO	= Non-Government Organization
No.	= Number
NWFP	= Northern West Frontier Province
O/AID/REP	= Office of the AID Representative to Afghanistan
PAC	=. Project Advisory Committee
P.E	= Professional Engineer
RB	= Roads & Bridges
Rs.	= Rupees
TCN	= Third Country National
USAID	= United States Agency for International Development
VITA	= Volunteers In Technical Assistance
VITA/ARR	= Volunteers In Technical Assistance /Agriculture & Rural Rehabilitation Project

FOREWORD

This Annual Implementation Plan was prepared by Aldelmo Ruiz, P.E., Consultant, with the collaboration of ARR/VITA headquarters staff and the ARSs directors or assistant directors., but in particular with the assistance of Assadullah Noori, Deputy, Field Coordination. The consultant's scope of work is attached in Appendix M.

Preparing an implementation plan for a project on rural rehabilitation in a developing nation where many unknown factors exists due to the unstable political situation and where the project is supervised by the senior staff in absentia necessitates the input of professionals responsible for the implementation of the project. Recognizing the many factors involved, the VITA Chief of Party, Eng. Mir Mohammad Sediq, requested the presence of all the Agriculture Rehabilitation Schemes directors (ARS) in Peshawar during the preparation of the document.

At the same time he scheduled a workshop in which the consultant spent a total of 15 hours in a workshop classroom teaching environmental protection process, preparation of forms and project planning. This provided the opportunity to seek and obtain the directors views of the reality of what is going on their provinces. It most be pointed out that these are experienced engineers and technicians that realize that sooner or later their performance on site will be evaluated by professionals that at present are not permitted to travel to Afghanistan. Consequently, their statements, analyzes and evaluation were similar to those obtained from other sources. Their suggestions and recommendations are reflected throughout the report. The fluid situation in Afghanistan necessitates flexibility in the planning process and, therefore, the number of sub-projects needs to be "over planned" for the eventuality of unforeseen events.

Executive Summary

The Cooperative Agreement dated March 15, 1990 identifies eight specific areas of program responsibility to be carried out:

(a) Irrigation; (b) restoration of rural roads & bridges;

(c) engineering services; (d) ARS planning; (e) poppy reduction;

(f) training; (g) monitoring; (h) development of an Afghan entity.

Amendment No. 9 dated September 22, 1992, amending the scope of work, added the following: (i) Specific Objectives of the Cooperative Agreement (Environmental Protection Process); (j) training (existing training program to be expanded to include training in environmental monitoring and protection); (k) management information plans and documentation (develop a transition plan); (l) Semi-annual implementation plan revisions (revise implementation plan on a semiannual basis); (m) reporting requirements (equipment monitory reports) and (equipment operation and maintenance reports).

At present, the Agriculture & Rural Rehabilitation (ARR) is composed of the Peshawar Headquarters, the Quetta Regional Office, eighteen Agriculture Rehabilitation Schemes (ARS) within Afghanistan, and the VITA home office in Arlington, Virginia. The plan call for an additional 3 ARSs to be established during the current plan year.

At present the ARR project employs 471 persons of which 180 are engineers and technicians. Only 4 Americans are members of the team, of which two are Afghan Americans, one being the Chief of Party, Engineer Mir Mohammad Ashan Sediq. In the home office the program coordinator, Mr. Mohammad Shah, is also an Afghan American. The President of VITA, Mr. Henry Norman, has previous experience in Afghanistan. All the engineers and technicians involved in the project have had extensive experience throughout Afghanistan.

The procedure for the identification of sub-projects is development from the bottom-up and ensures the participation of community leaders and beneficiaries at all levels. A substantial local contribution in money or in kind is required to encourage community participation and maintenance of the sub-projects upon completion, the local contribution varies between provinces, but overall amount to about 50%. The projects are identified, approved and implemented at a rapid rate.

From the inception of the project in 1987 to the end of the 1991/92 Plan Year on May 30, 1992, a total of 3831 sub-projects were completed. From the beginning of the third year plan, from June 1992 to the end of October 1992, a total of 34 have been completed, for a grand total of 3835. Sub-projects under construction carried over from the 1991/92 plan to the 1992/93 plan numbered 124. In addition, 32 are under construction from the 1992/93 plan for a total of 156 sub-projects.

During the preparation of the plan for 1991-92 it was anticipated that the program would be terminated by May 30, 1992 and consequently no new ARSs were planned. But since then the program has been extended twice, first from June 1,

1992 to December 1992, and then from December 1992 to April 1994. Subsequently, two new ARS were started last year and three are presently being planned. This indicates the fluidity of the program due to changes in the political situation in Afghanistan. The new two ARS present no burden to the ARR headquarters personnel and it is anticipated that they are fully capable of handling the three additional ARSs plus any other ARS that would open in the foreseeable future.

The Cooperative Agreement earmarks $200,000 for "specialized or complex engineering services which exceed in-house capacities on an as-needed basis". VITA has entered into a "work order-type" contract with Louis Berger International (LBII) for these services. However, to-date these services have not been needed and if the need arises in the future, then VITA will request approval to utilize the services of LBII.

The ARR role in poppy reduction has been terminated. Based on the present plan, no further consideration will be given to this section. However, if the mission would require such activities, then ARR/VITA will once again take an active part.

The substantial emphasis on training was presented in last year's CAIP. This important aspect of the project continues to be emphasized and is shown in this CAIP. Twenty training programs are in the plan. Of the 20 programs proposed, seven have been completed — four in the United States and three at the ARR training center in Peshawar. One course is proposed for a third-country, such as Turkey, for six ARS directors who are not proficient in the English language. The in-country training will be given in Peshawar and will be conducted by outside consultants, ARR personnel, and other appropriate local agencies. Considerable informal on-the-job training continues at ARR headquarters and at the ARSs.

The Cooperative Agreement called for a study to assess the feasibility of creating an Afghan entity capable of continuing the program and attracting other funding. The Massachusetts Institute of Technology prepared a study entitled "Engineering and Planning for Rural Development in Afghanistan." The report, dated October 1991, was submitted to USAID.

ARR has submitted to the mission the draft report entitled "Environmental Protection Process and Related Training". The report included forms for monitoring completed, on-going, planned and future projects. An extensive training program on the environmental protection process for all ARR headquarters personnel, ARS directors and assistant directors, engineers and monitors is included in that report. Two training session on the subject have been completed, i.e. for ARS directors and monitors.

ARR/VITA is now in the process of gathering as much information as possible as to the actual or expected composition of the Afghanistan government and physical infrastructure to develop a sound workable transition plan within the political, social and economic environment encountered in the country. The transition plan will include a draft of a proposed Cooperative Agreement between USAID and the

appropriate Afghanistan government ministry for USAID consideration. It is anticipated that the transition plan will be completed as scheduled on March 31, 1993.

ARR/VITA will prepare a semi-annual Implementation plan revision during May 1993 to be submitted to the mission by June 1, 1993.

ARR/VITA has established new requirements for reporting on equipment inventory and location, equipment maintenance and operation reports, and the preparation of justifications for procurement of equipment.

Among the major problems that affect the environment in Afghanistan is the progressive salination of fertile agricultural land due to over irrigation, lack of management and water conservation practices. This salination is mainly due to the lack of drainage facilities. In addition, the dire need of potable water supplies and simple sewage disposal system is another area that deserves immediate attention. The mission should give consideration to adding to the present program the provision of drainage facilities to projects where land is being or is to be irrigated. In addition, consideration should be given to the provision of rural water supplies, such as wells with hand pumps or small diesel engines and development of springs with small pipelines to provide water to community water hydrants. The provision of simple sewage disposal systems such as latrines or cesspools should also be considered. These are environmental protection measures at its best. It must be pointed out that the directors, both individually and collectively during a workshop, requested that a new position be added to the ARSs, i.e., that of a sanitary engineer or technician with some experience or background in environmental matters but particularly in rural water supplies and sewage treatment facilities.

Agriculture & Rural Rehabilitation (ARR)

I. INTRODUCTION

This is the third Consolidated Annual Implementation Plan (CAIP) submitted under Cooperative Agreement #306-0204-A-00-0767-00 (Agricultural Sector Support Project) between Volunteers in Technical Assistance (VITA) and the Agency for International Development (AID) dated March 15, 1990. Pursuant to that agreement, the plan consolidates the projected activities in each of eight specific areas of program responsibility: (a)irrigation; (b) restoration of rural roads and bridges; (c) engineering services; (d) ARS planning; (e) poppy reduction; (f) training; (g) monitoring; (h) development of an Afghan entity. Amendment No. 9, dated September 22, 1992, amended the scope of work, adding the following: (1) Specific Objectives of the Cooperative Agreement (Environmental Protection Process). (2) Training (existing training program to be expanded to include training in environmental monitoring and protection). (3) Management Information Plans and Documentation (develop a transition plan). (4) Semi-Annual Implementation Plan Revisions. (revise Implementation Plan on a semi-annual basis). (5) Reporting requirements (equipment monitoring reports and equipment operation and maintenance reports). This CAIP covers the period from May 30,1992 to May 30,1993.

The Agriculture & Rural Rehabilitation (ARR) component of the ASSP program is the evolution of an effort that began with an AID grant to VITA in 1986 and was followed by a three-year contract in 1987. By Amendment No. 6, dated March 15, 1992, the contract was extended from May 1992 to December 1992, and Amendment No. 8, dated June 18, 1992, extended the contract from January 1993, to April 1994. Throughout the three different arrangements between AID and VITA (grant, contract, and cooperative agreement), several distinct characteristics of VITA's implementation of the program have remained intact. These are :

1. Sub-Projects to be carried out are identified and initiated by the beneficiaries and priorities determined by the local development shuras (committees) rather than the ARR personnel in order to strengthen local decision-making capacity and encourage commitment to the project.
2. The maximum feasible contribution, either cash or in kind, is required of its beneficiaries in order to increase the available resources, avoid dependency, and foster a sense of community in which common effort is voluntarily undertaken to achieve a benefit shared by all.
3. The ARR is an Afghan program with Afghan leadership in which Afghan beneficiaries deal with Afghan personnel sympathetic to their needs and sensitivities.
4. The ARR will evolve from a project-based effort to a development oriented program in which criteria for project selection will increasingly be designed to ensure interaction with other projects being implemented by the ARR and

other programs to increase their impact on the development process. The project is an action project, where small projects which benefit the most needy are implemented at a rapid rate.

5. Training of program personnel is a priority because the ARR will ultimately provide many of the personnel needed to re-establish a Rural Development Department in Afghanistan.

The ARR program fostered by these policies has proven to be successful. This is demonstrated by the fact that the ARS directors without direct supervision within Afghanistan have been able to successfully implement a total of 3835 sub-projects, with 156 under construction at the end of October 1992, without serious interruption. During the preparation of this CAIP the consultant meet and interviewed 14 directors and 5 assistant directors collectively and individually.

When asked about their capabilities to undertake additional work, the majority of the directors stated that they were capable of doing so if additional funds were made available. Their main draw back has been the delay in the approval of sub-projects. The interaction between the ARR headquarters staff and the directors is excellent. And the relationship between the directors and their assistant is outstanding. During this planning period several assistant directors represented the ARS and were interviewed by the consultant and they were fully familiar with the overall program. and the documentation required .

The outstanding leadership provided by the chief of party, Engineer Mohammad Sediq, since the inception of the program provides the ingredient for the success of the project, which he has recreated and brought together .He is supported by an excellent ARR headquarters and field staff. The active participation of VITA's president and the support of home office staff all of whom are knowledgeable about Afghanistan and its people has also contributed significantly.

The ARR program has a very strong, experienced, and well managed staff at all levels in Peshawar and within Afghanistan with technical and managerial capabilities that are still far from being stretched. It has achieved a remarkable level of credibility through the ARSs with Afghan officials and program beneficiaries. The program could be expanded throughout the country rapidly and efficiently if the necessary financial resources are made available. As in the past year, training will continue to be intensified in anticipation of increased demand for and on ARR skills and personnel.

The information being collected and organized is of major importance for the future planning for Afghanistan. As the development character of the program evolves, this base line data will serve as a valuable tool in evaluating the impact of the AID programs in Afghanistan. This is particularly true with regard to the new environmental protection process requirement, which for the first time will provide baseline data on the environment in Afghanistan. The ARR itself will try to analyze how improved irrigation and better rural roads and bridges have influenced the level of agricultural production, commercial activity, the state of the environment, and the ultimate repatriation of refugees in each ARS area.

A. ORGANIZATION

The organization of the ARR project is composed of the Peshawar headquarters, the Quetta regional office, the eighteen Agriculture Rehabilitation Schemes (ARS) in Afghanistan, and the VITA home office.

1. Peshawar Headquarters

The Peshawar headquarters is staffed with qualified, competent personnel fully capable of providing the support needed by the ARS. As shown in ***Chart 1***, the composition of the senior staff substantiate their experience in the field of rural development. It consists of four master degrees in civil engineering and one in rural sociology, six bachelors in engineering and two in agriculture.

The chief of party (COP) for the period of the Cooperative Agreement continues to be Engineer Mir Mohammad Ashan Sediq. In addition to his experience indicated in ***Chart 1***, he has attended the Economic Development Institute of the World Bank on designing and evaluation of rural development projects and two workshops on rural development and motivation and people participation sponsored by the United Nations and the World Bank, respectively.

The deputy chief of party (DCOP) is Mr. Robert B. MacMakin, an experienced manager with many years of experience in Afghanistan who has established excellent working relations with the COP and the ARR staff. The COP and DCOP offices are 50 feet a part and they are in frequent communication and meet daily as needed to discuss cross-border matters concerning the program.

Mr. Russell Wallace, the chief financial officer, arrived at post on September 28, 1990. He has extensive experience in financial management, auditing and accounting. and has worked in responsible positions with private firms in the United States, North Africa and the Middle East. He maintains a very close watch on the budget.

Mr. A. A. Bahrami, an Afghan American with a MS in civil engineering from Purdue University and with extensive experience in responsible positions in Afghanistan, has been at post since November 1990. He is the Chief of the Rural Works Division.

Mr. Abdullah Aini, director of training, possesses a master in civil engineering from Rookee University in India. He has extensive experience in irrigation, water and power projects in Afghanistan.

Mr. M. I. Imam, director of field coordination, possesses a BS in civil engineering and has attended graduates courses in engineering management at Indiana University .

Mr. Asadullah Noori, deputy director of field coordination, has a BS degree in agriculture from Kabul University, attended a course on microcomputers in agriculture in New Mexico State University and two management courses in Peshawar, Pakistan.

Mr. Ghulam Farooq, an Afghan design engineer with a degree from the University of Jodhpur, India, has extensive practical experience in the rural development department in Afghanistan from 1972. He is head of the Engineering Services Division.

Mr. Qari Hamidullah, director of support services, has a BA in English and Persian from Kabul University. He was the mujahiddin representative in Lahore and has extensive experience as a liaison officer with aid donors to Afghanistan.

Mr.G. S. Rozbih, director of design, has a BS in engineering from Kabul University. He attended a one year training course in design of small hydraulic structures at the Bureau of Reclamation in Denver, Colorado. Also, he attended a two months irrigation training course at Tokyo University . He has extensive experience as a designer of water and power projects in Afghanistan .

Mr. Khawajah.Samiullah, director of machinery and transport, possess a BS in mechanical engineering from Kabul University. He has extensive experience working in his professional field with the Ministry of Water and Power in Afghanistan.

Mr. A. Rahim Saleem, director of estimation, has a BS in Engineering from Kabul University. He worked for USAID in Kabul from 1965 to 1970. He also has extensive experience with NGOs and with the Ministry of Mines and Industries in Afghanistan .

Mr. M. H. Malikzai, director of monitoring, has a BS degree in agriculture from Kabul University and attended C Y M M Y T in Mexico. He has extensive experience with the Ministry of Agriculture in Afghanistan.

Mr. Mohammad Maran, monitoring advisor has a MS in rural sociology and has over 30 years experience in rural development in Afghanistan.

Haji Zaheruddin, director of survey, is a graduate of the Afghan Institute of Technology and has 20 years experience in the Rural Development Department in Afghanistan. He has had experience working in Saudi Arabia on a sewerage project and in Sri Lanka with UNDP on highway construction.

The staff of ARR headquarters consists of 158 trained and experienced personnel working in Peshawar and 13 working in each of the 18 ARSs inside Afghanistan. There is a staff of 9 working in the regional office in Quetta. See Chart 2.

There is frequent contact between the Peshawar headquarters and the home office in Rosilyn, Virginia and the chief of party, Eng. M. M. A. Sediq, maintains almost daily communication with the home office by telephone, fax, VITASAT satellite, and electronic mail. He also visits the home office when necessary, but at least twice a year, to ensure the smooth coordination of administration, procurement, financial record-keeping, recruitment of consultants, policy, and procedures in this very important program. ***See Chart 2***

2. ARR/Quetta

ARR/Peshawar has a regional office in Quetta to assist and oversee the program in four ARSs, i.e., Kandahar, Farah, Herat, and Helmand. This is a satisfactory arrangement and it expedites the day-to-day operation. The Quetta office is supervised by Engineer Qasim Taheri. He has a BS in hydrology from Kabul University, and an MS on foundation engineering from the University of Vienna, Austria. Engineer Taheri worked with Harza Engineering Company, and International Engineering Company in the spillway of the Kajakai dam. He also worked with USAID personnel in the preparation of hydrology maps for the Helmand/Arghandab Valley project in Afghanistan. His deputy is Mr. Adam Khan, BS in civil engineer, Kabul University, a graduate degree from Colorado State University, and study with the US Bureau of Reclamation. He has over 27 years experience in the implementation of irrigation projects, including the Helmand Valley. He also worked on the Kunduz Khanabad irrigation project funded by the World Bank. The organization chart of the Quetta office is shown in ***Chart*** *3*.

3. Agriculture Rehabilitation Schemes (ARSs)

Generally an ARS staff consists of 13 persons; a director, deputy director, two senior technicians, two junior technicians, a monitor, administrative clerk, mechanic, driver, warehouseman, guard and janitor. ***See Chart*** *4*. All the eighteen ARS directors have working experience in Afghanistan and 16 have been with the project since the beginning. Out of the 18 ARSs, 10 are headed by graduate engineers, three graduates from the Afghan Institute of Technology, two from the Cadastral Survey School, and three are high school graduates. ***See Chart*** *5*. The high school graduates are chosen for their familiarity and involvement in their respective locations.

To support the directors, there are, at present, 91 graduate engineers and technicians — graduates from the Afghan Cadastral Survey School, the Kabul Polytechnic Institute and other technical schools. This pool of talent is fully adequate to implement the program as outlined in this CAIP. It is the policy of ARR management to assign additional personnel on a temporary basis to the ARSs from Peshawar headquarters, if requested by an ARS director, when the work load requires it. This is also true in the event that a work load diminishes in an ARS due to unexpected events, such as security considerations, unfavorable weather, late arrival of materials, or other unforeseen events. In such cases personnel are assigned elsewhere on a temporary basis where they can be more useful. Technical personnel are assigned to project monitoring duties.

4. Home Office

The provision of home-office support, communications, and project visits will continue to be all important to effective performance under the Cooperative Agreement. VITA's president, Mr. Henry Norman, will continue to be the senior support person in the home office and will devote up to 20 percent of his time

to the project. Mr. Norman will continue making at least two visits per year to the project. Additional visits will be made as required. This will provide him with a first-hand review of project performance in the previous six months and permit necessary decisions to be made in a timely manner. In addition, Mr. Mohammad Shah, a senior Afghan agriculturist and home office project coordinator, will make at least one visit per year.

The home office back-stop for the chief financial officer also oversees the preparation of all financial reports to USAID that come from the home office. This position presently is held by Mr. Patrick Taylor, VITA controller, who has worked on the project in the last two years. He works with the field financial officer to ensure that all accounts and procedures in the field office and the home office are in conformity and meet USAID requirements. Mr. Taylor will devote up to 20 percent of his time to such support and he should make at least one visit per year to the project. However, in the event that the mission or the COP deem that additional home office visits are required, they should have the flexibility to do so.

Home-office program officer Mr. Mohammad Shah will continue in this position, devoting up to 50 percent of his time to it. However, since the project funding has been increased and field activities accelerated, Mr. Shah should devote at least 75% of his time supporting the project.

The number of reports required by the Cooperative Agreement are designed to show progress made towards implementation of this plan and to highlight problems encountered and proposed solutions. The reporting function is assigned to the deputy chief of party. The home-office support described above has been designed to assist in the preparation of these reports and assuring their accuracy and timeliness.

The provision of cash advance on a monthly basis is working out very well. With timely reporting and requests for advance and the full cooperation of the mission controller's office, funds have been received as needed and there have been no delays that have affected project operation. The procedures developed in the past will be followed in the future.

II. IRRIGATION AND ROADS AND BRIDGES

A. GENERAL

As called for in the Cooperative Agreement for the 1992/93 plan, the sub-projects have been divided into Irrigation sub-projects and Roads and Bridges sub-projects.

1. Progress and Proposed Schedules

During the preparation of last year's CAIP, a Progress and Proposed Schedule chart was developed covering the performance of each ARS since the inception of the project. The schedule has been revised to include the environmental process and brought up to date. It reflects performance during the 1991/92 plan

year and includes the schedule for the 1992/93 plan. The charts are in ***Appendix A.***

The information presented in the schedule charts was obtained from the ARR headquarters staff and ARS directors and assistant directors. The directors and deputies and the headquarters staff became very familiar with the Progress and Proposed Schedule chart.

For each ARS, the charts show for the years 1987-91 the sub-projects planned, completed, and under construction at the end of the period. For the 1991-92 plan year, the charts show the number of sub-projects planned, the number completed, the number under construction, and the percentage completed. At the bottom right-side of each chart it summarizes the accomplishments in sub-projects completed and indicates the number of sub-projects under construction. ***Table A*** shows a summary of 1987-91 and 1991/92 projects planned, completed, and under construction. The charts also show the funds expended for the 1991/92 plan year. For the 1992/93 plan it shows the expended funds up to September 30,1992 and the total funds available and total budget for each ARS for the 1992/93 plan year. A chart summarizing all the ARR sub-projects is included in Appendix A. The charts were designed for the 1991-92 plan and have been revised for this planning year as per Amendment No. 9 to include the environmental protection process (EPP). The form indicates at the bottom the types of EPP required, i.e. (1) Monitoring, and (2) Safeguards,. This is included for future plans where the type of EPP should be indicated. Also shown is the type of assessment, i.e. (1). No assessment, (2). Preliminary, (3). Intermediate, or (4). Advanced. It is noted in the charts that all planned projects for 1992/93 will required preliminary assessment. This was decided after discussions with the ARS directors and is a sound approach, as they want to become knowledgeable and familiar with the EPP.

2. 1991/92 Plan

For 1991/92, a total of 894 sub-projects were included in the CAIP. However, during the year sub-projects were added with the total increasing to 900 sub-projects. A total of 524 were completed and are 124 under construction. Some of the projects were carried over from the 1987/91 period. The total cost for the construction was 34,567,129 (This amount includes Rs.3,503,122 for the construction of the Jalriz-Subzi Parsa Road which connects the provinces of Wardak, Parwan, and Kabul. This sub-project was not assigned to an ARS.)

B. IRRIGATION

1. 1991/92 Plan

For the 1991/92 period, a total of 819 irrigation projects were planned of which 490 were completed. There were 124 under construction at the end of the year. However, some of the previous year's sub-projects were under construction at the beginning of this year. The sub-projects that were designed, estimated, and

approved by the COP, but not under construction at the beginning of the 1992\93 plan year, are included in this year's plan.

2. 1992/93 Plan

For 1992/93, a total of 631 irrigation projects are planned as follows: 384 juis, 11 flumes, 18 dams, 79 intakes, 72 retaining walls, 11 syphon , 7 irrigation wells, 48 canals and 1 spring. ***See Table B.*** All of the 209 sub-projects that have been designed, estimated, and approved by the Project Advisory Committee (PAC) and the COP and that are ready to start are included in the 776 planned sub-projects. ***See Table C.***

As of October 30,1992, a total of 171 irrigation sub-projects have been designed and estimated and are ready for approval. ***See Table D.*** Sub-projects were selected from this list for the 1992/93 year plan taking into considerationthe security situation, budget limitations, project priorities, and the ARS workload and performance. For provinces that at the time of the preparation of this plan had a small number of sub-projects approved or ready for approval, sub-projects at present under study were given some priority. Not all the sub-projects under consideration were included in the plan because of funding limitations and other practical considerations. Approved projects will be implemented on the availability of funds.

C. ROADS AND BRIDGES

1. 1991-92 Plan

For 1991/92, a total of 75 sub-projects were included in the plan. A total of 34 were completed, 27 under construction, and the remaining 14 are either under construction, eliminated or being carried over to the 1992/93 plan. The sub-projects carried over that have been designed/estimated, and approved by PAC and the Chief of Party for construction are included in the plan.

2. 1992-93 Plan

For 1992/93, a total of 145 sub-projects are planned as follows; 86 roads, 36 bridges and 23 culverts. ***See Table B.*** There are 209 sub-projects that have been designed/estimated and approved by the COP and are ready for construction. These sub-projects will receive priority and are included in ***Table C.***

As of the end of October 1992, a total of 254 sub-projects have been designed and estimated and are ready for approval. ***See Table D.*** A breakdown of irrigation and roads and bridges is shown in the table.

D. SUB-PROJECT IMPLEMENTATION

The sub-project implementation is the responsibility of the 18 ARSs located in 18 provinces of Afghanistan. ***See Chart 6.*** These provinces were carefully selected to maximize the impact on the poorest people in Afghanistan. All the sub-projects requested in the past have followed the same procedure for approval. This procedure

includes social, technical, and economic feasibility studies, design, funding, construction, monitoring, and evaluation as shown in ***Chart*** 7.

Experience during the past years indicates that this procedure is working well and that no major changes are necessary. However, a few modifications have been made to improve the management, particularly in the monitoring procedures. To accomplish this, the services of a consultant were contracted. A report was submitted on March 30, 1992.

1. Forms IR-1 and 2, RB-1 and 2

The IR-1 and RB-1 forms include data on benefits, technical and logistical requirements, and the sub-project implementation schedule for each sub-project. These forms complement the Progress and Proposed Schedules in ***Appendix A.*** Sample forms for a single sub-project are shown for IR-1 in ***Appendix B*** and for RB-1 in ***Appendix D***.

The IR-2 and RB-2 forms summarize the data for each ARS and are the basis for the plan as presented on the Progress and Proposed Schedule charts shown in ***Appendix A.*** IR-2 forms for the 18 ARSs are shown in ***Appendix C*** and RB-2 forms are shown in ***Appendix E***.

2. Monitoring and Updating of Plans

The three levels of sub-project monitoring are discussed in detail below. Level-1 monitors are assigned to the ARSs to track the progress of individual sub-projects as described on the IR-1 and RB-1 forms. Monthly they gather information from the ARS staff and from their own field visits, reporting to the monitoring section in Peshawar. The chief monitoring officer forwards the reports to the planning section of the field coordination office. Reports include:

- planned schedule changes as approved by the ARS Officer.
- actual starting and completion dates for each activity shown on form IR-1 or RB-1, as reported by ARS staff.
- any changes in other data shown on form IR-1 or RB-1, as observed during the monitor's own visits to sub-projects or as reported by ARS staff.
- current commodity costs for use in project estimation.

3. Management Information

The Form IR-1 and RB-1 serve to make mid-level management at ARR headquarters aware of the needs of the ARSs for material resources on a sub-project by sub-project basis. The managers also are aware of progress that is being made in the field.

The IR-2 and RB-2 forms used in preparing the Consolidated Annual Implementation Plan also constitutes a concise method for keeping top project

management current regarding information on an ARS-by-ARS basis as it pertains to:

- level of activity planned (overall length, funds budgeted, etc.)
- general magnitude of benefits
- resources required to implement sub-projects
- scheduled activities.
- the level of local input in support of sub-projects

E. EXPENDITURES - ESTIMATES

1. 1991/92 Plan

The sub-projects completed for the 1991/92 plan amounted to Rs. 60,409,340 (Rs. 3,503,122 were spent on the Wardak-Parwan-Kabul Road) amounting to Rs. 64,409,340. The number of sub-projects planned for the 1991/92 year was 894 , of which 524 were completed (including some begun in the previous year) and 124 were under construction at the end of the year.

2. 1992/93 Plan

Based on past experience, a total of 776 sub-projects is planned for 1992/93. It is realized that under normal circumstances the number of projects is over the number that realistically the ARSs could implement. However, due to the fluid situation in Afghanistan, the need to 'over plan' is to provide for unforeseen events that in one area or another that might curtail some sub-projects by having sub-projects in that area or another area ready to replace them. The total budget available of Rs. 85,576,051 is shown in ***Table E.*** A breakdown of the amount expended between June and September 1992, the estimated budget for October 1992 to May 1993, and the total budget for each ARS is shown. The latter amounts to Rs. 77,703,580. The Wardak-Parwan-Kabul road budget is Rs. 7,782,471.

III. ENGINEERING SERVICES

The Cooperative Agreement requires that VITA arrange for "specialized or complex engineering services which exceed in-house capacities" on an "as-needed" basis, and earmarks up to $200,000 for this purpose in the budget.

In order to meet this need, VITA has entered into a "work order-type" contract with Louis Berger International, Inc. (LBII). LBII is to provide staff and facilities on short notice to carry out the following activities in support of repair and rehabilitation of physical infrastructure:

- temporary assignment of personnel to the ARR office in Peshawar,
- reconnaissance trips inside Afghanistan for assessments, inspection, evaluations, and preparation of technical recommendations,

- preparation of design sketches, outline specifications and cost estimates for the guidance of ARR staff, who would complete the design work,
- supervision of design work to be undertaken by the ARR staff, temporary local staff or local engineering firms that would be subcontracted by VITA,
- execution of design work, using the firm's own in-house staff at its home or branch offices.

Design work referred to above may include the preparation of working drawings specifications, cost estimates and other contract documents to be used in contracting with local or international construction firms.

For each assignment under the subcontract VITA in consultation with the LBII will prepare a delivery order specifying the work to be accomplished, the timing of the assignment, the personnel to be assigned and a budget.

The engineering work being performed by the ARR engineering office as of the date of the preparation of this plan has been routine design work, not requiring complex engineering services exceeding in-house capabilities. Further, the restrictions on travel to Afghanistan have not permitted VITA to use the services referred to above for reconnaissance. trips inside Afghanistan. However, it is considered appropriate to maintain the contract in force as it may be useful if the need arises for such services in the future.

The Scope of Work is shown in ***Appendix F***.

Key activities needed to implement the Engineering Services described above are listed in ***Chart 8***.

IV. ARS PLANNING

Last year's plan stated "There are no new ARS being planed for the 1991/92 year plan....". Nevertheless, two new ARS were opened during the plan year, i.e. ARS-08 in Nangarhar and ARS-23 in Helmand province. This indicates the fluidity of the program due to changes in the political situation in Afghanistan. For the 1992/93 year plan there are three new ARSs presently being planned: ARS-11 in Badakhshan, ARS-15 in Samangan, and ARS-16 in Balkh. ***See Chart 6.*** The addition of two new ARSs during the past plan year added no burden to the resources of the ARR/VITA headquarters personnel and it is anticipated that they can easily handle the workload of the three additional ARSs scheduled to be opened during this plan year. In addition, ARR headquarters personnel is fully capable of handling additional ARSs' work load if they are opened during this year plan. It must be pointed out that personnel required to staff the additional ARSs need to be recruited as well as additional personnel for all ARSs for environmental and economic impact monitoring.

V. POPPY REDUCTION

The mission agriculture officer and ARR/VITA agreed on April 19, 1990, that preparations of the implementation plan for poppy reduction should be delayed

pending further consideration of the program by O/AID/REP. With the arrival of the Narcotics Awareness and Control Project (NACP) staff, ARR's role was limited to temporarily providing salaries for three staff members formerly with the ARR. These arrangement was terminated and if the need arises to start these activities, further active consideration will be given to this section in future plans.

VI . TRAINING

A. 1991/92 TRAINING PLAN

—MAY 30, 1992—)

The critical importance of training was reflected in the detailed training plan for 1991/92, where a total of 13 training courses were programmed. That year plan and accomplishments are shown in ***Appendix G*** . The ARR project completed 11 of the proposed 13 courses proposed in the plan. The English training (basic English language) course was not conducted for the lack of participants. The course was designed to assist personnel motivated to learn basic English for personal self-improvement. As the courses was to be conducted after working hours and transportation was a problem, there was no interest in participating. It has been eliminated from the 1992-93 plan.

The overseas training for ARS directors was not done. However , two two-week workshops were conducted at the ARR/VITA training center during December 1991 and February 1992.

B. 1992/93 TRAINING PLAN

This is year plan continue to emphasize the importance of training, where a total of 20 training courses are described. ***See Table F.***

As in the past , all of this year in-country training courses will be conducted at the ARR training center or at other facilities in Peshawar. Of the 20 proposed courses for this year plan, seven have so far been completed.

Experience dictates that short-term technical and practical courses for engineers such as construction planning, bridge and roads will better be taught by experienced, practical engineers with experience in developing nations. Therefore, ARR will be contracting with a consultant with experience in the Afghanistan program to help conduct such courses. Also, it is in the program to have an outside consultant with extensive experience in Afghanistan to conduct the course on the environmental protection process and on monitoring the economic impact of the projects.

The ARR directors are critical to the success of the program. These experienced engineers/technicians are the ones to whom the local population looks for leadership and guidance. It is noted that in past training conducted overseas, the ARS directors have not received a proportionate number of participant opportunities. In the future, priority should be given to the directors or their assistants to attend short-term training in the United States. The ARR is proposing in this year to select at least four directors or their assistants who demonstrate the motivation, knowledge of and understanding of development problem and have the capacity to

21

absorb the training and send them to the Unites States for observation and training tours in the environmental protection process. ARR/VITA is in the process of investigating appropriate institutions for selection to conduct such training. In addition, it is planned to send an additional four from the ARR headquarters senior staff to receive such training. In last year's plan it was recommended that eight ARS directors not proficient in the English language be sent to a third country such as Turkey to receive training on integrated rural development. The need for this training is reiterated in this plan and it is strongly recommend that an effort be made to select a country appropriate for such training and at least 6 directors or assistant directors be sent during this plan.

The importance and emphasis been placed on the environmental protection process is depicted by Amendment No. 9 to the Cooperative Agreement. See Section IX. In this respect, ARR has requested the mission concurrence for hiring a senior Afghan engineer with extensive experience in Afghanistan as an Environmental Protection Officer. This engineer has been identified and, if approved by the mission, will also be sent for training in environmental matters and issues to the United States. All the training programs and candidates selected will be submitted to the mission well in advance for approval.

Table G shows a breakdown and estimated cost for the training program proposed in this CAIP. ***Chart 9*** sows the schedule for the 1992/92 plan.

VII. MONITORING

There are three levels of monitoring which were designed to provide feedback to ARS and Peshawar managers in order to improve the benefits accruing from sub-projects and to enhance technical and managerial quality. All sub-projects are seen by Level-1 monitors who are on each ARS staff. A portion of the sub-projects are visited by traveling covert Level-2 monitors. In addition the technical quality of a sub-projects is examined by Level-3 monitors who are Peshawar-based technical staff. The Impact Indicator Form completed by monitors is shown in ***Appendex H***.

A. LEVEL 1 MONITORING:

As indicated above, two full-time monitors are included on the staff of each ARS. The monitors have been provided with cameras to give the ARR management a pictorial view of the sub-projects. The monitors travel to ARR in Peshawar or Quettato report on the activities as follows: five provinces closest to Peshawar or Quetta — Logar, Paktya, Konar, Kandahar, and Pakteka — every month; those somewhat more remote — Kabul, Kapisa, Parwan, Wardak, Helmand and Ghazni — every other month; and the farthest provinces — Takhar, Baghlan, Kunduz, Herat, Farah, Bamyan — every three months. If a monitor is unable to travel, he has to send the reports to ARR headquarters by other means. As in the previous plan, this happens about 10 percent of the time and particularly during the winter months for the most distant. ***See Chart 10.***

Last year plan monitoring forms were revised in order to consolidate a four-page form into a one-page from. The previous forms was designed to include three sub-

22

projects in the form. For the purpose of simplicity and clarity, the new form has been designed to enter only one project per form. The new form contains the same information as the previous one . ***See Appendix I.***

The re-designed form is adequate. It reports on a number of non-technical issues, including overall impact of the sub-project, community participation ownership of sub-project facilities, and payment of workers. The form is submitted to the chief of the monitoring section in Peshawar.

B. LEVEL 2 MONITORING

An additional 17 monitors perform an oversight function. They are not known to the ARS staff and periodically visit all nearby and approximately 75% of the more remote sub-projects. The monitors operate from ARR headquarters and report directly to the director of administration and the chief of party. This approach keeps the COP on top of the program and fully aware of the status of each sub-project and able to make management decisions based on the information provided

The ARSs in the nearby provinces are visited on a monthly basis and the distant ones are visited on the average on a quarterly basis if conditions permit. Assignments are alternated among provinces to insure that the monitors are not known to the ARS staff and do not become attached to a particular province.

C. LEVEL 3 MONITORING

The 1991/92 Plan called for technical inspections to be carried out by the Peshawar based staff, to be randomly scheduled, and to cover up to 25 percent of the sub-projects. ***See Chart 11.***

Currently, this level-3 monitoring consists of three teams, composed of 2 to 3 engineers. They conduct inspections continuously, the timing depending upon the weather and other uncertain circumstances. At least one visit by one of the teams has been made to sub-projects in 13 ARSs during the last year. A total of 840 inspections were made. ***See Appendex J.***

Upon completion of the technical inspection, the team meets with the ARSs management to discuss the findings. Where performance is found to be below standard, a workshop is held to discuss, instruct, and advise the concerned ARS management of ways and means to improve performance. In order to accomplish the objectives, ARR headquarters provides technical assistance needed. This may include temporary assignment of engineers, surveyors, foremen, or any other personnel required.

In addition to the Level-1, 2 and 3 monitoring, the ARR management obtains reports and receives information covering the activities in the ARS's area from local commanders, community leaders, elders, and other Afghan non-government organizations (NGOs).

VIII. AFGHAN ENTITY DEVELOPMENT

The Cooperative Agreement states that "the Recipient will , in collaboration with the Agriculture Officer, develop a Statement of Work for a sub-contract to assist the Recipient in conducting an assessment of the feasibility to establishing an independent Afghan entity capable of implementing rural infrastructure rehabilitation as well as attracting financial and other resources from bilateral and multinational donors.

VITA negotiated a subcontract with the Massachusetts Institute of Technology (MIT) to determine the feasibility of creating an Afghan entity for rural reconstruction. The 1991-92 year plan delineated in detail the tasks of the MIT consulting group. The group, consisting of a team of seven, completed a feasibility study entitled "Engineering and Planning for Rural Reconstruction in Afghanistan". The report dated October 1991 was submitted to USAID.

IX. Amendment No. 9, dated September 22, 1992.

A. Article I. B. III. "Specific Objectives of the Cooperative Agreement." - Environmental Protection Process

This article states: "Within 60 days of signing the amendment to the Cooperative Agreement, the Grantee shall develop and submit to the O/AID/REP for approval, a process to assess and report on environmental conditions and potential impact of proposed project activities. The process shall include a team of qualified and experienced staff members who survey proposed rehabilitation sites and classify them according to the type of action necessary to protect the environment, such as monitoring, safeguards, or partial environmental assessment. The process shall also include a review of any environmental data which were gathered in previous project activities, or which will in the future be gathered. A method shall be developed to incorporate this information into proposed rehabilitation activity engineering designs which are submitted to the O/AID/REP for approval prior to implementation."

B. Article I. B. III. c. - Training

This article states "The Grantee's existing training program shall be expanded to include training in environmental monitoring and protection for all contractors and sub-contractors working on rehabilitation activities. Instruction shall include such safeguards as erosion protection, local catchment vegetation management, sedimentation prevention, and construction waste disposal. The structure and contents of the environmental training shall be submitted to the O/AID/REP for approval on or before October 31, 1992 and thereafter shall be set forth in the Grantee's training plan which is included in the Consolidated Annual Implementation Plan."

ARR submitted to the mission the draft entitled "Environmental Protection Process and Related Training". The report included forms for monitoring completed, ongoing, planned, and future projects. An extensive training program for all ARR

headquarters personnel, ARS directors and assistant directors, and monitors is also included in that report. The forms are in ***Appendix K***. The training schedule has been revised in order to complete the environmental training at the earliest possible date and prior to any transition of the project headquarters to Afghanistan. This of course depend on an early approval of the "Environmental Protection Progress and Related Training" report by the mission.

A training section on the EPP was conducted by the consultant for the monitor on October 19. A workshop for the ARS directors is scheduled for Environmental Protection Process from November 1 to 6, 1992. The consultant will conduct training on the subject during that period. During the training session with the ARS directors and deputies, the environmental problems in Afghanistan were discussed at length. Two of their main concerns were the salination of fertile agricultural land due to excessive irrigation and lack of water conservation practices and the health problems generated by the lack of potable water supplies and simple sewage disposal facilities.

C. Article I. B. IV. - Management Information, Plans and Documentation

Transition Plan :

This article states "The Grantee shall develop a transition plan that sets froth a mechanism for ensuring, to the extend possible, that ARR project activities can be sustained inside Afghanistan once a bilateral program is established. The plan should take into consideration the needs, resources, and priorities of the emerging Government of Afghanistan and relevant ministries. The plan should provide guidelines for implementation that include methods of contracting for and/or entering into agreements for continuation of project activities. The Grantee shall submit the Transition Plan to the O/AID/REP for approval on or before March 31, 1993, unless otherwise agreed to in writing by the Chief of ARD."

ARR/VITA is now in the process of gathering as much information as possible as to the actual or expected composition of the Afghanistan government and physical infrastructure to develop a sound workable transition plan within the political, social, and economic environment encountered in the country. The transition plan will include a draft of a proposed Cooperative Agreement between USAID and the appropriate Afghan government ministry for the mission's consideration. It anticipated that the transition plan will be completed as scheduled by March 31, 1993.

D. Article I. B. IV. B - Semi-Annual Implementation Plan Revisions

This article states "The Grantee shall continue to revise its implementation plan on a semi-annual schedule during any extensions of the term of this Agreement. Revisions to the Implementation Plan shall continue to be submitted for O/AID/REP approval on or before April 1st and October 1st of each calendar year."

The last CAIP for the year 1991/92 covered the period of April 1, 1991 through May 30, 1992. This at the request of the Mission as it was anticipated that the project was to be terminated . Subsequently, the project has been extended twice, as follows:

Amendment No. 6, dated April 15, 1992 extended the Cooperative Agreement from May 31, 1992 through December 31, 1992 and Amendment No. 8, dated July 1, 1992 extended it from December 31, 1992 through April 30, 1994.

The plan for the year 1992/93 was to be submitted by June 1, 1992. The submission of the plan was delayed until October 31, 1992. For the purpose of continuity and to have a reliable plan to refer to, this plan covers the period from June 1, 1992 through May 31, 1993. The plan for the year June 1, 1993 through April 30, 1994 should be prepared and submitted to the mission by June, 1993. Thereafter, the plan should be revised and submitted to the mission by November 30, 1993.

E. Article V - Reporting Requirements Equipment Monitoring

1. Reports and Equipment and Maintenance Report :

This section sates "Procurement requests for equipment with a value of $5,000 or more shall identify the initial use and proposed location of each piece of equipment. Prior to procuring any new equipment with a value of $5,000 or more, the Grantee shall submit for O/AID/REP approval a plan for monitoring the new piece of equipment. The monitoring plan shall provide the O/AID/REP with the location and status of each piece of equipment at any time after its procurement until its disposal. In addition, the Grantee shall, to the maximum extend possible, incorporate existing equipment procured or granted under this agreement with an original value of $5,000 or more into its monitoring plan. The Grantee shall submit semi-annual equipment status reports to the O/AID/REP based on the monitoring plan, beginning October 31, 1992."

2. Equipment Operation and maintenance Report

This section states "The Grantee shall develop an operation and maintenance plan for each new piece of equipment procured or granted under this Agreement with a value of $5,000 of more. This plan shall include regular maintenance schedules based on actual use such as hours of operation, miles traveled, and cubic meters of material moved. In addition, the Grantee shall, to the maximum extent possible, incorporate existing equipment procured or granted under this agreement with an original value of $5,000 or more into its operation and maintenance plan. The Grantee shall submit semi-annual equipment operation and maintenance reports based on this plan, beginning October 31,1992."

This is a component that required close attention and monitoring by both the mission and ARR/VITA. USAID Missions have experienced that equipment, in particular motor vehicles, is highly abused. And also it is an area that receives close scrutiny by auditors and inspectors.

ARR/VITA has established new requirements for reporting on equipment inventory and location, equipment maintenance and operation reports, and the preparation of justifications for procurement of new equipment. A report on the regular maintenance plan and a schedule of the mobile maintenance units visit ARS has been prepared and submitted to the mission. In addition an inventory list of vehicles and other major project equipment giving their present location is being implemented. The forms are shown in ***Appendix L*** .

The reports will be submitted to the mission on a regular (quarterly) basis.

ACKNOWLEDGEMENTS

Sincere appreciation to Eng. Mohammad A. Sediq, COP, for his outstanding support throughout the planning exercise and making his staff both from headquarters and the ARSs readily available to collaborate on the preparation of the plan and for reviewing the draft report. His comments and suggestions have been incorporated in the final document. The outstanding support of the ARR/VITA staff and in particulat Mr. Robert B. MacMakin, DCOP, for reviewing the report and his assistance in finalizing the document.; Mr. Russell Wallace for providing financial figures; Mr. Asadullah Noori for his assistance throughout the preparation of the plan; Eng. Abdullah Aini and Mr. A. A, Malikzai for their inputs on training and monitoring is highly appreciated. Special thanks to Mr. Mohammad Bashir, senior computor technician, for his assistance in preparing the report.

AGRICULTURE & RURAL REHABILITATION
HEADQUARTERS SENIOR STAFF - PESHAWAR

No.	Name	Position	Education	Experience
1	M.M.A. Sediq	Chief of Party	MS Civil Eng, Univ. Tennessee	Pres., Rural Development Dept. (RDD), Kabul Senior Eng. USAID Project-Lesotho, Yemen
2	A.A. Bahrami	Chief, Rural Dev. Div	MS Civil Eng, Purdue Univ	Professor, Faculty of Eng, Kabul Univ, Director, Min of Public Works Kabul.,Prcs, Planning, Design, Kabul Municipality; Coordinator of All UNHCR-funded Costruction & Maint. projects. NWFP.
3	Abdullah Aini	Dir,. Training	ME Civil Eng, Roorkee Univ, India GenDir,	Hydrology, Kabul; Press., Irrigation project, Baghlan Prov.; Senior Eng., Water & Power Consultancy in Afghanistan (WAPECA)
4	M.I. Imam	Dir., Field Coordination	BS Civil Eng, Kabul Univ. Graduate courscs, Engineering Management, Indiana Univ.	Dir. of Construction Kabul Univ. DirGen Planning & Program, RDD Kabul; DirGen. Planning, Kabul Municipality.
5	Asadullah Noori	Deputy, Field Coordination	BS Agriculture, Kabul University, Course - Microcomputers in Agriculture, New Mexico	Ministry of Agriculture, Kabul, Forestry
6	Ghulam Farooq	Dir., Eng.Services	BE Civil Eng, Jodhpur Univ ,India	Tech. Dir., RDD, Kabul, Project Mgr., TIPAN Project, Agric. Univ., Peshawar.
7	Qari Hamidullah	Dir. Gen. Support Serv	BA English & Persian, Kabul Univ.	Dir. Said Jamaluddin High School, Peshawar; Mujahideen rep. in Lahore (Liaison with aid donors to Afghanistan)
8	M. H. Malikzai	Dir., Monitoring	BS Kabul Univ Dipl (Weat & (CIMMYT) Breeding of cereal Mexico	DirGen, Ag Research and breeding - Kabu,l Herat , Baghlan, Nangarhar Contracts, Min Water & Power, Kabul
9	G. S. Rosebeh	Dir., Design/Acting Director Eng. Ser.	BS Eng. Kabul, Hydraulics Colo.rado. /Den ver, Irrigation Tokyo	Design Engineer, Water and Powar, Afghanistan
10	Kh. Samiullah	Dir., Machinery & Transport	BS ME Kabul Univ	Min. Water and Power.
10	A. Rahim Saleem	Dir., Estimation	BS Eng. Kabul	Tech. Univ. Kabul ,USAUD/AEG 1965/70, Afghanaid NGO, Assist. Log. Coord., Mini of Mines and Industries AIG
11.	Haji Zaheruddin	Dir., Survey	Grad., Afghan Institute of Technology	Rural Development Department, Afghanistan,

Chart 1

USAID Agriculture & Rural Rehabilitation Project

VITA Organization Chart

As of 31 August 1992

Peshawar	158
Quetta	9
Afghanistan	307
Total	471

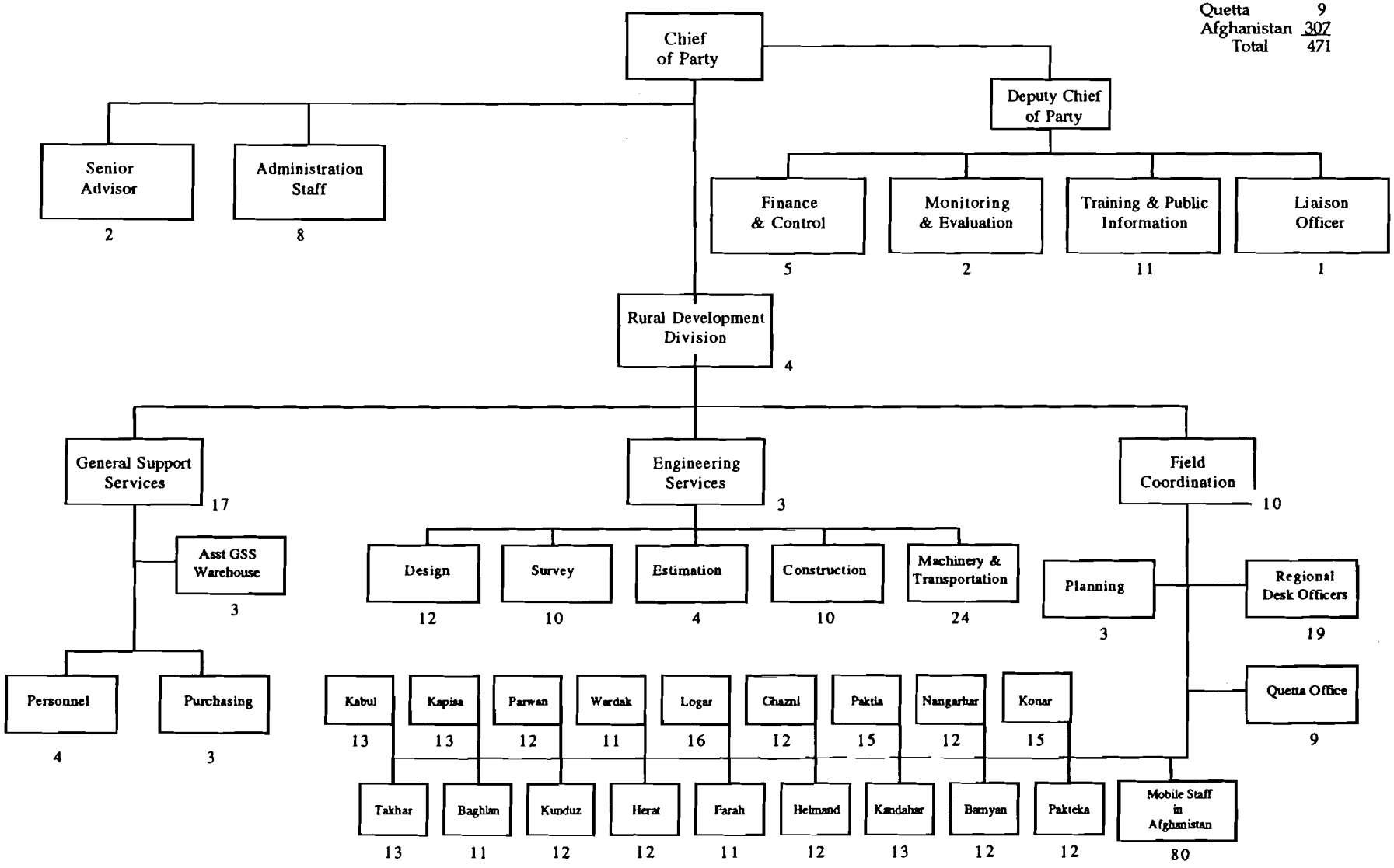


Chart 2

ORGANIZATION CHART
QUETTA OFFICE

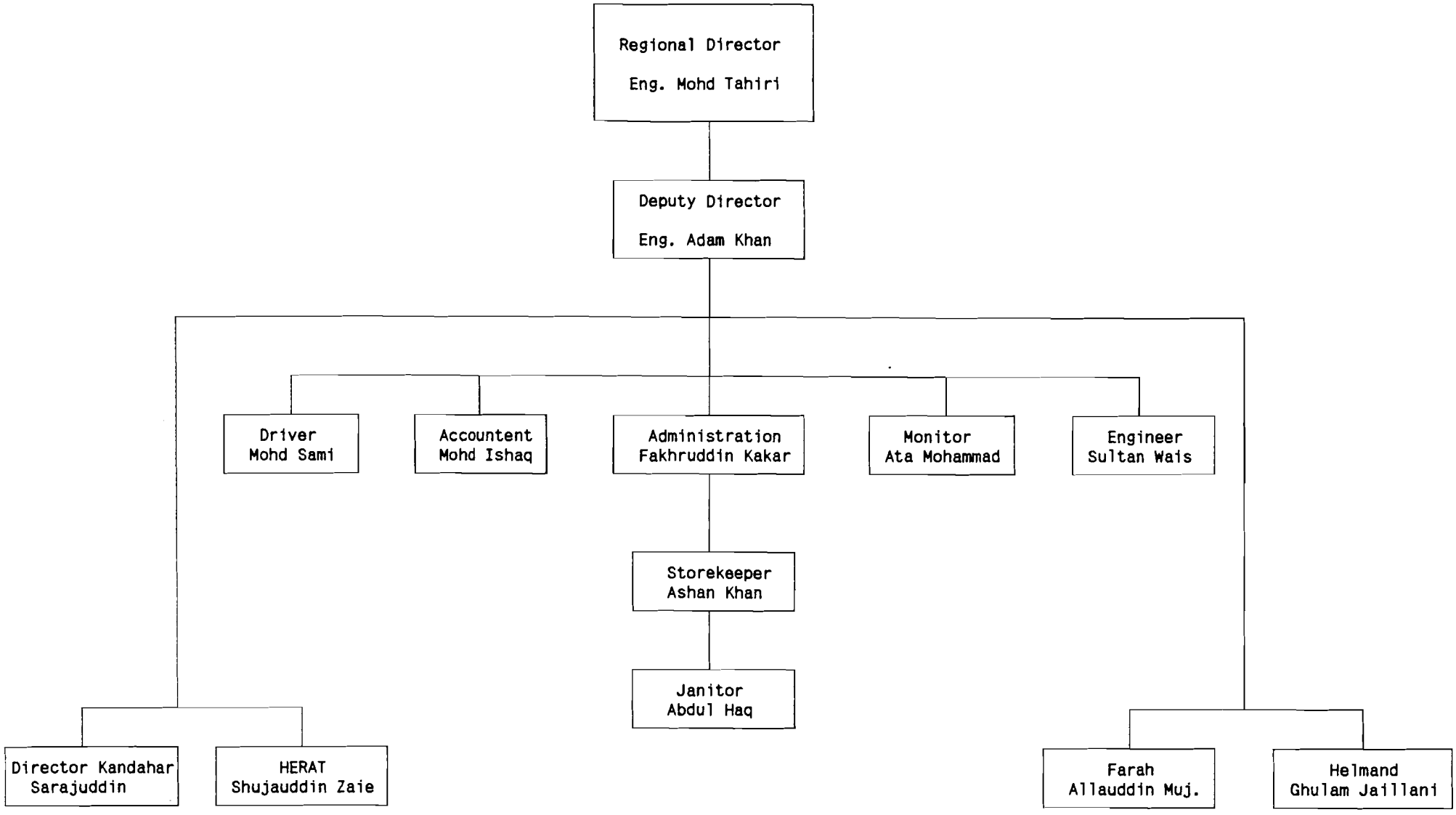
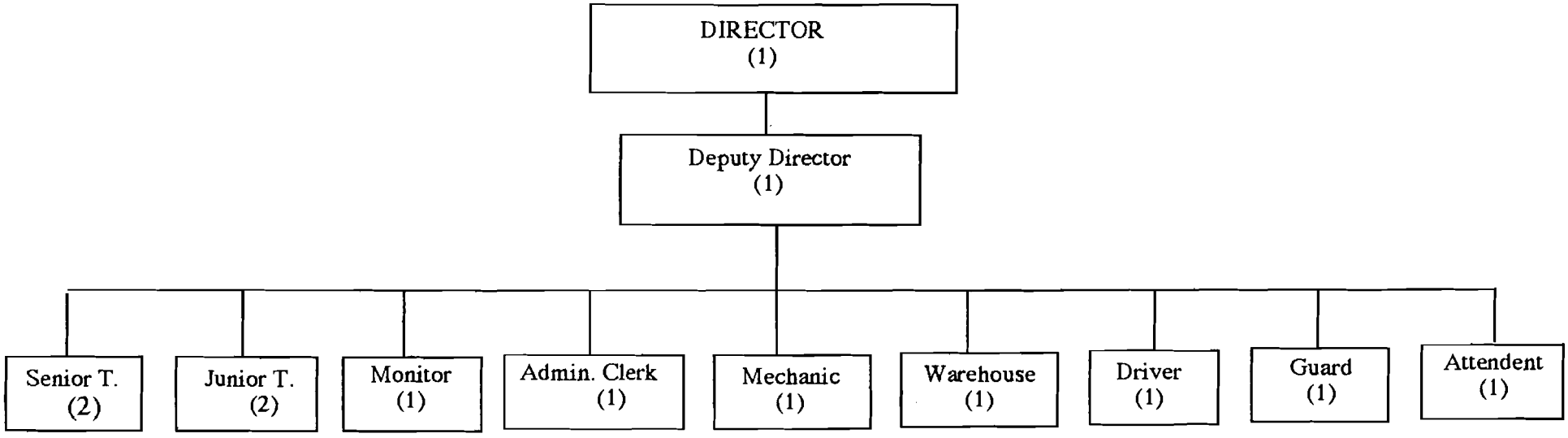


Chart - 3

0RGANIZATION CHART -- typical ARS



Staffing of Kapisa ARS (typical)

1.	Director	Gul Aqa Haidari
2.	Deputy Director	Eng. Khan Alam
3.	Senior Technician	Eng. Enayatullah
4.	Senior Technician	Eng. Sayed Jan
5.	Junior Technician	Eng. Abdul Ghafar
6.	Junior Technician	Eng. Ruhullah
7.	Monitor	Abdul Rehman
8.	Admin. Clerk	Abdul Wakil
9.	Driver	Mohammad Naim Tractor operator
10.	Mechanic	Aziz Aqa
11.	Guard	Abdul Rehman
12.	Attendent	Qand Aqa
13.	Warehouse	Senkandar Khan

Chart 4

AGRICULTURE & RURAL REHABILITATION

AGRICULTURE REHABILITATION SCHEMES - DIRECTORS & TECHNICIAN STAFF

ARS	DIRECTOR	EDUCATION	EXPERIENCE	STAFF QUALIFICATIONS
ARS-01, Kabul	Abdul Qadir Wazeen	Graduate, Cadastral Survey School, 1958	27 years	4 Engineers, 2 AIT
ARS-02, Kapisa	Gul Aqa Haidri	Graduate AIT	20 Years	5 Engineers, 1CSS
ARS-03, Parwan	Mohammad Daud	BS Engineering, Kabul Univ,. 1983	10 years	5 Engineers, 1 IRC course
ARS-04, Wardak	M. Noor Shaker	BS Engineering	11 years	2 Engineers, 5 AIT, 1 3rd year ploy
ARS-05, Logar	S. A. Samad	High school graduate, 1973	16 years	2 Engineers 1 CSS
ARS-06, Ghazni	Mohammad Halim	BS Engineering, Kabul Univ,. 1978	15 years	5 Engineers, 1 CSS
ARS-07, Paktya	Ghulam Sakhi Maaz	BS Engineering, Kabul Polytechnic 1979	10 years	5 Engineers, 1 BS (Army Univ.), 1 CSS
ARS-08, Nangarhar	Abdul Ahmad	Three years Engineering ,Kabul University	8 years	2 Engineers
ARS-10, Kunar	Torealay	BS Engineering, Kabul Univ,. 1984	9 years	3 Engineers, 1 AIT, 2 RDD Course
ARS-11, Badakhshan	New			
ARS-12, Takhar	Zekria	BS Engineering, Kabul Polytechnic 1972	20 years	4 Engineers, 1 CSS, 1 3rd year poly
ARS-13, Baghlan	Mohammad Ashraf	Graduate, Cadastral Survey School, 1960	25 years	1 Engineer, 1 CSS, 1 AIT
ARS-14, Kunduz	M. Omar	BS Eng Polytechnic Kabul 1984	20 years	6 Engineers, 1 GRD Course
ARS-15, Samangan	New			
ARS-16, Balkh	New			
ARS-20, Herat	Shajauddin Ziai	BS Engineering, Kabul Polytechnic 1978	15 years	4 Engin., 1 BS (Army U.) 1 2nd year Law, Kabul, U.
ARS-21, Farah	Allahuddin Mojadadi	Graduate, High school, 1971	21 years	1 Engineer, 1CSS, 1 Graduate, Mechanical School
ARS-23, Helmand	Ghulam Jilani	Graduate, High school	20 years	2 Graduate AIT school
ARS-24, Kandahar	Sarajuddin	Technical H.S (mechanics), Helmand, 1970	22 years	2 CSS, 1 graduate Mechanical S., 1 2nd year ploy
ARS-28, Bamyan	S. Esmatullah Hashmat	BS Eng Kabul University	8 years	1 CSS, 1 AIT, 1 graduate Mechanical School
ARS-29, Patika	M. Zahir Haidri	Graduated High school	20 years	1 Engineer, 2 CSS, 1 GRD Course, 1 AIT
Quetta Office	M. Qasim Tahri	B.S Faculty of Science Kabul Univ.	20 years	
	Adam Khan	BS Engineering, Kabul Univ,	20 years	

AIT= Afghan Institute of Technology
CSS= Cadastral Survey School
IRC= International Rescue Committee
RDD= Rural Development Division
GRD= Gulzar Rural Development
Poly= Kabul Polytechnical Institute

Chart 5

USAID / AGRICULTURE SECTOR SUPPORT PROJECT

Agriculture & Rural Rehabilitation

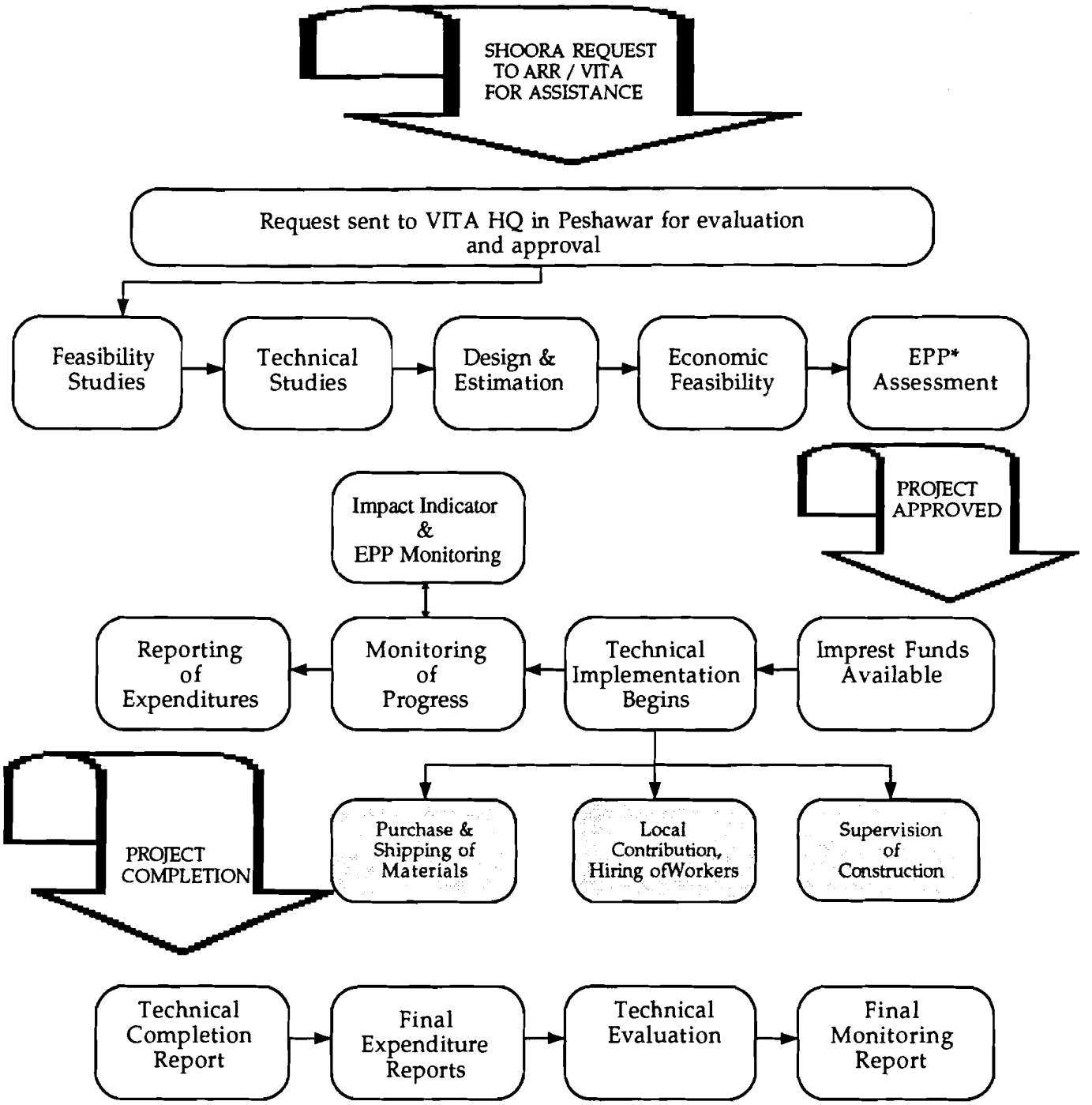
Agriculture Rehabilitation Schemes (ARSs) in Afghanistan
As of October 1992

Chart 6

BEST AVAILABLE COPY

USAID / Agricultural Sector Support Project
Agriculture & Rural Rehabilitation

FLOW CHART OF A TYPICAL PROJECT



** EPP = Environmental Protection Process*

Volunteers in Technical Assistance (VITA)

Chart-7

CONSOLIDATED ANNUAL IMPELENTATION (CAIP)-1991-92 YEAR Plan
PROGRAM COMPONENT: ENGINEERING SERVICES

1992-93 year Plan							
No.	ACTIVITY	JJA	SON	DJF	MAM		Remarks
1	Required Services Identified			***	*		Note: This plan is prepared in the event that the engineering services are required. Hawever it is anticipated that such services will not be needed in the foreceable future
2	Prepare Individual Scopes of work for Consultants			***	*		
3	Prepare delivery orders. & obtain O/AID/Rep. Approval			**	*		
4	Select Consultants & Obtain O/AID Rep. Aprov			**	*		
5	Consultants on Site VITA HQs			**	**		
6	Reconnaissance trips inside Afghanistan			**	**		
7	Preparation of design sketches, outline specifications & cost estimates for the guidance of ARR staff who would complete the design work.			**	*		
8	Supervision of work undertaken by VITA staff			**	**		

Chart 8

CHART 9

1992/93 YEAR PLAN TRAINING PROGRAM - SEHEDULE

No.	COURSE. NAME	COURSE COVERAGE	1992 - 1993												REMARKS
			J	J	A	S	O	N	D	J	F	M	A	M	
1.	Materials Management	Warehouse Management. Stock requisition, inventory and procurement.	21	25											
2.	Overseas Training	Projects planning and Analysis for Agricultural and Rural Development.	1	10											
3.	Overseas Training	Micro-computer Application in Rural Development.		6	14										
4.	Overseas Training	Project implementation for Agricultural and Rural Development.		13	21										
5.	Overseas Training	Training of Trainers for Agricultural and Rural Development.			10	18									
6.	Overseas Training	Design & Management, of Rural Development.				14	23								
7.	Monitoring	Monitoring techniques, qualititative and quantitative monitoring, data collection environmental protection process, mathematics.					11	22							EPP done by consultant october 17.

1992/93 YEAR PLAN TRAINING PROGRAM Page # 2 - SEHEDULE

No.	COURSE. NAME	COURSE COVERAGE	1992 - 1993												REMARKS
			J	J	A	S	O	N	D	J	F	M	A	M	
8.	ARSO Workshop	Environmental protection process, projects Identification, projects surveying and planning, Finance, filling forms.						1 12							EPP to be done by consultant from November 1 - 6
9.	Fundamental of Engineering For Engineers	Technical English, fundamentals for Engineering, basic assessment, special courses (irri. road and bridges) surveying, design, calculation-mathematics and drawing, EPP.							13			11			
10.	Fundamentals of Engineering for Engineers	Technical English, fundamentals for technicians, special courses (const. manage. and project evaluation), basic assessment, construction I (foundation), construction II (Road and Bridges) drawing, mathematics, use of calculators, EPP.							13			19			
11.	Bachoe Loaders	Operating & Matainance of Backhoes.							20	31					
12.	EPP Phase - I (1 Section)	Environmental protection process.						17	23	24	27				
13.	EPP Phase - II (1 Section)	Environmental protection process.										14	18		

1992/93 Year Plan Training Program - Page # 3 - Schedule

No.	COURSE. NAME	COURSE COVERAGE	1992 - 1993												REMARKS
			J	J	A	S	O	N	D	J	F	M	A	M	
14.	EPP Phase - 1	EPP Training										14	18		
15.	EPO Environmental Protection Process	Training in the USA Environmental Training.									20		20		
16.	Environmental Protection Process Monitoring	Training in The USA Environmental Training.									20		20		
17.	Overseas Training	Training & observation tour in intengrated rural development projects in Third countries. For 6 ARS directors										15	15		Third Country Training For ARS Directors Not Proficient in English Language.
18.	Monitoring	Same as No. 8.										15	31		
19.	ARSO	Same as No. 9.											4	15	
20.	Admin Officers	Warehouse managment, Stock registration, Inventory, materials request, time management & etc.											18	29	

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CIAP) - 1992 - 93 YEAR PLAN
PROGRAM COMPONENT: MONITORING 1992 - 1993

NO	ACTIVITY	1992 - 1993					REMARKS
		J.J.A	S.O.N	D.J.F	M.A.M		
1	Level-1 monitoring. One full-time monitor continuously present at each ARS	***	***	***	***		
a	Periodic quality control inspection						
b	One in-depth monitoring inspection of each sub-project.						
c	Monitoring of overall progress of ARS.						
d	Completed of impact indicator forms.						
e	Obtaining the prices of construction materials from areas under monitoring.						
f	Completion of EPP-I & EPP-II forms. The forms are to be completed by the ARS directors or an ARS engineer.						
2	Level-2 monitoring. Spot check on Level-1 monitors for up to 30% of sub-projects.	***	***	***	***		
a	Monthly visits to Kabul, Kapisa, Parwan, Logar, Paktya, Nangarhar , Kunar, Paktika,						
b	Bimonthly visit to Ghazni, Wardak, Helmand,						
c	Quarterly visit to Takhar, Baghlan, Kunduz, Herat, Farah, Kandahar, Bamyan.						
3	Level-3 monitoring. Tehchnical inspections by ARR/Pesh. staff for a portion of sub-projects all ARS's. Up to 30% of all sub-projects visited.	***	***	***	***	**	
	TCN LBII engineers visit sub-projects						Anticipated services will not be required.

NOTE:
1. For 92/93 Year Plan Helmand, Nangarhar, Wardak and Herat monitors recently appointed.
2. Sub-project are visited by Level-1 monitors twice i.e. at the time projects are 50% completed and after complections.

Chart 10

Level - I - Monitoring
Sub-Projects Inspected
April 1991 - May 1992

ARS NO.	Province	Irrigation	Bridges & Road	Total Inspec.	Total Comp. Under Const.	Remarks
01	Kabul	75	3	78	56	
02	Kapisa	35	--	35	18	
03	Parwan	10	10	20	36	
04	Wardak	113	13	126 *	34	
05	Logar	127	5	132 *	47	
06	Ghazni	128	--	128 *	13	
07	Paktya	92	4	96	109	
08	Nangarhar	--	--	--	--	New ARS
10	Kunar	21	11	32	44	
12	Takhar	9	14	23 *	10	
13	Baghlan	107	2	109	70	
14	Kunduz	--	--	--	33	
20	Herat	3	2	5	31	
21	Farah	3	1	4	36	
23	Helmand	-	--	--	--	New ARS
24	Kandahar	35	4	39	62	
28	Bamyan	11	9	20	27	
29	Paktika	84	3	87 *	22	
Total:-		853	81	934	638	

* Some projects are inspected several times and visit is on record as on inspection

Chart 11

Level - III- Monitoring
Sub-Projects Inspected
April 1991 - May 1992

ARS NO.	Province	Irrigation	Bridges & Road	Total Inspec.	Total Comp. Under Const.	Remarks
01	Kabul	45	1	46	56	
02	Kapisa	25	--	25 *	18	
03	Parwan	50	1	51 *	36	
04	Wardak	105	8	113	34	
05	Logar	114	3	119 *	47	
06	Ghazni	40	--	40	13	
07	Paktya	140	3	143	109	
08	Nangarhar	--	--	--	--	New ARS
10	Kunar	50	6	56 *	44	
12	Takhar	3	3	6	10	
13	Baghlan	--	--	--	70	NO MONITOR
14	Kunduz	--	--	--	33	NO MONITOR
20	Herat	--	--	--	31	NO MONITOR
21	Farah	42	--	42	36	
23	Helmand	--	--	--	--	New ARS
24	Kandahar	36	5	41	62	
28	Bamyan	15	2	17	27	
29	Paktika	140	3	143 *	22	
Total:-		805	35	840		

* Some projects are inspected several times and visit is on record as on inspection

Chart 12

TABLE - A
1987/91 - 1991/92
PLANNED COMPLETED & UNDER CONSTRUCTION
SUB - PROJECTS

		1987/91		1991/92				
No.	ARS	PLAN	COMP.	PLAN	+ OR -	TOTAL	COMP.	U.C.
01	KABUL	954	770	84		84	54	2
02	KAPISA	24	11	18		18	9	9
03	PARWAN	112	101	40		40	27	9
04	WARDAK	940	715	80		80	26	8
05	LOGAR	403	294	46		46	38	9
06	GHAZNI	430	420	24		24	10	3
07	PAKTIA	223	83	69		69	103	6
08	NANGARHAR	NEW ARS						
10	KUNAR	116	80	42		42	28	16
11	BADAKHSHAN	NEW ARS						
12	TAKHAR	18	19	18		18	6	4
13	BAGHLAN	80	37	51		51	69	1
14	KUNDUZ	45		54		54	5	28
15	SAMANGAN	NEW ARS						
16	BALKH	NEW ARS						
20	HERAT	42	42	35		35	26	5
21	FARAH	30	30	114		114	35	1
23	HELMAND	NEW ARS						
24	KANDAHAR	437	165	62		62	58	4
28	BAMYAN	39	1	56		56	11	16
29	PAKTIKA	485	286	101	6	107	19	3
	TOTAL	4378	3054	894	6	900	524	124

VITA/ARR suspended the approval of Karezes during last year plan and non were planned for 1991/92. However, a total of 223 Karezes were completed from previous years, amounting to 3855 sub-projects completed as of end of October 1993

TABLE - B
PLAN YEAR 1992/1993 (JUNE 1, 92 - MAY 31, 93)
SUB-PROJECTS PLANNED

		IRRIGATION										ROAD & BRIDGES				Amount + Budget	
CODE No.	ARS	Jui	Flumes	Dams Syphone	Intake	Ret. Walls	Syphone	Irrigation Wells	Canals	Spring	Sub-Total	Roads	Bridges	Culv-erts	Sub-Total	Total No.	Total in Rupees
01	KABUL	22			2	1					25	5			5	30	7,064,457
02	KAPISA				8	6			2	1	17	7	6		13	30	5,640,885
03	PARWAN	10			1	2					13	7	4		11	24	4,161,034
04	WARDAK	6	1	4	26	13					50	8	1		9	59	4,993,417
05	LOGAR	40	2		7	7	1				57	4	5	2	11	68	4,338,268
06	GHAZNI	11	1		2	4			1		19	3	2	6	11	30	3,015,708
07	PAKTIA	4	3		6	2	8				23	5	1		6	29	5,671,259
08	NANGARHAR	30			5	5	2				42	5	1	5	11	53	2,195,632
10	KUNAR	24	2		3	6					35	3	3		6	41	9,980,561
11	BADAKSHAN	NEW	ARS								0				0	0	
12	TAKHAR	7	1		6	8					22	3	3		6	28	4,615,779
13	BAGHLAN	52			1	1		2	23		79	11	2		13	92	4,083,772
14	KUNDUZ	20						1			21	7			7	28	3,024,938
15	SAMANGAN	NEW	ARS								0				0	0	
16	BALKH	NEW	ARS								0				0	0	
20	HERAT					1			14		15	1	3		4	19	2,202,700
21	FARAH	30							7		37	3			3	40	2,152,905
23	HELMAN	37									37	1	1		2	39	2,010,391
24	KANDAHAR	60	1		4				1		66	6	1		7	73	5,325,149
28	BAMYAN	21				8					29	4			4	33	1,446,071
29	PAKTIKA	10		14	8	8		4			44	3	3	10	16	60	5,780,654
	SUB-TOTAL:	384	11	18	79	72	11	7	48	1	631	86	36	23	145	776	77,703,580
	JALRAIZ -SABZ PARSA ROAD																7,872,471
														TOTAL:			85,576,051

Amount budgeted figures supplied by VITA/ARR financial officer

Note: Actual work on the project might begin right away or might await necessary funds. materials, and local security conditions, as well as its priority position with regard to other approved projects.

TABLE - C
1992/93 YEAR PLAN (JUNE 1, 92 - MAY 31, 93)
APPROVED SUB-PROJECT

		IRRIGATION				ROADS AND BRIDGES					TOTALS	
CODE No.	ARS	JUI	OTHER	SUB TOTAL	ESTIMATED COST (RS)	ROADS	BRIDGES	OTHER	SUB TOTAL	ESTIMATED COST (RS)	PROJECTS	COST (RS)
01	KABUL	28		28	862,604	1	0	0	1	912,901	29	1,775,505
02	KAPISA		4	4	1,546,898	0	0	0	0		4	1,546,898
03	PARWAN	7		7	160,295	2	0	0	2	1,126,550	9	1,286,845
04	WARDAK	4		4	44,109	5	0	0	5	8,016,122	9	8,060,231
05	LOGAR		9	9	2,298,667	0	4	0	4	471,488	13	2,770,155
06	GHAZNI	2	4	6	913,599	1	4	0	5	1,996,324	11	2,909,923
07	PAKTIA	3	7	10	3,381,958	1	0	0	1	464,499	11	3,846,457
08	NANGARHAR	3	0	3	98,371	0	0	0	0		3	98,371
10	KUNAR	8	2	10	2,235,278	0	1	1	2	3,205,192	12	5,440,470
11	BADAKSHAN			0					0		0	0
12	TAKHAR	2	4	6	1,246,087	1	1	0	2	1,138,214	8	2,384,301
13	BAGHLAN	22	2	24	1,324,651	1	0	0	1	577,890	25	1,902,541
14	KUNDUZ		1	1	26,586	4	5	0	9	3,933,268	10	3,959,854
15	SAMANGAN			0					0		0	0
16	BALKH			0					0		0	0
20	HERAT	13	0	13	1,179,316	0	0	0	0		13	1,179,316
21	FARAH	5	4	9	288,548	0	0	0	0		9	288,548
23	HELMAND	5	1	6	2,011,198	0	0	0	0		6	2,011,198
24	KANDAHAR	3	6	9	3,016,231	1	1	0	2	545,875	11	3,562,106
28	BAMYAN	13	3	16	512,228	2	2	0	4	601,602	20	1,113,830
29	PAKTIKA		6	6	374,891	0	0	0	0		6	374,891
	TOTAL:	118	53	171	21,521,515	19	18	1	38	22,989,925	209	44,511,440

Sub-projects have been estimated by VITA/ARR estimation department

Note: Actual work on the project might begin right away or might await necessary funds. materials, and local security conditions, as well as its priority position with regard to other approved projects.

TABLE - D
1992/93 YEAR PLAN (JUNE 1, 92 - MAY 31, 93)
SUB-PROJECT READY FOR APPROVAL

		IRRIGATION				ROADS AND BRIDGES					TOTALS	
CODE No.	ARS	JUI	OTHER	SUB TOTAL	ESTIMATED COST (RS.)	ROADS	BRIDGES	OTHER	SUB TOTAL	ESTIMATED COST (RS.)	PROJECTS	COST (RS)
01	KABUL	12	4	16	1,070,591	3	0	0	3	3,224,942	19	4,295,533
02	KAPISA	0	6	6	2,321,295	4	4	0	8	9,103,755	14	11,425,050
03	PARWAN	2	1	3	779,909	1	0	0	1	1,091,750	4	1,871,659
04	WARDAK	1	3	4	751,561	3	8	0	11	12,237,593	15	12,989,154
05	LOGAR	10	3	13	2,664,072	1	1	0	2	209,649	15	2,873,721
06	GHAZNI	6	7	13	6,259,585	0	0	0	0		13	6,259,585
07	PAKTIA	6	1	7	1,206,924	0	0	0	0		7	1,206,924
08	NANGARHAR	14	5	19	4,573,631	4	0	0	4	3,215,098	23	7,788,729
10	KUNAR	10	5	15	3,232,086	3	2	0	5	7,519,184	20	10,751,270
11	BADAKSHAN			0								0
12	TAKHAR		2	2	567,000	2	0	1	3	483,915	5	1,050,915
13	BAGHLAN	32	2	34	3,010,046	2	0	0	2	3,784,865	36	6,794,911
14	KUNDUZ	16	8	24	1,333,108	1	5	0	6	2,914,866	30	4,247,974
15	SAMANGAN			0					0		0	0
16	BALKH			0					0		0	0
20	HERAT	1	1	2	6,028,914	1	1	0	2	29,050,000	4	35,078,914
21	FARAH	8	0	8	1,325,229	0	0	0	0	0	8	1,325,229
23	HELMAND	12	0	12	4,203,431	0	0	0	0	0	12	4,203,431
24	KANDAHAR	15	2	17	4,095,614	0	1	0	1	698,600	18	4,794,214
28	BAMYAN	2	0	2	21,127	4	0	0	4	1,845,923	6	1,867,050
29	PAKTIKA		5	5	679,654	0	0	0	0		5	679,654
	TOTAL:	147	55	202	44,123,777	29	22	1	52	75,380,140	254	119,503,917

Sub-projects have been estimated by VITA/ARR Estimation Department

Table E
Expenditures
April, 1990 to May 1993

NO.	Province (ARSs)	APR90/MAY91	APR91/MAY92	JUNE 1992 TO MAY 1993		TOTAL
				ACTUAL JUNE92/SETP92	ESTIMATES OCT92/MAY93	
01	KABUL	7,776,108	6,763,670	1,442,607	5,621,850	7,064,457
02	KAPISA	1,316,314	5,553,212	2,373,485	3,267,400	5,640,885
03	PARWAN	2,463,299	3,205,589	1,696,069	2,464,965	4,161,034
04	WARDAK	2,155,616	2,154,340	2,744,677	2,248,740	4,993,417
05	LOGAR	1,096,186	3,239,955	2,079,918	2,258,350	4,338,268
06	GHAZNI	1,288,512	1,290,699	1,600,635	1,415,073	3,015,708
07	PAKTIA	2,558,971	5,456,155	2,384,639	3,286,620	5,671,259
08	NANGARHAR		98,277	1,080,633	1,114,999	2,195,632
10	KUNAR	6,288,172	9,311,904	3,839,771	6,140,790	9,980,561
12	TAKHAR	3,759,783	3,811,103	1,557,396	3,058,383	4,615,779
13	BAGHLAN	559,847	5,855,618	1,344,922	2,738,850	4,073,772
14	KUNDUZ	1,975	1,338,145	1,871,738	1,153,200	3,024,938
20	HERAT	168,008	2,541,061	970,217	1,232,483	2,202,700
21	FARAH	366,832	2,022,348	1,011,717	1,141,188	2,152,905
23	HELMAND		20,170	991,492	1,018,899	2,010,391
24	KANDAHAR	1,042,349	2,495,124	2,348,932	2,976,217	5,325,149
28	BAMYAN	290,953	897,168	773,371	672,700	1,446,071
29	PAKTIKA	3,434,204	4,851,680	2,265,796	3,514,858	5,780,654
	JALRIZ SABZ PARSA ROAD		3,503,122	5,148,036	2,724,435	7,872,471
	TOTAL (RUPEES)		64,409,340	37,526,051	48,050,000	85,566,051
	TOTAL (U.S.$)	1,597,496	2,626,799	1,515,368	1,848,077	3,363,445

TABLE F

1992/93 YEAR PLAN TRAINING PROGRAM

No.	COURSE NAME	COURSE COVERAGE	DURATION	DATES CONDUCTED	TRAINEES POSITION	No.	COST (Rs)	REMARKS
1	Materails Management	Warehouse Management, Stock requisition inventory and procurement.	One Week	June 21-25 1992	ARR HQRS Admin clerks & store keeprs	16		Completed Conducted by ARR Senior Staff.
2	Overseas Training	Projects Planning and Analysis for Agricultural and Rural Development	six Weeks	June 1 - July 10, 1992	Asst Chief Engineering Services	1		Completed Conducted by ARR Senior Staff.
3	Overseas Training	Micro-computer Application in Rural Development	Six Weeks	July 6 - Aug. 14, 1992	Deputy Coordinator	1		Completed Conducted by U.S.D.A.
4	Overseas Training	Project Implementation for Agricultural and Rural Devel.	Six Weeks	July 13 - Aug. 21 1992	ARS Bamyan Director	1		Completed Conducted by U.S.D.A.
5	Overseas Training	Training of Trainers for Agricultural and Rural Development	Six Weeks	Aug. 10 - Sep. 18 1992.	Director of Training	1		Completed Conducted by U.S.D.A.
6	Overseas Training	Design & Managemment, of Rural Development	Six Week	Sep. 14 - Oct. 23 1992	Chief Engineering Services	1		Completed Conducted by U.S.D.A.

1992/93 Y E A R P L A N T R A I N I N G P R O G R A M

No.	COURSE NAME	COURSE COVERAGE	DURATION	DATES CONDUCTED	TRAINEES POSITION	No.	COST (Rs)	R E M A R K S
7	Monitoring	Monitoring techniques, qualititative & quantitative monitoring, data collection environmental protection process, mathematic.	Two Weeks	Oct. 11-22 1992	ARS Monitors + 5 ACLU.	19		
8	ARSO Workshop	Environmental Protection Process, Projects Identification, Projects surveying & Planning,Finance, filling forms.	Two Week	Nov. 1- 12 1992	ARS Officers +	18		Scheduled as planned conducted by VITA/ARR consultant & VITA Staff.
9	Fundamental of Engineering for Engineers	Technical English, fundamentals for engineering,basic assessment, special courses (irri. road and bridges) surveying, design, calculation-mathematics and drawing, EPP	Tewlve Weeks	Dec. 13,92 to Mar. 11,93	ARS Engineers	25		Outside Consultant and VITA/ARR Staff
10	Fundamentals of Engineering for Technician	Technical English, fundamental for technicians, special courses (const. manage. and project evaluation), basic assessment, construction I (foundation),construction II (Road and Bridges) drawing, mathematic, use of cal.,EPP.	Tewlve Weeks	Dec. 13 - to Mar. 19 1993	ARS Technician	25		Outside Consultant & VITA/ARR Staff.
11	Bachhoe Loaders	Operating & Mantainance of Backhoes.	Two Week	Dec. 20-31 1992	ARS Backhoe Operators	15		Part DD = 48,000 Travel = 45,000 Planning Training (3,000) 96,000

No.	COURSE NAME	COURSE COVERAGE	DURATION	DATES CONDUCTED	TRAINEES POSITION	No.	COST (Rs)	REMARKS
12	EPP Phase - I (1 Section)	Environmental Protection Process.	One Week	Jan. 17-23 1993	Managers & Engineers	10		To be Conducted by Outside Consultant for HQRS Managers & Engineers.
13	EPP Phase - II (1 Section)	Environmental Protection Process.	One Week	Mar. 14-18 1993	Monitors	18		To be Conducted by Outside Consultant & HQRS personnel
14	EPP Phase - I	EPP Training	One Week	Mar. 14-18 1993	ARS Assit. Directors	18		
15	EPO Environmental Protection Process	Training in the USA Environmental Training	Two Months	Feb. 20 to Apr. 20, 1993	EPO	1		To be Conducted by Appropriate Institutions in U.S.A (to be selected)
16	Environmental Protection Process	Training in the USA Environmental Training	Two Months	Feb. 20 to Apr. 20, 1993	HQRS Managers & ARS Engineers	8		To be Conducted by Appropriate Institutions in U.S.A. (to be selected)
17	Overseas Training	Training & observation tour in intengrated rural development projects	Four Weeks	Mar. April 1993	ARS Directors & Asst. Dir.	6		Training in third country.
18	Monitoring	Same as No. 8.	Two Weeks	Mar. 15-31, 1993	ARS Monitors	18		To be Conducted by VITA/ARR Staff
19	ARSO	Same as No. 9.	Two Weeks	Apr. 4 -15, 1993	ARS Officers	18		To be Conducted by VITA/ARR Staff
20	Admin Officers	Warehouse managment, Stock registration, Inventory, Materials request, Time management & etc.	Two Weeks	Apr. 18-29, 1993	ARS & HQRS Administrative Personnel	25		To be Conducted by VITA/ARR Staff

Table G.

1992/93 YEAR PLAN LOCAL TRAINING COSTS

NO	COURSE NAME	NO	DURATION	Participants Perdiem+Trvl (Rs)	Training Materials (Rs)	Local Transport (Rs)	Local Instructors (Rs)	U.S.A Training ($ US)	English Instructor (Rs)	Certificates & Misc. (Rs)	Total (Rs)	Remarks
1	Materials Management										69518	* Completed
2	Overseas Training							9505				* Completed
3	Overseas Training							8757				* Completed
4	Overseas Training							10,390				* Completed
5	Overseas Training							10,099				* Completed
6	Overseas Training							10,282				* Completed
								49,033				

* Actual cost as reported by ARR Senior Finance Officer

Table G.

1992/93 YEAR PLAN LOCAL TRAINING COSTS

NO	COURSE NAME	NO	DURATION	Participants Perdiem+Trvl (Rs)	Training Materials (Rs)	Local Transport (Rs)	Local Instructors (Rs)	U.S.A Consultant ($ US)	English Instructor (Rs)	Certificates & Misc. (Rs)	Total (Rs)	Remarks
7	Monitoring										62.700	* Completed
8	ARSO Wrokshop	18	2 Weeks	75000	3000	--	--		--	15,000	93,000	
9	Fundamentals of Engineering for Engineers	25	12 Weeks	525,000	25000	5000	15000	32,000	10,000	10,000	590,000	Consultant will Handle No. 9 & 10
10	Fundamentals of Engineering for Technician	25	12 Weeks	525,000	25000	4000	18000		10,000	10,000	592,000	
11	Bachoe Loaders	15	2 Weeks	65,000	3000	--	--		--	8,000	76,000	
12	EPP Phase - I (1 Section)	10	1 Weeks	--	2000	--	--	32,000	--	10,000	12,000	Consultant will Handle No. 12,13,14
				1,190,000	58,000	9,000	33,000	64,000	20,000	53,000	1,425,700	

Table G.

1992/93 YEAR PLAN LOCAL TRAINING COSTS

NO	COURSE NAME	NO	DURATION	Participants Perdiem+Trvl (Rs)	Training Materials (Rs)	Local Transport (Rs)	Local Instructors (Rs)	U.S.A. Training ($ US)	English Instructor (Rs)	Certificates & Misc. (Rs)	Total (Rs)	Remarks
13	EPP Phase - II (1 Section)	18	1 Week	45,000	2000	--	--		--	8000	55,000	
14	EPP Phase - I	18	1 Week	45,000	2000	--	--		--	8000	55,000	
15	EPO Environmental Portection Process	1						8,000				
16	Environmental Protection Process	8	8 Weeks					100,000				
17	Overseas Training	6	4 Weeks								490,000	Third country Training
18	Monitoring	18	2 Weeks	75,000	3000	--	--		--	8000	86,000	
19	ARSO	18	2 Weeks	75,000	3000	--	--		--	8000	86,000	
20	Admin Officers	25	2 Weeks	75,000	4000	--	--		--	8000	87,000	
				315,000	14,000			108,000		40,000	859,000	
TOTAL:-				1,505,000	72,000	9,000	33,000	221,033	20,000	93,000	2,284,700	

APPENDIX

TO THE

Consolidated Annual Implementation Plan

Second Year — 1991/92

Cooperative Agreement No. 306-0204-A-00-0767-00

between

Office of the A.I.D. Representative to Afghanistan

and Volunteers in Technical Assistance

for the Implementation of the

Agriculture Sector Support Project

Agriculture and Rural Rehabilitation

May 30, 1991

APPENDIX

A. PROGRESS AND PROPOSED SCHEDULE	A 1-17
B. ANNUAL IRRIGATION PLAN 1991/92 - FORM IR-1	B
C. ANNUAL IRRIGATION PLAN 1991/92 - FORM IR-2	C 1-16
D. ANNUAL ROADS AND BRIDGES PLAN 1991/92 - FORM RB-1	D
E. ANNUAL ROADS AND BRIDGES PLAN 1991/92 - FORM RB-2	E 1-16
F. VITA/LLBI CONTRACT - SCOPE OF WORK	F
G. TRAINING PLAN 1990/91	G 1-2
H. VITA/CID CONTRACT - SCOPE OF WORK	H 1-10
I. SUBPROJECT MONITORING FORM	I 1-2
J. MONITORING FORM REVISED	J 1-8
K. LEVEL-1 MONITORING FORM	K
L. LEVEL-3 MONITORING FORM	L
M. RURAL WORKS INSPECTION FORM	M 1-6
N. MIT CONTRACT SCOPE OF WORK	N 1-9
O. LIST OF AGENCIES ASSISTING AFGHANISTAN	O 1-2
P. SCOPE OF WORK, CONSULTANT ALDELMO RUIZ	P

CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (01) KABUL — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Abdul Qadier ARS Dir.

USAID/VITA

ARS Started: March, 1989. Started work Sept, 1988.

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	Years 1987-90 No. Comp	No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Karez - Rehab	713		359		85		150	150		0 — 85	*100	See Note 1 & 2
Jui - Rehab	40	83	40		100		47	47		0 — 100	0 — 100	* Schedule completion of Plan 90/91.
Flumes												
Dams												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells												
Canals												
Springs												
B. Roads & Bridges												
Roads No.	4		1		48					0 — 48	*100	
Roads (km).	103		32									
Bridges No.		1									0 — 100	
Bridges M.		19										
Culverts												
Retaining Walls												

Scheduled

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. Schedule includes carry over project for Plan 90/91.
2. An additional 366 projects were added at a later date to the original Plan for a total of 713 projects.
3. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	197	197				
1990/91	757	400		6,930,052		
1991/92	84		357		8,494,049	16,214,074

Appendix "A"

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56

CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (02) KAPISA — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Shahzada — ARS Dir.

USAID/VITA

ARS Started: June. 1990

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 A M J J A S O N D J F M	1991 - 92 A M J J A S O N D J F M A M	Remarks
A. Irrigation												* Estimated completion 90/91 Plan.
Karez - Rehab	20	1	9		45					0 45	100	See Note 1
Jui - Rehab		11									0 100	
Flumes												
Dams												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells												
Canals	2	5	1		98					0 98	*100 100	See Note 1,2
Springs												
B. Roads & Bridges												
Roads No.	2	1	1		60					0 60	*100 100	See Note 1,2
Roads (km).	33	7	20									
Bridges No.												
Bridges M.												
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate to complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. Work stop due to lack of Funds.
2. Schedule includes carry-over projects 1990/91.
3. Delayed construction Bridge Plan 90/91 because cable is not available in Afghanistan 91/92 Bridges are Plan to be concrete.
4. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90						
1990/91	24	11		1,379,637		
1991/92	18		2		2,205,123	4,818,382

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CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (03) PARWAN — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Mohd Daud — ARS Dir.

USAID/VITA

ARS Started: July, 1989

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	Years 1987-90 No. Comp	Years 1987-90 No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Karez - Rehab	41		31		76					0 — 76	100	See Note 1
Jui - Rehab	57	39	57		100		5	5		0 — 100	0 — 100	
Flumes												
Dams												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells												
Canals	4		4		100					0 — 100		
Springs												
B. Roads & Bridges												
Roads No.	3	1	2		65		1	1		0 — 65	*100 — 100	See Note 2
Roads (km).	51	24	15				13	13				
Bridges No.							1	1				
Bridges M.							45	45				
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

NOTES:

1. % Completion reflects progress on on-going projects.
2. * Indicates estimated date comlet-ion 90/91 Plan.
4. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	7	7				
1990/91	105	94		3,801,771		
1991/92	40		16		781,061	2,732,520

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

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58

AGRICULTURE SECTOR SUPPORT

I. Province - (04) WARDAK — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Mohammad Jan Mayar ARS Dir.

USAID/VITA

ARS Started: July, 1987.

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Karez - Rehab	131		287		99		496	340	156	0 — 99	100	See Note 1
Jui - Rehab	67	32	17		79					0 — 79	100	See Note 2,3,4
Flumes												
Dams												
Intakes	87	3	26		100					0 — 100	0 — 100	
Retaining Walls		30									0 — 100	
Irish Bridges												
Irrigation Wells												
Canals												
Springs	155		41		95					0 — 95	100	
B. Roads & Bridges												
Roads No.												
Roads (km).												
Bridges No.	4	15	4		100					0 — 100	0 — 100	
Bridges M.	80	300	80		-							
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. No. Complete includes projects carried over from years 1987-90 Plan.
2. Work stop on at the end of December 90 to the end of Jan, 91 due to the weather.
3. % completed reflects only projects approved.
4. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	496	340	156			
1990/91	444	375		2,125,616		
1991/92	80	0	11		1,000,884	3,400,884

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59

AGRICULTURE SECTOR SUPPORT

I. Province - (05) LOGAR

Agriculture & Rural Rehabilitation Project
USAID/VITA

Submitted by: Eng. Raz Gul Niazi ARS Dir.

ARS Started: Dec, 1987

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91	1991 - 92	Remarks
A. Irrigation												
Karez - Rehab	0	0	129		92		349	153	196	0 — 92	100	See Note 1,2
Jui - Rehab	30	30	21		7					0 — 7	100	See Note 1,3
Flumes		2									0 — 100	
Dams		1									0 — 100	
Intakes	4	3	0							0	100	See Note 3
Retaining Walls	3	5	1		60					0 — 60	*100 — 100	* Expected Date completion 90/91 plan.
Irish Bridges												
Irrigation Wells												
Canals												
Springs	7	0	7		100					0 — 100		
B. Roads & Bridges												
Roads No.	4	3									0 — 100	See Note 3
Roads (km).	36	47								0 — 45	*100 — 100	
Bridges No.	4	2	1									
Bridges M.	4.5	20								0 — 50	100	
Culverts	2		1		50							
Retaining Walls												

Scheduled
Progress:

Actual:

Scheduled:

LEGEND:

KTC= Estimate To Complete
UC = Under Construction
1990-91 - Previous Plan = 109
1991-92 - Current Plan = 29

NOTES:

1. % Complete includes progress on on-going projects.
2. 129 projects completed 1990/91 were carried over from previous years 87/90.
3. Projects progress delayed due to late approval.
4. Estimate includes KTC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	KTC	Estimate
1987/90	349	153	196			
1990/91	54	141		2,025,408		
1991/92	46		109		333,538	2,619,824

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60

CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (06) GHAZNI — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Mohd. Haleem ARS Dir.

USAID/VITA

ARS Started: May, 1988

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91	1991 - 92	Remarks
A. Irrigation										0 — 82	100	40 projects under construction from years 87/90 See Note 1
Karez - Rehab	8	8	214		82		418	155	263		0 — 100	
Jui - Rehab		9					1	1				
Flumes											0 — 100	
Dams		2									0 — 100	
Intakes	2	2										See Note 2
Retaining Walls							1	1				
Irish Bridges												
Irrigation Wells											0 — 100	
Canals		1										
Springs												
B. Roads & Bridges												
Roads No.												
Roads (km).											0 — 100	
Bridges No.		2										
Bridges M.		20										
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimated To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. % Complete reflects completion of projects carried-over from 1987-90 Plan.
2. Intake were approved on 1/23/91
3. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	420	157	263			
1990/91	10	214		1,300,000		
1991/92	24	0	49		233,283	2,896,799

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61

CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (07) PAKTIA — Agriculture & Rural Rehabilitation Project — Submitted by: Ghulam Sakhi Maaz ARS Dir.

USAID/VITA

ARS Started: July, 1989, Started work Aug, 1987.

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91	1991 - 92	Remarks
A. Irrigation												*Reflects completion Planned 90/91.
Karez - Rehab	137	17	50		47		50	10	50	0 47	*100 100	See Note 1,2
Jui - Rehab	24	41	21		92					0 92	*100 100	See Note 1,2
Flumes												
Dams											0 100	
Intakes		10										
Retaining Walls												
Irish Bridges												
Irrigation Wells												
Canals												
Springs												
B. Roads & Bridges												
Roads No.							2	2				
Roads (km).							176	176			0 100	
Irish Bridge No.		1										
Irish Bridge M.												
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. 50 projects carried over from Plan years 87-90, were completed and reflected in Plan year 90/91.
2. % Completion reflects progress on ongoing projects.
3. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	62	12	50			
1990/91	161	71		2,501,360		
1991/92	69		73		1,746,083	3,657,977

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62

CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT
Agriculture & Rural Rehabilitation Project
USAID/VITA

I. Province - (10) KUNAR Submitted by: Eng. Torealay ARS Dir.

ARS Started: Nov, 1987

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	Years 1987-90 No. Comp	Years 1987-90 No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Karez - Rehab										0 — 63	*100 — 100	
Jui - Rehab	81	34	59		63		8	8				See Note 1
Flumes	6	1	2		66					0 — 66	100	See Note 2 3 out of 6 approved.
Dams												
Intakes	3		3		100					0 — 100		
Retaining Walls	4	4	1		33					0 — 33	*100 — 100	See Note 2,3 1 out of 4 Planned approved.
Irish Bridges												
Irrigation Wells												
Canals												
Springs	2		2		100					0 — 100		
B. Roads & Bridges												
Roads No.	5	3			61		3	3		0 — 61	100	
Roads (km).	180	75					103	103				
Bridges No.	2						2	2				
Bridges M.	90				21		140	140		0 — 21	100	1 out of 4 approved.
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. % Complete reflects progress on on-going projects.
2. % completion includes progress or approved projects only.
3. * Date of completion 90/91 Plan projects.
4. Estimate includes ETC.

Year	No. Plan	No. Com	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	13	13				
1990/91	103	67		8,373,990		
1991/92	42		10		4,840,161	7,501,018

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PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (12) TAKHAR — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Zekria — ARS Dir.

USAID/VITA

ARS Started: Sept, 1987

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91	1991 - 92	Remarks
A. Irrigation												
Karez - Rehab										0 50	* 100	
Jui - Rehab	1	6	2		50		5	1	4		0 100	See Note 1 * Indicates completion on-going projects.
Flumes		2					1	9				
Dams											0 100	
Intakes		1									0 100	
Retaining Walls		1										
Irish Bridges										0 100	0 100	
Irrigation Wells	4	5	4		100							
Canals												
Springs												
B. Roads & Bridges												
Roads No.	2	2	1		75		2	0	2	0 75	100	
Roads (km).	55	42	53				105	64	41			
Bridges No.	3	1	2		71					0 71	100	
Bridges M.	15	6	10									
Culverts												
Retaining Walls												

- Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. No. complete year 90/91 shows 1 project complete from prior years 87/90. % complete indicates progress years 89/90 90/91 Plans.
2. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	8	10	6			
1990/91	10	9		5,529,652		
1991/92	18		7		1,948,231	4,874,115

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PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (13) BAGHLAN — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Mohd. Ashraf ARS Dir.

USAID/VITA

ARS Started: Feb, 1989

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 A M J J A S O N D J F M	1991 - 92 A M J J A S O N D J F M A M	Remarks
A. Irrigation												
Karez - Rehab	2		2		100					0 — 100		
Jui - Rehab	45	22	17		38			1		0 — 38	0 — 100	See Note 1
Flumes	1	1										
Dams												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells												
Canals	27	3	14		52			3		0 — 52	0 — 100	
Springs		25										
B. Roads & Bridges												
Roads No.	1											
Roads (km).	50											
Bridges No.												
Bridges M.												
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. Work stop on Dec 20/90 and Director departed for Peshawar and remained until end of April, 1991.
2. Plan for 91/92 takes into consideration time delays on projects approval.
3. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90		4				
1990/91	76	33		1,600,000		
1991/92	51		16		1,303,846	3,626,131

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65

PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (14) KUNDUZ — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Shah Jan — ARS Dir.

USAID/VITA

ARS Started: Sept, 1990

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Karez - Rehab												
Jui - Rehab	33	40	0		11					0 11	100	See Note 1.
Flumes												
Dams												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells	1				7					0 7	100	
Canals												
Springs	9	5			33					0 33	100	
B. Roads & Bridges												
Roads No.		1									0 100	
Roads (km).		8										
Bridges No.	2	8									0 100	
Bridges M.												
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. .....ARS Director arrived Peshawar in December & remained until end of Plan year. Unaware of progress.
2. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90						
1990/91	45			195,384		
1991/92	54		28		501,864	4,156,166

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66

CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT
Agriculture & Rural Rehabilitation Project
USAID/VITA

I. Province - (20) HERAT

Submitted by: Eng.Shajacdin Ziai ARS Dir.

ARS Started: Oct, 1990.

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 A M J J A S O N D	1991 - 92 J F M A M J J A S O N D J F M A M	Remarks
A. Irrigation												
Karez - Rehab	42	0	0		15					0 15	100	See Note 1
Jui - Rehab												
Dike (Flood control)												
Dams - Rehab												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells												
Canals		9									0 100	See Note 2,3
Springs												
B. Roads & Bridges												
Roads No.		1									0 100	
Roads (km).		28										
Bridges No.		3									0 100	
Bridges M.		15									0 100	
Culverts		22										See Note 2
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimated To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. Director in Peshawar since beginning of gulf conflict and not aware of field progress.
2. Blank spaces on Schedule indicate winter months when work is discontinued.
3. 9 canals & 1 road approved in Jan, 1991 while Director in Peshawar.
4. 9 canals & 1 road approved in Jan, 1991 while Director in Peshawar.
5. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90						
1990/91	42	0		168,008		
1991/92	35	0	42		566,992	7,282,450

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CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT
Agriculture & Rural Rehabilitation Project
USAID/VITA

I. Province - (21) FARAH

Submitted by: Alahuddin Majadidi ARS Dir.

ARS Started: Aug, 1990.

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 A M J J A S O N D J F M A	1991 - 92 M J J A S O N D J F M A M	Remarks
A. Irrigation												
Karez - Rehab		55									0 100	
Jui - Rehab	5	8	5		100					0 100	0 100	
Flumes												
Dams												
Intakes												
Retaining Walls												
Irish Bridges												
Irrigation Wells	25	50	25		100					0 100	0 100	
Canals												
Springs												
B. Roads & Bridges												
Roads No.		1									0 100	
Roads (km).		15										
Bridges No.												
Bridges M.												
Culverts												
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate to Complete
UC = Under Construction
1990-91 - Previous Plan
1991-92 - Current Plan

NOTES:

1. Estimate includes ETC

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90						
1990/91	30	30		188,530		
1991/92	114					3,140,011

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68

PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (24) KANDAHAR — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Sarajuddin ARS Dir.

USAID/VITA

ARS Started: Dec, 1987

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	Years 1987-90 No. Comp	Years 1987-90 No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Karez - Rehab	206		56		97		61	61		0 — 97	*100	See Note 1,2
Jui - Rehab	161	57	39		48		8	8		0 — 48	*100 — 100	See Note 1,3
Flumes		1									0 — 100	* Completion date of projects Plan 90/91.
Dams		1									0 — 100	
Intakes		1										
Retaining Walls												
Irish Bridges		1										
Irrigation Wells												
Canals												
Springs												
B. Roads & Bridges												
Roads No.		1					1	1			0 — 100	
Roads (km).		66									0 — 100	
Bridges No.												
Bridges M.												
Culverts												
Retaining Walls												

Scheduled

0 10 45 70 100

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
US = Under Construction
1991-92 - Current Plan

NOTES:

1. % Complete includes progress on on-going projects.
2. Out of 206 Karezes planned for year 1990/91 only 65 were approved. % completion reflects only those projects approved.
3. Out of 161 Jui projects planned for 1990/91 100 were approved. Only 39 projects were complete because work had to be discontinued due to the gulf conflict.
4. Estimate Includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	70	70				
1990/91	367	95		1,452,682		
1991/92	62		67		310,658	3,450,582

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69

PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (28) BAMYAN — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. S. E. Hasmat AES Dir.

USAID/VITA

AES Started: June 1990

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 A M J J A S O N D J F M	1991 - 92 A M J J A S O N D J F M A M	Remarks
A. Irrigation												
Karez - Rehab	32		0		58					0 58	100	See Note 1
Jui - Rehab	1	40									0 100	
Flumes												
Dams		1									0 100	
Intakes												
Retaining Walls		9									0 100	
Irish Bridges												
Irrigation Wells												
Canals	1											
Springs												
B. Roads & Bridges												
Roads No.	4	2	1		20					0 20	100	See Note 2
Roads (km).	20	30	5									
Bridges No.	1											See Note 3
Bridges M.	22											
Culverts		4										
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. % Completion reflects progress on on-going projects.
2. Delay due to bed Winter.
3. Delay due to lack of construction materials and resent floody
4. Estimate includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90						
1990/91	39	1		260,953		
1991/92	56		1		1,437,888	4,330,350

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70

PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT

I. Province - (29) PAKTIKA — Agriculture & Rural Rehabilitation Project — Submitted by: Eng. Janat Gul — ARS Dir.

USAID/VITA

ARS Started: May, 1987

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No UC	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												* Indicates date of completion project Plan 90/91
Karez - Rehab	239	50	76		85		196	196		0 — 85	100 * — 100	Note 1,3
Jui - Rehab	15		14		93					0 — 93	*100	See Note 3
Flumes	2	2									0 — 100	See Note 2,3,4
Dams	8	5									100	See Note 2,3,4
Intakes		1									0 — 100	
Retaining Walls	3	3									0 — 100	See Note 2,3,4
Irish Bridges	2	2									0 — 100	See Note 3,4
Irrigation Wells	12	8									0 — 100	See Note 2,3,4
Canals												
Springs		30									0 — 100	
B. Roads & Bridges												
Roads No.	1											
Roads (km).	76											
Bridges No.												
Bridges M.												
Culverts	7											
Retaining Walls												

Scheduled

Progress:

Actual:

Scheduled:

LEGEND:

ETC= Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

NOTES:

1. % Complete reflects progress on on-going project.
2. Plans/specfications/cost estimate were not ready until 4/91 and awaiting approval to start construction.
3. Schedule includes project carried over from 90/91.
4. Projects Planned for year 90/91 and not approved are shown in 91/92 Plan.
5. Estimate Includes ETC.

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	196	196				
1990/91	289	90		2,643,744		
1991/92	101		199		1,593,000	4,026,208

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71

PROGRESS & PROPOSED SCHEDULE
CONSTRUCTION & ERECTION
AGRICULTURE SECTOR SUPPORT
Agriclture & Rural Rehabilitation Project
USAID/VITA

ARR Project/VITA

Projects	No. Planned 90/91	No. Planned 91/92	No. Complete 90/91	No. Complete 91/92	% Complete 90/91	% Complete 91/92	Years 1987-90 No. Plan	No. Comp	No. UC Cont	1990 - 91 (A M J J A S O N D J F M)	1991 - 92 (A M J J A S O N D J F M A M)	Remarks
A. Irrigation												
Kares - Rehab	1571	131	1213		77.2		1730	1065	665	0 77	100	
Jui - Rehab	560	452	273		47.9		74	71	4	0 48	100	
Flumes	9	9	2		22.2		1	9		0 22	100	
Dams	8	10	-							10	100	
Intakes	96	21	29		30.2					0 30	100	
Retaining Walls	10	52	2		20.0		1	1		0	100	
Irish Bridges	2	3	-		-					0	100	
Irrigation Wells	42	63	29		9.5					0 10	100	
Canals	34	18	19		55.9			3		0 56	100	
Springs	173	60	50		28.9					0 29	100	
B. Roads & Bridges												
Roads No.	26	16	6		23.1		9	7	2	0 23	100	
Roads (km).										0 44	100	
Bridges No.	16	33	7		43.8		3	3		0 11	100	
Bridges (km).												
Culverts	9	26	1		11.1							
Retaining Walls	1											

0 Schedule 100

Legend:

ETC = Estimate To Complete
UC = Under Construction
1991-92 - Current Plan

Progress:

Actual:

Scheduled:

Year	No. Plan	No. Comp	Under UC	Funds (in Rupees) Expended	ETC	Estimate
1987/90	1818	1159	671			
1990/91	2556	1631		40,476,787		
1991/92	894		987		29,498,873	78,728,091

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72

ANNUAL IRRIGATION IMPLEMENTATION PLAN (AIIP)--91/92 YEAR PLAN	IR-1
ARS Number & Name: 13 BAGHLAN	Page 1 of 1

Subproj No: 13-1302-IR-08-300	Subproj name: Canal Sayed khel	Village: Sayed khel
Length (m): 6000	Approx cost (Rs): 134009	Priority ranking:
SUBPROJECT S/E BENEFITS DATA	Irrigated by subproject:	Employment (mandays):
Tot farm families served: 1142 Workers employed: 7	Crops: Wheat and BArley Total jeribs: 9000	Skilled: Unskilled: 2802

SUBPROJECT TECH/LOGISTIC DATA	Materials:	Quantity	Source	Addl Equipment:	y/n
Water source: Discharge: 1.09 l/sec	Excavation	m3	xxx	Tractor	
	Stones	m3		Compressor	
	Aggregates	m3		Poinjar drill	
Special design needs: No	Cement	kg		Vibrator	
	Reinf steel	kg		Concrete mixer	
	Gabions	pc		Survey equip	
	Wood	m3		Other	
	Other				
				Tools: Additional 25-wkr sets reqd:	

SUBPROJECT TIMELINE	Planned Dates									Actual Dates	
	90/91 YEAR PLAN				91/92 YEAR PLAN						
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Started	Completed
1. Planning: Identify subproj, conduct feasibility study, prioritize, obtain local approval, complete IR-1 form at planning workshop.											20.1.90
2. Perform topographic survey.											
3. Prepare design and budget.											
4. Submit preconst report.											20.2.90
5. Obtain VITA/AID approval.											
6. Procure materials/tools.											
7. Move matls/tools to site.											17.10.90
8. Transfer funds to ARS acct.											
9. Mobilize labor/equipment.					*						
10. Construct subproject.					*	***	***	*****			
11. Final insp/compl report.											

APPENDIX 'B'

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

IR-2

ARS Number & Name: 01 Kabul

Page 1 of 1

Total subproj:	Previous yr	Current yr
Karez		
Jui		
Other	83	
Total	83	

Program description:
Previous yr:
Current yr:

Tot ARS irrig length: km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 7,305,150
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 7,305,150

ARS S/E BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned: Wheat, grapes, corn, etc.

Total jobs served:

Total employment:
Skilled: - md
Unskilled: 41,915 md

ARS TECH/LOGISTIC NEEDS — Description and when needed

Survey/design assistance:

Materials: Not needed

Equipment: Not needed

Tools: Not needed

ARS TIMELINE

Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.					xxx					
2. Survey, design and pre-construction reports of current year subprojects:										
3. Mobilization and construction of subprojects:										
a. Previous year subproj.					xxx					
b. Current year subproj.					xx	xxxxxxxxxxxxxxxx				

APPENDIX 'C'

C-1/16

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74

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 02 Kapisa

IR-2

Page 1 of 1

Total subprojs:	Previous yr	Current yr
Karez		
Juj		11
Other Canals 5, Karez 1.		6
Total		17

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 76 km

Tot ARS major irrigation structures: 16 ea

Total ARS irrigation budget:
In cash: Rs.2,039,732
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs.2,039,732

ARS S/E BENEFITS DATA

Tot farm families served: 301180
Workers employed: 687

Crops planned: Wheats, corn

Total jeribs served: 222,600

Total employment:
Skilled: 4,503 md
Unskilled: 28,373 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxx							
2. Survey, design and pre-construction reports of current year subprojects:			xxxxxx							
3. Mobilization and construction of subprojects:										
a. Previous year subprojs.										
b. Current year subprojs.					xxxxxxxxx					

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75

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

IR-2

ARS Number & Name: 03 Parwan

Page 1 of 1

Total subproj:	Previous yr	Current yr
Karez		
Joi		
Other	39	
Total	39	

Program description:
Previous yr:
Current yr:

Tot ARS irrig length: km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 856,406
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 856,406

ARS S/K BENEFITS DATA

Tot farm families served: 18128
Workers employed: 4

Crops planned: Wheat, Almond, Corn, Grapes

Total Jeribs served:

Total employment:
Skilled: 7,464 md
Unskilled: 39,250 md

ARS TECHNOLOGISTIC REQUIS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

We prepare all material and tools from local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxxx							
2. Survey, design and preconstruction reports of current year subprojects:			xxxxx							
3. Mobilization and construction of subprojects:										
a. Previous year subproj.										
b. Current year subproj.					xxxxxxxxxxxx					

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76

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 04 Wardak

IR-2

Page 1 of 1

Total subproj:	Previous yr	Current yr
Karez		32
Jui		
Other	Intake 3, R/W 30	33
Total		65

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 37.4km

Tot ARS major irrigation structures: 11 ea

Total ARS irrigation budget:
In cash: Rs.1,950,000
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs.1,950,000

ARS S/K BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned: Wheat, Rice, Fruit, Potatos

Total jeribs served: 5,890

Total employment:
Skilled: 1,194 md
Unskilled: 25,036 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

All equipment and material supplied from local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxx	xx						
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subproj.					xxx	xx				
b. Current year subproj.					xxx	xxxx	xxxx	xxxx	xx	

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77

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

IR-2

ARS Number & Name: 05 Logar

Page 1 of 16

Total subprojs:	Previous yr	Current yr
Karez		30
Jui		
Other	Dam 1, Intake 3, R/W 5, Flume 2.	11
Total		41

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 0.40 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 1,318,897
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 1,318,897

ARS S/K BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned: Wheat, Corn

Total jeribs served: 24,140

Total employment:
Skilled: 2,000 md
Unskilled: 20,512 md

ARS TECHNISTIC BASIS — Description and when needed

Survey/design assistance:

Equipment:

Materials:

Tools:

All equipment and tools from local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxxxxxx							
2. Survey, design and pre-construction reports of current year subprojects:			xxxxxxxxx							
3. Mobilization and construction of subprojects:										
a. Previous year subprojs.					xxxxxxxxx					
b. Current year subprojs.					xxxxxxxxxxxxxxxxx					

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76

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP) -- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 06 Ghazni

IIR-2

Page 1 of 1

Total subprojs:	Previous yr	Current yr
Karez		8
Jui		9
Other Intake 2, Canal 1, Syphon 2		5
Total		22

Program description:
Previous yr:
Current yr:

Tot ARS irrig length: 20 km

Tot ARS major irrigation structures: 21 ea

Total ARS irrigation budget:
In cash: Rs. 2,183,516
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,183,516

ARS S/K BENEFITS DATA

Tot farm families served: 23362
Workers employed: 272

Crops planned: Wheat, Fruit, Corn, Potatoes

Total jobs served: 62,586

Total employment:
Skilled: 22,535 md
Unskilled: 75,370 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

Tools and material all from local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxxxx	x						
2. Survey, design and pre-construction reports of current year subprojects:			xxxxxx	x						
3. Mobilization and construction of subprojects:										
a. Previous year subprojs.										
b. Current year subprojs.					xxxxxxxxxxxxxxxxxx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

IIR-2

ARS Number & Name: 07 Paktia

Page 1 of 1

Total subprojs:	Previous yr	Current yr
Karez		17
Jui		41
Other Intake		10
Total		68

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 2,451,798
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,451,798

ARS S/K BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned:

Total jeribs served:

Total employment:
Skilled: md
Unskilled: md

ARS TECH/LOGISTIC NEEDS — Description and when needed

Survey/design assistance:

Equipment:

Materials:

Tools:

All materials and equipment supplied from local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN				91/92 YEAR PLAN					Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxx	xxx						
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subprojs.										
b. Current year subprojs.					xxx	xxx	xxx	xxx	xxx	

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80

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 10 Konar

IR-2

Page 1 of 1

Total subproj:	Previous yr	Current yr
Karez		34
Juj		
Other Flume 1, R/W 4		5
Total		39

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 39.48 km

Tot ARS major irrigation structures: 2 ea

Total ARS irrigation budget:
In cash: Rs. 2,660,857
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,660,857

ARS S/E BENEFITS DATA

Tot farm families served: 3,000
Workers employed: 34,100

Crops planned:

Total Jeribs served:

Total employment:
Skilled: 10,100 md
Unskilled: 24,000 md

ARS TECHNOLOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

ARS TIMELINE

Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxxxx		x					
2. Survey, design and pre-construction reports of current year subprojects:			xxxxxx		x					
3. Mobilization and construction of subprojects:										
a. Previous year subproj.					xxx	xxx	xxx			
b. Current year subproj.					xxxxxxxxxxxxxxxxxx					

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81

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 12 Takhar

IIR-2

Page 1 of 1a

Total subprojs:	Previous yr	Current yr
Karez		6
Jui		
Other Flume 2, Intake 1, R/W 1, Wells 5 =		9
Total		15

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 13 km

Tot ARS major irrigation structures: 2 ea

Total ARS irrigation budget:
In cash: Rs. 1,235,884
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 1,235,884

ARS S/E BENEFITS DATA

Tot farm families served: 2190
Workers employed: 634

Crops planned: Wheat, Corn

Total Jeribs served: 1,790

Total employment:
Skilled: 25 md
Unskilled: 31,042 md

ARS TECHNOLOGISTIC REQUIS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

All material and equipment supplied from local bazar

ARS TIMELINE — Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxxxxxx							
2. Survey, design and pre-construction reports of current year subprojects:			xxxxxxxx							
3. Mobilization and construction of subprojects:										
a. Previous year subproj.					xxxxxxxxxxxxxxxxxx					
b. Current year subproj.					xxxxxxxxxxxxxxxxxx					

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82

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 13 Baghlan

IR-2

Page 1 of 1

Total subproj:	Previous yr	Current yr
Karez		22
Jui		
Other	Flume 1, Canal 3, Springs 25.	29
Total		51

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 951 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 2,322,258
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,322,258

ARS S/E BENEFITS DATA

Tot farm families served 37466
Workers employed:

Crops planned: Wheat, Corn etc.

Total Jeribs served: 83,835

Total employment:
Skilled: 297 md
Unskilled: 43,938 md

ARS TECHNISTIC NEEDS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

Tools and equipment, material supplied in local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN				91/92 YEAR PLAN					Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxx	xxx						
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subproj.										
b. Current year subproj.					xxxxxxxxxxxxxxxxxx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 14 Kunduz

IR-2

Page 1 of 1

Total subprojs:	Previous yr	Current yr
Karez		
Jui	40	
Other Spring	5	
Total	45	

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 840 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs.2,247,801
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs.2,247,801

ARS S/K BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned: Wheat, cotton, rice

Total jobs served: 216,750

Total employment:
Skilled: 740 md
Unskilled: 160,860 md

ARS TECH/LOGISTIC NEEDS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

All materials, equipment and tools supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxx							
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subprojs.										
b. Current year subprojs.					xx	xxx	xxx	xxx	xx	

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 20 Herat

IR-2

Page 1 of 1

Total subproja:	Previous yr	Current yr
Karez		
Jui		
Other	Canals	9
Total		9

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km

Tot ARS major irrigation structures: ea

Total ARS Irrigation budget:
In cash: Rs. 3,754,108
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 3,754,108

ARS S/R BENEFITS DATA

Tot farm families served: 10100
Workers employed: 2,945

Crops planned: Wheat, Corn, Cotton, Fruits

Total Jeribs served: 40,000

Total employment:
Skilled: - md
Unskilled: 79,616 md

ARS TECH/LOGISTIC REQMS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

Materials, tools and equipment supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxxx							
2. Survey, design and pre-construction reports of current year subprojects:				xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subproja.										
b. Current year subproja.					xxxxxxxxxxxxxxxxxx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 21 Farah

IR-2

Page 1 of 1

Total subproja:	Previous yr	Current yr
Karez		55
Jui		8
Other Wells		50
Total		113

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 447 km

Tot ARS major irrigation structures: 228 ea

Total ARS irrigation budget:
In cash: Rs. 1,930,294
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 1,930,294

ARS S/K BENEFITS DATA

Tot farm families served: 5997
Workers employed:

Crops planned: Wheat, Corn, Cotton, Fruits

Total jeribs served: 565,388

Total employment:
Skilled: 173 md
Unskilled: 59,852 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

We are supplying all materials, tools and equipment from local bazar

ARS TIMELINE Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xxx	xxx						
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subproja.										
b. Current year subproja.					xx	xxxx	xxxx	xxxx	xx	

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86

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 24 Kandahar

IIR-2

Page 1 of 1

Total subproj:	Previous yr	Current yr
Karez		57
Juj	Flume 1, Dam 1,	
Other	Intake 1, Irish Bridge 1.	4
Total		61

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 2,552,926
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,552,926

ARS S/K BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned:

Total jerib served:

Total employment:
Skilled: md
Unskilled: md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

Tools, equipment and materials are supplied by local bazar

ARS TIMELINE

Activity	90/91 YEAR PLAN AUG	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RD-1 and RD-2 forms.			xx	xxxx	x					
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subproj.										
b. Current year subproj.					xx	xxxx	xxxx	xxx	x	

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87

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 28 Bamyan

IR-2

Page 1 of 16

Total subprojs:	Previous yr	Current yr
Karez		40
Juj		
Other R/W 9, Dam 1.		10
Total		50

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 200 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 2,070,916
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,070,916

ARS S/K BENEFITS DATA

Tot farm families served: 19500
Workers employed: 1,500

Crops planned: Wheats, Corn, Potatoes

Total jeribs served: 20,000

Total employment:
Skilled: 800 md
Unskilled: 20,000 md

ARS TECHNOLOGISTIC REQUIS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

We are supplying all equipment, material from local bazar

ARS TIMELINE Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.										
2. Survey, design and pre-construction reports of current year subprojects:										
3. Mobilization and construction of subprojects:										
a. Previous year subprojs.					xxx	x				
b. Current year subprojs.						xxxxxxxxxxxxxxx				

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58

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN
Program Component: II. IRRIGATION

ARS Number & Name: 28 Paktika

IR-2

Page 1 of 1

Total subproj: Previous yr	Current yr
Karez	50
Jui F 2, D 5, R/W 3, IB 2, IW 8,	
Other Spr 30, Irish Bridge 1.	51
Total	101

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: 382 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs.2,453,208
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,453,208

ARS S/K BENEFITS DATA

Tot farm families served:
Workers employed: 50,057

Crops planned: Wheat, Corn, Potatoes, Barley

Total jerib served: 33,904

Total employment:
Skilled: 6,530 md
Unskilled: 43,527 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

Materials, equipment and tools are supplied from local bazar

ARS TIMELINE — Activity	90/91 YEAR PLAN AMJ	JAS	OND	JFM	91/92 YEAR PLAN AMJ	JAS	OND	JFM	AM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.			xx	xx						
2. Survey, design and pre-construction reports of current year subprojects:			xxx	xxx						
3. Mobilization and construction of subprojects:										
a. Previous year subproj.					xxx	xx				
b. Current year subproj.					xxx	xxxx	xxxx	xxxx	x	

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89

ANNUAL ROADS AND BRIDGES IMPLEMENTATION PLAN (ARBIP)- 91/92 YEAR PLAN	RB-1
ARS Number & Name: 01 Kabul	Page __ of __

Subproj No: 01-0108-RD-02-127	Subproj name: Road Nasar khel tourghar	Village: More villages
Length (m): 27000 Width (m): 5	Approx cost (Rs): 2798356	Priority ranking:
SUBPROJECT S/E BENEFITS DATA	Within road influence area:	Employment (mandays):
Towns connected: 1714 families Workers employed: 177	Crops: Wheat Barley and Corn Jeribs cltvd: Tot fams 1714	Skilled: Unskilled: 63599

SUBPROJECT TECH/LOGISTIC DATA	Materials:	Quantity	Source	Addl Equipment:	y/n
New/Rehabilitation (N/R): R Road surfacing matl: Aggregates Total culverts/washes: Nil Bridge type:	Excavation Stones Aggregates Cement Reinf steel Gabions Wood Other	m3 m3 m3 kg kg pc m3	xxx	Tractor Compressor Poinjar drill Vibrator Concrete mixer Survey equip Other	
Special design needs:				Tools: Additional 25-wkr sets reqd:	

SUBPROJECT TIMELINE	Planned Dates									Actual Dates	
	90/91 YEAR PLAN				91/92 YEAR PLAN						
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Started	Completed
1. Planning: Identify subproj, conduct feasibility study, prioritize, obtain local approval, complete IR-1 form at planning workshop.											
2. Perform topographic survey.											08/24/89
3. Prepare design and budget.											
4. Submit preconst report.											
5. Obtain VITA/AID approval.											07/20/90
6. Procure materials/tools.		*									
7. Move matls/tools to site.		*									
8. Transfer funds to ARS acct.		*									
9. Mobilize labor/equipment.		*									
10. Construct subproject.		*	***	***	***	***	***	***	**		
11. Final insp/compl report.											

APPENDIX 'D'

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 01 — ARS Name: Kabul — Page 1 of 1

Tot road length plnd: km	Total bridges planned: 1	RB bud (Rs): 414,875
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 2 villages Workers employed: 264	Total farm families: Total Jeribs:	Skilled: md Unskilled: md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance:	Design Assistant is needed	
Materials:		
Equipment:		
Tools:		
Tools and	materials supplied from local	

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxx	xxx						
2. Survey, design and pre-construction reports for subproject by priority.			xxx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxx	xx	

APPENDIX 'E'

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 02 — ARS Name: Kapisa — Page 1 of 1

Tot road length plnd: 7 km	Total bridges planned:	RB bud (Rs): 573,527
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 14 Workers employed: 363	Total farm families: 72,500 Total Jeribs: 304,000	Skilled: 3,608 md Unskilled: 53,040 md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance:		
Materials:		
Equipment: Water Pump		
Tools:		

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xx	xxx						
2. Survey, design and preconstruction reports for subproject by priority.			xxxx	xx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxxx					
Next ranking 1/4th:							xxx			
Next ranking 1/4th:								xxx		
Lowest ranking 1/4th:									x	

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92

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 03 — ARS Name: Parwan — Page 1 of 1

Tot road length plnd: 39 km	Total bridges planned:	RB bud (Rs)1,095,053
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 14 Workers employed:	Total farm families: 18,000 Total Jeribs: 56,000	Skilled: 8,348 md Unskilled 32,800 md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Roller, Tractor Equipment: Tools:		
We supply	all material and tools from local bazar	

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xx	xxx						
2. Survey, design and preconstruction reports for subproject by priority.			xxx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxx	x	

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 04 — ARS Name: Wardak — Page 1 of 1

Tot road length plnd: km	Total bridges planned: 15	RB bnd (Rs): 450,000
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: Total Jeribs:	Skilled: md Unskilled: md
ARS TRN/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:	Tools and equipment supplied from local bazar	

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxxxx							
2. Survey, design and preconstruction reports for subproject by priority.			xxxxx							
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxxx		

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 05 — ARS Name: Logar — Page 1 of 1

Tot road length plnd: 20 km	Total bridges planned: 2	RB bud (Rs): 967,389
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 150 Workers employed:	Total farm families: Total Jeribs: 8,758	Skilled: 5,958 md Unskilled: 25,000 md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		

All tools and material supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxx	xxx						
2. Survey, design and preconstruction reports for subproject by priority.			xxx	xxx	x					
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxx	x	

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 06 — ARS Name: Ghazni — Page 1 of 1

Tot road length plnd: km	Total bridges planned: 2	RB bud (Rs):280,000
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 9 Workers employed:	Total farm families: 60,200 Total Jeribs: 52,000	Skilled: md Unskilled: md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		
All tools and equipment from local bazar		

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxxxx							
2. Survey, design and preconstruction reports for subproject by priority.			xxxxx							
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:						xx				
Next ranking 1/4th:							xxx			
Next ranking 1/4th:								xxx		
Lowest ranking 1/4th:									x	

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92

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 07 — ARS Name: Paktia — Page 1 of 1

Tot road length plnd: km	Total bridges planned: 1	RB bud (Rs): 460,096
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: Total Jeribs:	Skilled: md Unskilled: md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:	All material and equipment supplied from local bazar	

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.				xxx						
2. Survey, design and preconstruction reports for subproject by priority.				xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					x					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:										

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97

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 10 — ARS Name: Konar — Page 1 of 1

Tot road length plnd: 75 km	Total bridges planned:	RB bud (Rs): 1,500,000
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 8 Workers employed: 312,000	Total farm families: 18,000 Total Jeribs: 55,000	Skilled: md Unskilled: md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools: All tools and material supplied from local bazar		

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.		xxx	xxx	xxx						
2. Survey, design and pre-construction reports for subproject by priority.		xxx	xxx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxx	x	

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78

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 12 — ARS Name: Takhar — Page 1 of 1

Tot road length plnd: 42 km	Total bridges planned: 1	RB bud (Rs): 1,570,000
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed: 472	Total farm families: 18,650 Total Jeribs: 27,500	Skilled: 655 md Unskilled: 71,250 md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance:		
Materials:		
Equipment:		
Tools:		

All tools and equipment supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxxxxxxxx							
2. Survey, design and preconstruction reports for subproject by priority.			xxxxxxxxx							
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxxx		

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99

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 13 — ARS Name: Baghlan — NO. — Page 1 of 1

Tot road length plnd: km	Total bridges planned:	RB bud (Rs):
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: Total Jeribs:	Skilled: md Unskilled: md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.										
2. Survey, design and preconstruction reports for subproject by priority.										
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 14 — ARS Name: Kunduz — Page 1 of 1

Tot road length plnd: 8 km	Total bridges planned: 8	RB bud (Rs): 1,406,501
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: 89,000 Total Jeribs: 100,900	Skilled: 2,162 md Unskilled: 8,753 md
ARS TRANSLOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		

All materials, equipment and tools supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxx							
2. Survey, design and pre-construction reports for subproject by priority.			xxx	xx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxx	x	

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 20 — ARS Name: Herat — Page 1 of 1

Tot road length plnd: 28 km	Total bridges planned: 3 Culverts: 22	RB bud (Rs): 2,961,350
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 2 Workers employed: 275	Total farm families: 20,000 Total Jeribs: 100,000	Skilled: 2,550 md Unskilled: 12,290 md
ARS TECH/LOGISITIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		

All equipment, tools and material will be supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xxx	xxx						
2. Survey, design and preconstruction reports for subproject by priority.			xxx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					x					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xxxx		

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162

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 21 — ARS Name: Farah — Page 1 of 1

Tot road length plnd: 15 km	Total bridges planned:	RB bud (Rs): 1,173,717
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 3 Districts Workers employed: 14,216	Total farm families: 6,000 Total Jeribs: 60,000	Skilled: 1,128 md Unskilled: 13,088 md

ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance:		
Materials:		
Equipment:		
Tools:		

All materials, equipment and tools supplied from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.		xx	xxx	xx						
2. Survey, design and pre-construction reports for subproject by priority.		xxx	xxx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					x					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:								xx		

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163

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 24 — ARS Name: Kandahar — Page 1 of 1

Tot road length plnd: 66 km	Total bridges planned:	RB bud (Rs): 586,998
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 3 Districts Workers employed: 69,550	Total farm families: 511,968 Total Jeribs: 48,600	Skilled: 2,320 md Unskilled: 67,230 md
ARS TECH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		

We are supplying all materials, equipment and tools from local bazar

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xx	xxx						
2. Survey, design and pre-construction reports for subproject by priority.			xx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:					xxx					
Next ranking 1/4th:						xxx				
Next ranking 1/4th:							xxx			
Lowest ranking 1/4th:							xx	xxx		

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 28 — ARS Name: Bamyan — Page 1 of 1

Tot road length plnd: 10 km	Total bridges planned: Culverts: 4	RB bud (Rs): 822,146
ARS S/E BENEFITS DATA Bamyan/Samangan No of towns connected: 2 Provinces Workers employed: 180	Within road influence areas: Total farm families: 12,000 Total Jeribs: 16,500	Total employment: Skilled: 100 md Unskilled: 8,000 md
ARS TRN/LOGISTIC REQMTS	Description	When needed
Survey/design assistance:		
Materials:		
Equipment:		
Tools:		
We are supplying all material, equipment and tools from local bazar		

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.			xx	xxx						
2. Survey, design and preconstruction reports for subproject by priority.			xx	xxx						
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:					xxxxxxxxxxxxxxxxxx					

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185

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)-- 91/92 YEAR PLAN — Form RB-2

Program Component: II. ROADS AND BRIDGES

ARS Number: 29 — ARS Name: Paktika — Page 1 of 1

Tot road length plnd: km	Total bridges planned:	RB bnd (Rs):
ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: Total Jeribs:	Skilled: md Unskilled: md
ARS TRCH/LOGISTIC REQMTS	Description	When needed
Survey/design assistance: Materials: Equipment: Tools:		

ARS TIMELINE	90/91 YEAR PLAN				91/92 YEAR PLAN					
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AM	Remarks
1. Planning: Identify subprojects, conduct feasibility studies, prioritize, obtain local approval, complete IR-1 and IR-2 forms.										
2. Survey, design and pre-construction reports for subproject by priority.										
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										
3. Mobilization and construction of subprojects by priority.										
Highest ranking 1/4th:										
Next ranking 1/4th:										
Next ranking 1/4th:										
Lowest ranking 1/4th:										

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VITA/LLBI - CONTRACT

SCOPE OF WORK:

In carrying out its work in rural rehabilitation, the ARR staff may occasionally encounter a need for specialized or complex engineering services which exceed in-house capabilities. For example, design recommendations may, a some future time, be needed for facilities such as long-span bridges, large diversion structures, dams or power generation facilities. Also, general advisory services may be needed related to the ongoing rural works programs, in areas such as system analysis and the development of design standards for relatively simple facilities.

In order to meet the this need, VITA has entered into this "work order-type" contract with Louis Berger International, Inc. (LBII). LBII is willing to provide staff and facilities on short notice to carry out the following activities in support of repair and rehabilitation of physical infrastructure:

- temporary assignment of personnel to the ARR office in Peshwar, Pakistan

- reconnaissance trips inside Afghanistan for assessments, evaluations and preparation of technical recommendations,

- preparation of design sketches, outline specifications and cost estimates for the guidance of ARR staff, who would complete the design work,

- supervision of design work to be undertaken by the ARR staff, temporary local staff or local engineering firms that would be subcontracted by VITA,

- execution of design work, using the firm's own in-house staff at its home or branch offices.

Design work referred to above may include the preparation of working drawings specifications, cost estimates and other contract documents to be used in contracting with local or international construction firms.

For each assignment under this subcontract the Contractor in consultation with the Subcontractor will prepare a delivery order specifying the work to be accomplished, the timing of the assignment, the personnel to be assigned and a budget. The Delivery Order will be signed by both parties and forwarded to USAID for their information.

APPENDIX 'F'

TRAINING PLAN 1990/91

No	COURSE NAME	COURSE COVERAGE	PROPOSED DURATION	ACTUAL DURATION	PROPOSED STARTING DATE	ACTUAL STARTING DATE	PROPOSED TRAINEES POSITION	NO	ACTUAL TRAINEES NO	REMARKS
1	Equipment Operations	1.Operation of tractors, backhoes & front-end loaders	4 weeks	4 weeks	2 Sep 90	16 Sep 1990	ARS Equipment operators	24	8	Millat Tractors Training Course conducted in Lahor Pakistan
2	Operation & Maintenance of Machinery	1.O&M of tractors backhoes, loaders compaction roller conc mixers,plate compactors, vibrators, poinjar drills, shotcrete equipment	4 weeks	4 weeks	2 Sep 90	16 Sep 1990	ARS Mechanics	16	7	Same as above
3	Senior Management Training	1.To be established by trainees in early training sessions	4 weeks	2 weeks	3 Jun 90	28 Oct 1990	VITA Senior Local staff AIG	14	21	Conducted by U.S.D.A. Tra ners in VITA Training Cen er, Peshawar.
4	Field Monitoring	1.Monitoring procedures. 2.Collection of monitoring data. Use of new forms	2 weeks	2 weeks	3 Jun 90	3 Jun 1990	ARS Monitors others VITA staff	16 4	12	Conducted by VITA Senior staff
5	Planning Workshop for ARS Officers	1.Planning of sub-projects 2.Use of Implementation Plan forms 3.ARS management techniques	2 weeks	2 weeks	14 Nov 1990	11 Nov 1990	ARS Officers other ARR staff	16 4	16	Conducted by VITA Senior Staff
6	Technician Training	1.Route surveying 2.Basic drafting 3.Cost estimation 4.Construction inspection	10 weeks	10 weeks	22 Dec 1990	23 Dec 1990	Sr. & Jr. Technicians all ARSs.	64	24	Conducted by VITA Senior Engineers & IRC

(Page # 2)

No	COURSE NAME	COURSE COVERAGE	PROPOSED DURATION	ACTUAL DURATION	PROPOSED STARTING DATE	ACTUAL STARTING DATE	PROPOSED TRAINEES POSITION	NO	ACTUAL TRAINEES NO	REMARKS
7	Engineering Refresher	1.Planning 2.Route sureveying & design of road irrigation proj. 3.Cost estimation 4.Computer applications	4 weeks		25 Nov 1990		Sr & Jr engineers on VITA HQR.			Not Implemented due to Gu conflict
8	ARS Administrative Trianing	1.Bookkeeping introductory accounting inventory control	2 weeks	2 weeks	16 Sep 1990	23 Sep 1990	ARS Admin. assistants	16	21	Conducted by Internationa Rescue Committee & VITA staff
9	General Administrative Training	1.English language 2.Bookkeeping intoductory accounting, inventory control 3.Filling system 4.Computer applications	10 weeks	25 weeks	20 Jun 1990	20 Jun 1990	VITA HQ Staff	24	42	HQ Admins. ARS Admins. we trained at one time 16 Sep 90
10	Overseas Workshop	1.Small-scale irrigation & managem.	4 weeks	--	--		Sr. Engineers	2	0	Not conducted due to timi difficulties
		2.Training of trainers for agr. & rural development	--	--	6 Aug	6 Aug	Sr. Training staff	1	1	Conducted by U.S.D.A. Wasl inton D.C.
		3.Designing & managing integrated agr. & rural development projects	6 weeks	6 weeks	Sept 7, 1990	Sept 12, 1990	Directors of training	3	3	Conducted by U.S.D.A. At Virginia.
11	Overseas Workshop	University of Wyoming observation/ briefing University staff about the ARR Afghanistan project	--	3 days	--	Nov, 90	None	--	3	This course was added to 1990/91 Plan.

125

SCOPE OF WORK

VITA-CID-UW TRAINING PROGRAM FOR
AFGHAN ENGINEERS AND TECHNICIANS

INTRODUCTION

The transfer of technology by upgrading human resources is vital to the success of any development process. This is particularly true for those involved in technical areas because of the need to refresh skills and to upgrade skills and apply improved technology to the solution of problems.

The People of Afghanistan are faced with the problem of rebuilding their Country following an unfortunate war which continues today on a limited scale. Most roads, bridges and irrigation systems have been destroyed. Through the efforts of Afghan engineers and technicians, most of whom are refugees living in Pakistan and the support of donor agencies such as AID and the assistance of organizations such as VITA, much has been accomplished to improve the quality of life of the people in Afghanistan. However, the number of requests for assistance exceeds the capability of VITA staff, and some locations are very difficult to reach, particularly with needed construction materials.

Most technically trained persons were forced to leave Afghanistan during the war and now live in Pakistan as refugees. While these persons received excellent training at Kabul University and similar institutions, they have not received training for more than twelve years except for training provided recently through VITA. Many have not participated in engineering or construction projects for many years. To apply the appropriate technology and engineering skills to problems faced by Afghanistan people, refresher and advanced training is needed.

Typically, the VITA organization provides and engineering design for a specific problem. The design is done in Pakistan with reconnaissance information obtained by technicians in the field. After the design has been completed and approved, a technician travels back into Afghanistan with the essential construction materials to actually construct the project. The technician serves as the construction supervisor and coordinates the efforts of the local people who build the project. The VITA staff must be highly commended for their concern and perseverance in assisting the people of Afghanistan in rebuilding their country. Clearly, much has been accomplished with very limited resources.

VITA recognized the need for training and entered into a cooperative agreement with the Consortium for International Development. The University of Wyoming was appointed Lead University to develop a training program to refresh and

upgrade VITA engineers and technicians during the winter of 1990-91. However, due to the Middle East War and resulting political unrest, the program was postponed until winter of 1991-92. This schedule is due to the fact that the VITA engineers and technician are active with projects in Afghanistan during the remaining months and are in Pakistan only during the winter. During March 1991, members of the CID-UW team visited VITA in Washington, DC. Team members discussed training needs with VITA and AID personnel, and a verbal report was given at the end of the meetings. This report covers recommendations of the team.

TRAINING TEAM OBJECTIVES

The overall objective of this training program is to support VITA in their efforts to serve the people of Afghanistan by enhancing the capability of VITA engineering and technical staff. Specific program objectives are:

1. To access the background of participants and refresh and update previously learned English language and technical skills.

2. To refresh engineering fundamentals for engineers and technicians serving on the VITA staff.

3. To enhance the expertise of VITA engineers and technicians in the specialty areas of route surveying, roadways, water supply, and irrigation.

TRAINING PROGRAM

The training program will include several interrelated elements including skills, assessment, technical English, engineering fundamentals and advanced level courses. Very importantly, the scope and level of the training will depend upon the basic skills assessment which will be conducted during the first few days of the program. Meetings with VITA personnel and others knowledgeable of individuals involved and skills needed have been very worthwhile. The first few days of the actual training program will allow instructors to make necessary adjustments based on first hand interaction with participants.

The overall scope and flow of the training program is illustrated in Figure 1. Referring to the figure, note that all participants will receive the first two program elements which include skill assessment and technical English. Following these, technicians and engineers will be separated for a review of the fundamentals of engineering. The final elements of the training program will provide advanced training. Again, the subjects will be similar, but the emphasis will be different for the engineers
and technicians. Engineering training will focus on project design and planning, whereas technician training will focus on project implementation, construction and management. Participants will select one of the advanced courses based on their individual interests and needs.

The training time schedule is also indicated in Figure 1. The program is intended to last for ten weeks per instructions from the VITA staff. Although specialty courses

111

are indicated to run concurrently, they may be scheduled to run at different times depending upon participant interest and consultation with the VITA staff.

Orientation and Technical English (64 hours, 2 weeks)

Most of the technicians and virtually all of the Afghan engineers working in the VITA program received their advanced training in English. However, these individuals received their educational training more than twelve years ago. Further, they may not have worked professionally using the English language for many years if at all. A working knowledge of technical English is considered essential for communicating with VITA, AID and relief organizations. This is needed for preparing reports, and to allow individuals to upgrade technical skills either formally or informally, and development of computer skills. Therefore, the first element of the program will be a 32 hour refresher course in technical English. This training will be strengthened during the skills assessment and during more formal classes.

The technical English review will focus on language areas that are required by the participants. Specifically, the course will include terminology used in technical drafting, surveying and mapping, calculators and calculations, weights and measures, and engineering symbols. This will include the English vocabulary and simple English styles and formats typically used in technical communications.

Skills and Basic Assessment (64 hours, 2 weeks)

This element of the program is intended to refresh the skills of all participants in basic communications, engineering calculations and engineering measurements. During this element of the program, participants will be monitored individually to determine their existing skill levels and potential for additional training.

Fundamentals of Engineering for Engineers (128 hours, 4 weeks)

This element of the program is intended to refresh the basic engineering knowledge of B.Sc. level Civil Engineers. It will review most of the courses covered in the first year and half of engineering education. In practice, these courses provide the basic background for analysis and solution of engineering problems. Very often, the engineer must rely on this information for the solution of problems in the field.

Fundamentals of Engineering for Technicians (128 hours, 4 weeks)

This element is similar to that described above for engineers except that there will be more emphasis on practical approaches rather than mathematics. More time will be devoted to each topic and examples and problems will be very practical compared to engineering training described above. It is anticipated that most technicians will have previous training or equivalent practical experience. It is important that the technicians understand design and analysis concepts so they appreciate a design or can appropriately modify a design in the field, as necessary, to meet performance expectations.

SPECIALTY COURSES

As previously indicated, the purpose of the specialty courses is to upgrade the skills of VITA engineers and technicians serving the people of Afghanistan. Referring to Figure 1, specialty courses are scheduled for two weeks each, some courses are for engineers or technicians, and some courses may be taken by participants from both groups.

Route Surveying

This course is intended to upgrade the skills of technicians and engineers in surveying highways and bridges. Site reconnaissance and identification of suitable local materials for construction projects will also be discussed.

Roadways and Bridges

This course is intended to upgrade the skills of engineers in design of highways including drainage and bridges. Bridge applications will be based on existing VITA designs of vehicle and foot bridges.

Irrigation

This course is intended to upgrade the skills of engineers in designing water conveyance and irrigation structures. Methods of estimating the irrigation water requirements for a region will also be discussed in terms of securing necessary water resources. Applications will be to gravity-surface irrigation systems.

Programme for winter session (10-12 weeks)

Course Description	Proposed by CID	Recommended by VITA
Orientation & Technical English (Two weeks, 64 hours)		
Skill & Basic Assessment two weeks (64 hours)	1. Technical Drafting:	1. Technical Drafting:
	a. Preparation of Engineerings drawings	a. Preparation of Engineering drawings
	b. Reading and Interpreting engineering drawings	b. Reading and Interpreting engineering drawings
	2. Calculator & calculations:	2. Calculator & calculations:
	a. Use of Engineering calcularotr	a. Use of Engineering calculator
	b. Technical calculators	b. Concepts of accuracy
	c. Percentage	c. Practical problems
	d. Concept of accuracy, precision & errors	
	3. Elementry surveying	---
	a. Surveying instruments	---
	b. Scales & verniers	---
	d. Distance angles & elevations	---
	4. Weights & Measures	3. Units & dimensions
	a. Weights, volumes, & lengths	a. Weights, volumes, lengths etc.
	b. Material classifications sieve analysis	b. Conversion
	c. Accuracy, precision & errors	c. Scales
	d. Engineering symbols	---
	1. Map & Maping 2. Keyboarding, calculator & computer symbols	
Fundamentals of Engineering for engineers (128 hours, four weeks)	1. Mathematics	1. Mathematics
	a. College Algebra	a. College Algebara
	1. Algebraic variables	1. Algebraic variables

114

Course Description	Proposed by CID	Recommended by VITA
	2. Solution of algebraic equations	2. Solution of algebraic equations
	3. Formulation of algebraic problems	3. Formulation of algebraic problems
	4. Quadratic & cubic equations	4. Quadratic equations
	5. Simultaneous equations	5. Simultaneous equations
	6. Logarithms & power functions	6. Graphs & curves
	7. Examples & problems	7. Examples & problems
	b. Trigonometry	b. Trigonometry
	1. Trigonometric functions	1. Trigonometric functions
	2. Trigonometric identities	2. Trigonometric angles: Degrees, Radians, Grads & mills
	3. Law of sines & cosines	
	4. General plan trigonometry.	3. Law of sines & cosins
	5. Examples & problems	4. Examples & problems
	c. Elementry calculus	---
	1. Engineering application of limits.	---
	a. Scope of curve at a point	---
	b. Area under acurve	---
	2. Differentation of simple equation forms	---
	3. Integration of simple equation forms.	---
	4. Examples & problems	---
	2. Engineering Mechanics	2. Engineering Mechanics
	a. Statics	a. Statics
	1. Forces moments and associated units	1. Forces moments and associated units
	2. Resultant of a system of forces.	2. Resultant of a system of forces.
	3. Resultant of moments	3. Resultant of moments
	4. Equilibrium of forces & moments	4. Examples & problems

Course Description	Proposed by CID	Recommended by VITA
	5. Trusses & cables	
	6. Friction	
	7. Examples & problems	
	b. Dynamics	---
	1. Position, velocity & acceleration	---
	2. Partical motion	---
	3. Moment of inertia	---
	4. Rigid body motion	---
	5. Work & energy method	---
	6. Impules & momentum	---
	7. Elementry vibrations	---
	8. Examples & problems	---
	c. Mechanic of materials	c. Mechanic of materials
	1. Concepts of stress & strain	1. Concepts of stress & strain
	2. Torsion	2. Torsion
	3. Analysis of beams	3. Analysis of beams
	a. Moment of inertia	a. Moment of inertia
	b. Shear & moment diagrams	b. Shear & moment diagrams
	c. Flexure of beams	c. Flexure of beams
	d. Shear in beams	d. Shear in beams
	e. Restrained beams	e. Restrained beams
	f. Reinforced concrete beams	f. Reinforced concrete beams
	4. Riveted & welded connection	---
	5. Columns	---
	a. Critical loads	---
	b. Euler equation	---
	c. Exmirical formula	---

116

Course Description	Proposed by CID	Recommended by VITA
	6. Inelastic action	---
	a. Limit moment & torque	---
	b. Residual stresses	---
	7. Impact loading	4. Impact loading
	8. Examples & problems	5. Example & problems
	d. Fluid Mechanic (Emphasis on water)	d. Fluid Mechanic (Emphasis on water)
	1. Properties of fluids	---
	2. Fluid statics	---
	a. Pressure	---
	b. Hydrustatic force on area	---
	3. Fluid flow	1. Fluid flow
	a. Energy & momentum	a. Energy & momentum
	b. Measurement of fluid flow	b. Measurement of fluid flow
	4. Flow in pipe	---
	5. Open chane flow	2. Open chane flow
	6. Pumps	---
	7. Examples & problems	3. Examples & problems
		e. Route surveying
The Route Surveying is here included for Tngineers, part of "Fundementals", rather than a separate short course _____>>		1. Basic definition
		2. Geometry & type of sample horizontal covers
		3. Design methods of curves
		4. Sections & volume of earth work
		5. Cost estimation
Fundamentals of Engineering for Technicians (128 hours, four weeks)	1. Mathematics	
	a. Basic Mathematics operation, areas, & volume	
	b. Basic algebra	1. Basic mathematics
	1. Algebraic variations	a. Basic mathematics operations, areas, volumes, & percentage

Course Description	Proposed by CID	Recommended by VITA
	2. Solutions of algebraic equations	b. Basic algebra
	c. Trigonometry	1. Algebraic variations
	1. Definition of trigonometric functions	2. Solutions of algebraic equations
	2. Right angle trigonometry	c. Trigonometry
	d. Applications and problems	1. Definition of trigonometric functions
	2. Engineering mechanics	2. Right angle trigonometry
	a. Force & moments	d. Applications and problems
	1. Definition of force & moments	2. Statics
	2. Resultants & equilibrium moments	a. Force & moments
	3. Estimation resultant forces.	1. Definition of force & moments
	4. Applications & problems	2. Resultants & equilibrium moments
	b. Dynamic	3. Estimation resultant forces.
	1. Linear motion, velocity & acceleration	4. Applications & problems
	2. Impact	---
	3. Application & problems	---
	c. Mechanics of materials	---
	1. Concepts of stress & strain	---
	2. Torsion & Flexure of regular shaps	c. Materials of constructions
	3. Use of tabular information for beam design	1. General 2. Stones 3. Brick
	4. Columns, critical loads, empirical solutions	4. Soil as construction materials 5. Agregate 6. Cement, lime & mortar
	5. Riveted & welded connections	7. Concrete 8. Timber
	6. Applications & problems	9. Steel 10. Gabion
	d. Fluid mechanics (water)	
	1. Fluid pressure	
	2. Pressure on areas	d. Hydraulics

Course Description	Proposed by CID	Recommended by VITA
	3. Fluid flow	1. Fluid flow
	4. Flow in pipe, tabular solutions	2. Open channel flow & tabular solutions
	5. Open channel flow, fabular solution	3. Flow measurement
	6. Pumps	4. Applications & problems
	7. Application & problems	
	e. Elements of surveying	e. Elements of surveying
	1. Horizontal measurements	1. Horizontal measurements
	2. Angles and direction	2. Angles and direction
	3. Vertical measurement	3. Vertical measurement
	4. Examples & problems	4. Examples & problems

SHORT COURSES - two weeks

A. Irrigation (for Engineers)	Irrigation 1. Design of earthen canals and related structures 2. Design of irrigation water systems 3. River meandering and control
B. Roadways and Bridges (for Engineers)	as proposed
C. Project Management (for Technicians)	as proposed
D. Cost Estimating (for Tachnicians)	as proposed

GENERAL DATA

ARS Nmbr/Name: _____ Subproj Nmbr: _____

Village: _____ District: _____

Subproject Type: Irrigation _____ Subtype: _____
Rds & Brdg _____

Start date: _____ Compl date: _____

Commander: _____ Tanzeem: _____

Budget: Cash: _____ Fertilizer: _____

Food: _____ Total (Rs): _____

Monitor: _____ Inspect Date: _____

PLANNING	Yes	No	Unk
Was a subproject request form completed?			
Was a feasibility study conducted?			
Was a subproject planning form completed?			
Was Form IR-1 or RB-1 completed?			
Was a Shura involved in planning/approval?			
Was there consensus among local authorities/community that this subproject should be accomplished before other requested projects that were not approved or deferred?			

IMPLEMENTATION	Yes	No	Unk
Have any unusual problems (technical or otherwise) been encountered in the construction of the subproject?			
Were timely measures taken to solve these problems?			

Describe any outstanding problems that have prevented or will prevent a successful outcome of the subproject.

OVERALL IMPACT		Yes	No	Unk
Upon completion of the construction work, will the subproject facility be fully functional?				
In your opinion, will the subproject have a significant impact on agricultural production?				
Has there been an adverse social impact? If so, explain.				
Does the information appearing on Form IR-1 or RB-1 seem to be approximately correct, with regard to benefits that will be provided by the subproject:				
IR-1:	Total farm families served?			
	Workers employed?			
	Crops irrigated?			
	Total jeribs irrigated?			
RB-1:	Towns connected?			
	Workers employed?			
	Jeribs cultivated within road influence area?			
	Total families within road influence area?			

COMMUNITY PARTICIPATION	Yes	No	Unk
Have there been any problems in recruiting workers?			
Did community members request the subproject?			
Have any labor or materials been contributed.			
Has the community provided project staff with any other assistance (e.g., security)?			

LABOR PAYMENTS	Yes	No	Unk
Are payments made directly to workers by ARR staff?			
Are the workers actually receiving full payments, whether in cash, food or fertilizer?			

AGRICULTURAL AND RURAL REHABILITATION

MONITORING FORM

No.	ARS No. & Name	Project Number and Name	Location		Sub-Proj Type	Sub Type	Date		Commander and Tanzeem	Budget				Monitor	Inspect date	Progress
			Village	District			Start date	Comp: date		Cash	Fertil-izer	Food	Total			%
1	01 Kabul	576 Tahta	Hasan khail	Sorobi	Streem (Jui)	Cleaning	5.12.91	1.05.91	Khan Zamir NIFA	17028 Rs	-	-	17,028 Rs	Qadar khail	2.03.91	100
2	02 Kapisa	151 Kohna Deh	Kohna Deh	Kohistan	Karaiz	Repair & Cleaning	1.01.91	4.03.91	Fareed H.I.A	17010 Afs	-	-	17,010 Afs	Mohd Sabir	5.03.91	100
3	03 Parwan	288 Franjil	Franjil	Ghorband	Streem (Jui)	Cleaning	6.11.90	28.11.90	Hayatullah H.I.A	14777 Afs	-	-	14,777 Afs	Mohd Yasin	2.12.90	100
4	04 Wardak	2504 Sorkh	Baksmond	Chack	Karaiz	Cleaning	14.09.90	30.12.90	Ghousuddin J.I.A	240,000 Afs	-	-	240,000 Afs	Mohd Nasir	3.02.91	100
5	05 Logar	Ghazi Bridge	Ghazi	Baraki Barak	Bridge	Motor Bridge	5.01.90	1.11.90	Shorai Jehadi	221,000 Rs	-	-	221,000 Rs	Said Muktar	18.04.91	100
6	06 Ghazni	2644 Potki	Loya Qala	Andal	Karaiz	Repairing & Cleaning	18.06.89	24.12.90	Gul khan NIFA	230,000 Afs	-	-	230,000 Afs	Abdul Gafar	27.12.90	100
7	07 Paktya	1508 Afghan	Guldad Khail	Zurmat	Karaiz	Repairing & Cleaning	17.12.89	22.10.90	Saifurahman NIIA	17,500 Rs	-	-	17,500 Rs	Abaas	16.1.91	100
8	10 Kunar	246 Asmar	Watla	Paich	Streem (Jui)	Repairing & Cleaning	16.10.90	31.10.90	Matiullah NIFA	144,800 Rs	-	-	144,800 Rs	Abdul Malik	28.11.90	100

APPENDIX 'J'

No.	Total Farm Families served	Workers employed	Crops irrigated	Total jeribs irrigated	Town connected	Jeribs cultivated within road influence area	Describe any problems that may prevent successful project completion	Length and Width of Project	In case of Karezes No. of wells	Explanation
1	67	Contract basis	Wheat Barley Maiz Orchards	70	-	-	Kabul regime bombordment		-	
2	150	"	Wheat Maiz Orchards	60	-	-	-	580 m	15	
3	120	"	Wheat Orchards	800	-	-	-	-	-	
4	22	"	Wheat Alfalfa	60	-	-	-	480 m 60 cm	24	
5	400		-	-	-	-	-	24 m 4.5m		
6	36	"	Wheat Alfalfa	260	-	-	-	2100 m 65 cm	70	
7	21	"	Wheat Rice Clover	110	-	-	-	1100 m	-	
8	400	"	Wheat Rice Maiz Been	350	-	-	-	4200 m 1.20 m	-	

Note: For Yes (+), For No (-) and For Unk (0)

No.	Was a Sub-project request form completed?			Was a feasibility study completed?			Was a sub-project planning form completed?			Was form IR-I or RB-I completed?			Was a shura involved in planning/approval?			Was there consensus among local authorities/community that this project should be accomplished before other requested projects that were not approved or deferred?			Have any unusual problems (technical or otherwise) been encountered in the construction of the sub-project?			Were timely measures taken to solve these problems?			Upon completion of the construction work, will the sub project facility be fully functional?		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
1	+			+			+			+			+			+				-			-		+		
2	+			+			+			+			+			+				-			-		+		
3																											
4																											
5	+			+			+			+			+			+				-			-		+		
6	+			+			+			+			+			+				-			-		+		
7	+			+			+			+			+			+				-			-		+		
8	+			+			+			+			+			+				-			-		+		

No.	In your opinion will the sub-project have a significant impact on agricultural production?			Has there been an adverse social impact. If so, explain?			Does the inofrmation appearing on form IR-I seem to to be correct with regards to benefits that will be provided by the sub-project?			Have there been any problems in recruiting workers?			Did community members request the sub-project?			Have any labour or materials been contributed?			Has the community provided project staff with any other assistance (e.g., security)?	Are payments made directly to worker by ARS staff?			Are the workers actually receiving full payment whether in cash; food or fertilizer?		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes - No	Yes	No	Unk	Yes	No	Unk
1	+				-		+				-		+			+			Security		-		+		
2	+				-		+				-		+			+			Few labour		-		+		
3																									
4																									
5	+				-		+				-		+				-		Security		-		+		
6	+				-		+				-		+				-		Security		-		+		
7	+				-		+				-		+				-		Security		-		+		
8	+				-		+				-		+			+			Security and Equipment	+			+		

AGRICULTURAL AND RURAL REHABILITATION

MONITORING FORM

No.	ARS No. & Name	Project Number and Name	Location		Sub-Proj Type	Sub Type	Date		Commander and Tanzeem	Budget				Monitor	Inspect date	Progress
			Village	District			Start date	Comp: date		Cash	Ferti-lizer	Food	Total			%
9	12 Takhar	Mushtaq	Mushtaq	Farkhar	Road	New	22.11.90	-	Mula Atta JIA	40000000 Afs	-	-	40,000,000 Afs	Mohd Sharit	20.12.90	30
10	13 Baghlan	313 Qomaroq	Dand Ghori	Pul Khomri	Canal	Repairing & Cleaning	1.08.90	22.09.90	Dr. Ismayl HIH	817600 Afs	-	-	817,600 Afs	Mohd Farooq	3.12.90	100
11	14 Kunduz	Newly Establi-shed														
12	20 Herat	Newly Establi-shed														
13	21 Farah	Regee	Center of Jowain	Jowain	Streem (Jui)	Cleaning	10.08.90	28.08.90	Abdul Rasool HIH	533280 Afs	-	-	533,280 Afs	Mohd Daud	20.09.90	100
14	24 Kandahar	432 Choorak	Haji Abdul Khaliq	Panjuaye	Streem (Jui)	Cleaning	22.12.90	31.12.90	Najibullah I.I.A	5710 Rs	-	-	5,710 Rs	Mohd Deen	1.01.91	100
15	28 Bamyan	Road	Bamyan proper	Bamyan	Road	Repair	22.10.90	-	Shoora	1000000 Afs	-	-	1,000,000	Mohd Zahir	21.11.90	25
16	29 Paktika	722 Suleman Zai	Suleman Zai	Gomal	Streem (Jui)	Cleaning	2.08.90	18.10.90	Eid Mohd NIFA	29970 Rs	-	-	29,970 Rs	Abdul Basir	20.02.91	100

No.	Total Farm Families served	Workers employed	Crops irrigated	Total jeribs irrigated	Town connected	Jeribs cultivated within road influence area	Describe any problems that may prevent successful project completion	Length and Width of Project	In case of Karezes No. of wells	Explanation
9	1000	-	-	-	5	2000	-	30 km 5 m	-	
10	186	-	Wheat Barley Rice	2500	-	-	-	5 km 4 m	-	
11	Newly Established									
12	Newly Established									
13	35	-	Wheat Barley	3000	-	-	-	2 km 1.5 m		
14	20	-	Wheat Orchards	300	-	-	-	2 km 1 m		
15	2000	-	-	-	-	-	-	23 km 4.5 m		
16	120	599	Wheat Barley Maiz	800	-	-	-	4 km 90 cm		

Note: For Yes (+), For No (-) and For Unk (0)

No.	Was a Sub-project request form completed?			Was a feasibility study completed?			Was a sub-project planning form completed?			Was form IR-I or RB-I completed?			Was a shura involved in planning/approval?			Was there consensus among local authorities/community that this project should be accomplished before other requested projects that were not approved or deferred?			Have any unusual problems (technical or otherwise) been encountered in the construction of the sub-project?			Were timely measures taken to solve these problems?			Upon completion of the construction work, will the sub project facility be fully functional?		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
9	+			+			+			+			+			+				-			-		+		
10	+			+			+			+			+			+				-			-		+		
11	+			+			+			+			+			+				-			-		+		
12	+			+			+			+			+			+				-			-		+		
13	+			+			+			+			+			+				-			-		+		
14	+			+			+			+			+			+				-			-		+		
15	+			+			+			+			+			+				-			-		+		
16	+			+			+			+			+			+				-			-		+		

No.	In your opinion will the sub-project have a significant impact on agricultural production?			Has there been an adverse social impact. If so, explain?			Does the inofrmation appearing on form IR-I seem to to be correct with regards to benefits that will be provided by the sub-project?			Have there been any problems in recruiting workers?			Did community members request the sub-project?			Have any labour or materials been contributed?			Has the community provided project staff with any other assistance (e.g., security)?	Are payments made directly to worker by ARS staff?			Are the workers actually receiving full payment whether in cash; food or fertilizer?		
	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk	Yes - No	Yes	No	Unk	Yes	No	Unk
9	+				-		+				-		+			+			Security measurer		-		+		
10	+				-		+				-		+			+			Tools and Equipment		-		+		
11	+				-		+				-		+			+			Tools and Equipment		-		+		
12	+				-				0		-		+			+			Security		-		+		
13	+				-		+				-		+				-		.		-		+		
14	+				-		+				-		+			+			Security		-		+		
15	+				-		+				-		+			+			Tools and Equipment		-		+		
16	+				-		+				-		+			+			.		-		+		

LEVEL-1 MONITORING
SUB-PROJECTS/INSPECTED
(JUNE 1990-APRIL 1991)

NO	PROVINCE	IRRIGATION	BRIDGES & ROADS	TOTAL	REMARKS
01	Kabul	43	---	43	
02	Kapisa	23	6	29	
03	Parwan	46	6	52	
04	Wardak	129	---	129	
05	Logar	175	1	176	
06	Ghazni	58	---	58	
07	Paktia	142	---	142	
10	Konar	49	11	60	
12	Takhar	1	1	2	
13	Baghlan	---	---	---	New ARS
14	Kundoz	---	---	---	New ARS
20	Herat	---	---	---	New ARS
21	Farah	40	---	40	
24	Kandahar	23	---	23	
28	Bamyan	13	1	14	
29	Paktika	138	---	138	
TOTAL		880	26	906	

Appendix "K"

Level -3 Monitoring
(Sub-projects Inspected April, 1990 - March, 1991)

No. of Project	Province	Irrigation	Bridges and Roads	Total	Remarks
01	Kabul	43	1	44	
02	Kapisa	23	-	23	
03	Parwan	46	1	47	
04	Wardak	129	4	133	
05	Logar	175	2	177	
06	Ghazni	58	-	58	
07	Paktia	142	2	144	
10	Kunar	49	3	52	
12	Takhar	1	3	4	
13	Baghlan	-	-	-	
14	Kunduz	-	-	-	New ARS
20	Herat	-	-	-	New ARS
21	Farah	40	-	40	
24	Kandahar	23	1	24	
28	Bamyan	13	1	14	
29	Paktika	138	-	138	
	Total :	880	18	898	

Appendix " L "

PHF/HAS: May 04,1988

PARWAN

فورمه تفتیش پروژه های عمران دهات

RURAL WORKS INSPECTION FORM

Date Inspected	: 25.12.90	:	تاریخ تفتیش
Inspected By	: Eng. Ahmad Farid Eng. M. Ibrahim	:	تفتیش کننده گان
Project Name	: Ghorband and Fandaqistan Roads		اسم پروژه
Project Number	: 03-0302-RD-02-68 and 72	:	نمبر پروژه
Date Project Surveyed	: 4.7.89	:	تاریخ سروی پروژه
Date Project Implementation Started	: September, 1990	:	تاریخ شروع کار پروژه
Objective of Inspection	: To check if the works are done accordingly and with the maps designed is used properly.		هدف از تفتیش

Project Status: وضع فعلی پروژه :

A. Percentage Completed	: 92% and 70% %	:	فیصدی کار اکمال شده
B. Work Stopped & Reason	:	:	توقف کار و علت آن

Due to shortage of some professional workers.

Due to weather or climate which was snowing for three months

Labour On Site: کارگران در ساحه:

A. Skill	: Some exists	:	الف - کارگر ماهر
B. Unskill	: Exists	:	ب - مزدور کار
Material & Equipment on Site	: Some exists	:	مواد و ابزار موجود در ساحه
Construction Progress	: 92% and 70%	:	پیشرفت کار ساختمان
Construction Problem	:	:	مشکلات ساختمانی

Shortage of personnel, climate problems.

Comments	:	:	نظریات

APPENDIX 'M'

M-1/6

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132

from the centre, therefore it takes time.

2. Shortage of machinery.

	Descriptions	تفصیلات	Rating نمبر	Remark ملاحظات
01	Source Reliability	منبع مؤثق (مؤثقیت منبع)	4	
02	System Design	سیستم ڈیزائن	3	
03	System Management	سیستم اداروی پروژہ	2	
04	System Operation	سیستم جریان کار	1	
05	System New Development	سیستم انکشاف کار جدید	1	
06	System Foundation	سیستم تعمیر اب گذاری	-	
07	System maintenance	سیستم حفظ و مراقبت	1	
08	System other Installation	سیستم تعمیرات دیگر	1	
09	Other Social Characteristics	سایر خصوصیات اجتماعی	1	
10	Other Comment	دیگر تبصرات	-	

Rating Grades:

Excellent = 4
Good = 3
Fair = 2
Bad = 1

درجات نمبر :

عالی ۴
خوب ۳
مناسب ۲
خراب ۱

E-1

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PHF/HAS: May 04,1988

فورمه تفتیش پروژه های عمران دهات

RURAL WORKS INSPECTION FORM

PAKTIA

Date Inspected	: 18.1.91	:	تاریخ تفتیش
Inspected By	: Eng. Najibullah Eng. Sardar Mohammad	:	تفتیش کننده گان
Project Name	: Hakim Khan wall road and 52 karezes		اسم پروژه
Project Number	: 07-07-31-RD-02-215	:	نمبر پروژه
Date Project Surveyed	: 11.2.90	:	تاریخ سروی پروژه
Date Project Implementation Started	: 13.7.90	:	تاریخ تطبیق پروژه
Objective of Inspection	: To check whether they have worked according to the maps and guiding the technical personnel.		هدف از تفتیش

Project Status: وضع فعلی پروژه :

A. Percentage Completed	: 30% %	:	فیصدی کار اکمال شده
B. Work Stopped & Reason	: Some security problems Climate problems	:	توقف کار و علت آن

Labour On Site: کارگران در ساحه :

A. Skill	: Exists	:	الف - کارگر
B. Unskill	: Exists	:	ب - مزدور کار
Material & Equipment on Site	: Some exists	:	مواد و آلات موجود در ساحه
Construction Progress	: 30%	:	پیشرفت کار ساختمان
Construction Problem	: 1. Shortage of some equipment. 2. Shortage of some technical workers.		مشکلات ساختمانی
Comments	:	:	نظریات

M-3/6

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134

from Peshawar, therefore it takes time to provide them.

2. Shortage of professional personnel.

	Descriptions	تفصیلات	Rating نمبر	Remark ملاحظات
01	Source Reliability	منبع موثق (مؤثقیت منبع)	3	
02	System Design	سسٹم ڈیزائن	3	
03	System Management	سسٹم اداروی پروگرام	2	
04	System Operation	سسٹم جریان کار	2	
05	System New Development	سسٹم انکشاف کار جدید	4	
06	System Foundation	سسٹم نصاب گذاری	-	
07	System maintenance	سسٹم حفظ و مراقبت	1	
08	System other Installation	سسٹم تاسیسات دیگر	2	
09	Other Social Characteristics	سایر خصوصیات اجتماعی	1	
10	Other Comment	دیگر نظریات	-	

Rating Grades:

Excellent = 4
Good = 3
Fair = 2
Bad = 1

درجات نمبر :

عالی ۴
خوب ۳
مناسب ۲
خراب ۱

E-01

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135

فورمه تفتیش پروژه های عمران دهات

KUNAR

RURAL WORKS INSPECTION FORM

Date Inspected : 15.1.91 : تاریخ تفتیش

Inspected By : Eng. M. Aziz Salehi : تفتیش کننده گان
Eng. Sardar Mohammad
Tech. M. Nader

Project Name : Naray Bridge : اسم پروژه

Project Number : 029-02-RD-03-37 : نمبر پروژه

Date Project Surveyed : 27.5.89 : تاریخ سروی پروژه

Date Project Implementation Started : 7.10.90 : تاریخ شروع کار پروژه

Objective of Inspection : To inspect whether work is being done on the project according to the maps and guide the professional personnel in the project. هدف از تفتیش

Project Status: وضع فعلی پروژه :

A. Percentage Completed : 60% % : فیصدی کار اکمال شده

B. Work Stopped & Reason : Since we prepare and transport some materials from outside, therefore it takes time and does not reach on proper time in the field. توقف کار و علت آن

Labour On Site: کارگران در ساحه :

A. Skill : Exists : الف - کارگر

B. Unskill : Exists : ب - مزدور کار

Material & Equipment on Site : Partially, some of them not exist. مواد و وسایل موجود در ساحه

Construction Progress : 60% : پیشرفت کار ساختمان

Masons, Technicians, Carpenter and Engineer were working jointly to complete the construction works.

Construction Problem : : مشکلات ساختمانی

1. Because the cable was going to be prepared from Lahore by RONCO, it took long time to be prepared.

2. Shortage of some material (cement, steel bars etc) and equipment.

Comments : : نظریات

M-5/6

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136

Comment: 1. Since the equipment and materials are provided from the centre, some of them are not prepared on proper time (like cables, cement, steel bars and other equipment).

2. Lack of machines and other equipments.

	Descriptions	تفصیلات	Rating نمبر	Remark ملاحظات
01	Source Reliability	منبع موثق (مؤثقیت منبع)	4	
02	System Design	سسٹم ڈیزائن	3	
03	System Management	سسٹم اداروپ پرولہ	2	
04	System Operation	سسٹم جریان کار	2	
05	System New Development	سسٹم انکشاف کار جدید	1	
06	System Foundation	سسٹم تعداب گذاری	1	
07	System maintenance	سسٹم حفظ و مراقبت	1	
08	System other Installation	سسٹم تنصیبات دیگر	1	
09	Other Social Characteristics	سایر خصوصیات اجتماعی	2	
10	Other Comment	دیگر تبصرہ	-	

Rating Grades:

Excellent = 4
Good = 3
Fair = 2
Bad = 1

درجات نمبر:

عالی ۴
خوب ۳
مناسب ۲
خراب ۱

E-1

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137

ATTACHMENT 1

STATEMENT OF WORK

The following statement of work has been submitted by the Reconstruction Group of the Center for International Studies of the Massachusetts Institute of Technology (MIT) in response to a request for a proposal from the Volunteers in Technical Assistance (VITA) to conduct a feasibility study for establishing an independent Afghan-managed rural works entity.

Section 1 of this statement describes the subcontracting organization. Section 2 describes the tasks of the proposed feasibility study. Section 3 describes the methodology of the proposed feasibility study. Section 4 provides a description of the administrative staffing and schedule for the proposed study. Section 5 provides a list of names of the consultants for the proposed team.

SECTION 1 -- The Subcontracting Group

This statement of work has been submitted by members of the Workshop on Reconstruction in the Middle East, a group located within the Center for International Studies (CIS) of the Massachusetts Institute of Technology. The Center for International Studies, established in 1951, is the principal research center within MIT in the field of international and comparative studies. Its senior staff consists of forty faculty members drawn from various departments at MIT; it includes engineers, urban planners, historians, political scientists, and economists.

CIS has a long history and a record of research and applied projects in developing countries, in Latin America, Sub-Sahara Africa, Southeast Asia, East Asia, the Middle East, and South Asia. The Reconstruction Group, is concerned with understanding the processes and problems associated with post-war reconstruction in the Middle East, broadly defined to include the region from Egypt to Afghanistan. Attention has been given to the role of international financial institutions, especially the World Bank and the International Monetary Fund, in large scale reconstruction, as well as to the role of local financial resources provided by governments, institutions, private entrepreneurs, and people of the region. The group has been concerned with the problems of relocating populations, rebuilding depleted skills and indigenous capabilities, assessing internal and external investment strategies in light of construction needs, evaluating appropriate modes of management of reconstruction activities, and exploring alternative modes of governance for communities undergoing reconstruction.

The Group is made up of faculty representing various disciplines such as civil engineering, urban and regional planning, political science, history, and architecture. Participants also include

scholars in anthropology, economics, and psychology. This interdisciplinary mix has provided the group with an awareness of the complex interaction of the political, social, economic, and physical planning aspects of efforts to reconstruct war-torn regions. Members of the Reconstruction Group have had considerable field experience as consultants to governments and private agencies, conducting feasibility studies, evaluating programs and institutions, proposing designs for new institutions, establishing training programs, and developing project proposals.

SECTION 2 -- Tasks of the Feasibility Study

VITA and USAID are concerned with how a program for agricultural and rural rehabilitation in Afghanistan, functioning out of Peshawar and Quetta with field offices working with local authorities within Afghanistan to repair and rehabilitate irrigation systems, roads, and bridges, can be evolved into an Afghan entity "capable of broadening its funding base and expanding its impact on rural infrastructure." The Reconstruction Group will assess the feasibility of this objective, first by considering the local, national, and international environment within which such an entity would function, and second by preparing a detailed set of recommendations for the establishment of such an entity.

An effective Afghan entity needs to be able to work with local authorities to carry out reconstruction and development activities. These activities must be able to be effectively monitored by donor agencies. Finally, the entity must have the standing or legitimacy to warrant support from a variety of bilateral and multilateral donors.

These tasks are made unusually difficult by the special political circumstances under which such an entity must function. Afghanistan's war has not yet ended, although the VITA program is within provinces considered peaceful. More fundamentally, the Agricultural Rehabilitation and Reconstruction (ARR) schemes function without the approval of Afghanistan's central government and the proposed Afghan entity may need to function independent of any central authority. Moreover, the tasks of the field offices have been limited primarily to the rehabilitation of irrigation systems, roads, and bridges and in the past have been intentionally kept small so as to minimize military attacks.

Taking all of these circumstances into account the present feasibility study will pay special attention to the following issues:

- What responsibilities should be assigned to the proposed Afghan entity? Should it continue to be primarily concerned with rural public works or should it take on broader functions to enhance agricultural productivity and nurture small scale enterprises including agro-businesses? Given the

present political situation within Afghanistan as well as the managerial and technical capabilities of the existing staff, what would be a realistic set of tasks for the proposed entity? A related question is whether the proposed entity should be a non-revenue generating institution dependent upon external support or whether it is feasible to take on activities that would provide some self-generating revenue.

- Should the mandate of the proposed Afghan entity be the reconstruction of war-torn areas to which refugees are or will be returning, or should it also focus on the development of regions in which there has been little destruction but which have a high potential for agricultural productivity? What criteria should be used for selecting sites for assistance?

- Can the proposed entity engage in province-wide planning in the present political context or should the interactions be primarily if not exclusively with local institutions? How can the proposed entity most effectively interact with local and provincial authorities?

- What alternative institutional arrangements are possible? A private construction firm contracted to do public works? A non- profit quasi-public entity designed to work with local and provincial governments? What kind of entity will bridge the interests of donors with those of local authorities? Would donor organizations work directly with the proposed entity, reviewing accounts, evaluating performance, etc. or would an intermediary institution (e.g. an NGO) be necessary?

- Which of the various alternatives are most likely to attract support from a consortium of bilateral and multilateral donors? Who are the potential participants in such a consortium? What are their requirements for participation?

SECTION 3 -- Methodology

Given the rather large range of issues the team must explore, and the complexity of a study that entails familiarity with agencies in Washington, the functioning of Agriculture and Rural Rehabilitation offices in Peshawar, Quetta, and in field offices in Afghanistan, and the need to explore alternative proposals with potential donors, the tasks will be divided into four discrete stages.

Stage 1

The first task will cover the period May 1 through July 30, 1991 and will be used by the Reconstruction Group as an information

gathering period. It is anticipated that during this time the MIT team will:

- o Familiarize itself with information available at A.I.D. and VITA on the existing ARR field operations. Information gathered will focus on but not be limited to:

  - * how projects are initiated, designed, reviewed, selected, implemented, monitored, and evaluated;

  - * the ARR's staffing pattern, recruitment scheme, compensation arrangements, training program, and level of managerial and technical skills;

  - * the relationship between ARRs and other programs and institutions, including other NGOs, international agencies and the local authorities with whom the ARRs interact at the local level.

- o Prepare a briefing book with background materials on Afghanistan.

- o Meet with senior Afghan officials as well as representatives of USAID, State, World Bank and others who have first hand knowledge of Afghanistan or who can impart useful and relevant information for the purpose of this study. It is anticipated that these discussions will allow the team to understand how the VITA program fits into the overall AID program in Afghanistan; assess overall policy for the country in the relevant future; and gain some knowledge of historical and comparative examples of institutional arrangements for dealing with the reconstruction of rural infrastructures within the Afghani context.

<u>Stage 2</u>

The Second Stage will cover the period of July 31 to August 23, 1991 and will comprise the team's first visit to Pakistan. During this time the MIT team will concentrate on the following:

a. Completion of its assessment of the existing ARR field operations, their organizational structure and manpower resources, and its relationship with local and provincial authorities. The task will concentrate on assessing the capacity of the existing staff and program to become an independent Afghan institution, and what is needed to create such an institution however its structure and mission are defined.

b. Meetings with officials of other NGOs in Peshawar with major responsibilities for rural reconstruction in

Afghanistan, both to hear their assessment of the ARR projects and to familiarize themselves with the scope of other rural reconstruction activities.

c. Meetings with local representatives of bilateral and multilateral donor organizations in Peshawar and Islamabad to review with them alternative proposals for converting the ARR organization into an independent Afghan-managed entity since their assessment and support is likely to be critical in whether or not their governments would take part in funding the proposed entity.

d. Preparation of a preliminary feasibility report so that feedback can be received from both VITA and USAID personnel. The report will describe the traditional, political, legal, and cultural constraints within which the proposed entity must function, report on the role played by other indigenous non-governmental entities in Afghanistan's development, suggest what missions might be performed by the proposed entity, indicate the overall structure of the proposed entity and how it might relate with local and regional authorities, with the government of Afghanistan, and with potential donors, indicate how the ARR could be converted into the proposed entity, and suggest how a consortium of donors might best be assembled. The report will also provide a preliminary plan for developing within the organization the managerial and technical skills necessary to plan and implement projects and to assure financial responsibility. While the team may recommend a single proposal, they have the option of presenting several alternative arrangements to VITA and USAID.

A tentative agenda for this trip is as follows:

July 31, 1991	departure for Pakistan
August 2, 1991	Islamabad arrival
August 2 & 3, 1991	Islamabad--meetings with AID
August 3 afternoon	departure for Peshawar
August 3 - 13, 1991	Activities in Peshawar: * meetings with VITA staff * meetings with selected VITA/ARR reps from Afghanistan * review of VITA/ARR training programs * meetings with Afghan NGOs * meetings with local offials of donor organizations * visit to Akhbar (ass'n of NGOs) * meet with reps of major foreign NGOs * meet with local staff of other USAID projects

	* meetings with appropriate Pakistani officials
August 14, 1991	Depart for Islamabad
August 14 & 15, 1991	Meetings with donors in Islamabad (UNDP UNOCA, CEDA, Swedish Committee, UNHCR, WFP, Japanese, German, etc.)
August 16, 1991	Afternoor departure for Peshawar
August 17, 1991	Meetings in Peshawar
August 18, 19, 20	Report preparation
August 21, 1991	Briefing/report presentation to VITA staff in Peshawar
August 22, 1991	Briefing/report presentation to USAID staff in Islamabad
August 23, 1991	Departure for the U.S.

Stage 3

Upon returning to the U.S. the MIT team will work to organize a resource conference in Washington DC, Boston or New York. The conference is to be held in the Fall of 1991 and serve as a forum for bringing together donor representatives, as well as senior Afghan officials for discussion of its recent findings in Pakistan and further analysis of funding potential.

Conference participants will include representatives from relevant United Nations Agencies, including the United Nations Development Fund (UNDP) the International Fund for Agricultural Development (IFAD), and UNOCA; bilateral donors, including representatives of the Official Development Assistance (ODA) program in Japan (e.g. representatives from JICA and OECF), the Canadian International Development Assistance program (CIDA), USAID, and various Arab funds for development; and the World Bank.key objective of the meeting will be to determine what the requirements are for the various donors, whether a consortium for creating an Afghan fund for rural reconstruction and development is feasible, and which of several institutional arrangements would be most attractive to donors.

Senior Afghan officials that will be invited will include but not be limited to the following: Mr. Abdul Tawab Assifi, former Minister of Mines and Industry; Mr. Ghulam Ali Ayeen, former Governor and Minister of Education; Mr. A. Siraj, former Minister of Health; Dr. Noor Ali, former Minister of Commerce and former President of Afghanistan's Industrial Bank; and Mr. Abdul Aziz Ferough, former Deputy Minister of Planning.

It should be noted that members of the Reconstruction Group and other faculty at MIT are reasonably knowledgeable as to what agencies and individuals might appropriately be invited, though the final list of invitees would be prepared in consultation with USAID and VITA.

142

MIT participants will include Professor Ralph Gakenheimer, Professor of Urban Planning and Civil Engineering; Professor Philip S. Khoury, Acting Dean, School of Humanities and Social Sciences; Professor Fred Moavenzadeh, Department of Civil Engineering and Director of the Center for Construction Research and Education; Professor Nazli Choucri, Department of Political Science and Associate Director, Technology and Development Program; and Professor Myron Weiner, Department of Political Science and Director, Center for International Studies. Other Cambridge area academic participants will include Professor Ali Banuazizi, Department of Psychology, Boston College and Research Fellow, Center for International Studies; and Professor Tom Barfield, Chair, Department of Anthropology, Boston University.

Background materials on the existing VITA/USAID reconstruction program in Afghanistan will be distributed to the conference participants, along with a background paper describing the issues which must be addressed in creating a consortium of donors. Upon completion of the conference, a report will be submitted to VITA and USAID which will specify the requirements, priorities and preferences of various donoros as well as the institutional arrangements they would consider most attractive. The report will provide an essential input to the team's efforts to find a balance among donor preferences, Afghanistan realities and feasible institutional options.

Stage 4

The fourth stage will mainly require a second visit to Islamabad/Peshawar. The primary purpose of this second visit will be to meet with local representatives of donor institutions and with VITA and USAID and review the final findings of the Reconstruction Group. This brief trip will be a brief trip and it will take place no later than January, 1992.

The final report that will be prepared by MIT will include a description of the traditional, political, legal, and cultural constraints within which the proposed entity must function, report on the role played by other indigeneous non-governmental entities in Afghanistan's development, suggest what missions might be performed by the proposed entity, indicate the overall structure of the proposed entity and how it might relate with local and regional authorities, with the government of Afghanistan, and with potential donors, indicate how the ARR could be converted into the proposed entity, and suggest how a consortium of donors might best be assembled. The report will also provide a preliminary plan for developing within the organization the managerial and technical skills necessary to plan and implement projects and to assure financial responsibility. While the team may recommend a single proposal, they leave open the possibility that several alternative arrangements might be suggested to VITA and to USAID.

SECTION 4 -- Staff and Schedule

Proposed work on the feasibility study will commence on May 1, 1991 and be completed by March 31, 1992.

A part-time staff coordinator will be appointed to organize the conference of potential donors, provide overall administrative support and be the administrative contact point for VITA. A graduate student will be appointed to assist in the preparation of background materials. The coordinator, with part-time secretarial and graduate student assistance, will take responsibility for the logistics involved in arranging briefings in Washington, distributing materials to the team, preparing for the meeting with potential donors, getting the team to Pakistan, and assisting in report preparation. The Subcontract budget provides for all the costs associated with the conference and for the relevant administrative costs and operating expenses other than travel by team members to Washington and to Pakistan.

SECTION 5 -- List of Proposed Consultants

Listed below are the proposed consultants for participation in the feasibility study. It is our understanding that VITA and AID will make the final selection, and may request the names of additional or alternative consultants. VITA and AID will negotiate appropriate compensation for each of the consultants, as well as provide for per diems and travel expenses. A budget is submitted indicating the number of days and compensation proposed for each of the consultants:

* Ali Banuazizi, Research Affiliate, Center for International Studies and Professor, Department of Psychology, Boston College and co-director of the MIT project on the state and restructuring of society in Afghanistan, Pakistan and Iran, with UN consulting experience on developing social indicators for evaluating programs and policies.

* Professor Thomas Barfield, Chair, Department of Anthropology, Boston University, a rural anthropologist with expertise on Afghan social organization, who has done considerable consulting work relating to Afghanistan.

* Nazli Choucri, Professor of Political Science and Associate Director of the MIT Technology and Development Program, with expertise on international organizations and development.

* Ralph Gakenheimer, Professor of Urban Planning and Civil Engineering, MIT, a specialist on infrastructures in developing countries , with considerable experience in Arab countries and in Latin America.

* Philip S. Khoury, Acting Dean, School of Humanities and Social Science, Professor of History with knowledge of the comparative history of post-war reconstructions, and a specialist on the role of tribes in Middle East state formation.

* Fred Moavenzadeh, Director, Center for Construction Research and Education, Department of Civil Engineering, experienced in the design of engineering organizations in developing countries.

* Jerome Rothenberg, Professor of Economics, MIT, a specialist in urban economics with expertise in the analysis of structural change and the financing of infrastructure services.

* Myron Weiner, Director of the Center for International Studies and Ford International Professor of Political Science, co-director of the Ford Foundation-funded project at MIT on the state and restructuring of society in Afghanistan, Pakistan and Iran, with previous experience consulting on institutional development programs, policies, and evaluations in South and Southeast Asia.

While all members of the team will contribute to all aspects of the study, individual members will take initial responsibility for preparing specific sections of the feasibility report. Professors Barfield and Banuazizi will take responsibility for describing the traditional political, legal and cultural constraints within which the proposed entity must function. Professor Khoury will indicate how the proposed entity might relate to local and regional authorities, including an exploration of the relevant legal issues. Professors Gakenheimer and Moavenzadeh will provide a preliminary plan for developing within the organization the managerial and technical skills necessary to plan and implement projects. Professors Choucri and Weiner will focus on the relationship between the proposed entity and potential donors, their requirements, priorities and preferred institutional arrangements. Professor Weiner, as director of the team, will take responsibility for final report preparation, with support from the team's administrative coordinator. Because of the individual areas of expertise and the division of labor anticipated in the preparation of the final report, it is not anticipated that consultants will be participating in both trips.

146

47 AKBAR (AGENCY COORDINATING BODY FOR AFGHAN RELIEF), 2 REHMAN BABA ROAD TEL. 42471/ 40839/ 44392/ 45347
48 ARIC (AKBAR RESOURCE AND INFORMATION CENTRE), 2 REHMAN BABA ROAD TEL. 45316 (LIBRARY) / 44392/ 40839/ 42471/ 45347
58 AFGHAN CONSTRUCTION AND LOGISTICS UNIT, 74/E ABDARA ROAD TEL. 41205
129 AFGHAN DEVELOPMENT ASSOCIATION / THE SALVATION ARMY, H. # 34-C/3A-1 CIRCULAR ROAD TEL. 44773/ 42230
93 AFGHAN EYE HOSPITAL, 11 GULMOHAR ROAD TEL. 41093
50 AFGHAN HEALTH & SOCIAL ASSISTANCE ORGANIZATION (AHSAO), 1426-F OLD BARA RD. TEL. 42152
94 AHSAO, MILK DISTRIBUTION PROGRAMME, B/A UNIVERSITY ROAD TEL. 43827
137 AFGHAN INFORMATION CENTRE, 18-E SAYED JAMALUDDIN AFGHANI ROAD TEL. 40353
95 AFGHAN INTERIM GOVERNMENT (AIG) HEADQUARTERS, UNIVERSITY ROAD TEL. 40320
72 AIG, MINISTRY OF EDUCATION, 14 PARK ROAD TEL. 43412/ 44243
34 AIG, MINISTRY OF FINANCE, OLD BARA ROAD TEL. 44415
120 AIG, MINISTRY OF INFORMATION AND ISLAMIC GUIDANCE, 43/B-3 SAHIBZADA ABDUL RATUN ROAD TEL. 45460
135 AIG, MINISTRY OF INFORMATION AND ISLAMIC GUIDANCE, PUBLICATION DEPARTMENT, CANAL ROAD, AHMAD FLAT, PAWAKI TEL. 43971
14 AIG, MINISTRY OF JUSTICE, JEHANGIRABAD TEL. 40723/ 40883
35 AIG, MINISTRY OF PUBLIC HEALTH, HEALTH SERVICES DEVELOPMENT DEPARTMENT, OLD BARA ROAD, TEL. 45230
26 AIG, MINISTRY OF PUBLIC HEALTH, INSTITUTE OF PUBLIC HEALTH, 13-A CHINAR ROAD TEL. 43592/ 43492
1 AIG, MINISTRY OF PUBLIC HEALTH, SHAHEED DR. GAFFOORLAN HOSPITAL, PELAL LANE, ARBAB ROAD TEL. 42705
133 AIG, MINISTRY OF RECONSTRUCTION, 73/B SAYED JAMALUDDIN AFGHANI ROAD TEL. 41917/ 43618
38 AIG, MINISTRY OF SECURITY, OLD BARA ROAD TEL. 41070
144 AFGHAN MEDIA RESOURCE CENTER (AMRC), 2 CANAL BANK ROAD TEL. 41691/ 44279/ 44270/ 42377
92 AFGHAN MEDICAL AID, 5-B UNIVERSITY ROAD TEL. 43203
130 AFGHAN OBSTERICS AND GYNAECOLOGY HOSPITAL (AOGH), 2 CIRCULAR ROAD TEL. 40721
97 AFGHAN TECHNICAL CONSULTANTS (ATC), 90-B UNIVERSITY ROAD TEL. 41582
6 AFGHAN WOMEN'S RESOURCE CENTER (AWRC), OSMANIA LANE, ARBAB ROAD TEL. 44052
115 AFGHANAID, 5-B GULMOHAR ROAD TEL. 42035/ 43751/ 42322
42 AFGHANISTAN COMPUTER ACADEMY, OLD BARA ROAD, AFZALABAD, TEL. HOME
25 AFGHANISTAN HOTHILFE (AHH) MAIN OFFICE, H. # 17-E JEHANGIRABAD TEL. 42591
73 AFRAME, WHITE HOUSE, 2 PARK LANE TEL. 42320
24 AL-DAWAT SURGICAL HOSPITAL, WELFARE AND RELIEF FOR AFGHAN REFUGEES, 1/940 ABDARA ROAD TEL. 41871
83 AMERICAN CENTER, UNITED STATES INFORMATION SERVICE (USIS), 17-C CHINAR ROAD TEL. 41463/ 40363
138 ASIA FOUNDATION, 22 SAYED JAMALUDDIN AFGHANI ROAD TEL. 44999
66 AUSTRIAN RELIEF COMMITTEE FOR AFGHAN REFUGEES (ARC), 89-E OLD BARA ROAD TEL. 42584/ 42592
55 AVICEN (AFGHANISTAN VACCINATION & IMMUNIZATION CENTRE) MAIN OFFICE, 14-F KHUSHAL KHAN KHATTAK ROAD TEL. 43076
131 AVICEN, COLD CHAIN DEPARTMENT, 46-C SAHIBZADA ABDUL RATUN ROAD TEL. 40624
46 AVICEN, PEDAGOGIC AND OPERATION DEPARTMENT, 22 F KHUSHAL KHAN KHATTAK ROAD TEL. (APPLIED FOR)
141 BRITISH BROADCASTING CORPORATION (BBC), 14-A CANAL BANK ROAD TEL. 42315
54 CARITAS AFGHAN REFUGEE PROGRAM, 17/F-1 KHUSHAL KHAN KHATTAK ROAD TEL. 45296
110 CONSULTANT BUREAU FOR RECONSTRUCTION (CBR), 19 CANAL BANK ROAD TEL. 43633
68 COORDINATION OF AFGHAN RELIEF (COAR), 71-E (ST ABDARA ROAD TEL. 41180
127 COORDINATION OF MEDICAL COMMITTEES (CMC), 32 C/E CIRCULAR ROAD TEL. 43631
16 CULTURAL AND RELIEF FOUNDATION FOR AFGHANISTAN (CRFA), 117 STR. # 7 SHAHEEN TOWN TEL. 43701
8 CULTURAL ASSOCIATION OF AFGHANISTAN, SPEBE, 3RD FLOOR, KHYBER VIEW PLAZA TEL. HOME
103 DANISH COMMITTEE FOR AID TO AFGHAN REFUGEES (DACAART MAIN OFFICE, 10 GULMOHAR LANE TEL. 42516/ 40731
104 DACAAR SEWING PROJECT, 10 GULMOHAR LANE TEL. 43245
19 DENTAL CLINIC FOR AFGHAN REFUGEES, JAMAL ROAD, SHAHEEN TOWN TEL. 43358
85 DEVELOPMENT ALTERNATIVES INC. (DAI), 4 A-C PARK AVENUE TEL. 43259/ 45407/ 45307
15 DIAGNOSTIC CENTRE FOR AFGHAN REFUGEES, STREET # 8 OFF JAMAL ROAD, SHAHEEN TOWN TEL. HOME
45 DOMESTIC ENERGY SAVING PROJECT/AFGHAN PROGRAMME/GTZ, 7-27 KHUSHAL KHAN KHATTAK ROAD TEL. 45417
99 EUROPEAN ECONOMIC COMMUNITY, 27 CANAL ROAD TEL. 41949
21 EYE CLINIC FOR AFGHAN REFUGEES, STREET # 3 OFF JAMAL ROAD, SHAHEEN TOWN TEL. 44928
2 FATIMA-E-ZAHRA GIRLS SCHOOL, OSMANIA LANE, ARBAB ROAD, UNIVERSITY TOWN TEL. HOME
126 FUEL EFFICIENT COOKING TECHNOLOGY (FECT), PAKISTAN PROGRAMME PCAT/GTZ, 31-C CIRCULAR ROAD TEL. 42511/ 45307
114 GERMAN AFGHANISTAN COMMITTEE (GAC) MAIN OFFICE, 23-C PARK AVENUE TEL. 42446
145 GAC, CANAL ROAD OFFICE TEL. 44349/ 47588
68 GAC, PLASTIC SURGERY PROJECT FOR AFGHANS, 13 ABDARA ROAD TEL. 41042
51 GERMAN AFGHANISTAN FOUNDATION (GAF), 20 F/B KHUSHAL KHAN KHATTAK ROAD TEL. 40913/ 43257
17 GERMAN LANGUAGE CENTER, STR. # 7 OFF JAMAL ROAD, SHAHEEN TOWN TEL. HOME
121 HARAKAT-E-ISLAMI AFGHANISTAN, HEALTH DEPARTMENT, 43/B SAHIBZADA ABDUL RATUN ROAD TEL. 45206
143 HELP (GERMANY), 34-E SAYED JAMALUDDIN AFGHANI ROAD TEL. 41530
65 HELP THE AFGHANS FOUNDATION, 5-C/2 ABDARA ROAD TEL. 44053
59 HELPING AFGHAN FARMERS ORGANIZATION (HAFO) 71 E ABDARA ROAD TEL. 44677
32 HEZB-E-ISLAMI AFGHANISTAN, AFGHAN NEWS AGENCY, 12/44 OLD BARA ROAD TEL. 42255
13 HUMAN CONCERN INTERNATIONAL, KATTA HOUSE, JEHANGIRABAD TEL. 42524/ 42544
69 INTERNATIONAL COMMITTEE OF THE RED CROSS (ICRC) MAIN OFFICE, 15-B OLD JAMRUD ROAD TEL. 41673/ 41371/ 43915
70 ICRC, FIRST AID COURSES, 15-B OLD JAMRUD ROAD TEL. 41673/ 41371/ 43915
78 ICRC, HOSPITAL FOR AFGHAN WAR WOUNDED, 11-B OLD JAMRUD ROAD TEL. 40438
139 ICRC, ORTHOPAEDIC CENTRE FOR AFGHANS, 62-E CANAL ROAD TEL. 41997
71 ICRC, TRACING AGENCY, 15-B OLD JAMRUD ROAD TEL. 41673/ 41371/ 43915
109 INTERNATIONAL MEDICAL CORPS (IMC) MAIN OFFICE, 55-C3 GULMOHAR LANE TEL. 42250
123 INTERNATIONAL RESCUE COMMITTEE (IRC) MAIN OFFICE, 41-F SAHIBZADA ABDUL RATUN ROAD TEL. 41845/ 41274/ 43203
124 IRC, ADMINISTRATION, 41-F SAHIBZADA ABDUL RATUN ROAD TEL. 41350/ 41274/ 43845/ 43203
102 IRC, CONSTRUCTION RELATED TRAINING, 17-C GULMOHAR LANE TEL. 42421/ 44621
146 IRC, ENGLISH LANGUAGE PROGRAMME, 43 SAYED JAMALUDDIN AFGHANI ROAD TEL. 43310/ 41560/ 45230
122 IRC, ENGLISH TRAINING AND DEVELOPMENT PROGRAM, 43/B SAHIBZADA ABDUL RATUN ROAD TEL. 44681
81 IRC, EXPERIMENTAL SCHOOL, 10-A CHINAR ROAD TEL. 40189
33 IRC, HANDICRAFTS - SELF RELIANCE PROJECT, OLD BARA ROAD TEL. 42565
64 IRC, HEALTH EDUCATION RESOURCE CENTER (HERC), 25/B REHMAN BABA ROAD TEL. 44122/ 43825

APPENDIX 'O'

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63 IRC, HERC, MATERIALS DEVELOPMENT SILK SCREEN PROJECT, 84 E RAHMAN BABA ROAD TEL. 44122
149 IRC, JOURNALISM PROGRAM, 43 SAYED JAMALUDDIN AFGHANI ROAD TEL. 43310/ 41560/ 45238
29 IRC, KOHAKISTAN EDUCATION PROGRAM (KEP), 81-B SCHOOL ROAD TEL. 41341
150 IRC, LANGUAGE TEACHERS TRAINING AND TRANSLATION OFFICE (LTT), 43 SAYED JAMALUDDIN AFGHANI ROAD TEL. 43310/ 41560/ 45238
151 IRC, PUBLIC ADMINISTRATION (PA), 43 SAYED JAMALUDDIN AFGHANI ROAD TEL. 43310/ 41560/ 45238
125 IRC, REHABILITATION PROGRAMME FOR AFGHAN REFUGEES (RPA), 39/C SAHIBZADA ABDUL QAYUM ROAD TEL. 41274/ 41845
80 IRC, RURAL ASSISTANCE PROJECT (RAP), 18 CHINAR ROAD TEL. 44310/ 45410
77 IRC, SCIENCE AND TECHNOLOGY TRAINING (STT), 32-B CHINAR ROAD TEL. 41944
22 IRC, THE GREAT CENTER OF ENGLISH LANGUAGE, SCIENCE AND TRAINING OF CAMERAMEN, STR. 1 1 SHAHEEN TOWN. TEL. NONE
5 IRC, WOMEN'S ENGLISH LANGUAGE PROGRAM, OSMANIA LANE, ARBAB ROAD, UNIVERSITY TOWN TEL. 44210
4 IRC, WOMEN'S HIGHER EDUCATION, OSMANIA LANE, ARBAB ROAD TEL. 45030/ 45201
23 ISLAMIC ASSOCIATION OF AFGHAN ARCHITECTS AND ENGINEERS, B-4 NEW ARBAB COLONY, ARBAB RD. TEL. 40751
116 ISLAMIC COORDINATION COUNCIL, 3 GULMOHAR ROAD TEL. 42241
62 ISLAMIC INTERNATIONAL RELIEF ORGANIZATION (IIRO), 68/E2 ABDARA ROAD TEL. 41922
119 ISLAMIC LANGUAGE INSTITUTE FOR AFGHAN WOMEN, 40-C SAHIBZADA ABDUL QAYUM ROAD TEL. NONE
87 ISLAMIC RELIEF AGENCY (ISRA) MAIN OFFICE, 77-DA/B PARK ROAD TEL. 42245/ 42365
75 ISRA, ORPHANS WELFARE DEPARTMENT, 11 CHINAR ROAD TEL. 41742
79 ISRA, PSYCHIATRIC CLINIC, 5A/1 PARK ROAD, TEL. NONE
101 ITALIAN COOPERATION FOR DEVELOPMENT (ICD), TUBERCULOSIS CONTROL PROGRAMME, 3-C GULMOHAR LANE TEL. 41496/ 42520
128 JAPAN-AFGHAN MEDICAL SERVICES, 3-C/2 CIRCULAR ROAD TEL. 44350/ 41544
90 JEHAD UNIVERSITY FACULTY OF EDUCATION, 39 PARK ROAD TEL. NONE
9 JIA, BALKH PROVINCE EMIRAT REPRESENTATION, CULTURAL DEPARTMENT OF USTAD ZABIULLAH-E-SHAHID'S FRONT, KHYBER VIEW PLAZA Tel. NONE
11 KUWAIT RED CRESCENT HOSPITAL FOR AFGHAN RELIEF, JAMRUD ROAD TEL. 41508
108 MADERA, 53-C II GULMOHAR LANE TEL. 42234
39 MANAGEMENT SCIENCES FOR HEALTH (MSH), OLD BARA ROAD TEL. 40792/ 42867/ 44564
74 MEDECINS DU MONDE (MDM), WHITE HOUSE, 2 PARK LANE TEL. 42320
146 MEDECINS SANS FRONTIERES/BELGIUM-HOLLAND, CANAL ROAD TEL. 42251/ 44713
37 MSF BELGIUM (LAB TRAINING COORDINATION), 12 AFZAL ABAD, OFF OLD BARA ROAD TEL. 41870
36 MERCY FUND, KHATTAK HOUSE, OLD BARA ROAD TEL. 42405
56 MUSLIM AID (UK) CENTRAL MEDICAL LAB, 12 F/A KHUSHAL KHAN KHATTAK ROAD TEL. 43326
113 MUSLIM SISTERS ORGANIZATION MAIN OFFICE, 6-D PARK AVENUE TEL. NONE
44 MUSLIM SISTERS ORGANIZATION LYCEE FOR GIRLS, 43 F/3 KHUSHAL KHAN KHATTAK ROAD TEL. NONE
107 MUSLIM WORLD LEAGUE (RABITA) MAIN OFFICE, 2 GULMOHAR LANE TEL. 43328/ 43918
118 MUSLIM WORLD LEAGUE, ISLAMIC CULTURAL CENTER, 42 SAHIBZADA ABDUL QAYUM ROAD TEL. 42686
18 NAHEED SHAHEED PRIMARY SCHOOL, JAMAL ROAD, SHAHEEN TOWN TEL. 42552
84 NARCOTICS AWARENESS AND CONTROL PROJECT (NACP), 31 CHINAR ROAD TEL. 44821/ 44921/ 44617
7 NATIONAL ISLAMIC FRONT OF AFGHANISTAN, IBNE SINA-E-BALKHI SURGICAL AND MEDICAL HOSPITAL, JEHANGIRABAD, Tel. 43209
61 NORWEGIAN COMMITTEE FOR AFGHANISTAN, 8 OLD BARA ROAD TEL. 42517
112 NORWEGIAN REFUGEE COUNCIL/NORWEGIAN CHURCH AID (NRC/NCA) MAIN OFFICE, 51-C PARK AVENUE TEL. 42304
88 NRC/NCA, PROJECT OFFICE, 3-B JAMRUD ROAD TEL. 41129/ 45210
89 NRC/NCA, EMPLOYMENT EXCHANGE DEPT. (EED), 3-B JAMRUD ROAD TEL. 41129/ 45210
12 NRC/NCA, TECHNICAL TRAINING CENTER PESHAWAR (TTCP), JEHANGIRABAD TEL. 40719
31 OCKENDEN VENTURE, 42/D-1 OLD JAMRUD ROAD TEL. 40410
26 PROGRAMME CULTURAL FRANCAIS POUR LES AFGHANS (PCFA), C 27/28 SPINZAR PLAZA, JEHANGIRABAD TEL. NONE
20 PSYCHIATRY CENTRE FOR AFGHANS, STREET 1 5 OFF JAMAL ROAD, SHAHEEN TOWN TEL. 42987
147 RADDA BARNEN (SWEDISH SAVE THE CHILDREN), 3 CANAL ROAD TEL. 43905
105 RECONSTRUCTION AUTHORITY FOR AFGHANISTAN (RAFA), 19 A/C GULMOHAR LANE TEL. 44867
3 REHABILITION CENTRE FOR DISABLED AFGHAN REFUGEES, T/875 ARBAB COLONY, ARBAB ROAD TEL. 44032
SALVATION ARMY (SEE AFGHAN DEVELOPMENT ASSOCIATION, 1 129)
117 SAUDI RED CRESCENT SOCIETY, 2 GULMOHAR ROAD TEL. 42207
142 SAVE THE CHILDREN (UK), 39-B SAYED JAMALUDDIN AFGHANI ROAD TEL. 41910/ 41170
136 SAVE THE CHILDREN (US), 46-E ATTATURK LANE TEL. 43249/ 42462
10 SEENA COMPUTER CENTRE (SCC), 10 KHYBER VIEW PLAZA, FIRST FLOOR, ABDARA CHOWK, JAMRUD ROAD Tel. NONE
28 SERVE MAIN OFFICE, 5 MULBERRY ROAD TEL. 41706/ 40737/ 43253
30 SERVE, CARPET WEAVING TRAINING CENTER, 7 MULBERRY ROAD TEL 40737/ 43253
27 SERVE, MOBILITY PROJECT FOR THE BLIND, 12 SCHOOL ROAD TEL. 43253/ 40737
66 SOLIDARITE AFGHANISTAN, 10 RB/6 PARK ROAD, 41124
110 SWEDISH COMMITTEE FOR AFGHANISTAN (SCA) MAIN OFFICE, 57-C GULMAHAR LANE, TEL. 40415/ 42218/ 45257/ 45257
111 SCA, AGRICULTURE DEPARTMENT, 57-C GULMOHAR LANE, TEL. 45257/ 45357
98 SCA, AGRICULTURE TRAINING CENTER, 13-A UNIVERSITY ROAD TEL. 42719
106 SCA, EDUCATION DEPARTMENT, 15/A GULMOHAR LANE TEL. 41247 /42257
96 SCA, HEALTH DEPARTMENT, 5-C UNIVERSITY ROAD TEL. 43279
57 TEACHER INSTITUTE FOR AFGHANS, REHMAN BABA ROAD TEL. N/A
100 UNHCR, 1 GULMOHAR LANE TEL. 41837-9
67 UNICEF, 17/B4 ABDARA ROAD TEL. 43669/ 42437
134 UNION AID FOR AFGHAN REFUGEES, 2-A SAYED JAMALUDDIN AFGHANI ROAD TEL. 44374
UNITED STATES INFORMATION SERVICE (SEE AMERICAN CENTER 1 83)
43 UNIVERSITY OF NEBRASKA AT OMAHA (UNO) MAIN OFFICE, F-A 35 KHUSHAL KHAN KHATTAK ROAD TEL. 42492/ 44536
53 UNO, AFGHAN SCHOLARSHIP PROGRAM INTENSIVE LANGUAGE (ASPIL), 18 F KHUSHAL KHAN KHATTAK ROAD TEL. 43725
52 UNO, EDUCATION CENTER FOR AFGHANISTAN (ECA), 19 F.A. KHUSHAL KHAN KHATTAK ROAD TEL. 44536/ 42492
40 UNO, INSTRUCTIONAL MATERIALS DEVELOPMENT CENTER (IMDC), 16-C OLD BARA ROAD TEL. 43909
41 UNO, MANPOWER TRAINING PROGRAMME, H. 1 7 OLD BARA ROAD TEL. 44536 EXT. (29)
82 USAID/AFGHANISTAN REGIONAL OFFICE, 26/C CHINAR ROAD TEL. 43211
132 VOLUNTEERS IN TECHNICAL ASSISTANCE (VITA) MAIN OFFICE, 3-B/1 CIRCULAR LANE TEL. 43254/ 44510/ 42979
86 WORLD ASSEMBLY OF MUSLIM YOUTH, 77 D.B. PARK ROAD TEL. 41405/ 45428/ 42249
49 WORLD VISION, 4 REHMAN BABA ROAD TEL. 42431/ 43803

BEST AVAILABLE COPY

SCOPE OF WORK

Consultant: Mr. Aldelmo Ruiz

As a consultant to the VITA/Peshawar Office, Mr. Ruiz will be responsible for the following:

1. Examining project records and interviewing field personnel to gain an understanding of project history and development. Reviewing production records with reference to the first year Consolidated Annual Implementation Plan to understand which areas need revision.

2. Working with the field staff and headquarters staff in preparing the Implementation Plan for the second year. The writing of the plan will be done by the consultant with input from VITA staff and with review and approal by the Chief of Party.

3. Other such appropriate assignments as might be given by the Chief of Party.

APPENDIX 'P'

Agriculture Sector Support Project
Agriculture & Rural Rehabilitation

Volunteers in Technical Assistance

TO: Dr. Gary E. Lewis
Mission Agricultural Officer
O/AID/REP

FROM: M. M. A. Sediq
COP/VITA
ASSP/ARRP
Peshawar

DATE: 15 May 1990

SUBJECT: Consolidated Annual Implementation Plan (CAIP)

Enclosed for your approval are three (3) copies of the referenced CAIP for FY 1990/91, submitted in accordance with applicable provisions of Cooperative Agreement No. 306-0204-A-00-0767-00.

An earlier draft of this document was reviewed with you and Mr. Rude in your offices on 13 May. We have attempted to incorporate all of your comments, and sincerely hope that the document is satisfactory in all respects.

Thank you for your prompt review and for the contributions that you and your staff have made to this CAIP.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN--FY 1990/91

Cooperative Agreement No. 306-0204-A-00-0767-00

between

Office of the A.I.D. Representative to Afghanistan

and

Volunteers in Technical Assistance

for Implementation of the

Agriculture Sector Support Project

Agriculture & Rural Rehabilitation

May 15, 1990

Table of Contents

	Introduction	2
I.	Irrigation	6
II.	Roads and Bridges	11
III.	Engineering Services	16
IV.	ARS Planning	19
V.	Poppy Reduction	26
VI.	Training Plan	27
VII.	Monitoring Plan	35
VIII.	Afghan Entity Development	39

Appendices:

A. Implementation of Irrigation Subprojects--IR-2 Forms
B. Implementation of Road and Bridge Subprojects--RB-2 Forms
C. Sample Forms IR-1 and RB-1 and Instructions
D. Training Needs Assessment
E. Field Forms
   Subproject Monitoring
   Technical Inspections
F. Statement of Work for Feasibility Study

List of Tables:

1. FY 1990/91 Irrigation Subprojects
2. FY 1990/91 Road and Bridge Subprojects
3. Agriculture Rehabilitation Schemes--FY 1990/91
4. Detailed Training Plan
5. Local Training Costs
6. Overseas Training Costs

INTRODUCTION

The Cooperative Agreement between VITA and A.I.D. lists eight specific components that are to be addressed in the Consolidated Annual Implementation Plan (CAIP):

I. Irrigation
II. Roads and Bridges
III. Engineering Services
IV. ARS Planning
V. Poppy Reduction
VI. Training
VII. Monitoring
VIII. Afghan Entity Development

The work required under each of these components represents an ambitious undertaking. The Agriculture & Rural Rehabilitation (ARR) staff the VITA home office are committed to the project objectives and will organize the implementation, administration and support of the project to carry it out effectively in all of its aspects.

Critical to the success of the new effort is to strengthen the growing sense of teamwork between the field team and the home office as well as with A.I.D.

Field Office

The Chief-of-Party for the period of the Cooperative Agreement will be Engineer Mir Mohammad Sediq who has served in this position with distinction during the past year. His knowledge of rural public works in Afghanistan and of the skills of virtually everyone who has worked in that field is without equal. It is appropriate for an Afghan to lead this program, particularly someone with the capabilities and the record of Engineer Sediq.

It is important that the field staff be aware of the variety of services available from the VITA home office. The Chief-of-Party will visit Rosslyn once or twice annually, to be brought up-to-date on services the program could use effectively, as well as to maintain a program dialogue with the home office.

The Deputy Chief-of-Party will be Robert MacMakin who worked in Afghanistan for many years before the war. MacMakin is well-known to O/AID/REP, having served as a consultant to the ARR project during the final five months of the earlier contract. He is an experienced manager, with a long career in printing and publishing. His duties will be primarily administrative. He will also be responsible for the preparation of reports under the direction of the Chief-of-Party.

The remaining two key positions on the field staff have recently been recruited. Christopher Carney, the financial officer/accountant, arrived at post on April 23. Said Nasruddin Ansari, an Afghan American citizen, has accepted the post of design engineer and will arrive at post at the end of June 1990.

Home-Office Support

The assignment of home-office support responsibilities, communications and project visits will all be important. VITA's President, Henry Norman, will be the senior support person in the home office and will devote up to 20 percent of his time to the project. Norman will make at least two visits per year to the project, to coincide with the preparation of implementation plans. Additional visits will be made as required. This will provide him with a first-hand review of project performance of the previous six months and permit necessary decisions to be made in a timely manner.

VITA's Comptroller, Dale Coleman, will also devote up to 20 percent of his time to the project. Coleman has extensive experience as an A.I.D. auditor and more recently as Comptroller of the TransCentury Corporation, a Washington-based Non-Governmental Organization. He is familiar with A.I.D. requirements and NGO operations and will ensure that misunderstandings such as those that occurred in the earlier contract will not be repeated. Coleman will also visit the project frequently.

The home-office backstop for the recently posted field financial officer (Carney) will be Amy Saxton, who spent several weeks in Peshawar last year. At a time determined to be appropriate by the Chief-of-Party, Saxton will visit Peshawar for a period of two to four weeks to work with Carney to ensure that all accounts and procedures in the field office and the home office are in conformity. Saxton will devote up to 20 percent of her time to such support.

Home-office Program Officer Mohammad Shah will continue in this position, devoting up to 50 percent of his time to it. A half-time secretary will be employed to assist Shah. A program of this size and importance will inevitably generate a large amount of correspondence including letters, faxes, telexes, reports, travel arrangements, etc.

Reporting Requirements

The number of reports required by the Cooperative Agreement and the frequency of interaction between the Agricultural Officer and the field team can be a positive means of furthering the teamwork mentioned above. The reports will be designed to show progress made toward implementation of this plan and to highlight problems encountered and proposed solutions. The reporting function has been assigned to the Deputy Chief-of-Party. The home-office support described above has been designed to assist in the preparation of these reports and assuring their accuracy and timeliness.

In addition to the potential delays the reporting requirements may entail, the limitation of cash advances to one month could also cause problems. Everyone is familiar with the difficulty of carrying out a cross-border project in which responsible staff are prohibited from crossing the border themselves. VITA will closely monitor the flow of project funds to ensure their timely availability where needed. Recommendations will be made to correct any difficulties that arise in this regard.

Changing Program Environment

The Cooperative Agreement between VITA and A.I.D., effective March 15, 1990, follows an A.I.D. grant to VITA in 1986 and a three-year contract between them signed in 1987. The three arrangements between the parties reflect the changing conditions under which the program has been implemented. The grant provided maximum flexibility and encouraged innovation and experimentation. The contract incorporated the most successful of these, yet recognized the difficult conditions under which they were being carried out. The Program Description stated:

> The project should follow a strategy of "dispersed infusion" of resources, so that no one area inside Afghanistan will benefit visibly, and thus become a possible target for Soviet reprisal.

The environment within Afghanistan has changed significantly in the past four years. Direct Soviet military participation in the war has ended and its troops have withdrawn. The Kabul regime has survived, yet remains hunkered down in urban strongholds. Most rural areas in Afghanistan are now controlled by forces opposed to the regime.

The Cooperative Agreement recognizes these changes and its stated objectives look to the future:

> "...assuring the ongoing rehabilitation of rural infrastructure facilities in Afghanistan; and assessing the feasibility of establishing an independent and sustainable Afghan rural works entity...develop and implement a plan to create such an independent entity to carry on this work after the expiration of this agreement."

Rehabilitation will no longer be limited to isolated projects dispersed so they are not apparent to an enemy determined to destroy them. Projects no longer need be an end in themselves, but may be treated as a means to the

larger end of development. Project activities may be concentrated so that, together, they can reach the critical mass that sparks spontaneous events that result in development. This chain reaction is difficult to start up and to sustain. It can only succeed where it is fully understood by the people involved, where it follows the popular will, and where it satisfies the people's perceived needs. This will require a major psychological adjustment by donors, implementors, and beneficiaries.

It is here that ARR success has been most significant and where it provides the firm foundation on which the Cooperative Agreement can build. The ARS structure has been nurtured over the past few years so that it is an effective mechanism for community involvement. It can identify and articulate the felt needs of the people and it can call on and organize important in-kind contributions from the people, which demonstrate commitment and reduce costs as well as provide the community with a sense of pride and ownership of project results.

If the refugees are to return to Afghanistan, they will need roads to travel and bridges to cross. When settled, they will need irrigation water to farm. The magnitude of the task can be measured by the fact that in 1989 the project received 13,584 requests for projects and was able to respond to only about five percent of these. Accordingly, in order to maximize the impact of our efforts, projects must be carefully chosen for their economic importance and beneficiaries must contribute some of the needed labor and materials.

I. IRRIGATION

Planned Subprojects

During Year-1 of the Cooperative Agreement, FY 1990/91, a total of 2,390 subprojects of the irrigation type is planned for 12 pre-existing ARSs. Included are 1,115 subprojects which have been carried over from last year (started under the previous contract) and 1,275 subprojects which are scheduled to be started and completed in the period May 1990 through March 1991. The breakdowns by subtype and ARS are shown in Table 1. In the four new ARSs, the number of subprojects to be implemented is presently unknown.

Forms IR-1 and IR-2

The IR-2 forms included in Appendix A, one for each ARS, summarize information about these subprojects. As required by the Cooperative Agreement, the CAIP provides data about subproject benefits, technical/logistical data and timelines for subproject implementation. This information will be useful in management of the project and will be used as a tool for keeping the Mission Agricultural Officer informed of progress.

The IR-2s are used for consolidating information taken from the Annual Irrigation Implementation Plan (AIIP). The AIIP is presented on IR-1 forms, which summarize information for individual subprojects. A sample copy of form IR-1, along with instructions for completing it, is included in Appendix C. The instructions indicate the precise nature of information to be provided in each block of the form.

The Planning Process--Timeline

The steps in the planning process and their anticipated timing are shown on the CAIP schedules "IRRIGATION--PLANNING OF SUBPROJECTS", which are included in this section.

As shown on the first schedule, many subprojects that are to be implemented during the first year of the Cooperative Agreement were planned during VITA's earlier contract. However, planning for subprojects in new ARSs in Kunduz, Herat, Farah and Bamyan has been scheduled for early in Year-1. Because of the need for planning, some subproject startups in these ARSs will be delayed until perhaps October, leaving little time before winter closure in some areas. Year-1 subprojects for the new ARSs will, therefore, be limited mainly to rehabilitation efforts not requiring topographic surveys and designs, namely, cleaning of karezes and juis and intake repairs.

Table 1

FY 1990/91 Irrigation Subprojects

Code No	ARS Location	Subtype Karez	Subtype Jui	Subtype Other	Total sub-projs	Est Cost (Rs)
01	Kabul	263	46		309	4,244,240
02	Kapisa *	10	2		12	1,331,190
03	Parwan	25	60	2	87	2,813,175
04	Wardak	213	67	242	522	4,168,335
05	Logar	198	30	6	234	2,184,419
06	Ghazni	333			333	4,186,156
07	Paktya	137	22	22	181	3,626,951
10	Kunar		80	15	95	2,868,543
12	Takhar		16	7	23	3,687,500
13	Baghlan		49		49	4,000,000
14	Kunduz **					500,000
20	Herat **					1,000,000
21	Farah **					1,750,000
24	Kandahar	206	104		310	4,125,000
28	Bamyan **					750,000
29	Paktika	235			235	3,453,571
Totals:		1,720	476	294	2,390	44,689,080

* New ARS. Subprojects have been or will be selected by ARS in Parwan.

** New ARS for which subprojects have not yet been selected.

Typically, planning for subprojects will be performed in the year prior to implementation. Thus, Year-2 subprojects will be planned during Year-1, as shown on the second of the two planning schedules.

Monitoring and Updating of Plans

Level-1 monitors, described elsewhere in this CAIP, will track the progress of individual subprojects as planned on Forms IR-1. Monthly, they will gather information from the ARS staff and from their own field visits, reporting the following items to the monitoring section in Peshawar (from where reports will be forwarded to the planning section):

- planned schedule changes as approved by the ARS Officer,
- actual starting and completion dates for each activity shown on Form IR-1, as reported by ARS staff,
- any changes in other data shown on Form IR-1, as observed during the monitors own visits to subprojects or as reported by ARS staff. The above data include general, beneficiary and technical/logistic information shown in the upper sections of the forms IR-1 and IR-2.

Management Information

In addition to the obvious benefits to be gained through having each ARS Officer prepare his own section of the Annual Irrigation Implementation Plan (Form IR-1), the AIIP will serve to make mid-level management at ARR headquarters aware of the needs of the ARSs for material resources on a subproject-by-subproject basis. These managers will also be made aware of progress that is occurring in the field, again, subproject-by-subproject.

The IR-2 form used for the Consolidated Annual Implementation Plan constitutes a concise method for keeping top project management (Chief-of-Party, VITA President and Mission Agricultural Officer) informed with regard to the following items, on an ARS-by-ARS basis:

- level of activity planned (overall length, funds budgeted, etc.),
- general magnitude of benefits,
- resources required to implement subprojects,
- timing of activities.

Moreover, progress toward project objectives can be readily observed as quarterly changes to these forms are posted.

It is expected that the above information will lead to more effective and timely managerial action.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **IRRIGATION**
PLANNING OF YEAR-1 SUBPROJECTS

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
Year-1 Subprojects in Currently Established ARSs									
1. Receive subproj requests.									Activity performed under earlier contract.
2. Perform feasibility studies.									Same
3. Compile list of prioritized subprojects. Obtain approval of shura/tanzeem/cmdr.									Same
4. Review subproject lists and prepare IR-1 forms.	■								At ARS Officer planing workshop--held in Apr 1990.
5. COP to allocate funds and notify each ARS of final subproject list.	■								
6. ARR/Peshawar to complete IR-2 forms.	■								
Year-1 Subprojects for New ARSs in Kunduz, Herat, Farah and Bamyan:									
1. New ARS offices opened, staffed and equipped.	▬								For more detail, see timeline for ARS MOBILIZATION.
2. ARS identifies tentative subprojects, working with local authorities.	▬								Some lists now exist. Obtain others locally.
3. Perform feasibility study for each subproject.	■	▬							Some feasibility studies have been done and are at ARR/Pshr.
4. ARS informed of funding allocation for Year-1.	■								
5. Compile list of prioritized subprojects. Obtain approval of shura/tanzeem/cmdr.		▬							
6. Complete IR-1 forms. Send with feasibility studies to ARR/Pshr for approval.		▬							
7. ARR/Peshawar to complete IR-2 forms.		■							

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **IRRIGATION**
PLANNING OF YEAR-2 SUBPROJECTS

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
Year-2 Subprojects in all ARSs:									
1. Receive requests for subprojects.	▬	▬							
2. Perform feasibility study for each subproject as request is received.	▬	▬	▬						
3. ARS informed of funding allocation for Year-2.			■						
4. Compile list of prioritized subprojects. Obtain approval of shura/tanzeem/cmdr.			■						
5. Review/finalize subproject lists in planning workshop at ARR/Peshawar. Complete IR-1 forms.			■						Two-week workshop for ARS Officers-sched to start 15 Nov 1990.
6. ARR/Peshawar to complete IR-2 forms.			■						

I. ROADS AND BRIDGES

Planned Subprojects

During Year-1 of the Cooperative Agreement, FY 1990/91, a total of 53 road and bridge subprojects is planned for 12 pre-existing ARSs. Included are 14 subprojects which have been carried over from last year (started under the previous contract) and 39 subprojects which are scheduled to be started and completed in the period May 1990 through March 1991. The breakdowns by subtype and ARS are shown in Table 2. In the four new ARSs, the number of subprojects to be implemented is presently unknown.

Forms RB-1 and RB-2

The RB-2 forms included in Appendix B, one for each ARS, summarize information about these subprojects. As required by the Cooperative Agreement, the CAIP provides data about subproject benefits, technical/logistical data and timelines for subproject implementation. This information will be useful in management of the project and will be used as a tool for keeping the Mission Agricultural Officer informed of progress.

The RB-2s are used for consolidating information taken from the Annual Roads and Bridges Implementation Plan (ARBIP). The ARBIP is presented on RB-1 forms, which summarize information for individual subprojects. A sample copy of Form RB-1, along with instructions for completing it, is included in Appendix C. The instructions indicate the precise nature of information to be provided in each block of the form.

The Planning Process--Timeline

The steps in the planning process and their anticipated timing are shown on the CAIP schedules "ROADS AND BRIDGES--PLANNING OF SUBPROJECTS", which are included in this section.

As shown on the first schedule, several subprojects that are to be implemented during the first year of the Cooperative Agreement were planned during VITA's earlier contract. However, planning for subprojects in new ARSs in Kunduz, Herat, Farah and Bamyan has been scheduled for early in Year-1. Because of the need for planning, some subproject startups in these ARSs will be delayed until perhaps October, leaving little time before winter closure in some areas. Year-1 subprojects for the new ARSs will, therefore, be limited mainly to rehabilitation efforts not requiring topographic surveys and designs, namely, simple short sections of road surfacing and limited repair work.

Table 2

FY 1990/91 Road and Bridge Subprojects

Code No	ARS Location	Subtype: Road	Subtype: Bridge	Subtype: Other	Total sub-projs	Est Cost (Rs)
01	Kabul	3			3	1,235,760
02	Kapisa *	2	3		5	3,491,667
03	Parwan	2	2		4	1,592,434
04	Wardak					
05	Logar	3	3		6	2,140,581
06	Ghazni					
07	Paktya	1		12	13	872,132
10	Kunar	3	2	1	6	3,899,026
12	Takhar	2			2	2,500,000
13	Baghlan	5	1		6	1,500,000
14	Kunduz **					
20	Herat **					
21	Farah **					250,000
24	Kandahar					
28	Bamyan **					750,000
29	Paktika	1	7		8	2,800,000
Totals:		22	18	13	53	21,031,600

* New ARS. Subprojects have been or will be selected by ARS in Parwan.

** New ARS for which subprojects have not yet been selected.

Typically, planning for subprojects will be performed in the year prior to implementation. Thus, Year-2 subprojects will be planned during Year-1, as shown on the second of the two planning schedules.

Monitoring and Updating of Plans

Level-1 monitors, described elsewhere in this CAIP, will track the progress of individual subprojects as planned on Form RB-1. Monthly, they will gather information from the ARS staff and from their own field visits, reporting the following items to the monitoring section in Peshawar (from where reports will be forwarded to the planning section):

- planned schedule changes as approved by the ARS Officer,
- actual starting and completion dates for each activity shown on Form RB-1, as reported by ARS staff,
- any changes in other data shown on Form RB-1, as observed during the monitors own visits to subprojects or as reported by ARS staff. The above data include general, beneficiary and technical/logistic information shown in the upper sections of the forms RB-1 and RB-2.

Management Information

In addition to the obvious benefits to be gained through having each ARS Officer prepare his own section of the Annual Roads and Bridges Implementation Plan (Form RB-1), the ARBIP will serve to make mid-level management at ARR headquarters aware of the needs of the ARSs for material resources on a subproject-by-subproject basis. These managers will also be made aware of progress that is occurring in the field, again, subproject-by-subproject.

The RB-2 form used for the Consolidated Annual Implementation Plan constitutes a concise method for keeping top project management (Chief-of-Party, VITA President and Mission Agricultural Officer) informed with regard to the following items, on an ARS-by-ARS basis:

- level of activity planned (overall length, funds budgeted, etc.),
- general magnitude of benefits,
- resources required to implement subprojects,
- timing of activities.

Moreover, progress toward project objectives can be readily observed as quarterly changes to these forms are posted.

It is expected that the above information will lead to more effective and timely managerial action.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **ROADS AND BRIDGES**
PLANNING OF YEAR-1 SUBPROJECTS

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
Year-1 Subprojects in Currently Established ARSs									
1. Receive subproj requests.									Activity performed under earlier contract.
2. Perform feasibility studies.									Same
3. Compile list of prioritized subprojects. Obtain approval of shura/tanzeem/cmdr.									Same
4. Review subproject lists and prepare RB-1 forms.	■								At ARS Officer planning workshop--held in Apr 1990.
5. COP to allocate funds and notify each ARS of final subproject list.	■								
6. ARR/Peshawar to complete RB-2 forms.	■								
Year-1 Subprojects for New ARSs in Kunduz, Herat, Farah and Bamyan:									
1. New ARS offices opened, staffed and equipped.	▬								For more detail, see timeline for ARS MOBILIZATION.
2. ARS identifies tentative subprojects, working with local authorities.	▬								Some lists now exist. Obtain others locally.
3. Perform feasibility study for each subproject.	■	▬							Some feasibility studies have been done and are at ARR/Pshr.
4. ARS informed of funding allocation for Year-1.	■								
5. Compile list of prioritized subprojects. Obtain approval of shura/tanzeem/cmdr.		▬							
6. Complete RB-1 forms. Send with feasibility studies to ARR/Pshr for approval.		▬							
7. ARR/Peshawar to complete RB-2 forms.		■							

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **ROADS AND BRIDGES**
PLANNING OF YEAR-2 SUBPROJECTS

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
Year-2 Subprojects in all ARSs:									
1. Receive requests for subprojects.	▬	▬							
2. Perform feasibility study for each subproject as request is received.	▬	▬	▬						
3. ARS informed of funding allocation for Year-2.			■						
4. Compile list of prioritized subprojects. Obtain approval of shura/tanzeem/cmdr.			■						
5. Review/finalize subproject lists in planning workshop at ARR/Peshawar. Complete RB-1 forms.			■						Two-week workshop for ARS Officers-scheduled to start 15 Nov 1990.
6. ARR/Peshawar to complete RB-2 forms.			■						

III. ENGINEERING SERVICES

Strategy

In carrying out its work in rural rehabilitation, the ARR staff may occasionally encounter a need for specialized or complex engineering services which exceed in-house capabilities. For example, design recommendations may, a some future time, be needed for facilities such as long-span bridges, large diversion structures, dams or power generation facilities. Also, general advisory services may be needed related to the ongoing rural works program, in areas such as system analysis and the development of design standards for relatively simple facilities. The Cooperative Agreement requires that VITA arrange for such services on an "as-needed" basis, and funds of up to $200,000 are provided in the current budget.

In order to meet this need, it is planned that VITA enter into a "work order-type" contract with a qualified U.S. engineering firm. The single firm selected for this subcontract must be willing to provide staff and facilities on short notice to carry out the following activities in support of repair and rehabilitation of physical infrastructure:

- temporay assignment of personnel to the ARR office in Peshwar, Pakistan,
- reconnaissance trips inside Afghanistan for assessments, evaluations and preparation of technical recommendations,
- preparation of design sketches, outline specifications and cost estimates for the guidance of ARR staff, who would complete the design work,
- supervision of design work to be undertaken by the ARR staff, temporary local staff or local engineering firms that would be subcontracted by VITA,
- execution of design work, using the firm's own in-house staff at its home or branch offices.

Design work referred to above may include the preparation of working drawings, specifications, cost estimates and other contract documents to be used in contracting with local or international construction firms.

Limited Competition

In order to ensure the availability of highly qualified professional engineers and engineering technicians at reasonable prices, several firms will be contacted. Each firm will be requested to complete a brief questionnaire concerning its experience and business volume. Firms selected to participate in the competition will be asked to submit the qualifications of key personnel in several engineering specialty areas and to quote daily billing rates, inclusive of overhead expenses and profit (but not including travel and related expenses). Technical proposals, as such, will not be requested. Bidders will be advised that selection will be made at the sole discretion of VITA and with the approval of O/AID/REP.

In order to ensure the participation of only highly qualified firms and to shorten the time needed for bid analysis and award, the competition will be limited to three to six firms. VITA will consider several criteria for pre-qualification of bidders, including such items as pre-war experience in Afghanistan. Firms might also be required to have ready access to highly qualified non-U.S. professional engineers who would be able, under present U.S. policy, to travel inside Afghanistan.

Safeguards

The pre-qualification criteria, as well as the names of firms to be invited to participate, will be submitted for O/AID/REP approval before the competition is started. In selecting the firm, items included in daily billing rates that are bid will be reviewed for reasonableness by VITA's controller, and the final rates to be included in the contract will be submitted to O/AID/REP for approval. VITA will employ good business judgement and practices throughout the process of selection and negotiation.

Timeline

Key activities needed to implement the engineering services arrangements described above are listed in the attached CAIP schedule ENGINEERING SERVICES. According to the schedule, the required services would become available in about October 1990.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **ENGINEERING SERVICES**

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Obtain O/AID/REP approval of this implementation plan.	■								
2. Prepare bidding documents:	▬								Work to be performed at VITA headquarters and in Peshawar.
a. Scope of work b. Sample contract c. Pre-qualifications criteria and questionnaire.									
3. Query firms with questionnaire, analyze responses and determine short list of bidders.		■							Query firms by telephone.
4. Obtain O/AID/REP approval of bidding documents and authorization to proceed with competition.		■							
5. Solicit bids.		■							From VITA headquarters.
6. Select best bid. Negotiate delivery order prices.		■							Same.
7. Submit draft contract with delivery order prices for O/AID/REP approval.		■							
8. Execute contract.		■							
9. Implement contract as appropriate:			▬	▬	▬	▬	▬	▬	
a. Identify req'd services.									
b. Prepare indiv scopes of work for consultants.									
c. Prepare delivery orders, obtain O/AID/REP approval.									
d. Mobilize consultants and provide field support.									
e. Utilize consultant designs/recommendations.									

IV. ARS PLANNING

Strategy

Under VITA's earlier ARR contract it was intended to operate an Agriculture Rehabilitation Scheme (ARS) in each of a limited number of liberated sub-districts. With the freeing of entire provinces during 1988 and 1989, it became possible for the ASSP to work in more areas with greater selectivity regarding subprojects to be implemented. In the interests of equity among the many liberated communities, either more ARSs are required or the present ARSs must serve larger areas. The latter option appears appropriate today, as available funding limits the number of ARSs to about 16, the present number.

The new strategy, beginning with the first year of the Cooperative Agreement (FY 90/91), will be to operate ARSs at the provincial level only, with one ARS per province where rural infrastructure activities are to be undertaken. This is in keeping with the pre-war practice of the Rural Development Department of the Prime Ministry, and is more likely to be in line with Afghanistan's future civil administration. The pattern of one ARS per province will therefore facilitate the smooth transfer of the rural works rehabilitation function to a future government. However, because some provincial capitals remain insecure, some of the ARSs will have to remain away from the capitals for the present.

The 16 ARSs are presently located in 12 provinces. During FY 90/91, four of these ARSs will be closed and new offices will be opened in four additional provinces. Others will be relocated to more favorable positions within the same provinces.

Selection Criteria

A partial list of ARS-selection criteria appears in the Cooperative Agreement. These criteria are repeated here for reference:

a. Productivity of the Area: The most agriculturally productive locations where refugees will be returning should receive priority. For example, emphasis should be given to those high production areas capable of producing surplus agricultural commodities for food-deficient areas.

b. Community Organizations: Only areas in which local organizations (e.g., shuras) exist, or are likely to become functional in the short term, will be eligible for ARSs. There will be close collaboration with the local community organizations for effective planning and implementation.

c. National Ethnic Balance: To the extent feasible, new ARSs should be placed in territories of all ethnic groups in Afghanistan.

d. Poppy Areas: ARS teams will not be located in areas where it is known that poppies are grown, unless the local community government (shuras and/or commanders), the Afghan Interim Government (AIG) or its successor, and A.I.D. actively seek assistance in reducing poppy production in these areas.

e. Local Participation: ARS teams will be placed only in those areas where the people have demonstrated a willingness to cooperate and to participate actively in rehabilitation services.

Four additional selection criteria are proposed as follows:

f. Security: Areas to be served by the proposed ARS must be under the control of friendly authorities. There must not have been frequent bombardment or heavy fighting in recent months. Local authorities must be able, with reasonable certainty, to assure the security of ARS personnel and equipment.

g. Accessibility: Areas to be served must be readily accessible by road. The ARS should be located only where it is possible and practical to drive from the ARS to most anticipated subprojects within one day and to either Peshawar or Quetta within three days.

h. Other Assistance: Because of funding limitations, a low priority for ARS establishment may be given to areas presently receiving substantial assistance in rural rehabilitation from other agencies, or where definite plans have been made for early assistance efforts by other agencies.

i. PSA Areas: High priority will be given to establishing ARSs in provinces where commercial sales activities under the O/AID/REP-supported Private Sector Agribusiness project are presently or expected to be at a high level.

Planned ARS Locations for FY 1990/91

Based on consideration of the above criteria, the following relocation of ARS offices will occur in FY 1990/91:

- The ARS at Saidabad, in Wardak, will be closed, leaving the allotted one-ARS-per-province at Chak. Personnel and equipment will be transferred to Bamyan where road rehabilitation is badly needed. Many requests for both road and irrigation subprojects have been received from this potentially rich agricultural area. Root crops, particularly potatoes and onions, grow well in many irrigated valleys. The desirability of establishing ethnic balance (criterion c. above) mandates early establishment of an ARS in this province, which is populated largely by Hazaras.

- Because the ARS in Helmand fails to meet several of the selection criteria (see table below), ASSP activities since the office was opened in early 1989 have been limited to a few seed/fertilizer shipments and a total of eight karez cleanings. Staff and equipment will be moved to the large southwestern province of Farah, where agricultural potential is exceptionally high. The soil is fertile and in most years groundwater recharge exceeds discharge. Irrigation is by both karez and surface canals. The road network has been essentially destroyed.

  A shura called the "Farah Reconstruction Council" has been formed, and its representatives have requested subprojects of ARR. They state that many former residents now in Iran are ready to return and that rural rehabilitation activities would entice them to do so.

- The two offices at Kunsaf and Dayak in Ghazni will be closed in favor of a more central Ghazni location at Qarabagh and a new ARS in Kapisa province. Several road and irrigation subprojects in Kapisa have been implemented by the ARS in Parwan. The needs in Kapisa have grown, and good community relations have been established. The new ARS should be able to get off to a fast start.

- In Logar, the ARS at Barak-i-Barak will be closed, leaving the allotted one-ARS-per-province at Charkh. Personnel and equipment will be transferred to a new ARS in Kunduz province. Kunduz is considered the "breadbasket" of Afghanistan, with more wheat and rice grown there than in any other province. The capital city is still occupied by the Kabul regime. The ARS will be in a nearby location, yet to be selected.

- Of the two ARSs presently in Kandahar, Maroof will be closed with personnel and equipment transferred to a new office in Herat province. Before the war, Herat had a relatively high population density and enjoyed the highest per capita income of any of Afghanistan's provinces. Good soil is present throughout much of the province, and its economy is agricultural-based. Prevalent crops included grapes, wheat and pistachio. Cattle raising was common, and cottage industries thrived in some places. Most refugees, many of whom are Tajik and/or Shiite, are in Iran, and some are now starting to return.

The locations of all ARS offices after the above relocations have been accomplished are shown on Figure 1.

Provincial Assessments

The following table shows all ARS locations for FY 90/91 and provides an assessment of the fulfillment of ARS selection criteria for present and proposed new ARSs as well as for provinces not yet having ARS offices. Because the assessments are for entire provinces, they must be recognized as general in nature. Many areas within provinces can be assessed differently with regard to individual criterion fulfillment.

172

Table 3

Agriculture Rehabilitation Schemes--FY 90/91

Code No	Province	ARS Location	Existing/ Proposed (E/Prop)	ARS Selection Criteria Fulfillment a	b	c	d	e	f	g	h	i
01	Kabul	Sarobi	E	P-	P+	P	P	P+	P	P+	P+	
02	Kapisa	Gulbahar	Prop	P-	P-	P	P	P+	P	P-	P+	
03	Parwan	Ghorband	E	P	P-	P	P	P	P-	P-	P+	
04	Wardak	Chak	E	P	P+	P	P	P+	P	P	P+	
05	Logar	Charkh	Prop	P	P+	P	P	P	P-	P	P-	
06	Ghazni	New Location	Prop	P	P+	P	P	P	P-	P	P-	
07	Paktya	Zormat	E	P-	P+	P+	P		P	P	P-	
08	Nangarhar			P+		P	N		N			
09	Laghman			P+		P			N	N		
10	Kunar	Asmar/C´sarai	E	P	P+	P	P-	P+	P	P+	P-	
11	Badakshan			N		P	N			N	N	
12	Takhar	Taleqan	E	P-	P+	P+	P	P	P	P-	P	
13	Baghlan	Dahna-i-Ghori	E	P+	P	P		P	P	P-	P	
14	Kunduz		Prop	P+	P	P	P	P	P	P-	P	
15	Samangan			P+		P						
16	Balkh			P+		P			N			
17	Jawzjan			P+		P			N			
18	Faryab			P		P						
19	Badghis			P-		P						
20	Herat		Prop	P+	P	P+	P	P	P	P-	P+	
21	Farah		Prop	P	P+	P+	P	P	P	P-		
22	Nimroz			N	N	N	N	N	N	N		
23	Helmand			P+	N	P	N	N	N	P-		
24	Kandahar	Panjwa	E	P+	P	P	P-	P-	P-	P	P-	
25	Zabul			N		P				P-	N	
26	Oruzgan			P+	N	P	N	N	N	N	N	
27	Ghor			N		P	P		N	N	N	
28	Bamyan		Prop	P-	P	P+	P	P	P	P-	P-	
29	Paktika	Wazakhwa	E	P-	P	P	P	P	P	P	P-	
30	Sare Pul			P-		P						

Notes:

P denotes a positive determination with respect to criteria fulfillment.
N " negative " " " " " "
P+ " an exceptional degree of criteria fulfillment.
P- " a marginal " " " "
No entry denotes that no determination has yet been made.

Afghanistan

Figure 1

Agriculture Rehabilitation Schemes (ARSs) in Afghanistan for FY 1990-91

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Staffing

A total of eight professional and five support staff will be assigned to all existing and proposed ARS offices:

Professional		Support	
ARS Officer	1	Equipment Operator	1
Deputy ARS Officer	1	Mechanic	1
Administrative Assistant	1	Warehouseman	1
Senior Technicians	2	Attendant	1
Junior Technicians	2	Watchman	1
Monitor	1		
Totals:	8		5

It may also become necessary to employ one or two equipment operators in some ARSs, in the event that high utilization is made of construction equipment now on order.

Timeline

Mobilization of new ARS offices will begin with approval of this implementation plan. Key mobilization steps leading to the implementation of subprojects are shown in the CAIP schedule "AGRICULTURE REHABILITATION SCHEMES--MOBILIZATION OF NEW OFFICES", which is included in this section. The schedule anticipates that all new offices will be functioning by the end of June 1990.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **AGRICULTURE REHABILITATION SCHEMES**
MOBILIZATION OF NEW OFFICES

Activity	May				June				Remarks
	Wk1	2	3	4	5	6	7	Wk8	
1. Select ARS Officer and staff to be relocated. Recruit new staff.									
Kapisa-Gulbahar	▬								
Ghazni-Qarabagh	▬								
Kunduz	▬	▬	▬						
Herat	▬	▬	▬						
Farah	▬	▬	▬						
Bamyan	▬								
2. Move ARS equipment, furnishings and personnel to new location. Open office.									
Kapisa-Gulbahar		▬							
Ghazni-Qarabagh		▬							
Kunduz				▬					
Herat				▬	▬				
Farah				▬	▬				
Bamyan		▬	▬	▬	▬				
3. Start FY 90/91 subproject planning (activity no. 2 on timeline for subproject planning).									
Kapisa-Gulbahar			■						
Ghazni-Qarabagh			■						
Kunduz					■				
Herat						■			
Farah						■			
Bamyan						■			

V. POPPY REDUCTION

The Mission Agriculture Officer and VITA agreed on 19 April 1990 that preparation of the implementation plan for poppy reduction should be delayed, pending further consideration of the poppy reduction program by O/AID/REP and A.I.D./Washington.

VITA will resume planning for the limited poppy reduction activities outlined in the Cooperative Agreement whenever instructed to do so by the Mission Agriculture Officer.

VI. TRAINING PLAN

Needs Assessment

The training needs assessment required by the Cooperative Agreement is included in Appendix D. The assessment includes a table summarizing the status of manning for personnel positions at headquarters and in the field, and provision for adding information concerning the status of training (by position), as that information becomes available. The table will be updated in future CAIP revisions, as FY 1990/91 and 1991/92 training proceeds.

Another table shows the preferences of staff members regarding their training, and this was considered in designing the FY 1990/91 training. Also, a personnel database showing the educational background, work experience and previous ARR training has been started, and it forms a part of the assessment.

Although useful in planning the training described below, several limitations are evident in the assessment:

- At the time the assessment was prepared (April-May 1990), only 56% of the authorized ARS staff positions and 79% of the headquarters staff positions were manned. It was not possible to assess the backgrounds of many who will be hired in the near future.

- Many staff members are inside Afghanistan most of the time, where it is not possible to interview them.

- To date, only limited instruments are available for measuring job-related skills or abilities of the ARR staff. In the future, this can be done as a part of the training that is to be conducted in several areas, with the results feeding into future training programs.

- It is difficult to assess the qualifications of Afghans at this particular time because of disruptive changes that occurred in educational and training programs after 1978 and because many Afghans have lost (or claim to have lost) diplomas and certificates.

Design of the training program, therefore, had to rely heavily on informal assessment by ARR top managers of the performance level of personnel, based on the experience gained in supervising them during the earlier VITA contract.

This assessment made it very clear that more managerial, administrative and technician training was needed. Also apparent was the need for training in maintenance and operation of equipment that is presently being procured.

Details of Training Plan

The ARR training plan for FY 1990/91 is detailed in Table 4 below, where a total of nine staff-training courses are described. All courses will be conducted at ARR headquarters in Peshawar. The courses represent minimum training needed to meet the objectives of the Cooperative Agreement.

Teaching staff will include senior and expatriate staff, supplemented by engineers and other local personnel recruited from the PVO community in Peshawar. Several of these individuals have proven very capable in earlier ARR training courses. One expatriate consultant will serve as the instructor for the senior management course and an expatriate will be recruited locally for the English language portion of the administrative training.

In addition, outside training organizations will be identified that are capable of conducting this and future training, should a need arise. These organizations may include US, Pakistan and third country institutions, including universities.

In addition to locally presented courses, it is planned that a total of four staff members be sent to three short courses in the United States. These courses are also described in Table 4.

Training Costs

Costs for the above courses are shown with complete calculations in Tables 5 and 6 below.

Table 4. Detailed Training Plan

Course Name	Course Coverage	Duration	Starting Date	Trainees		Remarks
				Positions	No.	
Equipment Operations	1. Operation of tractors, backhoes and front-end loaders	4 wks	1 Sep 90	ARS equipment operators	24	Starting date to be confirmed. Depends on arrival of equipment. Training may be conducted in Lahore by equipment vendor.
Operation and Maintenance of Machinery	1. O&M of tractors backhoes, loaders, compaction rollers, conc mixers, plate compactors, vibrators, poinjar drills, shotcrete equipment 2. Assembly of formwork, scaffolding & concr reinf bars	4 wks	1 Sep 90	ARS mechanics	16	Starting date to be confirmed. Depends on arrival of equipment. Training may be conducted in Lahore by equipment vendor.
Senior Management Training	1. To be established by trainees in early training sessions	4 wks	1 Jun 90	Senior ARR local staff AIG Ministries of Ag & Recon	14 6	To be conducted by H. Opper of USDA. To arrive in country 2 wks prior and depart 1 wk after training.
Field Monitoring	1. Monitoring procedures. 2. Collection of monitoring data. Use of new forms 3. Updating of Implementation Plans. Use of new forms	2 wks	1 Jun 90	ARS monitors Other ARR staff	16 4	Trainers to include senior staff and local consultants.

Table 4. Detailed Training Plan (Continued)

Course Name	Course Coverage	Duration	Starting Date	Trainees		Remarks
				Positions	No.	
Planning Workshop for ARS Officers	1. Planning of subprojects. 2. Use of Implementation Plan forms 3. ARS management techniques	2 wks	23 Apr 90 15 Nov 90	ARS Officers Other ARR staff	16 4	
Technician Training	1. Route surveying 2. Basic drafting 3. Cost estimation 4. Construction inspection	10 wks	23 Dec 90	Sr and Jr technicians--all ARSs	64	Trainers to include ARR and IRC engineering staff. Substitute staff may be req'd in southern ARSs where subproj construction active in winter months.
Engineering Refresher	1. Planning 2. Route surveying and design of road and irrigation projects 3. Cost estimation 4. Computer applications	4 wks	23 Nov 90	Sr and Jr engineers on ARR hq staff	12	Trainers to include IRC engineering staff.
ARS Administrative Training	1. Bookkeeping, introductory accounting, inventory control 2. Filing systems	2 wks	15 Sep 90	ARS admin assts	16	Trainers will include senior and expatriate staff.

Table 4. Detailed Training Plan (Continued)

Course Name	Course Coverage	Duration	Starting Date	Trainees		Remarks
				Positions	No.	
General Administrative Training	1. English language 2. Bookkeeping, introductory accounting, inventory control 3. Filing systems 4. Computer applications	10 wks	20 Jun 90	ARR hq staff	24	Training for one hour per working day over 10 wk period. Trainers to include local-hire US spouse, expatriate staff and staff of other agencies.
Overseas Workshops	1. Small-scale irrig and water mngt	4 wks	16 Jul 90	Sr engineers	2	University of Arizona
	2. Training of trainers for agri & rural dev	6 wks	6 Aug 90	Sr trng staff	1	USDA-Washington, DC
	3. Designing and managing integrated agri and rural dev projs	6 wks	7 Sep 90	Sr staff	1	USDA-Washington, DC

Table 5. Local Training Costs

Training Course	Partic-ipants	Weeks	Participants Perdiem+Trvl Rs 2,500/ partcpt/wk	Training Materials Rs 275/ partcpt/wk	Local Transport Rs 2,000/ wk	Local Instructors Rs 20,000/ wk	Expatriate Consultant $380/dy (incl pd)	English Instructor Rs 1,000/ contact hr	Certifcts & Misc Rs 5,500/ course	Totals (RS)	Remarks
Equipment Operations	24	4	240,000	26,400	8,000	80,000			5,500	359,900	May be reduced if trng by equipment vendor.
Operation & Maint of Machinery	16	4	160,000	17,600	8,000	80,000			5,500	271,100	Same.
Senior Management Training	20	4		22,000	8,000	80,000	300,960		5,500	416,460	Consultant for 6 wks.
Field Monitoring	20	2	100,000	11,000	4,000	40,000			5,500	160,500	
Planning Workshop for ARS Officers	20	2	100,000	11,000	4,000	40,000			5,500	160,500	
Technician Training	64	10	1,600,000	176,000	20,000	200,000			5,500	2,001,500	
Engineering Re-fresher Training	12	4		13,200	8,000	80,000			5,500	106,700	
ARS Administra-tive Training	16	2	80,000	8,800	4,000	40,000			5,500	138,300	
General Adminis-trative Training	24	3		19,800	6,000			50,000	5,500	81,300	Actual duration 10 wks. Meets one hr per day.
Totals:	216		2,280,000	305,800	70,000	640,000	300,960	50,000	49,500	3,696,260 $ 171,900	

Table 6. Overseas Training Costs

Training Course	Partic-ipants	Weeks	Internatnl Travel	Training Fee	Maintenance Allowance	Insurance	Orientation	Professnl Membership	PP, Visa Med, etc	Totals ($)	Remarks
Small Scale Irri-gation & Wtr Mngt	2	4	6,000	6,008	3,914	136	650	400	400	17,508	University of Arizona
Trng of Trainers for Ag & Rur Dev	1	6	2,500	4,494	3,138	68	325	200	200	10,925	USDA--Washington, DC
Des & Mngt of Int-grtd Ag & RD Projs	1	6	2,500	4,767	3,138	68	325	200	200	11,198	USDA--Washington, DC
										0	
										0	
										0	
										0	
										0	
										0	
Totals:	4		11,000	15,269	10,190	272	1,300	800		39,631	

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **TRAINING**

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Local training courses:									
a. Equipment Operations		■							
b. Operation and Maintenance of Machinery		■							
c. Senior Management	■								
d. Field Monitoring	■								
e. Planning Workshop for ARS Officers	▬		■						
f. Technician Training			■	▬					
g. Engineering Refresher			▬						
h. ARS Administration		■							
i. General Administrative Training	■	▬							
2. Overseas Workshops									
a. Small Scale Irrigation and Water Management		▬							
b. Training of Trainers for Agriculture and Rural Development		▬							
c. Designing and Managing Integrated Agriculture and Rural Devel Projects		■	■						

VII. MONITORING PLAN--FY 1990/91

Strategy

The monitoring system has been designed to provide feedback to ARS and Peshawar managers in order to improve the benefits accruing from subprojects and to enhance technical quality. All subprojects are to be seen by monitors who are continuously posted in the field, and a portion of the subprojects will be visited by travelling covert monitors. In addition, the technical quality of a portion of subprojects will be examined by Peshawar-based technical staff.

Level-1 Monitoring

Beginning with the first year of the Cooperative Agreement, one full-time monitor will be included on the staff of each ARS. Reporting directly to the chief of the monitoring section in Peshawar (rather than to the ARS Officer), Level-1 monitors will have the following responsibilities:

- to conduct periodic quality-control inspections of all ASSP subprojects that are implemented by ARSs. For each subproject, an inspection will be scheduled to occur at least once prior to 50 percent completion of construction activities, with one additional inspection at the time of subproject completion. The Subproject Inspection Form (Appendix E), which addresses mainly technical/quality issues, will be completed for each inspection and submitted to the monitoring section in Peshawar. A copy will be provided to the ARS Officer, in order that any construction deficiencies that are noted can be corrected;

- to perform, during one of the two above visits to each subproject, a more extensive examination, employing the Subproject Monitoring Form which is included in Appendix E. The form reports on a number of non-technical issues, including overall impact of the subproject, community participation, ownership of subproject facilities, and payment of workers. The completed form will be submitted to the chief of the monitoring section in Peshawar;

- to monitor the overall progress of subproject implementation within ARSs. Level-1 monitors will track the progress of individual subprojects as planned on forms IR-1 (Annual Irrigation Implementation Plan) and RB-1 (Annual Roads and Bridges Implementation Plan). Monthly,

they will gather information from the ARS staff and from their own field visits, reporting the following items to the monitoring section in Peshawar (from where reports will be forwarded to the planning section):

- planned schedule changes as approved by the ARS Officer,

- actual starting and completion dates for each activity shown on forms IR-1 and RB-1, as reported by ARS staff,

- any changes in other data shown on forms IR-1 and RB-1, as observed during the monitors' own visits to subprojects or as reported by ARS staff. The above data includes general, beneficiary and technical/logistic information shown in the upper sections of the two forms.

Level-2 Monitoring

As a spot check on the performance of level-1 monitors, an additional 13 monitors who are unknown to ARS staff will casually visit up to 30 percent of all subproject sites. Operating from Peshawar, these monitors will report to the chief of the monitoring section (and the Chief-of-Party, whenever considered appropriate) with the same monitoring forms that are described above.

Nearby ARSs in Logar and the border provinces of Kunar, Paktya, Paktika and Kandahar will be scheduled for monthly visits. Those in Ghazni and Wardak will be visited approximately bimonthly and the more distant ARSs in the north will be scheduled for quarterly visits, except during winter months. Assignments will be alternated among the provinces to insure that the monitors do not become known to ARS staff.

Level-3 Monitoring

Technical inspections to be carried out by the Peshawar-based staff will be randomly scheduled for up to 25 percent of the FY 90/91 subprojects. Groups of three persons (an engineer, senior technician and junior technician) will conduct the inspections using the attached Subproject Inspection Form. The inspections will be carried out continuously, with specific timing dependent on weather and staff workload. At least one visit by a three-person technical team will be made to a portion of the subprojects in each ARS during the year.

Immediate feedback on the results of these inspections will be given to ARS staff and field monitors. When possible, any deficiencies noted will be corrected immediately. The information obtained will also be used to improve training courses.

Supervision of Monitoring

The monitoring section in Peshawar will supervise level-1 and level-2 monitors, and will receive and process their reports. Appropriate information will be passed to technical sections, the planning section, and in sensitive

cases to the Chief-of-Party. Data will be analyzed and included in quarterly reports to O/AID/REP.

Timeline

Monitoring activities occurring throughout the year are shown in the CAIP schedule "MONITORING", included at the end of this section.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **MONITORING**

Activity	FY 0		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Level-1 monitoring. One full-time monitor continuously present at each ARS.	▬	▬	▬	▬					
a. periodic quality control inspections.									
b. one in-depth monitoring inspection of each subproject.									
c. monitoring of overall progress of ARS.									
2. Level-2 monitoring. Spot checks on Level-1 monitors for up to 30% of subprojs.									
a. Monthly visits to Logar, Kunar, Paktya, Paktika and Kandahar.	▪	▬	▬	▬					
b. Bimonthly visits to Ghazni and Wardak.		▪ ▪	▪	▪ ▪					
c. Quarterly visits to all other provinces except northern provinces during winter months.		▬	▬	▬					
d. Quarterly visits to Farah, except monthly during winter.		▪	▬	▬					
3. Level-3 monitoring. Technical inspections by ARR/Psh staff for a portion of subprojects in all ARSs. Up to 25% of all subprojects visited.	▪	▬	▬	▬					

VIII. AFGHAN ENTITY DEVELOPMENT

Strategy

One of the objectives of the Cooperative Agreement is to examine the possibility of establishing an independent, sustainable, Afghan-managed rural works entity that would continue the work of the ARR project in Afghanistan, thus playing a significant role in the long-term reconstruction and development efforts that will be required.

In the ARR project, O/AID/REP and VITA have established an ongoing program, led and staffed by Afghans, with the potential to evolve into an Afghan entity capable of broadening its funding base and expanding its impact on rural infrastructure over the longer term.

In accordance with terms of the Cooperative Agreement, VITA will engage a subcontractor who will conduct an assessment of the feasibility of establishing the ARR organization as the entity described above.

Statement of Work for Subcontract

The subcontractor will be responsible for providing personnel to conduct the feasibility study in Pakistan, and, if possible, inside Afghanistan. Up to six person-months of field consultancy will be provided for the study during the months of July and August 1990. A complete Statement of Work to be performed by the subcontractor is included in Appendix F.

The study will address several issues relating to the feasibility of the new entity and will incorporate recommendations designed to assist with its early establishment. The study will also include a projection of entity financial requirements for the three-year period after termination of funding for the present A.I.D./VITA Cooperative Agreement.

Timeline

The Cooperative Agreement includes a schedule of major benchmarks in planning for the establishment of the Afghan entity. The times allowed in the Agreement, in terms of days or months after the effective date of the Agreement, are considered somewhat optimistic. The due dates have been extended in the CAIP schedule included at the end of this section. A comparison follows. The effective date of the Cooperative Agreement is 15 March 1990.

	Time allowed by		Due date per	
Benchmark	Agreement	CAIP Sched	Agreement	CAIP Sched
1. Statement of Work for feasibility study	45 days	60 days	1 May 90	15 May 90
2. Feasibility study	4 mo	6-1/2 mo	15 Jul 90	30 Sep 90
3. Implementation plan for Afghan entity (based on feasibility study with positive determination as to feasibility)	6 mo	7-1/2 mo	15 Aug 90	31 Oct 90

As shown in the table, although the feasibility study will be completed two and one-half months later than originally planned, the implementation plan for the entity will be only one and one-half months late. One month should be enough time for the implementation plan (rather than the originally planned two months), as it should readily flow from the feasibility study if the latter document is well done. The feasibility study is a critical step that requirs ample time.

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
PROGRAM COMPONENT: **AFGHAN ENTITY DEVELOPMENT**

Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Obtain O/AID/REP approval of statement of work for feasibility subcontract.	■								
2. Send statement of work to several firms and call to determine their interest. Determine qualifications of available consultants and billing rates.	■								Activity performed at VITA headquarters.
3. Select subcontractor.	■								
4. Prepare subcontract, identifying consultants to perform the work. Sign subcontract, subject to O/AID/REP approval.	■								
5. Obtain O/AID/REP approval of subcontract and consultant resumes/biodata shts.	■								
6. Mobilize and support consultants. Perform feasibility study.		■							
7. Consultants publish draft report in Peshawar.		■							Proposed submission date 31 Aug 90.
8. VITA and O/AID/REP review/comment on draft report. Subcontractor publishes final rpt at home office.		■							Proposed submission date 30 Sep 90.
9. If feasibility assessment positive, develop implementation plan detailing steps needed for establishment and operation of Afghan entity.			■						Proposed submission date 31 Oct 90.

APPENDIX A

Implementation of Irrigation Subprojects

IR-2 Forms

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 01 KABUL

IR-2

Page 1 of 16

Total subprojs:	Previous yr	Current yr
Karez	175	88
Jui	38	8
Other		
Total	213	96

Program description:
Previous yr: CLEANING OF JUI KAREZ
Current yr: " " " " RETAINING STR.

Tot ARS irrig length: 478 km

Tot ARS major irrigation structures: — ea

Total ARS irrigation budget:
In cash: Rs. 4,244,240
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 4,244240

ARS S/E BENEFITS DATA

Tot farm families served: 48336
Workers employed: 1819

Crops planned: WHEAT GRAPES, CORN
Total jeribs served:

Total employment:
Skilled: — md
Unskilled: 152896 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: N/A

Materials: LOCAL MATERIAL GABIONS

Equipment: TRACTOR, VEHICLE

Tools: DRILL 6 ST. SETS

ARS TIMELINE Activity	FY 90 AMJ	FY 90 JAS	FY 91 OND	FY 91 JFM	FY 91 AMJ	FY 91 JAS	FY 92 OND	FY 92 JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	XX	XX							
2. Survey, design and preconstruction reports of current year subprojects:	X	XX							
3. Mobilization and construction of subprojects:	XXX	XX							
a. Previous year subprojs.		X	XXX	XXX					
b. Current year subprojs.									

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 02 KAPISA

IR-2

Total subprojs:	Previous yr	Current yr
Karez	—	10
Jui	—	2
Other	—	—
Total	—	12

Program description:
Previous yr:
Current yr: REHABILITATION OF BOTH ACTIVITIES

Tot ARS irrig length: 45.5 km

Tot ARS major irrigation structures: 4 ea

Total ARS irrigation budget:
In cash: Rs. 1,331,190
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 1,331,190

ARS S/E BENEFITS DATA

Tot farm families served: 4840
Workers employed:

Crops planned: WHEAT RICE
Total jeribs served:

Total employment:
Skilled: 697 md
Unskilled: 31691 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: YES FOR INTAKES
Materials:

Equipment: —
Tools: —

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and preconstruction reports of current year subprojects:		xx							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.		xx	xxx	xxx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 03 PARWAN

IR-2

Page 3 of 16

Total subprojs:	Previous yr	Current yr
Karez	20	5
Jui	–	60
Other	–	2
Total	20	67

Program description:
Previous yr: KAREZ CLEANING
Current yr: " " & JUI
CONS. OF 2 STRUCTURES

Tot ARS irrig length: 313.1 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 2813,175
In Food-for-Work: Rs. –
In fertilizer: Rs. –
Total: Rs. 2813,175

ARS S/E BENEFITS DATA

Tot farm families served: 44320
Workers employed: 1865

Crops planned: WHEAT, GRAPES, ALMONDS
Total jeribs served: 201140

Total employment:
Skilled: 2654 md
Unskilled: 71807 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: –

Materials: –

Equipment:

Tools: 2 SETS OF STADARD

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and pre-construction reports of current year subprojects:	XX								
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	X							
b. Current year subprojs.	X	XXX	XXX	X					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 04 WARDAK

IR-2

Page 4 of 16

Total subprojs:	Previous yr	Current yr
Karez	156	57
Jui	=	67
Other		242
Total	156	366

Program description:
Previous yr: KAREZ CLEANING
Current yr: " " + REHAB. OF DIVERSIONS & JUI

Tot ARS irrig length: 404 km

Tot ARS major irrigation structures: 2 ea

Total ARS irrigation budget:
In cash: Rs. 4,168,335
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 4,168335

ARS S/E BENEFITS DATA

Tot farm families served: 93679
Workers employed: 139

Crops planned: WHEAT APPLES
Total jeribs served: 129929

Total employment:
Skilled: 11434 md
Unskilled: 34302 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: N/A
Materials: CEMENT, GABIONS
Equipment: TRACTORS, VEHICLE
Tools: —

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and pre-construction reports of current year subprojects:	XX								
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XXX							
b. Current year subprojs.		XX	XXX	XX					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 05 LOGAR

IR-2

Page 5 of 16

Total subprojs:	Previous yr	Current yr
Karez	198	-
Jui		
Other	-	36
Total	198	36

Program description:
Previous yr: KARES CLEANING
Current yr: JUI CLEANING
INTAKE CONSTRUCTION

Tot ARS irrig length: 178 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 2184,419
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,184,419

ARS S/R BENEFITS DATA

Tot farm families served: 16780
Workers employed: 1276

Crops planned: WHEAT, CORN POTATOES

Total jeribs served: 105410

Total employment:
Skilled: 12484 md
Unskilled: 52638 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials: CEMENT

Equipment:

Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and pre-construction reports of current year subprojects:	X								
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XXX							
b. Current year subprojs.		X	XXX	XXX					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 06 GHAZNI

IR-2

Page 6 of 16

Total subprojs:	Previous yr	Current yr
Karez	272	61
Jui	—	—
Other		
Total	272	61

Program description:
Previous yr: KAREZ CLEANING
Current yr: " "

Tot ARS irrig length: 649.2 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 4186,156
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 4186,156

ARS S/E BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned: WHEAT

Total jeribs served:

Total employment:
Skilled: md
Unskilled: md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									DONE
2. Survey, design and pre-construction reports of current year subprojects:									"
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	xxx	xxx							
b. Current year subprojs.		x	xxx	xxx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 07 PAKTYA

IR-2

Page 7 of 16

Total subprojs:	Previous yr	Current yr
Karez	50	87
Jui	—	22
Other		22
Total	50	131

Program description:
Previous yr: KARIZ CLEANING
Current yr: KARIZ " + CANAL " CONSTRUCTION OF STRUCT.

Tot ARS irrig length: 266.3 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 3,626,951
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 3,626,951

ARS S/E BENEFITS DATA

Tot farm families served: 16191
Workers employed: 1323

Crops planned: WHEAT, CORN HORTICULTURE
Total jeribs served: 48980

Total employment:
Skilled: 1155 md
Unskilled: 121831 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: —
Materials: —
Equipment: —
Tools: —

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:	x								
3. Mobilization and construction of subprojects:	-								
a. Previous year subprojs.	xxx								
b. Current year subprojs.	x	xxx	xxx	x					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 10 KUNAR

IR-2

Page 8 of 16

Total subprojs:	Previous yr	Current yr
Karez	—	—
Jui	20	60
Other		15
Total	20	75

Program description:
Previous yr: JUI REHABILITATION
Current yr: CONS + " " OF JUI DIVERSION STRUCTURES

Tot ARS irrig length: 117.5 km

Tot ARS major irrigation structures: 5 ea

Total ARS irrigation budget:
In cash: Rs. 2,868,543
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,868,543

ARS S/E BENEFITS DATA

Tot farm families served: 8950
Workers employed: 1127

Crops planned: HORTICUL. WHEAT, CORN, RICE
Total jeribs served: 13390

Total employment:
Skilled: 7438 md
Unskilled: 23743 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Materials: GABIONS, POLETHLYNE

Equipment: —

Tools: —

ARS TIMELINE Activity	FY 90 AMJ	FY 90 JAS	FY 91 OND	FY 91 JFM	FY 91 AMJ	FY 91 JAS	FY 92 OND	FY 92 JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									DONE
2. Survey, design and preconstruction reports of current year subprojects:		XX							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XXX	XXX						
b. Current year subprojs.			XX	XXX					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 12 TAKHAR

IR-2

Total subprojs:	Previous yr	Current yr
Karez	—	—
Jui	3	13
Other	1	6
Total	4	19

Program description:
Previous yr: JUI CLEANING
CONS. OF FLUMES
Current yr: " " "

Tot ARS irrig length: 30 km

Tot ARS major irrigation structures: 6 ea

Total ARS irrigation budget:
In cash: Rs. 3,687,500
In Food-for-Work: Rs. —
In fertilizer: Rs. —
Total: Rs. 3,687,500

ARS S/E BENEFITS DATA

Tot farm families served: 7500
Workers employed: 550

Crops planned: WHEAT
CORN

Total jeribs served: 14900

Total employment:
Skilled: 1030 md
Unskilled: 61000 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:

Equipment: TRUCKS

Materials: CEMENT, GRAVEL, STEEL

Tools: 5 STD. UNITS

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and preconstruction reports of current year subprojects:	XX	XX							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XXX	XXX	X					
b. Current year subprojs.			XX	XXX					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 13 BAGHLAN

IR-2

Total subprojs:	Previous yr	Current yr
Karez	–	–
Jui	33	16
Other	–	–
Total	33	16

Program description:
Previous yr: CLEANING OF JUI.
Current yr:

Tot ARS irrig length: 151 km

Tot ARS major irrigation structures: – ea

Total ARS irrigation budget:
In cash: Rs. 4,000,000
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 4,000,000

ARS S/E BENEFITS DATA

Tot farm families served:
Workers employed:

Crops planned: RICE WHEAT, CORN

Total jeribs served: 170,000

Total employment:
Skilled: – md
Unskilled: 75000 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: –

Materials: –

Equipment: –

Tools: –

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									DONE
2. Survey, design and preconstruction reports of current year subprojects:									DONE
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XX							
b. Current year subprojs.		X	XXX	X					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 14 KUNDUZ

IR-2

Page 11 of 16

Total subprojs:	Previous yr	Current yr
Karez	—	
Jui	—	
Other		
Total	—	

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km	Total ARS irrigation budget:	In cash:	Rs. + 500,000
		In Food-for-Work:	Rs.
Tot ARS major irrigation structures: ea		In fertilizer:	Rs.
		Total:	Rs. + 500,000

ARS S/E BENEFITS DATA	Crops planned:	Total employment:
Tot farm families served:		Skilled: md
Workers employed:	Total jeribs served:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and preconstruction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 20 HERAT

IR-2

Page 12 of 16

Total subprojs:	Previous yr	Current yr
Karez	—	
Jui	—	
Other		
Total		

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km	Total ARS irrigation budget:	In cash:	Rs. 1,000,000
		In Food-for-Work:	Rs.
Tot ARS major irrigation structures: ea		In fertilizer:	Rs.
		Total:	Rs. 1000,000

ARS S/E BENEFITS DATA	Crops planned:	Total employment:
Tot farm families served:		Skilled: md
Workers employed:	Total jeribs served:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and preconstruction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 21 FARAH

IR-2

Page 13 of 16

Total subprojs:	Previous yr	Current yr
Karez	1	
Jui	1	
Other		
Total		

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km	Total ARS irrigation budget:	In cash:	Rs. 1,750,000
		In Food-for-Work:	Rs.
Tot ARS major irrigation structures: ea		In fertilizer:	Rs.
		Total:	Rs. 1,750,000

ARS S/E BENEFITS DATA	Crops planned:	Total employment:
Tot farm families served:		Skilled: md
Workers employed:	Total jeribs served:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and preconstruction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 24 Kandahar

IR-2

Total subprojs:	Previous yr	Current yr
Karez	67	139
Jui	39	65
Other		
Total	106	204

Program description:
Previous yr: Karez and jui cleaning.
Current yr: " " " "

Tot ARS irrig length: 340 km

Tot ARS major irrigation structures: ea

Total ARS irrigation budget:
In cash: Rs. 4,125,000
In Food-for-Work: Rs. —
In fertilizer: Rs. —
Total: Rs. 4,125,000

ARS S/E BENEFITS DATA

Tot farm families served: 26,390
Workers employed: 1,116

Crops planned: Wheat, grapes

Total jeribs served: 109,828

Total employment:
Skilled: 7,900 md
Unskilled: 92,546 md

ARS TECH/LOGISTIC REQMTS Description and when needed

Survey/design assistance:

Materials:

Equipment:

Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	**								
2. Survey, design and pre-construction reports of current year subprojects:									No design required.
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	***	***	***						
b. Current year subprojs.			***	***					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 28 BAMYAN

IR-2

Page 15 of 16

Total subprojs:	Previous yr	Current yr
Karez		
Jui		
Other		
Total		

Program description:
Previous yr:

Current yr:

Tot ARS irrig length: km	Total ARS irrigation budget:	In cash:	Rs. 750,000
		In Food-for-Work:	Rs.
Tot ARS major irrigation structures: ea		In fertilizer:	Rs.
		Total:	Rs. 750,000

ARS S/E BENEFITS DATA	Crops planned:	Total employment:
Tot farm families served:		Skilled: md
Workers employed:	Total jeribs served:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and preconstruction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. IRRIGATION

ARS Number & Name: 29 PAKTEKA

IR-2

Page 16 of 16

Total subprojs:	Previous yr	Current yr
Karez	43	192
Jui		
Other	=	=
Total	43	192

Program description:
Previous yr: KAREZ CLEANING
Current yr: " "

Tot ARS irrig length: km	Total ARS irrigation budget:	In cash:	Rs. 3,453,571
		In Food-for-Work:	Rs.
Tot ARS major irrigation structures: ea		In fertilizer:	Rs.
		Total:	Rs. 3 453,571

ARS S/K BENEFITS DATA	Crops planned: WHEAT CORN POTATOES, TOBACO	Total employment:
Tot farm families served: 2433		Skilled: 18072 md
Workers employed: 1687	Total jeribs served: 22370	Unskilled: 68487 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: —	Equipment: —
Materials: —	Tools: —

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	x								
2. Survey, design and preconstruction reports of current year subprojects:	x								
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	xxx	xxx							
b. Current year subprojs.		xx	xxx	xx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91 Program Component: II. **IRRIGATION** ARS Number & Name:	IR-2 Page __ of __

Total subprojs: Previous yr Current yr Karez Jui Other Total	Program description: Previous yr: Current yr:

Tot ARS irrig length: km Tot ARS major irrigation structures: ea	Total ARS irrigation budget:	In cash: Rs. In Food-for-Work: Rs. In fertilizer: Rs. Total: Rs.

ARS S/E BENEFITS DATA	Crops planned:	Total employment:
Tot farm families served: Workers employed:	Total jeribs served:	Skilled: md Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

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APPENDIX B

Implementation of Road and Bridge Subprojects

RB-2 Forms

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

RB-2

ARS Number & Name: 01 KABUL

Total subprojs:	Previous yr	Current yr
Road	1	2
Bridge	0	0
Other	0	0
Total	1	2

Program description:
Previous yr: ROAD CONSTRUCTION
Current yr: " " "

Tot road length plnd: 74 km
To bridges planned: — ea

Total ARS road and bridge budget:
In cash: Rs. 1,235,760
In Food-for-Work: Rs. —
In fertilizer: Rs. 495,264
Total: Rs. 1,751,024

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 8	Total farm families: 52000	Skilled: — md
Workers employed: 150	Total Jeribs: 50000	Unskilled: 64256 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: NOT NEEDED	Equipment: TRACTOR, DRILL
Materials:	Tools: 5 STANDARD SETS

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	xx								
2. Survey, design and pre-construction reports of current year subprojects:	x	xx							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	xxx	xx							
b. Current year subprojs.		x	xxx	xxx					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 02 KAPISA

RB-2

Total subprojs:	Previous yr	Current yr
Road	1	1
Bridge	3	—
Other	—	
Total	4	1

Program description:
Previous yr: ROAD REHAB.
Current yr: " " NEW ROAD CONS.

Tot road length plnd: 12.2 km
To bridges planned: 3 ea

Total ARS road and bridge budget:
In cash: Rs. 3,491,667
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 3,491,667

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 20	Total farm families: 60000	Skilled: 410 md
Workers employed: 350	Total Jeribs: 65000	Unskilled: 70000 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: NOT NEEDED	Equipment: DRILLS, TRACTOR
Materials:	Tools: 5 STD. SETS

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:	x								
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	xxx	xxx	xx						
b. Current year subprojs.			xxx	xxx					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

RB-2

ARS Number & Name: 03 PARWAN

Total subprojs:	Previous yr	Current yr
Road	1	1
Bridge	–	2
Other	–	–
Total	1	3

Program description:
Previous yr: ROAD REPAIRS
Current yr: " " + BRIDG CONS.

Tot road length plnd: 39 km
To bridges planned: 2 ea

Total ARS road and bridge budget:
In cash: Rs. 1,592,434
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 1,592,434

ARS S/E BENEFITS DATA

No of towns connected: 39
Workers employed: 57979

Within road influence areas:
Total farm families: 32800
Total Jeribs: 136800

Total employment:
Skilled: 3002 md
Unskilled: 54972 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance:
Materials: CEMENT, GABIONS
Equipment: TRUCK, VEHICLE DRILL
Tools: 10 STD. SETS.

ARS TIMELINE Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and pre-construction reports of current year subprojects:	XXX	X							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XX							
b. Current year subprojs.		XXX	XXX	XXX					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 04 WARDAK

RB-2

Total subprojs: Previous yr Current yr	Program description:
Road	Previous yr: NO ROAD & BRIDGES
Bridge	
Other	Current yr: " " "
Total	

Tot road length plnd: km	Total ARS road and bridge budget:	In cash:	Rs.
		In Food-for-Work:	Rs.
To bridges planned: ea		In fertilizer:	Rs.
		Total:	Rs.

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected:	Total farm families:	Skilled: md
Workers employed:	Total Jeribs:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 05LOGAR

RB-2

Total subprojs:	Previous yr	Current yr
Road	0	3
Bridge	1	2
Other	—	—
Total	1	5

Program description:
Previous yr: BRIDGE REHAB.
Current yr: ROAD "

Tot road length plnd: 40 km
To bridges planned: 2 ea

Total ARS road and bridge budget:
In cash: Rs. 2140581
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,140,581

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 20	Total farm families: 13200	Skilled: 690 md
Workers employed: 215	Total Jeribs: 4200	Unskilled: 49980 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment: TRACTOR, VEHICLE
Materials: SAND, GRAVEL, CEMENT	Tools: 2 STD. SETS

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and pre-construction reports of current year subprojects:	X								
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XXX							
b. Current year subprojs.		X	XXX	XXX					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91 Program Component: II. ROADS AND BRIDGES ARS Number & Name: 06 GHAZNI	RB-2 Page 6 of 16

Total subprojs: Previous yr Current yr	Program description:
Road Bridge Other Total	Previous yr: NO ROAD & BRIDGES Current yr: " "

Tot road length plnd: km To bridges planned: ea	Total ARS road and bridge budget:	In cash: Rs. In Food-for-Work: Rs. In fertilizer: Rs. Total: Rs.		

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: Total Jeribs:	Skilled: md Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: Materials:	Equipment: Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 07 PAKTYA

RB-2

Total subprojs:	Previous yr	Current yr
Road	–	1
Bridge	–	–
Other	–	12
Total	–	13

Program description:
Previous yr:
Current yr: ROAD REHAB. CONS OF CULVERTS

Tot road length plnd: 40 km

To bridges planned: ea
12 CULVERTS

Total ARS road and bridge budget:
In cash: Rs. 872,132
In Food-for-Work: Rs. –
In fertilizer: Rs. –
Total: Rs. 872132

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 8	Total farm families: 3000	Skilled: 1200 md
Workers employed: 50	Total Jeribs: 20,000	Unskilled: 8464 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: NEEDED	Equipment: TRACTOR, DRILL LEVEL
Materials:	Tools: 4 SETS OF STD.

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	X								
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.	X	XXX	XXX	XX					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 10 KUNAR

RB-2

Total subprojs:	Previous yr	Current yr
Road	1	2
Bridge	1	1
Other	-	1
Total	2	4

Program description:
Previous yr: ROAD CONSTRUCT.
Current yr: ROAD " + DRAINAGE STRUCTURES.

Tot road length plnd: 44.6 km
To bridges planned: 4 ea

Total ARS road and bridge budget:
In cash: Rs. 2,280,000
In Food-for-Work: Rs.
In fertilizer: Rs. 1,619,026
Total: Rs. 3,899,026

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 20	Total farm families: 2200	Skilled: 930 md
Workers employed: 650	Total Jeribs: 6000	Unskilled: 165000 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: —
Materials: GABIONS, CEMENT
Equipment: TRUCKS, TRACTORS VEHICLE, DRILL
Tools: 4 STD. UNITS

ARS TIMELINE Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									DONE
2. Survey, design and pre-construction reports of current year subprojects:		XX							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XX X	XXX						
b. Current year subprojs.			XXX	XXX					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 12 TAKHAR

RB-2

Total subprojs:	Previous yr	Current yr
Road	2	—
Bridge	—	—
Other	—	—
Total	2	

Program description:
Previous yr: CONSTRUCTION / REHA. OF ROAD.
Current yr:

Tot road length plnd: 55 km
To bridges planned: - ea

Total ARS road and bridge budget:
In cash: Rs. 2 500,000
In Food-for-Work: Rs.
In fertilizer: Rs.
Total: Rs. 2,500,000

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 8	Total farm families: 22333	Skilled: 2000 md
Workers employed: 200	Total Jeribs: 15000	Unskilled: 180332 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment: DRILLS, TRACTOR TRUCK
Materials: GABIONS	Tools: 4 STD. UNITS

ARS TIMELINE Activity	FY 90		FY 91				FY 92		Remarks
	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									DONE
2. Survey, design and pre-construction reports of current year subprojects:									DONE
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	XXX	XXX	XXX	XXXX					
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

RB-2

ARS Number & Name: 13 BAGHLAN

Total subprojs:	Previous yr	Current yr
Road	3	2
Bridge	–	1
Other	–	
Total	3	3

Program description: Previous yr: REHABILIT. OF ROADS

Current yr: REHABILITATION OF ROADS

Tot road length plnd: 75 km

To bridges planned: – ea

Total ARS road and bridge budget:
In cash: Rs. 500,000
In Food-for-Work: Rs.
In fertilizer: Rs. 1000,000
Total: Rs. 1500,000

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: 6	Total farm families: 900	Skilled: 1200 md
Workers employed: 350	Total Jeribs: 19500	Unskilled: 61000 md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: –	Equipment: –
Materials: –	Tools: –

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									DONE
2. Survey, design and pre-construction reports of current year subprojects:									DONE
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.	xxx	xxx	xxx						
b. Current year subprojs.			xx	xxx					

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 14 KUNDUZ

RB-2

Total subprojs:	Previous yr	Current yr
Road	—	
Bridge	—	
Other		
Total		

Program description:
Previous yr:

Current yr:

Tot road length plnd:	km	Total ARS road and bridge budget:	In cash:	Rs. —
			In Food-for-Work:	Rs.
To bridges planned:	ea		In fertilizer:	Rs.
			Total:	Rs.

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected:	Total farm families:	Skilled: md
Workers employed:	Total Jeribs:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

2

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 20 HERAT

RB-2

Total subprojs:	Previous yr	Current yr
Road	—	
Bridge	—	
Other	—	
Total		

Program description:
Previous yr:

Current yr:

Tot road length plnd:	km	Total ARS road and bridge budget:	In cash:	Rs.	—
To bridges planned:	ea		In Food-for-Work:	Rs.	
			In fertilizer:	Rs.	
			Total:	Rs.	—

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected:	Total farm families:	Skilled: md
Workers employed:	Total Jeribs:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 21 FARAH

RB-2

Total subprojs:	Previous yr	Current yr
Road	—	
Bridge	=	
Other		
Total		

Program description:
Previous yr:

Current yr:

Tot road length plnd:	km	Total ARS road and bridge budget:	In cash:	Rs. 250,000
To bridges planned:	ea		In Food-for-Work:	Rs.
			In fertilizer:	Rs.
			Total:	Rs. 250,000

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected:	Total farm families:	Skilled: md
Workers employed:	Total Jeribs:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 24 Kandahar

RB-2

Total subprojs:	Previous yr	Current yr
Road		
Bridge		
Other		
Total	0	0

Program description:
Previous yr: No Road/Bridge Program
Current yr: " " " "

Tot road length plnd:	km	Total ARS road and bridge budget:	In cash:	Rs.
			In Food-for-Work:	Rs.
To bridges planned:	ea		In fertilizer:	Rs.
			Total:	Rs.

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:	
No of towns connected:	Total farm families:	Skilled:	md
Workers employed:	Total Jeribs:	Unskilled:	md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 28 BAMYAN

RB-2

Total subprojs:	Previous yr	Current yr
Road	—	
Bridge	—	
Other		
Total		

Program description:
Previous yr:

Current yr:

Tot road length plnd:	km	Total ARS road and bridge budget:	In cash:	Rs. 750,000
To bridges planned:	ea		In Food-for-Work:	Rs.
			In fertilizer:	Rs.
			Total:	Rs. 750,000

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected:	Total farm families:	Skilled: md
Workers employed:	Total Jeribs:	Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance:	Equipment:
Materials:	Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91
Program Component: II. ROADS AND BRIDGES

ARS Number & Name: 29 Paktika

RB-2

Total subprojs:	Previous yr	Current yr
Road	—	1
Bridge	—	7
Other	—	
Total	0	8

Program description:
Previous yr:
Current yr: ROADS & BRIDGES REHAB.

Tot road length plnd: 60 km
To bridges planned: 7 ea

Total ARS road and bridge budget:
In cash: Rs. 1,000,000
In Food-for-Work: Rs. 1,200,000
In fertilizer: Rs. 600,000
Total: Rs. 2,800,000

ARS S/E BENEFITS DATA		Within road influence areas:		Total employment:	
No of towns connected:	23	Total farm families:	9,250	Skilled:	1,195 md
Workers employed:	368	Total Jeribs:	23,750	Unskilled:	35,~~800~~ 798 md

ARS TECH/LOGISTIC REQMTS — Description and when needed

Survey/design assistance: Yes - Road & bridges

Materials: Stone, aggregate, cement, Reinf steel

Equipment: None

Tools: — sets plus 100 shovels and 20 pickaxes.

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.	x	xx							
2. Survey, design and pre-construction reports of current year subprojects:		xx							
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.			xx	xxx					

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CONSOLIDATED ANNUAL IMPLEMENTATION PLAN (CAIP)--FY 90/91 Program Component: II. **ROADS AND BRIDGES** ARS Number & Name:	RB-2 Page __ of __

Total subprojs: Previous yr Current yr Road Bridge Other _____ Total	Program description: Previous yr: Current yr:

Tot road length plnd: km To bridges planned: ea	Total ARS road and bridge budget:	In cash: Rs. In Food-for-Work: Rs. In fertilizer: Rs. Total: Rs.	

ARS S/E BENEFITS DATA	Within road influence areas:	Total employment:
No of towns connected: Workers employed:	Total farm families: Total Jeribs:	Skilled: md Unskilled: md

ARS TECH/LOGISTIC REQMTS	Description and when needed
Survey/design assistance: Materials:	Equipment: Tools:

ARS TIMELINE	FY 90		FY 91				FY 92		
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Remarks
1. Planning of current year subprojects: Identify, conduct feasibility studies, prioritize, obtain local approval, complete RB-1 and RB-2 forms.									
2. Survey, design and pre-construction reports of current year subprojects:									
3. Mobilization and construction of subprojects:									
a. Previous year subprojs.									
b. Current year subprojs.									

APPENDIX C

Sample Forms IR-1 and RB-1 and Instructions

ANNUAL IRRIGATION IMPLEMENTATION PLAN (AIIP)--FY 90/91	IR-1
ARS Number & Name:	Page __ of __

Subproj No:	Subproj name:	Village:
Length (m):	Approx cost (Rs):	Priority ranking:
SUBPROJECT S/E BENEFITS DATA	Irrigated by subproject:	Employment (mandays):
Tot farm families served: Workers employed:	Crops: Total jeribs:	Skilled: Unskilled:

SUBPROJECT TECH/LOGISTIC DATA	Materials:	Quantity	Source	Addl Equipment:	y/n
Water source: Discharge: l/sec	Excavation	m3	xxx	Tractor	
	Stones	m3		Compressor	
	Aggregates	m3		Poinjar drill	
Special design needs:	Cement	kg		Vibrator	
	Reinf steel	kg		Concrete mixer	
	Gabions	pc		Survey equip	
	Wood	m3		Other	
	Other				
				Tools: Additional 25-wkr sets reqd:	

SUBPROJECT TIMELINE	Planned Dates								Actual Dates	
	FY 90		FY 91				FY 92			
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Started	Completed
1. Planning: Identify subproj, conduct feasibility study, prioritize, obtain local approval, complete IR-1 form at planning workshop.										
2. Perform topographic survey.										
3. Prepare design and budget.										
4. Submit preconst report.										
5. Obtain VITA/AID approval.										
6. Procure materials/tools.										
7. Move matls/tools to site.										
8. Transfer funds to ARS acct.										
9. Mobilize labor/equipment.										
10. Construct subproject.										
11. Final insp/compl report.										

Instructions for Completing Form IR-1

ANNUAL IRRIGATION IMPLEMENTATION PLAN

ARS Number: The new numbering system shown on the attached sheet is to be employed.

ARS Name: The new naming system which includes the name of the province is to be used.

Page of : The first number is the page number within the set of Form IR-1s to be submitted by the ARS for the current year. The second number is the total number of pages within the set.

Subproj number: Enter the subproject number according to the following:

Province	-	District	-	Subproject type	-	Subproject subtype	-	Serial number
2 digits	-	2 digits	-	2 letters	-	2 digits	-	4 digits
04	-	03	-	IR	-	01	-	0015
Wardak	-	Nerkh	-	irrigation	-	karez	-	*

* The serial number will be assigned by the planning department. It is a consecutive number within each district and subproject subtype. That is, there is to be a complete set of sequential numbers for all karezes in Nerkh District.

The subproject number in this example is written as 04-03-IR-01-0015.

Subproj name: An English letter representing the subtype, followed by the word or words giving the name that the facility is known by or will be known by. The total length of the name may not exceed 20 English characters and spaces. The subtype letter is to be taken from the following:

K	Karez	R	Retaining Wall
S	Spring	Y	Syphon
W	Ag Well	J	Jui
I	Intake	T	Tunnel
F	Flume	O	Others

Village: Enter one of the following:

- A village name traditionally associated with the facility to be rehabilitated under the subproject.
- The name of the village nearest to the subproject.
- The name of the largest of several villages near the subproject.

Length (m): Enter the total length of the subproject in meters. This will almost always be appropriate for all subtypes of irrigation subprojects. In the few cases where it is not appropriate (e.g., springs), enter other appropriate measurements.

Approx cost (Rs): Enter an estimate of the total cost of the subproject, including all labor and materials.

Priority ranking: Enter a number between one and 10 that represents the relative importance or urgency of the subproject in comparison with other subprojects to be implemented as a part of this same AIIP. Lower numbers are to indicate greater importance or urgency. If possible subprojects having the same priority ranking should be scheduled (in the timeline, below) to be implemented simultaneously.

To the extent possible, the priority ranking should be determined in collaboration with the local shura, tanzeems or commanders.

SUBPROJECT S/E BENEFITS DATA The information to be provided in this section is intended to give a rough indication of socio-economic benefits accruing to the subproject.

Tot farm families served: Enter the total number of farm families that, upon completion of the subproject, will work the land to be irrigated .

Workers employed: Enter the number of workers that are estimated needed to complete the subproject, receiving direct benefits from the project in the form of income. Include both skilled and unskilled workers. This number is to be determined from the employment manday estimates shown in this section of the form, combined with the duration of subproject construction, as scheduled with activity 10 of the subproject timeline.

For example, assume that you have estimated manday requirements as follows:

Skilled:	600	mandays
Unskilled:	8,600	"

In the timeline, activity 10, you show that you expect to complete the construction within a period of four months, or approximately 100 days. Dividing the above manday requirements by 100 gives the numbers of workers required:

Skilled:	6	workers
Unskilled:	86	"
Total:	92	workers

The number 92 is then entered for workers employed.

Crops irrigated by subproject: List one or two principal crops that will be raised (after subproject completion) on the land served by the subproject.

Total jeribs irrigated by subproject: Enter the number of jeribs that will be irrigated by the subproject after its completion.

Skilled and unskilled employment (mandays): These amounts are to be estimated using the productivity norms which apply to the types of work planned for the subproject. The manday entries should be consistent with the entries for the number of workers and the time duration of construction. See the sample calculation given above under "Workers employed".

SUBPROJECT TECH/LOGISTIC DATA: The entries in this section will provide technical data and will alert VITA/Peshawar as to resources needed to implement the subproject.

Water source: The source of water that will be conducted by the subproject facility might be a river, canal, karez, well or underground aquifer. Enter one of these water sources, along with its name, if it has a name.

Discharge: If the subproject facility is of a type that conducts water (jui, karez, etc.), enter the estimated discharge (after subproject completion) in liters per second. For a retaining wall that will protect another facility, enter the discharge of that facility.

Special design needs: If the assistance of VITA/Peshawar is needed for conducting an engineering survey and/or design, this fact should be noted. Also, a description of any unusual subproject features not normally included in previous VITA designs should be noted.

Materials: Enter the approximate quantities of the various materials that are to be used for construction of the subproject.

For all but excavation, indicate the source of materials. Typical entries for sources might be as follows:

Entry for stones and aggregates	Meaning
Local	Available at the subproject site
5 km	Available within 5 km of subproject site
Kunar River	Plan to mine from river
Asadabad	Plan to purchase from Asadabad

Entry for cement, reinf steel, gabions and wood	Meaning
ARS	Sufficient quantity remaining in ARS store
Kabul	Plan to procure in Kabul
Asadabad	Plan to procure in Asadabad
Peshawar	Plan to import from Peshawar

Addl Equipment: With a yes (y) or no (n) entry, indicate the equipment items that are planned for use in constructing the subproject.

Tools: Additional 25-wkr sets reqd: Indicate the number of standard 25-worker tool sets that will be needed to construct the subproject and that are not available from use on earlier subprojects.

SUBPROJECT TIMELINE: The timing of several critical activities needed for subproject implementation are to be shown in this section.

Planned Dates: This section of the form spans a period of two years, during fiscal years 1990 (FY 90) through fiscal year 1992 (FY 92). Abbreviations in the headings are:

Abbreviation	Meaning
AMJ	April, May and June
JAS	July, August and September
OND	October, November and December
JFM	January, February and March

The first set of abbreviations, occurring under FY 90 and FY 91, are for the first year of VITA's new Cooperative Agreement--April 1990 through March 1991.

Timeline Entries: For each month during which a subproject activity is scheduled to be underway, a star (*) is entered opposite the activity and under the abbreviation for the month. The following example shows that the topographic survey is scheduled for June and July of FY 90, and the preparation of the design and cost estimate is to occur in August of the same year.

SUBPROJECT TIMELINE	*Planned Dates*								*Actual Dates*	
	FY 90		*FY 91*				*FY 92*			
Activity	*AMJ*	*JAS*	*OND*	*JFM*	*AMJ*	*JAS*	*OND*	*JFM*	*Started*	*Completed*
2. Perform topographic survey.	*	*								
3. Prepare design and budget.		*								

Note that the above two activities do not necessarily overlap in the month of July. Although a star is shown for both during this month, activity 1 can occur during the early part of the month, and activity 2 later on, after activity 1 has been completed.

Scheduling of Activities: For all subprojects in the current AIIP, activities should start during the first year (to the left of the double line). Most activities should also be completed during the first year, but a few might extend into the second year. In the following example, mobilizing of labor and equipment is scheduled to start and to be completed during the first year of the Cooperative Agreement. However, construction of the subproject is to start in the first year (in January 1991) and to be completed during the second year of the agreement (in May 1991).

SUBPROJECT TIMELINE	*Planned Dates*								*Actual Dates*	
	FY 90		*FY 91*				*FY 92*			
Activity	*AMJ*	*JAS*	*OND*	*JFM*	*AMJ*	*JAS*	*OND*	*JFM*	*Started*	*Completed*
9. Mobilize labor/equipment.				**						
10. Construct subproject.				***	**					

Parallel activities: Activities are often serial--that is, one is scheduled for completion before the next one is to start. However, it is also possible for activities to occur in parallel (simultaneously), provided that starting of one activity is not dependent upon completion of the other. In the above example, subproject construction is scheduled to start before mobilization is completed. In some situations, it may be appropriate to start construction before all necessary labor and equipment is on hand.

Prioritizing subprojects: There should be a relationship between the schedule of subproject activities shown in this section of the form and the priority ranking shown near the top of the form. Activities for high-priority subprojects (priority 1, 2, etc.) should be scheduled in the earlier part of the year, and low-priority subprojects would be scheduled later in the year. For the low-priority subprojects, it may be desirable to show construction extending into next year.

Actual Dates: Many of VITA's subprojects for FY 1990 have already been started, with several of the early activities having been completed at this time. Because the first month shown under Planned Dates is April 1990, it is not possible to enter stars opposite these activities. In cases like this, the dates that the activities were started and completed should be entered in the Actual Dates section on the right-hand side of the form. It may not be convenient to enter both starting and completion dates for all activities. As a minimum, the starting date should be entered for Activities 1 and 10, and the ending date entered for Activities 4, 5, 7 and 10.

ANNUAL ROADS AND BRIDGES IMPLEMENTATION PLAN (ARBIP)--FY 90/91	RB—1
ARS Number & Name:	Page __ of __

Subproj No:	Subproj name:	Village:
Length (m): Width (m):	Approx cost (Rs):	Priority ranking:
SUBPROJECT S/E BENEFITS DATA	Within road influence area:	Employment (mandays):
Towns connected: Workers employed:	Crops: Jeribs cltvd: Tot fams:	Skilled: Unskilled:

SUBPROJECT TECH/LOGISTIC DATA	Materials:	Quantity	Source	Addl Equipment:	y/n
New/Rehabilitation (N/R):	Excavation	m3	xxx	Tractor	
Road surfacing matl:	Stones	m3		Compressor	
Total culverts/washes:	Aggregates	m3		Poinjar drill	
Bridge type:	Cement	kg		Vibrator	
	Reinf steel	kg		Concrete mixer	
Special design needs:	Gabions	pc		Survey equip	
	Wood	m3		Other	
	Other				
				Tools: Additional 25-wkr sets reqd:	

SUBPROJECT TIMELINE	Planned Dates								Actual Dates	
	FY 90		FY 91				FY 92			
Activity	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	Started	Completed
1. Planning: Identify subproj, conduct feasibility study, prioritize, obtain local approval, complete IR-1 form at planning workshop.										
2. Perform topographic survey.										
3. Prepare design and budget.										
4. Submit preconst report.										
5. Obtain VITA/AID approval.										
6. Procure materials/tools.										
7. Move matls/tools to site.										
8. Transfer funds to ARS acct.										
9. Mobilize labor/equipment.										
10. Construct subproject.										
11. Final insp/compl report.										

Instructions for Completing Form RB-1

ANNUAL ROADS AND BRIDGE IMPLEMENTATION PLAN

ARS Number: The new numbering system shown on the attached sheet is to be employed.

ARS Name: The new naming system which includes the name of the province is to be used.

Page of : The first number is the page number within the set of Form RB-1s to be submitted by the ARS for the current year. The second number is the total number of pages within the set.

Subproj number: Enter the subproject number according to the following:

Province	- District	- Subproject type	- Subproject subtype	- Serial number
2 digits	- 2 digits	- 2 letters	- 2 digits	- 4 digits
04	- 03	- RB	- 02	- 0015
Wardak	- Nerkh	- road/brdg	- road rehab	- *

* The serial number will be assigned by the planning department. It is a consecutive number within each district and subproject subtype. That is, there is to be a complete set of sequential numbers for all karezes in Nerkh District.

The subproject number in this example is written as 04-03-RB-02-0015.

Subproj name: One or two English letters representing the subtype, followed by the word or words giving the name that the facility is known by or will be known by. The total length of the name may not exceed 20 English characters and spaces. The subtype letter is to be taken from the following:

NR	New road	IB	Irish bridge
RR	Road rehabilitation	C	Culvert
VB	Vehiclular bridge	RW	Retaining wall
PB	Pedestrian bridge	O	Others

Village: Enter one of the following:

- A village name traditionally associated with the road or other subproject facility.
- For a bridge, culvert or retaining wall, the name of the village nearest to the subproject.
- For a road, the name of the largest village served by near the road.

Length (m): Enter the total length of the subproject facility in meters. In the case of bridges, this will be the span length. For culverts, leave the space blank.

Width (m): Enter the width of the subproject facility in meters. For roads and vehicular bridges, this is the width of the driving surface, not including shoulders, ditches or guardrails. For pedestrian bridges, enter the width of the walking surface.

Approx cost (Rs): Enter an estimate of the total cost of the subproject, including all labor and materials.

Priority ranking: Enter a number between one and 10 that represents the relative importance or urgency of the subproject in comparison with other subprojects to be implemented as a part of this same ARBIP. Lower numbers are to indicate greater importance or urgency. Subprojects having the same priority ranking should be scheduled (in the timeline, below) to be implemented simultaneously.

To the extent possible, the priority ranking should be determined in collaboration with the local shura, tanzeems or commanders.

SUBPROJECT S/E BENEFITS DATA The information to be provided in this section is intended to give a rough indication of socio-economic benefits accruing to the subproject.

Towns connected: For a road subproject, enter the names of the towns nearest the beginning and end of the subproject. For bridges, culverts and retaining walls, enter the name of the nearest town or village on each side of the subproject.

Workers employed: Enter the number of workers that are estimated needed to complete the subproject, receiving direct benefits from the project in the form of income. Include both skilled and unskilled workers. This number is to be determined from the employment manday estimates shown in this section of the form, combined with the duration of subproject construction, as scheduled with activity 10 of the subproject timeline.

For example, assume that you have estimated manday requirements as follows:

Skilled:	600	mandays
Unskilled:	8,600	"

In the timeline, activity 10, you show that you expect to complete the construction within a period of four months, or approximately 100 days. Dividing the above manday requirements by 100 gives the numbers of workers required:

Skilled:	6	workers
Unskilled:	86	"
Total:	92	workers

The number 92 is then entered for workers employed.

Road-influence area: This is the geographic area in which the inhabitants use the road as their principal means of access to the outside world. It includes

all of the agricultural land that will be served with inputs and outputs by vehicles travelling the road.

The road-influence area can be readily determined in many of the valleys of Afghanistan which are served by only one passable road. In such cases, the road influence area includes the entire valley, on both sides of the road and beyond (up-valley) the point where road construction or rehabilitation is to start. It extends beyond the end of construction, to the end of the valley. All persons and agriculture in the road-influence area, as described in this manner, will benefit from the construction or rehabilitation of the road.

For bridges, culverts and retaining walls, the road influence area is determined as above for road construction. The location of the subproject facility is considered as the starting point of the road.

Crops within road-influence area: List two or three principal crops that are presently being or will be raised in the road-influence area.

Jeribs cltvd: Enter the approximate total jeribs of farmland in the road influence area expected to be under cultivation for raising at least one crop during a normal year.

Tot fams: Enter the total number of families that reside within the road influence area.

Skilled and unskilled employment (mandays): These amounts are to be estimated using the productivity norms which apply to the types of work planned for the subproject. The manday entries should be consistent with the entries for the number of workers and the time duration of construction. See the sample calculation given above under "Workers employed".

SUBPROJECT TECH/LOGISTIC DATA: The entries in this section will provide technical data and will alert VITA/Peshawar as to resources needed to implement the subproject.

New/Rehabilitation (N/R):

Road surfacing matl:

Total culverts/washes:

Bridge type:

Special design needs: If the assistance of VITA/Peshawar is needed for conducting an engineering survey and/or design, this fact should be noted. Also, a description of any unusual subproject features not normally included in previous VITA designs should be noted.

Materials: Enter the approximate quantities of the various materials that are to be used for construction of the subproject. For all but excavation, indicate the source of materials. Typical entries for sources might be as follows:

Entry for stones and aggregates	Meaning
Local	Available at the subproject site
5 km	Available within 5 km of subproject site
Kunar River	Plan to mine from river
Asadabad	Plan to purchase from Asadabad

Entry for cement, reinf steel, gabions and wood	Meaning
ARS	Sufficient quantity remaining in ARS store
Kabul	Plan to procure in Kabul
Asadabad	Plan to procure in Asadabad
Peshawar	Plan to import from Peshawar

Addl Equipment: With a yes (y) or no (n) entry, indicate the equipment items that are planned for use in constructing the subproject.

Tools: Additional 25-wkr sets reqd: Indicate the number of standard 25-worker tool sets that will be needed to construct the subproject and that are not available from use on earlier subprojects.

SUBPROJECT TIMELINE: The timing of several critical activities needed for subproject implementation are to be shown in this section.

Planned Dates: This section of the form spans a period of two years, during fiscal years 1990 (FY 90) through fiscal year 1992 (FY 92). Abbreviations in the headings are:

Abbreviation	Meaning
AMJ	April, May and June
JAS	July, August and September
OND	October, November and December
JFM	January, February and March

The first set of abbreviations, occurring under FY 90 and FY 91, are for the first year of VITA's new Cooperative Agreement--April 1990 through March 1991.

Timeline Entries: For each month during which a subproject activity is scheduled to be underway, a star (*) is entered opposite the activity and under the abbreviation for the month. The following example shows that the topographic survey is scheduled for June and July of FY 90, and the preparation of the design and cost estimate is to occur in August of the same year.

SUBPROJECT TIMELINE	*Planned Dates*								*Actual Dates*	
	FY 90		*FY 91*				*FY 92*			
Activity	*AMJ*	*JAS*	*OND*	*JFM*	*AMJ*	*JAS*	*OND*	*JFM*	*Started*	*Completed*
2. Perform topographic survey.	*	*								
3. Prepare design and budget.		*								

Note that the above two activities do not necessarily overlap in the month of July. Although a star is shown for both during this month, activity 1 can occur during the early part of the month, and activity 2 later on, after activity 1 has been completed.

Scheduling of Activities: For all subprojects in the current AIIP, activities should start during the first year (to the left of the double line). Most activities should also be completed during the first year, but a few might extend into the second year. In the following example, mobilizing of labor and equipment is scheduled to start and to be completed during the first year of the Cooperative Agreement. However, construction of the subproject is to start in the first year (in January 1991) and to be completed during the second year of the agreement (in May 1991).

SUBPROJECT TIMELINE	*Planned Dates*								*Actual Dates*	
	FY 90		*FY 91*				*FY 92*			
Activity	*AMJ*	*JAS*	*OND*	*JFM*	*AMJ*	*JAS*	*OND*	*JFM*	*Started*	*Completed*
9. Mobilize labor/equipment.				**						
10. Construct subproject.				***	**					

Parallel activities: Activities are often serial--that is, one is scheduled for completion before the next one is to start. However, it is also possible for activities to occur in parallel (simultaneously), provided that starting of one activity is not dependent upon completion of the other. In the above example, subproject construction is scheduled to start before mobilization is completed. In some situations, it may be appropriate to start construction before all necessary labor and equipment is on hand.

Prioritizing subprojects: There should be a relationship between the schedule of subproject activities shown in this section of the form and the priority

ranking shown near the top of the form. Activities for high-priority subprojects (priority 1, 2, etc.) should be scheduled in the earlier part of the year, and low-priority subprojects would be scheduled later in the year. For the low-priority subprojects, it may be desirable to show construction extending into next year.

Actual Dates: Many of VITA's subprojects for FY 1990 have already been started, with several of the early activities having been completed at this time. Because the first month shown under Planned Dates is April 1990, it is not possible to enter stars opposite these activities. In cases like this, the dates that the activities were started and completed should be entered in the Actual Dates section on the right-hand side of the form. It may not be convenient to enter both starting and completion dates for all activities. As a minimum, the starting date should be entered for Activities 1 and 10, and the ending date entered for Activities 4, 5, 7 and 10.

APPENDIX D

Training Needs Assessment

FY 1990/1991

TRAINING NEEDS ASSESSMENT

Prepared by A. Wahed Hassani, Ph.D.

The development of human resources in various fields, the improvement of technical skills as well as the application of training according to the specific needs and requirements of organizations are important factors not confined to developing countries. Industrial countries will easily achieve these goals whereas developing countries, very limited in their resources and facilities, are required to overcome obstacles.

The situation is even more complex for an organization like VITA which has to work in war-affected Afghanistan. The country has suffered from vast destruction over the past 12 years. Educated and skilled people have been either murdered or terrorized so that they had no other choice but to leave the country. A lack of training facilities cut the scope of activities carried out in professional and technical fields and finally entailed a shortage of technical manpower.

VITA, however, has succeeded in absorbing a number of experienced rural workers who already had received training in Afghanistan, but who would definitely need a refreshment of it. To date VITA has successfully implemented its rural projects inside Afghanistan despite the crucial need for more trained personnel and has actively contributed to the enormous task of rehabilitation and reconstruction of war-torn Afghanistan.

Being aware of the importance of staff training, VITA has offered training courses, seminars, and workshops to its field staff. Over the past three years some 13 such programs have been carried out.

With the new Cooperative Agreement, an overall training needs assessment has been carried out. This has proved to be a difficult task, with many of the staff being inside Afghanistan most of the time.In spite of this, efforts were made to detail the professional backgrounds of the people involved. This means in particular educational qualifications, work experience, and possible previous VITA training. (See A-1 and A-2)

A summary of the VITA staff positions, both presently assigned and planned future additions, is shown in A-3 and A-4 for VITA Headquarters and ARSs respectively. These forms provide space for recording the results of an ongoing evaluation of skill levels and training requirements. This will be done in conjunction with the initial training programs, to provide better analysis for the planning of later courses.

Staff members were asked what their own assessment was of the training that would be of most benefit to them in their present jobs. The resulting summary of staff training interests is shown in A-5.

TRAINING ASSESSMENT

Position	Total Positions			Training Status			
				Adequate		Required	
	Auth-orized	As-signed	To be Asgnd	Lvl I	Lvl II	Lvl I	Lvl II
ARS PROFESSIONAL STAFF							
ARS Officer	16	12	4				
Asst ARS Officer	16	9	7				
Sr Technician	32	22	10				
Jr Technician	32	26	6				
Admin Assistant	16	11	5				
Monitor	16	2	14				
ARS OTHER STAFF							
Mechanic	16	3	13				
Equip Operator	16	10	6				
Warehouseman	16	11	5				
Guard	16	7	9				
Attendant	16	3	13				
ARS Totals:	208	116	92				
HEADQUARTERS PROFESSIONAL STAFF							
Engineer	8	1	7				
Technician	36	31	5				
Director/Depty Hd	10	10	0				
Asst Dirs/Deputy	6	5	1				
Monitor	7	5	2				
Financial Officer	5	4	1				
Admin Officer	12	11	1				
Secretary	8	7	1				

TRAINING ASSESSMENT

Position	Total Positions			Training Status			
				Adequate		Required	
	Auth-orized	As-signed	To be Asgnd	Lvl I	Lvl II	Lvl I	Lvl II
HEADQUARTERS PROFESSIONAL STAFF (Continued)							
Advisor	2	1	1				
Special Assistant	1	1	0				
Computer Operator	5	1	4				
Training Officer	1	1	0				
Agriculturer Offcr	3	3	0				
Economist	3	3	0				
Clerk	8	5	3				
OTHER HEADQUARTERS STAFF							
Transport Technicn	6	1	5				
Publication Technicn	4	4	0				
Receptionist	1	1	0				
Photocopy Technicn	2	1	1				
Translator	1	1	0				
Liasison Officer	1	1	0				
Typist	3	3	0				
Attendant/cleaner	9	9	0				
Guard	9	9	0				
Headquarters Totals:	151	119	32				
Grand Totals:	359	235	124				

TRAINING INTERESTS OF PRESENT STAFF

Course	Staff Members Surveyed		
	Total	Hdqtrs	Field
English	45	24	21
Computer	17	17	0
Accounting	7	4	3
Filing/accounting	26	5	21
Surveying/design	15	5	10
Recordkeeping	7	4	3
Design	9	5	4
Estimation	6	1	5
Construction	37	1	36
Workshop	14	0	14
Inventory control	12	0	12
On-the-job training	6	6	0
Field engineer training	5	0	5
Management	2	2	0
Mechanic course	2	0	2
Gabian	1	1	0
Financial	1	1	0
Report writing	3	3	0

RDD/VITA EMPLOYEES
(Team Leader's Office)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	1	V-11	Inamullah Butt	P	Secretary	-		
2	2	V-5	Fazel Ahmad Ahrari	P	Sr. Translator	12	3 yrs	
3	3	V-265	Abdullah Aini	P	Sr. Advisor	MS Civil	20 yrs	
4	4			P	Jr. Advisor			
5	5			P	Photo Copier Opp.			
6	6	V-8	Masood Ahmad Khan	P	Laison Officer	BS Army		
7	7	V-336	M. Nasir Noorzai	S	Special Assistant	BS		
8	8			S	Sr. Computer Operator			
9	9			S	Jr. " "			
10	10	V-6	M. Karim	S	Office Attendent	-		
11	11	V-378	Laila Sardar	S	Recept./Computer Opp.	F.A.	1 yr	
12	12	V-297	Asif Maseh	S	Office Cleaner	-		

(Rural Works Division)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
13	1	V-67	Eng. Ajmal Hussain	P	Director	BS Civil		
14	2	V-56	Mohammad Bashir	S	Sr. Computer Operator	12	2 yrs, typist	
15	3			S	Jr. " "			
16	4			S	Jr. " "			
17	5		Said Najibullah	S	Secretary	-		

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(Finance)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
18	1	V-2	Rafiuddin Shah	P	Senior Account Officer	BA		
19	2	V-113	Shah Aqa Naimi	P	Asst. Account Officer	-		
20	3	V-276	Abdullah	S	Cashier	-		

(Controller's Office)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
21	1	V-81	M. Sediq Kakar	P	Controller	8	Rural Works	
22	2	V-167	M. Hemat	P	Assistant Controller	12	5 yrs Saudi Arabia	

(Monitoring)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
23	1	V-246	Mir Mohammad Ayub	P	Sr. Monitor Officer	BS		
24	2	V-283	M. Hassan Malikzai	P	Dep/Sr. Monitor Officer			
25	3	V-320	Nuzhet Sardar	P	Jr. Monitor Officer			
26	4			M	Monitor			
27	5			M	"			
28	6			M	"			
29	7			M	"			
30	8			M	"			
31	9			M	"			
32	10			M	"			
33	11			M	"			
34	12			M	"			
35	13			M	"			
36	14			M	"			

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(Training Office)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
37	1	V-245	Shirindil Safi	P	Director	BS Ag, PG	28 yrs-Helmand, Kabul	
38	2	V-338	Mahboobullah	P	Cameraman	12	8 mos	
39	3	V-118	Abdur-Rahman	S	Administrative, Jr. 3	14	20 yrs, Kabul	
40	4	V-349	Moh'd Eshaq	S	Administrative, Jr. 2	-		
41	5	V-210	Abdul Latif	S	Attendent	-		
42	6	V-243	Abdul Qadir Dehzad	S	Publication Officer	12	1 yr	
43	7	V-256	Qirban Shah	S	Designer	12	18 mos	
44	8	V-327	Said M. Shafia	S	Calligrapher	12	9 mos	

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(General Support Services)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
45	1	V-86	Qari Hamidullah	P	Chief GSO	BS	30 mos	
46	2	V-1	Awal Khan	P	Asst. Chief GSO, Warehouse/Maintenance	12	3 yrs	
47	3	V-52	Mian Rahim	P	Officer in Charge of Employees	12	23 mos	
48	4	V-172	Haji Mir Shahabuddin	P	Registerer	12	18 mos	
49	5	V-46	Mohammed Sabir	P	Officer in Charge of Procurement	12	18 mos	
50	6			S	Secretary			
51	7			S	Sr. Clerk			
52	8	V-212	M. Zahir	S	Clerk, Warehouse	12	18 mos	
53	9			S	Clerk			
54	10			S	Clerk			
55	11	V-254	Abdul Ghafar	S	Dari Typist	12	1 yr	
56	12	V-351	Qamar	S	English Typist	12	1 yr	
57	13	V-47	Mohammed Ishaq	S	Photo Copier	12	2 yrs	
58	14	V-32	Lazar Masih	S	Cleaner	-		
59	15	V-218	Sarwar Masih	S	Cleaner	-		
60	16	V-356	Ghulam Rasool	S	Attendent	-		
61	17	V-4	Hamesha' Gul	S	Gardener (VITA 1, 4, 5)	-		
62	18	V-229	Farooq Khan	S	Guard	-		
63	19	V-379	Fariqullah	S	Gardener	-		
64	20	V-405	Moh'd Yunus	S	Guard	-		
65	21	V-368	Akhtar Moh'd	S	Guard	-		
66	22	V-21	A. Basir	S	Office Helper	-		
67	23	V-211	A. Hadi	S	Office Helper	-		
68	24	V-74	A. Manan	S	Guard/H	-		
69	25	V-223	Feda Moh'd	S	Guard/H	-		
70	26	V-367	Moh'd Nader	S	Guard/H	-		
71	27	V-396	Sayed Mahmood	S	Guard/O	-		
72	28	V-395	Baba Jan	S	Guard/O	-		

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(Engineering Services)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
73	1		Eng. K. Samadi	P	Director	BS Civil		
74	2			P	Computer Operator			
75	3	V-196	Zamari Shafaq	S	Secretary	12		
76	4	V-252	Mohammed Asif	S	Jr. Technician	-		

(Directorate of Survey)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
77	1	V-9	Haji Zahiruddin	P	Director	12		
78	2	V-399	Eng. Mirajuddin	P	Jr. Technician	BS	Survey	
79	3	V-224	Eng. Tooryalai	P		BS		
80	4	V-39	Abdul Rauf Shariqri	P	Cartographer	12		
81	5	V-278	A. Halim	S	Secretary	12		
82	6		Ghulam Sarwar Rosebs	S	Sr. Technician	-		
83	7			S	" "			
84	8			S	Jr. Technician			
85	9			S	Tr. Technician			
86	10	V-293	Mohammed Nabi	S	" "	12		

(Directorate of Design)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
87	1		Ghulam Farooq	P	Director			
88	2		Payenda M. Fakoor	P	Asst. Director			
89	3	V-58	A. Hadi	P	Sr. Engineer	BS Civil	Design office	yes
90	4	V-257	Ahmad Seyar	P	" "			
91	5	V-307	Mir A. Saboor	P	Jr. Technician			yes
92	6	V-403	Eng. Saboor	P	" "	BS	Design office	
93	7	V-55	M. Atiq	P	Sr. Technician			yes
94	8	V-152	A. Hamid	P	" "			
95	9	V-25	Sayed Monir (Ansari)	P	Jr. Technician	BS Civil	Design office	yes
96	10	V-161	Sayed Hesmatullah	P	" "	BS Civil	Design office	yes
97	11	V-275	Ghulam Nabi	S	Secretary	BS		

(Estimation Department)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
98	1			P	Director			
99	2	V-272	M. Khan	P	Sr. Technician	BS	Design office	
100	3	V-244	M. Ayub	S	Jr. Technician	BS Army		
101	4	V-209	Gh. Dastagir Noori	S	Sr. Technician	12		
102	5	V-360	Eng. Zabiahmad	S	Jr. Technician			

(Directorate of Construction)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
103	1		Eng. Aziz Salihi	P	Engineer in Charge	BS Civil, PG	21 yrs	
104	2	V-310	Moh'd Ebrahim	P/M	Jr. Technician	BS Elec		
105	3	V-309	Ahmad Farid	P/M	" "	BS Elec		
106	4			S/M	Sr. Engineer			
107	5	V-288	Abdul Rahim	S/M	" "	BS		
108	6	V-304	M. Eisa Nooristani	S/M	Jr. Engineer	BS		
109	7	V-24	Ghulam Sakhi Pacha	S/M	" "	12	Construction	
110	8	V-15	Ahmadullah Wejdani	S/M	Sr. Technician	12	30 mos	
111	9	V-294	Najibullah	S/M	" "	BS Civil		
112	10	V-76	Sakhi Gul	S	Forman	9		
113	11			S	"			

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(Field Coordination)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
114	1	V-228	Mir Islamuddin Imam	P	Director	BS Eng. PG	20 yrs	
115	2	V-13	Assadullah Noori	P	Sr. Agr.	BS Agr	3 yrs	
116	3	V-352	Shah Jehan	P	Jr. Agr.	BS Agr	8 mos	
117	4	V-77	Mir Aqa	P	Sr. Tech.	12	2 yrs	
118	5	V-121	Nabiullah	P		BS Eng	6 mos	
119	6	V-135	Mohammad Asif	P	Jr. Tech.	12		
120	7	C-14	Din Moh'd	P	Sr. Admin.			
121	8	V-305	Eng. Hafizullah	P	Jr. Tech.	BS	Coordination office	
122	9	V-7	Mohammad Sharif	P	Director	BS		
123	10	V-189	Abdul Wahid	P	Economist	BS		
124	11	V-226	Kh. Mohammad Shafi	P	Asst. Economist	BS		
125	12	V-380	Ahmad Shah	P	" "	BS		
126	13		M. Zaher	P.	Jr. Technician			
127	14	V-102	Said Alim	S	Secretary Agr. Service	12	19 mos	
128	15	V-260	Said Karim	S	Administrative	BS	1 yr	
129	16	V-382	Said Shah	S	Admin/Clerk	12	6 mos	
130	17	V-337	Khwaji Moh'd	S	Asst. Admin.	12	6 mos	
131	18	V-353	Sayed Bashir	S	Typist	12	8 mos	
132	19		Mohammad Azim	S	Administrative	12		
133	20	V-317	Mohammed Haroon	S	Assist. Administrative			

(Directorate of Transport and Machinery)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
134	1	V-105	Khwaja Samiullah	P	Engineer in Charge	BS Mech	2 yrs Kabul Electric	
135	2	V-17	Abdul Saboor	P	Secretary	12		
A] TRANSPORT								
136	1	V-354	Mir A. Malik	S	Dispatcher	-		
137	2	V-394	Haji Hafizullah	S	Admin. Clerk	12		
138	3			S	Driver			
B] MACHINERY								
139	1			P	Sr. Engineer			
140	2			P	Jr. Engineer			
141	3	V-270	Akhtar Mohammed	P	Sr. Technician	BS Mech		
142	4	V-18	Abdul Habib	P	Jr. Technician	BS Mech	6 yr Min Public Works	
143	5	V-179	Mehruddin	P	Tr. Technician	BS Mech		
144	6	V-271	Sayed Enayatullah	P	" "	BS Mech	6 mos	
145	7			S	Sr. Mechanic			
146	8			S	" "			
147	9		Haroon	S	Jr. Mechanic	-		
148	10			S	" "			

(Quetta Office)

* P = Professional, S = Support, M = Monitor

Ser. No	Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
149	1	V-247	Said Habib	P	Dir. Sr. Agr. Advisor	BS	11 mos	
150	2		Adam Khan Perdais	P	Deputy			
151	3	V-400	Rahmatullah Sharifi	P	Jr. Tech.	BS Eng	3 mos	
152	4	V-221	Abdul Ahmad	P	Sr. Tech.			
153	5	V-363	Mohammad Ishaq	S	Admin/Clerk	12	5 mos	
154	6	V-370	Mohammad Farid	S	Attendent	-		
155	7	V-371	Khalilur Rahman	S	Guard	-		
156	8	V-306	Abdullah Khan	S	Admin/Clerk	12		
157	9	V-397	Abdul Khaliq	M	Senior Monitor	-		
158	10	V-398	Atta Mohammad	M	Monitor	-		

RDD/VITA ARS EMPLOYEES **A-2**
(ARS-01, Kabul)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-35	Abdul Qadir	P	ARS Officer	12		
2		Ali Khan	P	Asst. ARS Officer			
3	V-216	Abdul Latif	P	Sr. Technician	BS Eng		
4	V-242	Abdul Hamid	P	Sr. Technician	BS Eng		
5	V-266	Sirajul Haq	P	Jr. Technician	BS Eng		
6	V-239	Ghulam Farooq	P	Jr. Technician	12		
7	V-241	Mohammad Akbar	P	Admin/Clerk	12		
8			M	Monitor			
9			S	Mechanic			
10	V-115	Ghulam Eshan	S	Driver			
11.	V-267	Mir Ahmad Sayeed	S	Warehouseman	-		
12	V-326	Abdul Ghafar	S	Guard	-		
13		Shir Mohammad	S	Attendent			

(ARS-02, Kapisa)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-129	Mohammed Umar	P	ARS Officer	BS, PolyT	2 yrs	yes
2	V-20	Shahzadah	P	Asst. ARS Officer	BS	2 yrs	yes
3			P	Sr. Technician			
4			P	Sr. Technician			
5	V-334	Ameruddin	P	Jr. Technician	BS	9 mos	
6	V-338	Enayatullah	P	Jr. Technician	BS	9 mos	
7			P	Admin./Clerk			
8			M	Monitor			
9			S	Mechanic			
10			S	Driver			
11			S	Warehouseman			
12			S	Guard			
13			S	Attendent			

(ARS-03, Parwan)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-48	Mohammad Dawood	P	ARS Officer	BS	2 yrs	yes
2			P	Asst. ARS Officer			
3	V-141	Sher Ali	P	Sr. Technician	BS	19 mos	yes
4	V-37	Mohammad Akbar	P	Sr. Technician	12	2 yrs	yes
5			P	Jr. Technician			
6	V-143	Mohammad Halim	P	Jr. Technician	BS	19 mos	yes
7	V-130	Mohammad Rafiq	P	Admin./Clerk	12	18 mos	yes
8			M	Monitor			
9			S	Mechanic			
10			S	Driver			
11			S	Warehouseman			
12			S	Guard			
13			S	Attendent			

(ARS-04, Wardak)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-28	Mohammad Jan Mayar	P	ARS Officer	MS	3 yrs	-
2	V-57	Ghulam Hussain	P	Asst. ARS Officer	12, AIT	30 mos	yes
3	V-128	Amir Jan	P	Sr. Technician	14	2 yrs	yes
4	V-142	S. Mohammad Yusuf	P	Sr. Technician	12	16 mos	yes
5	V-131	Sher Mohammad	P	Jr. Technician	12, AIT	18 mos	yes
6	V-177	Najibullah	P	Jr. Technician	BS, PolyT	14 mos	yes
7	V-110	Abdul Samad	P	Admin./Clerk	12	18 mos	-
8	V-284	Mohammad Nasir	M	Monitor	-		
9		S	Me	2-Apr			
10	V-94	Samar Gul	S	Driver	12, AIT	30 mos	yes
11	V-153	Gul Rahman	S	Warehouseman	-		
12		Abdul Samud	S	Guard	12	18 mos	-
13		Asmatullah	S	Attendant			

(ARS-05, Logar)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-16	Razqul	P	ARS Officer	12, AIT	30 mos, RDD	-
2	V-59	Mohammad Elyas	P	Asst. ARS Officer	BS, PolyT	30 mos	
3	V-103	Abdul Qayum	P	Sr. Technician	BS	17 mos	
4	V-187	Mohammad Dawood	P	Sr. Technician	BS	Field Eng.	yes
5	V-185	Mehrabuddin	P	Jr. Technician	BS	Private work, Peshawar	yes
6	V-366	Abdul Samai	P	Jr. Technician	BS	Field Eng.	yes
7	V-186	Abdul Hai	P	Admin./Clerk	14	Admin, Tanzim	-
8	V-344	Naqiburahman	M	Monitor	-	6 mos	-
9	V-346	Zar Gul	S	Mechanic	-	Workshop	-
10	V-107	Mohammad Nawab	S	Driver	-	Logar	yes
11	V-106	Mula Mehrab	S	Warehouseman	-		
12	V-183	Gulam Rabani	S	Guard	-		
13	V-345	Ali Ahmad	S	Attendent	-		

(ARS-06 Ghazni)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-19	Mohammad Halim	P	ARS Officer	BS	30 mos	
2	V-42	Bahlool Nasrat	P	Asst. ARS Officer	BS Civil	2 yrs	
3	V-119	Mohammad Arif	P	Sr. Technician	BS Civil	17 mos	
4	V-166	Mohammad Zahir	P	Sr. Technician	BS	2 yrs	yes
5	V-191	Omar Gul	P	Jr. Technician	12	1 yr	yes
6	V-287	Sohbat Khan	P	Jr. Technician	BS Civil	9 mos	yes
7	V-175	Mohammad Ibrahim	P	Admin./Clerk	12	17 mos	-
8			M	Monitor			
9			S	Mechanic			
10	V-98	Khan Sahib	S	Driver	-	2 yrs	yes
11	V-374	Abdul Karim	S	Warehouseman	-		
12	V-199	Ahmad Shah	S	Guard	-		
13	V-357	Abdul Hai	S	Attendent	-	1 yr	yes

(ARS 37, Paktia)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V61	Ghulam Sakhi	P	ARS Officer	BS	2 yrs	-
2	V207	Dost Mohammad	P	Asst. ARS Officer	BS	18 mos	yes
3	V93	Gharsa Gul	P	Sr. Technician	BS	2 yrs	yes
4	V347	Najibullah	P	Sr. Technician			
5	V82	Mohammad Tawoos	P	Jr. Technician			
6	V262	Mohammad Nadir	P	Jr. Technician	12	5 mos	-
7	V361	Mohammad Dawood	P	Admin./Clerk	-	6 mos	-
8			M	Monitor			
9	V101	Mohammad Osman	S	Mechanic			
10	V206	Sher Aqa	S	Driver	8	15 mos	-
11	V54	Sher Aqa	S	Warehouseman			
12	V173	Main Gul	S	Guard	8	18 mos	-
13			S	Attendent			

(ARS-10, Kunar)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-27	Mohammad Nur Shakir	P	ARS Officer	BS Eng	3 yrs	yes
2	V-12	Said Farooq	P	Asst. ARS Officer	12, AIT		-
3	V-240	Sher Alam	P	Sr. Technician	12, AIT		-
4	V-232	Mohammad Massom	P	Sr. Technician	BS	2 yrs	-
5	V-250	Naqibullah	P	Jr. Technician	12	2 yrs	yes
6	V-234	Fazal Mohammad	P	Jr. Technician	12	2 yrs	yes
7	V-236	Fazal Elahi	P	Admin./Clerk	12, AIT	2 yrs	-
8		Abdul Malik	M	Monitor			
9			S	Mechanic			
10	V-391	Abdul Ghafoor	S	Driver	-	1 yr	-
11		Assadullah	S	Warehouseman			
12	V-392	Malikudin	S	Guard	-	1 yr	-
13			S	Attendent			

(ARS-12, Takhar)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-45	Eng. Zakria	P	ARS Officer	BS, PloyT	3 yrs	yes
2	V-259	Eng. Amanullah	P	Asst. ARS Officer	Cartography	1 yr	-
3	V-50	Zarar Ahmad	P	Sr. Technician	BS, PolyT	30 mos	-
4		Mohammadullah	P	Sr. Technician	14, PolyT	8 mos	-
5	V-160	Mohammad Zaher	P	Jr. Technician	BS	17 mos	yes
6	V-168	Rohullah	P	Jr. Technician	14	17 mos	yes
7	V-402	Abdul Wakil	P	Admin./Clerk	12	2 mos	-
8			M	Monitor			
9		Abdullah	S	Mechanic	-	6 mos	-
10	V-230	Shukrullah	S	Driver	-	2 yrs	yes
11	V-60	Abdul Qayum	S	Warehouseman	-		
12			S	Guard			
13			S	Attendent			

(ARS-13, Baghlan)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-43	Mohammad Ashraf	P	ARS Officer		19 mos	
2			P	Asst. ARS Officer			
3			P	Sr. Technician			
4	V-258	Bostan Ali	P	Sr. Technician	BS	1 yr	
5	V-285	Mohammad Rahim	P	Jr. Technician	15, Eng	1 yr	
6		Mohammad Osman	P	Jr. Technician			
7			P	Admin./Clerk			
8			M	Monitor			
9			S	Mechanic			
10			S	Driver			
11			S	Warehouseman			
12			S	Guard			
13			S	Attendent			

(ARS-23, Helmand)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1			P	ARS Officer			
2			P	Asst. ARS Officer			
3	V-373	Mohammad Tahar	P	Sr. Technician	12	2 yrs	-
4	V-386	Mohammad Dawood	P	Sr. Technician (S/O A. Ghani)			
5			P	Jr. Technician			
6	V-387	Mohammad Din	P	Jr. Technician			
7			P	Admin./Clerk			
8		Mohammad Hasim	M	Monitor			
9			S	Mechanic			
10			S	Driver			
11			S	Warehouseman			
12			S	Guard			
13			S	Attendent			

(ARS-24, Kandahar)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-66	Gul Umar	P	ARS Officer	12	30 mos	-
2	V-34	Mohammad Masoom	P	Asst. ARS Officer	BS	8 mos	yes
3	V-201	Faiz Mohammad	P	Sr. Technician	BS	1 yr	yes
4	V-176	Abdul Waris	P	Sr. Technician	12	1 yr	yes
5	V-178	Dost Mohammad	P	Jr. Technician	BS	1 yr	yes
6	V-292	Abdul Rahman	P	Jr. Technician	12	6 mos	yes
7			P	Admin./Clerk			
8			M	Monitor			
9			S	Mechanic			
10			S	Driver			
11	V-381	Mohammad Ismail	S	Warehouseman	-		
12	V-381	Saqi Jan	S	Guard	-		
13	V-330	Khan	S	Attendent	-		

(ARS-28, Bamyan)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1			P	ARS Officer			
2			P	Asst. ARS Officer			
3		Mohamnad Nader	P	Sr. Technician			
4			P	Sr. Technician			
5	V-318	AbdulJalil	P	Jr. Technician			
6			P	Jr. Technician			
7			P	Admin./Clerk			
8			M	Monitor			
9			S	Mechnaic			
10			S	Driver			
11			S	Warehouseman			
12			S	Guard			
13			S	Attendent			

(ARS-29, Paktika)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1	V-19	Janat Gul	P	ARS Officer	12, AIT	30 mos	yes
2	V-62	Mohammad Zaher	P	Asst. ARS Officer	12	3 yrs	-
3	V-38	Mohammad Asif	P	Sr. Technician	12	2 yrs	-
4	V-49	Khan Mohammad	P	Sr. Technician	BS	20 mos	-
5	V-144	Wafi-ullah	P	Jr. Technician			
6	V-174	Said Rahman	P	Jr. Technician	12	15 mos	-
7	V-170	Shah Walayat	P	Admin./Clerk	12	16 mos	
8			M	Monitor			
9		Mohammad Naim	S	Mechanic			
10		Mohammad Khan	S	Driver	-	1 yr	yes
11		Obidullah	S	Warehouseman			
12		M. Ayub (driller)	S	Guard			
13			S	Attendent			

RDD/VITA ARS EMPLOYEES
(ARS- ,)

* P = Professional, S = Support, M = Monitor

Dept. No.	VITA No.	Employee Name	*	Job Designation	Education / Training	Work Experience	Previous VITA Training
1			P	ARS Officer			
2			P	Asst. ARS Officer			
3			P	Sr. Technician			
4			P	Sr. Technician			
5			P	Jr. Technician			
6			P	Jr. Technician			
7			P	Admin./Clerk			
8			M	Monitor			
9			S	Mechnaic			
10			S	Driver			
11			S	Warehouseman			
12			S	Guard			
13			S	Attendent			

APPENDIX E

Field Forms

Subproject Monitoring
Technical Inspections

GENERAL DATA

ARS Nmbr/Name: _____ Subproj Nmbr: _____

Village: _____ District: _____

Subproject Type: Irrigation _____ Subtype: _____
Rds & Brdg _____

Start date: _____ Compl date: _____

Commander: _____ Tanzeem: _____

Budget: Cash: _____ Fertilizer: _____

Food: _____ Total (Rs): _____

Monitor: _____ Inspect Date: _____

PLANNING	Yes	No	Unk
Was a subproject request form completed?			
Was a feasibility study conducted?			
Was a subproject planning form completed?			
Was Form IR-1 or RB-1 completed?			
Was a Shura involved in planning/approval?			
Was there consensus among local authorities/community that this subproject should be accomplished before other requested projects that were not approved or deferred?			

IMPLEMENTATION	Yes	No	Unk
Have any unusual problems (technical or otherwise) been encountered in the construction of the subproject?			
Were timely measures taken to solve these problems?			

Describe any outstanding problems that have prevented or will prevent a successful outcome of the subproject.

274

OVERALL IMPACT		Yes	No	Unk
Upon completion of the construction work, will the subproject facility be fully functional?				
In your opinion, will the subproject have a significant impact on agricultural production?				
Has there been an adverse social impact? If so, explain.				
Does the information appearing on Form IR-1 or RB-1 seem to be approximately correct, with regard to benefits that will be provided by the subproject:				
IR-1:	Total farm families served?			
	Workers employed?			
	Crops irrigated?			
	Total jeribs irrigated?			
RB-1:	Towns connected?			
	Workers employed?			
	Jeribs cultivated within road influence area?			
	Total families within road influence area?			

COMMUNITY PARTICIPATION	Yes	No	Unk
Have there been any problems in recruiting workers?			
Did community members request the subproject?			
Have any labor or materials been contributed.			
Has the community provided project staff with any other assistance (e.g., security)?			

LABOR PAYMENTS	Yes	No	Unk
Are payments made directly to workers by ARR staff?			
Are the workers actually receiving full payments, whether in cash, food or fertilizer?			

فورمهٔ تفتیش پروژه های عمران دهات

RURAL WORKS INSPECTION FORM

Date Inspected	: _____	:	تاریخ تفتیش
Inspected By	: _____	:	تفتیش کننده گان
	_____		
	_____		
Project Name	: _____	:	اسم پروژه
Project Number	: _____	:	نمبر پروژه
Date Project Surveyed	: _____	:	تاریخ سروی پروژه
Date Project Implementation Started	: _____	:	تاریخ شروع کار پروژه
Objective of Inspection	: _____	:	هدف از تفتیش

Project Status: وضع فعلی پروژه :

A. Percentage Completed	: _____ %	:	فیصد کار اکمال شده
B. Work Stopped & Reason'	: _____	:	توقف کار و علت آن

Labour On Site: کارگران در ساحه :

A. Skill	: _____	:	الف . کیفیه کار
B. Unskill	: _____	:	ب . مزدور کار
Material & Equipment on Site	: _____	:	مواد و سامان موجود در ساحه
Construction Progress	: _____	:	پیشرفت کار ساختمان
Construction Problem	: _____	:	مشکلات ساختمانی

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216

Comments : _____ نظـــــریات

	Descriptions	تفصیـــــــلات	Rating نمـــبر	Remark ملاحظات
01	Source Reliability	منبـــع مـــؤثق (مؤثقیت منبـــع)		
02	System Design	سیستـــم دیزائن		
03	System Management	سیستم اداره‌وي پروژه		
04	System Operation	سیســـتم جریان کار		
05	System New Development	سیستـــم انکشاف کار جدید		
06	System Foundation	سیستـــم تهداب‌گذاري		
07	System maintenance	سیستـــم حفظ و مراقبت		
08	System other Installation	سیستـــم تـــاسیسات دیگر		
09	Other Social Characteristics	ســـایر خصوصـــیات اجتماعی		
10	Other Comment	دیگر نظریـــات		

Rating Grades:

Excellent = 4
Good = 3
Fair = 2
Bad = 1

درجات نمبر :

عـــالی ٤
خوب ٣
مناسب ٢
خراب ١

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APPENDIX F

STATEMENT OF WORK

Subcontract for Feasibility Study

Development of an Afghan Entity
for
Rehabilitation of Rural Infrastructure

STATEMENT OF WORK

Subcontract for Feasibility Study

Development of an Afghan Entity
for
Rehabilitation of Rural Infrastructure

Background

On March 15, 1990 the Agency for International Development (A.I.D.) and Volunteers in Technical Assistance (VITA) entered into a Cooperative Agreement for implementation of the Agriculture & Rural Rehabilitation (ARR) project for Afghanistan. The Agreement provides funds for VITA to undertake, for a period of two years, the rehabilitation of rural infrastructure inside Afghanistan. All activities are in direct support of agricultural production, and are generally labor-intensive, generating employment opportunities for returning refugees.

One of the objectives of the Cooperative Agreement is to examine the possibility of establishing an independent, sustainable, Afghan-managed rural-works entity that would continue the ARR work in Afghanistan, thus playing a significant role in the long-term reconstruction and development efforts that will be required.

VITA has gained considerable experience with the rehabilitation of rural infrastructure inside Afghanistan. Under a three-year contract immediately preceding the above Cooperative Agreement, a headquarters office was established in Peshawar, Pakistan, a sub-office in Quetta, Pakistan and 16 field offices (known as Agriculture Rehabilitation Schemes--ARSs) in Afghanistan. These offices work closely with local authorities to organize the repair and rehabilitation of irrigation systems, rural roads, bridges and other small-scale improvements. An annual process of subproject planning and implementation was established, which with certain refinements continues into the present Cooperative Agreement:

- requests for subprojects are submitted to ARR local offices through local councils, political parties or military commanders,

- ARR personnel examine the requested subprojects for technical feasibility and socio-economic benefits, using standardized survey instruments,

- in cooperation with local authorities, subprojects are ranked in priority order and scheduled for surveys, design and field implementation,

- engineering surveys are conducted, followed by the preparation of designs and cost estimates. Most designs are prepared by ARR headquarters, however, designs may be very simple for some subprojects or omitted entirely),

- ARR headquarters reviews subproject feasibility and beneficiary data and allocates available funds for construction,

- laborers are recruited and mobilized by ARR staff working with local authorities. Equipment is mobilized and tools and construction materials procured (sometimes from as far as Pakistan),

- subprojects are constructed under ARR supervision, each requiring a period of two to three months. Although some machinery is being used in the interests of construction quality, most of the work remains labor-intensive.

To date, payment for labor has been in cash at a current rate of Rs. 50 for an eight-hour day. Food-for-work payments may be employed for the first time during the current year in food-deficient areas.

As of March 31, 1990 work under the earlier contract had included rehabilitation of 1124 irrigation karezes and surface canals. An additional 1298 karezes and canals were in progress, scheduled for completion under the new Cooperative Agreement. A total of seven roads was constructed or rehabilitated, with an average length of 47 kilometers. This was in addition to a 131-kilometer road that was completed in Paktya province. These accomplishments represent only a small percentage of the actual demand for small-scale rural works inside Afghanistan. In 1989 alone, the project received 13,584 requests for assistance.

Project activities are directed by a prominent Afghan engineer, the former president of Afghanistan's pre-war Rural Development Department of the Prime Ministry. His staff currently includes 222 Afghan citizens, one Afghan-American citizen and three non-Afghan expatriates.

Feasibility Study

The magnitude of infrastructure rehabilitation needs in Afghanistan far surpasses the resources of any one donor. Together, A.I.D. and VITA have established an ongoing program, led and staffed by Afghans, with the potential to evolve into an Afghan entity capable of broadening its funding base and expanding its impact on rural infrastructure over the longer term.

Accordingly, VITA will engage a subcontractor who will conduct an assessment of the feasibility of establishing the ARR organization as an independent, Afghan-managed entity capable of implementing rural infrastructure rehabilitation, as well as attracting financial and other resources from bilateral and multilateral donors.

The subcontractor will be responsible for providing a team of consultants to conduct the feasibility study in Pakistan and, if possible, inside Afghanistan. The team, to be proposed by the subcontractor, will include expertise in fields such as civil engineering and rural sociology. One team member must be qualified to deal with legal issues, as registration and basing of the entity are likely to be study issues. Up to six person-months of field consultancy will be provided for the study during the months of July and August 1990.

With VITA's support, the consultants will prepare the study report in draft in Peshawar. VITA and A.I.D. will review and comment on the draft, and the final report will be revised and published in the subcontractor's home office.

Consultants will be nominated for VITA and A.I.D. approval prior to their mobilization. Only senior personnel with appropriate experience will be considered for this assignment. Appropriate experience would include one or more of the following:

- several years posting as an Afghan government official at the level of deputy minister or above,
- service in Afghanistan as a senior advisor for a development project that was implemented by a government ministry or parastatal,
- related foreign service with a development agency,
- senior-level position with an organization engaging in international development,
- participation in the conduct of feasibility studies of the type contemplated herein,
- experience in establishing an organization in a developing country.

Content of Feasibility Study

a. The feasibility study shall include, but not be limited to, investigations, in-depth analyses and discussions of:

    - any traditional, political legal or cultural constraints that might influence the effectiveness of an entity of the type contemplated,

- earlier precedents for the involvement of indigenous, non-governmental entities in Afghanistan's public sector, including parastatals,

- possible relationships, if any, that the organization might have with a future government of Afghanistan, and the effect that such relationships would have on its independence,

- the desirability of registering the entity with various donor agencies,

- the possible need for a sponsoring organization, such as a recognized foundation,

- the rationale behind and anticipated effects to be achieved by adoption of the various recommendations to be presented with the study (see below).

b. The feasibility study shall also incorporate recommendations designed to assist with the early establishment of the entity. As a minimum, recommendations will be presented with regard to the following:

- a plan for legal establishment of the organization,

- a proposed organizational staffing pattern,

- a proposed recruitment scheme (including compensation packages) for a governing board, chief executive officer and other key managerial and technical personnel (the possible need for and advisability of including expatriate personnel, Afghan or non-Afghan, should be discussed),

- a proposed plan for developing within the organization the managerial and technical skills necessary to plan and implement subprojects and to assure financial responsibility,

- A time-schedule of activities required for the orderly transfer of responsibilities from ARR to the entity, during the remaining months of the Cooperative Agreement. It is currently estimated that this transfer could be accomplished during the final six months of the Agreement, or sooner,

- A plan for obtaining funds from sources other than A.I.D. The plan should identify possible sources of funding for general support and for program funds.

c. Finally, a projection of entity financial requirements shall be presented covering the three-year period after termination of funding for the present A.I.D./VITA Cooperative Agreement.