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TIPAN QUARTERLY REPORT 87 - I

1 January - 31 March 1987

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Northwest Frontier Province
Agricultural University
Peshawar, NWFP, Pakistan

and

the U.S. Agency for International Development
Mission to Pakistan

A Report of Contract 391-0488-C-00-5001-00
The Transformation and Integration of the Provincial
Agricultural Network (TIPAN) Project

by

Office of International Agriculture
University of Illinois at Urbana-Champaign
Southern Illinois University at Carbondale

April 1, 1987

QUARTERLY HIGHLIGHTS

TIPAN FIELD REPORT

1. Official action was taken by the NWFP government to merge the provincial crops and livestock production research with the Governor signing "The Northwest Frontier Province Agricultural Research System (Handing Over) Ordinance, 1986" Act on 18 March 1987. The Act was passed by the Provincial Assembly on 12 February 1987 and was published in the Government Gazette on 19 March 1987.
2. The research program was further institutionalized through two major activities during the quarter.
 - a. The Kharif Research Review was held, completing a year of review of research programs under the new procedures.
 - b. Implementation of the Research/Outreach Station Uplift Program was initiated. This program is designed to bring about major improvement in Station capabilities and Research/Outreach programs.
3. Mr. Abdul Rauf Khattak was appointed NWFP AU Director of Outreach. Mr. Khattak was available for full time service prior to the end of the quarter following completion of service as Director of the Sugar Crops Research Institute at Mardan. With this appointment the three functional directorate leadership parts have been filled.
4. The first Outreach Planning Workshop was held 2-4 March with over 90 persons participating. A wide range of provincial and national agricultural organizations and projects were represented. Activities continued with the Integrated Village Research and Demonstration Program and the Kharif Research Review.
5. Teaching progress continues on three years of the new B.Sc. curriculum and developing specialization of courses for the fourth year to begin in September 1987. Textbooks for the fourth year courses were selected and requested to be ordered. Educational films and videotapes are being received and have been enthusiastically received by faculty and students. Three typing classes were organized to improve secretariat support capabilities and faculty with microcomputers.
6. Three faculty members began advanced degree training in the U.S. bringing the total in degree training to 33. Applications for 12 persons were submitted to U.S. universities for Fall 1987 admission.
7. Three persons began short technical (non-degree) training, one each at California State University/Fresno, CIMMYT, and the Biological Nitrogen Fixation Research Center in Bangkok. Twenty-five faculty members had completed non-degree training by the end of the quarter. Plans were completed for a special training programs in the U.S. for eight research/outreach station directors.

8. Three English language training classes were conducted to prepare faculty members for participant training. Three TOEFL tests were taken by 56, 55 and 46 persons, respectively. Thirteen persons took GRE exams.
9. Commodities (equipment and supplies) continue to arrive and the delivery system continues to improve. A comprehensive document on commodity procurement was drafted. The commodities ordering and receiving office at NWFP AU is now operated with AU personnel.
10. Mr. James Snyder, Architect, Skidmore, Owings and Merrill, established an office at the University preparatory to the Phase I construction program expected to get underway in the next quarter.
11. Short-term staff and administrative and executive visitors served to both complement and supplement the efforts of the resident TIPAN team as follows:
 - Dr. William N. Thompson, Professor of International Agriculture, University of Illinois and TIPAN Senior Project Adviser, Monitoring and Evaluation
 - Dr. Andrew J. Sofranko, Professor of Rural Sociology, University of Illinois, Rural Social Sciences
 - Dr. Emerson D. Nafziger, Associate Professor of Agronomy, University of Illinois, Weed Science/Agronomy
 - Dr. Herbert L. Portz, Professor of Agronomy, Southern Illinois University, Forage Production
 - Mr. Thomas A. McCowen, Associate Director, Office of International Agriculture and TIPAN Campus Coordinator, Administrative Visitor
 - Dr. John R. Campbell, Dean, College of Agriculture, University of Illinois, Executive Visitor
 - Dr. James A. Tweedy, Dean, School of Agriculture, Southern Illinois University, Executive Visitor

FIELD OPERATIONS

Introduction

For nearly two years, the quarterly reports for the TIPAN Project have reflected the resident team members' efforts to deal with many facets of institution building of the NWFP Agricultural University. This general approach was essential in the beginning of a project as comprehensive as TIPAN.

Several recent significant events have modified the agenda for the institution building process of the NWFP Agricultural University. On 6 November 1986, the Provincial Governor issued "The Northwest Frontier Provincial Agricultural Research System (Handing Over) Ordinance, 1986". This ordinance became an Act as it was passed by the Provincial Assembly on 12 February 1987. The act was signed by the Provincial Governor on 18 March 1987 and was published in the Government Gazette on 19 March 1987. As the quarter ended, only the notification of the "appointed day" for handing over of the Agricultural Research System to the University remained to be done. With the formal merger of the off-campus Research/Outreach System and the Peshawar-based NWFP Agricultural University now virtually complete, the TIPAN Team, working closely with the administration of NWFP Agricultural University, can establish a new agenda in the institution building process.

While the old agenda was, by necessity, very broad the new agenda should combine many of the broad aspects of the old agenda, with the intensity and attention to detail necessary for establishment of a modern top-ranked agricultural university.

Approximately one fourth of the life of the total project has now elapsed and with the uncertainty of merger now removed, it is a time for an introspective review, undertaking a detailed examination of the current, merged University. Such an examination was being initiated as the quarter ended, and included the implementation of a detailed planning exercise in which duties associated with positions, the functions of administrative units, the identification of needed changes, and standards of excellence are clearly being brought into focus.

INDIVIDUAL TEAM REPORTS

Interim Team Leader Report - Raymond G. Cragle

Institutional Changes and Organizational Restructuring (1) *

Mr. Abdul Rauf Khattak, former Director of the Sugar Crops Research Institute, Mardan, was appointed to the position of Director of Outreach. Mr. Khattak was chosen for the position through an advertising and open selection process.

The process of merging the activities of long-term team members into the University processes began in January. This began with weekly conferences of team members and their counterparts and by the end of the quarter, these meetings had evolved into a weekly staff meeting of one hour duration, which will be known as the Thursday Morning Staff Meeting. The Thursday Morning Staff Meeting will convene for the first time on 9

*Number in parenthesis after section titles refer to the line with the same title in TIPAN Project Work Plan 6.

April and will include the Vice Chancellor, Pro Vice Chancellor, Deans, Directors, (including Finance and Works), USAID Project Officer, SOM Architect, and TIPAN team members.

Master Work Plan (2)

The master work plan was revised and updated through December 1987.

Monitoring and Evaluation (3)

Dr. William N. Thompson, TIPAN Senior Project Advisor, served as consultant in project monitoring and evaluation from 9 February to 9 March at the NWFP Agricultural University. The purposes of the consultancy were to assist the NWFP AU administration and TIPAN team in developing a monitoring and evaluation system and in preparation for the Phase I formal evaluation scheduled for August/September 1987.

Short-Term Technical Assistance (5, 53)

The following short-term consultants and administrative and executive visitors were at the NWFP Agricultural University during the quarter:

Dr. William N. Thompson, Professor of International Agriculture, University of Illinois, and TIPAN Senior Project Advisor, 9 February thru 9 March to assist in developing a university evaluation and monitoring system and in preparing for the upcoming Phase I formal evaluation. (See TIPAN Report C14).

Dr. A. J. Sofranko, Professor of Rural Sociology, University of Illinois, Rural Social Sciences, 16 February thru 9 March, for the purpose of supervising the Ph.D. dissertation for a TIPAN participant trainee, and to assess the research and teaching being conducted in the Rural Social Sciences at NWFP Agricultural University. (See TIPAN Report C12).

Dr. Emerson D. Nafziger, Associate Professor of Agronomy, University of Illinois, Weed Science/Agronomy Specialist, 9 February thru 9 March, for the purpose studying weed threats in NWFP and making recommendations for the control of these threats. (See TIPAN Report C13).

Dr. Herbert L. Portz, Professor of Agronomy, Southern Illinois University, Forage Production Specialist, 9 March thru 6 April, for the purpose of assessing constraints to forage production and planning forage research and teaching programs at the NWFP AU and its research stations. Dr. Portz worked with both the agronomy and livestock groups. In addition he worked with the Director of Works on selecting turf grass species for playing fields and campus grounds. (See TIPAN Report C15).

Mr. Thomas A. McCowen, Associate Director, Office of International Agriculture, University of Illinois, TIPAN Campus Coordinator, 23 February thru 9 March, for the purpose of reviewing the progress being made through the TIPAN Project in institution building at NWFPAgricultural University. (See TIPAN Report A1).

Dr. John R. Campbell, Dean, College of Agriculture, University of Illinois, 16 thru 26 March, executive visit for the purpose of developing recommendations for the more effective use of institutional resources in the development of NWFPAgricultural University.

Dr. James A. Tweedy, Dean, School of Agriculture, Southern Illinois University, 16 thru 26 March, executive visit for the purpose of developing recommendations for the more effective use of institutional resources in the development of NWFPAgricultural University.

Implementation (7)

A major Uplift Program for the Research/Outreach Stations was initiated during the quarter (see Station Development and Management report). The Uplift Program is comprehensive, including office renovation, computers, typewriters and standby electrical capacity. It also includes repair shop and vehicle maintenance schedules. Program reform includes many activities in addition to physical changes, e.g., implementation of research/outreach seminars, preparation of research project proposals and strengthening library resources and procedures.

As the quarter ended, a special University committee was in the planning stage (for early appointment) for the purpose of compiling a comprehensive document on University programs and operations. The agenda for this committee will be to explore the many facets of the University including the 1981 University Act, the 1973 Civil Servants Act, the 1986 Merger Act, University organization, standards, values, leadership, goals, objectives, service, dedication of staff members, merit systems etc. Development of a University mission statement and policy/procedures operations manual will aid in implementation of the program outlined in the TIPAN Project Paper and in attaining the goal of a greatly strengthened agricultural university with its broadened mission of research and outreach as well as teaching.

Architectural and Engineering Coordination (8)

Bids for on-campus construction were opened during the quarter. Mr. James Snyder, Architect, Skidmore, Owings and Merrill, became a resident in Peshawar on 27 March and established an office at NWFPAgricultural University.

Commodity Procurement

1. Procurement procedures.

The commodities procurement and delivery system continues to improve. A comprehensive document on "Guide for the Purchase of Commodities under the ACE Equipment and Supplies Program, USAID, for NWFU Agricultural University under the TIPAN Project", has been written and is now being followed.

2. Staff improvements.

The commodities ordering and receiving office is now operated with University personnel. For nearly one year Mr. Ikram Ullah Khalil has taken the major responsibility for receiving and distributing the equipment/supplies received. Mr. Mohammad Ayaz joined the commodities office this quarter working primarily on records and writing new orders. Both Mr. Ikram and Mr. Ayaz work within the University structure and cooperate with TIPAN team members.

3. Commodity arrivals.

Two lift crates were received on 14 February and two 20-foot sea freight containers numbers 10 & 11 on 2 March. On March 30, container number 12 arrived in good condition. None of these shipments had been opened and all were delivered without damage. Several items listed for earlier shipments were included. A section of the unused dairy barn was provided for a temporary storage and sorting warehouse for these commodities. Thirty-eight Zenith computers arrived during the quarter.

4. Vehicles

Thirteen vehicles were delivered over a three week period in January and February. Three were assigned to the campus, the other ten to various stations.

5. Teaching commodities.

The 4th year textbook orders were completed and submitted to UIUC. A special effort was made to limit textbooks to one per course and to supplement them with reference books.

The 22 educational films donated by the University of Illinois Film Center were received and all departments were notified of their availability for classroom use. Two films were shown by the Department of Soil Science and two others were shown to the English language class.

The availability of nine educational videotapes, received from the University of Illinois Film Center, was announced to departments. Two were shown by the Department of Horticulture and two were shown to the English language class. Interest in films and videotapes has been indicated by every department and they have requested more to be ordered.

An excellent set of nine teaching modules in agricultural economics using slide/tape technology was received from Dr. Scott Matulich, Washington State University. The first two modules were shown to faculty and students in the Department of Agricultural Economics. The response was highly favorable and plans were made to show them at the appropriate times in the classes.

The Journal of Plant Physiology collection from Dr. Doug Lathwell at Cornell University and the Journal of Animal Science and the Proceedings of Federation of American Societies of Experimental Biology collection from Dr. Upson Garrigus at the University of Illinois were offered to NWFP AU at no cost other than shipping. The Librarian and the concerned departments recommended acceptance of the offers.

Teaching Program - Martin V. Waananen

General

The interruptions to the teaching program in January and the subsequent closure of the University on 17 March indicate the continuing constraints to having a "normal" semester. They also illustrate the difficulty in developing meaningful calendars and time schedules for classes and examinations. At the end of the quarter, it was impossible to predict when the University will reopen.

Interruptions notwithstanding, the Agricultural University remains as one of the least disturbed universities. The dedication of the teaching staff and the motivation of the majority of the students, permitted a reasonable completion of the first semester. The 1st year students were able to complete the first semester even though they did not get started until 1 November 1986, one month later than the 2nd and 3rd year students. The second semester was started for the 2nd and 3rd year students but was interrupted after the first two weeks.

The Vice-Chancellor has taken advantage of the University closure by promoting faculty development programs. A series of seminars on improvement of teaching was initiated and faculty members were also urged to use the time for other development activities.

Teaching Directorate (9)

1. Classes were closed on 26 January for an indefinite period to protest the announcement that the Vice-Chancellor must retire because of his age. Classes were resumed in February and the first

semester was completed by increasing the number of lectures per week and by eliminating some of the course materials.

2. The University was again closed on 17 March after only a brief start on the second semester.
3. The transition to the semester system is now in the 3rd year. The June 1987 graduates will represent the last class under the conventional system, except for the graduate students. The June 1988 graduates will be from the new curriculum.
4. The internal examination system is working reasonably well. There are still some problems with exam preparation and grading, and with student cheating.

Curriculum Development (10)

1. All of the core courses have been offered through year three. Revisions are now planned for two core courses. Crop Production and Improvement will be divided into two 2-credit courses, and will no longer be team taught. Introduction to Plant Sciences will become two 2-credit courses to be taught by the agronomy and horticulture departments. Introduction to Rural Sociology is without a qualified teacher and may be dropped.
2. Planning and preparation for the 4th year specialization courses was done by each department. Sample course outlines were distributed to assist in that process.
3. Three groups of typing classes were scheduled for students and teachers who desire to learn typing and as an aid to computer use. Hourly classes were scheduled from 2:00 to 5:00 pm in the University Auditorium.

Faculty Development (11)

1. Six University of Illinois publications were reproduced and distributed to each faculty member to assist in improvement of instruction. These were:
 - Handbook for Teaching Assistants
 - Improving Your Lecturing
 - Effective Classroom Questioning
 - Improving Your Test Questions
 - Assigning Course Grades
 - Faculty Evaluation

A summary of a seminar presented at NWFP AU by Dr. William L. George, Director of Resident Instruction, University of Illinois College of Agriculture, was also distributed.

These publications will serve as topics for follow-up seminars.

2. The first of the teaching improvement seminars was "Preparing Instructional Objectives" presented by Dr. Martin Waananen, TIPAN Teaching Specialist. Dr. Shahid, Chairman, Department of Entomology, presented a seminar on "Effective Communication". He also presented and coordinated the third session which was on "Improving Your Lecturing". Two videotapes from the 1986 Teaching Workshop at Southern Illinois University were shown to illustrate how to improve lecturing.
3. Dr. Hanif Qazi planned and coordinated a half-day program on tissue culture. His program provided an excellent linkage for the University with other organizations.
4. Persons from the research stations who were on campus for English language training were also required to participate in the computer training program which gives them about 40 hours of introduction to computers.

Program for Women (12)

1. The women students are adjusting well to the campus. Special activities include film and video cassette viewing once a week. Two of the women have the responsibility for operating the equipment.

Development of Special Programs (13)

1. Film showings for students were organized and arrangements were made with the French Cultural Centre to obtain one feature film each week. The instability on campus, however, was such that no films were shown although several were scheduled and announced.

Purchase of Textbooks and Journals and Equipment (14)

See Commodity Procurement.

Evaluating Teaching Performance (15)

1. The plan to have student evaluation of instruction of all teachers did not materialize because of the interrupted semester schedule. The Director of Teaching now plans to do this at the end of the second semester. There is some concern that the evaluations will be used for purposes other than self-improvement.
2. Guidelines for a system of peer evaluation, being considered at the University of Illinois, were received in late March. These guidelines will be considered at NWFP AU with the possibility of adopting a peer evaluation system. The system would be used primarily for self-improvement.

New Student Programs (17)

1. The Khyber Soil Society was formally inaugurated in a well planned ceremony on 22 February. The primary goals of the society are professional and leadership development. The Society will help develop student support through an appeal to pride in their University and a desire for excellence.

Coordination of Research and Teaching Goals (18)

1. Regularly scheduled weekly meetings with the directors and TIPAN team members were initiated during the quarter to provide opportunities to coordinate teaching, research and outreach goals.
2. Graduate student research proposals are now being coordinated with the Research Program of the merged NWFP AU system.
3. The interaction between campus and off-campus faculty is increasing. This is facilitated through the English language classes which include both groups. Of the 67 persons enrolled in the Jan-March classes, 38 were from off-campus.

Design and Construction of AU Facilities (19)

1. The Communication Services Unit was moved from Room 8 to the former projection room in the Auditorium. The steep slope of the stairway will prohibit use of that room for items such as the TV, overhead projectors, and any large items.
2. The construction phase is about to begin and there is an evident sense of excitement and anticipation. Information related to the teaching program will be provided as needed.

Learning Resources Center (50)

Library

1. Numerous books are arriving at the Library. All books and journals are first sent to the Library for cataloging. Books designated for specific departments are then given on indefinite loan, upon request, to those departments.
2. The IDS librarian is using knowledge gained at the computer training course in Bangkok to computerize the IDS holdings. He then plans to assist with the larger job of cataloging in the main Library.
3. Attention is being given to developing a system of sharing books and other references with the libraries at the Research/Outreach Stations.

Computer Center

1. The arrival of 38 Zenith computers during the quarter makes possible major progress in computerization of various aspects of the teaching, research, and outreach programs and in University administration. The installation of ten computers expanded the capacity of the computer laboratory as a teaching facility. The other 28 that arrived at the end of the quarter will be installed according to the previously developed plan in the computer research laboratory, research stations, directors' offices, and library.
2. The persons who attended the computer training at the Asian Institute of Technology, Bangkok, as participant trainees are assisting in the teaching computer laboratory.

Participant Training (6, 51, 52)

1. Two persons have been accepted for Fall 1987 admission to graduate programs in the U.S. Fall semester applications have been submitted for ten participant nominees, and another 16 are at various stages in the process of meeting TOEFL and GRE requirements and assembling the credentials needed for submission of a completed application for graduate study.
2. One person completed a one-month training program in Bangkok on inoculum production. Another person is at CIMMYT, Mexico for a 6-month course in maize production.
3. Eight research station directors are scheduled for a three-month program in the U.S. from 15 May to 5 August. Five weeks will be a special program on research station management. This will be followed by enrollment in USDA courses on Management of Agricultural Research or Small Ruminant Production Techniques.
4. Progress on participant training implementation, when compared to the goals for Phase I set forth in the contract, can be presented in table format as follows:

Table A
Graduate Degree Training
Persons Enrolled and Months

Faculty/Unit	Degree			
	PhD*		MS	
	No.	Mos.	No.	Mos.
General Admin	1	36		
Plant Sciences	12	428	1	24
Eng. Applications & Food Tech	5	178		
Animal Husbandry	4	142	1	24
Rural Soc Sciences	3	96	3	71
Learning Resources			3	72
Total	25	880	8	191

*Contingent on academic performance of enrollees, some may be converted to M.S. degree programs.

Table B
Graduate Degree Training
Training Positions and Months Remaining*

Faculty/Unit	Degree			
	PhD		MS	
	No.	Mos.	No.	Mos.
General Admin	1	29	1	24
Plant Sciences	5	98	13	178
Eng. Applications & Food Tech	0	0	4	47
Animal Husbandry	2	0	7	122
Rural Soc Sciences	3	84	6	104
Learning Resources	1	36	5	111
Continuing Educ.	4	126	3	63
Total	16	373	39	649

*Positions and Months remaining calculated by subtracting "Persons Enrolled and Months" (Table A) from goals estimated for Phase I in contract

Table C

Nominees in Preparation for Degree Training

Faculty/Unit	Degree			
	PhD		MS	
	No.	Mos.	No.	Mos.
General Admin	1	36	1	24
Plant Sciences	20	720	-	-
Eng.Applications & Food Tech	3	108	1	24
Animal Husbandry	1	36	-	-
Rural Soc Sciences	-	-	1	24
Learning Resources	-	-	-	-
Continuing Educ.	-	-	-	-
Total	25	900	3	72

Table D

Non-Degree Short-Term Training Completed

Faculty/Unit	Participants	Months
General Admin	1	1
Plant Sciences	14	63
Eng. Applications & Food Tech	3	22
Animal Husbandry	2	9
Rural Soc Sciences	1	18
Learning Resources	4	39
Continuing Educ.	-	-
Total*	25	152

*Phase I goals in the contract are 188 months of short-term training for 46 participants

A review of the estimated graduate degree training in Phase I now suggests that the number of months allocated for training will not be adequate to cover the number of positions allocated, as well as the likely number of qualified applicants. This is becoming increasingly evident as we witness the fact that TIPAN participants cannot, because of deficiencies in their academic backgrounds, complete a Ph.D. program in 36 months. It also appears that there will be an excess of candidates in the plant sciences but a shortage in rural social science, learning resources, and continuing education.

Outreach Program - R. William Seiders

Outreach Directorate Development (20)

Outreach Staffing. Mr. Abdul Rauf Khattak has been appointed Director of Outreach of the NWFP Agricultural University with an effective starting date of 1 January 1987. Although still having major responsibilities as Director of the Sugar Crops Research Institute in Mardan during the first part of the quarter, he spent significant amounts of time working with the TIPAN Outreach Specialist. In February, a new Director of the Mardan station was named, thus allowing Mr. Khattak to work full-time with the Outreach Program.

Efforts are being made to establish an effective working office for the Director of Outreach. Office support staff are being hired.

NWFP Department of Agriculture/Other Institutions Relationships (21)

Extension Wing. A visit was made to meet the new Director General of Extension, NWFP, Mr. Mehfooz Ali Shah. Contact will continue on a regular basis to discuss areas of cooperation.

A meeting was held with the Principal of the Agricultural Training Institute. The 1987 in-service training program of Agricultural Officers and Field Assistants was discussed.

Extension personnel participated in the 2-4 February Kharif Research Review Meeting, the 2-4 March Outreach Planning Workshop and the 23 February and 19 March Integrated Village Research and Demonstration Program (IVRDP) farming systems initiative in Mansehra.

Outreach Program Development (22)

Over 90 people participated in the first Outreach Planning Workshop held from 2-4 March, 1987. They represented Research/Outreach Station personnel, campus faculty, extension staff, CIMMYT/PARC, PARC/NARC, Crop Maximization/PARC, BARD/PARC, the Kalam Integrated Development Program (KIDP), MART/PARC, Agha Khan Rural Support Program, NWFP Fruits and Vegetables Development Board, the Nuclear Institute of Food and Agriculture (NIFA) and the Engineering University, Peshawar. The primary purpose of the workshop was to review the 1986 on-farm adaptive research and plan for the 1987 Kharif season. In addition, the event was used to begin to build an identifiable NWFP Agricultural University Outreach Program and a system to support it. During the workshop plans were presented for the IVRDP joint Extension/NWFP AU Farming Systems initiative in Mansehra.

A study has started to document all organizations and agencies in both the private and public sectors involved in agricultural technology generation and transfer in the NWFP. The first phase will be in the Peshawar/Mardan Valley region. Interviews are underway with personnel

from the Provincial Extension Service, the Tobacco Development Board, Cooperatives and selected sugar mills. The final report will be used to identify and strengthen existing linkages, encourage the development of new linkages, and help with decision-making in relation to NWFP AU Outreach Program operations, with particular regard to staffing.

Technology Development (23)

On-Farm Adaptive Research. Revised recommendations were made during the Outreach Planning Workshop based on the 1986 on-farm adaptive research work.

Integrated Village Research and Demonstration Program (24). To support the continuing development of the farming systems effort in the Mansehra area, four NWFP Agricultural University staff attended the MART-sponsored Farming Systems Workshop at the Water Management Training Institute in Lahore held from 8-19 February, 1987. As a follow-up, a planning meeting was held with the project steering work group at the Dhodial Station on 23 February.

A planning meeting for the workshop was held at Dhodial on 19 March. A training workshop was planned for 18-21 April at the Dhodial station in Mansehra to prepare an interdisciplinary team to do village diagnostic surveys, develop a work plan and begin activity in the field during the Kharif season. The four-day program includes one day of introduction to FSR methods, two days of field work interviewing farmers, and the last day synthesizing the findings and writing a detailed work plan for the Kharif season. The proposal, including the outline of the program and a budget, was submitted to the Member, Social Sciences, PARC on 25 March for funding under the MART Project.

Technology Transfer

Educational Publications/Media Production (25). A concept paper was written to describe how the Communication Services Unit will be organized and operated. The three major areas of staffing, space and equipment were discussed. In addition, to begin some activity immediately, a plan was written during the quarter to develop 35mm photography capabilities among University campus and off-campus personnel to begin to generate educational media.

A key to the further development of the Communications Services Unit will be the hiring of an administrative head. As a beginning step, a position description was written and is now being reviewed.

The TIPAN USAID Project Officer and the Outreach Program Specialist attended a meeting in Islamabad to discuss equipment with the MART/PARC Communications Specialists. Specifications were reviewed with the idea that TIPAN and MART orders are compatible.

the Outreach Program Specialist met with the Principal of Agricultural Training Institute (ATI) to discuss the in-service training program of extension Agricultural Officers and Field Assistants for 1987. Most of the trainers come from the NWFP AU system. There seems to be some reluctance on the part of the NWFP AU staff to cooperate. As part of the staff development and management program under the Director of Outreach, an opportunity exists to help personnel realize the importance of their role as trainers in the Outreach Program. Another important part is to help faculty and staff become better trainers by upgrading their teaching skills.

A survey of campus faculty and Research/Outreach Station staff will be made to determine the topics and specific skills they are willing to teach as part of the Outreach training/continuing education component. The survey questionnaire was drafted and is now being reviewed.

Outreach Evaluation (29)

During the quarter, the Outreach component of the TIPAN Quarterly Report 86-IV and two monthly activity reports were completed. Time was spent with Dr. William N. Thompson, TIPAN Senior Project Advisor, in preparation for the upcoming USAID evaluation.

Agricultural Extension and Communications Department Support (30)

The Outreach Program Specialist worked with Mr. Asmatullah Khan, participant trainee and graduate student at the University of Illinois, to strengthen the questionnaire that is being used to gather dissertation research data from farmers in Bannu District of NWFP.

Research Program - Raymond G. Cragle

Introduction (31, 32, 33)

The process for institutionalizing the research program and procedures has been discussed in the last three Quarterly Reports (86-II, 86-III, 86-IV).

1. The implementation of the Research/Outreach Station Uplift Program has become a process in inducing research/outreach program reform through expenditures for durable goods, renovations, and repairs (39). The TIPAN Project joined with the University to make a broad plan (60% Project funds and 40% NWFP funds) for the uplift of stations.

The two lead paragraphs of the Uplift Program implementation document capture the substance of the uplift plan:

"Justification for expenditures for durable goods, renovations, and repairs in the Research/Outreach System must be based on the premise that through the changes that will be brought about as a result of these

through the changes that will be brought about as a result of these expenditures, a greater amount of high-priority research information will be generated, and that this information will be made more available to potential users.

"If purchases of durable goods, and construction/repair of physical facilities/equipment are to be research/outreach led, then there should be a set of well-thought out plans that can be used as guides for purchases and renovations/repairs. These plans should be in the form of broad umbrella area (geographical) and sector (crops, animals, etc) research projects."

Day-long visits were made by Mr. Siddiq, Director of Research, Mr. Marion, the Station Specialist, and Dr. Cragle, the Research Program Specialist, to most Stations during the quarter to explain the Uplift Program in detail. Broad aspects of the Uplift Program were given in the paper "Policy Guide for the Operation of Research/Outreach Stations" (See Quarterly Report 86-IV, pages 16-17).

2. The Kharif (summer crops) Review was held 2-4 February 1987 on the Campus of NWFP Agricultural University. One annual cycle of reviews has now been completed under the new NWFP Agricultural University research format. The quality of research proposals submitted for the Kharif Review was considerably improved over those papers submitted for the Rabi (winter crops) Review held in September 1986.

Approximately 300 research projects have now been submitted under new protocols for the 1986 Rabi and 1987 Kharif meetings. All projects were submitted to peer review. Progress is being made, but standards are still quite low, and considerable improvement in quality is a primary goal.

Conclusions

The heavy reorganization and adjustment period for the merged research program is now nearly at an end. The problems in the immediate future are:

- A. The Research/Outreach Station Uplift Program will take another eight months of close interaction with off-campus station directors for implementation.
- B. Much work is needed to organize the research program within the office of the Director of Research. Research projects need to be given closer review and need to be organized into programs. On-campus research projects need to be funded.
- C. The budgeting process for research needs a thorough review and reform. The Director of Research is supportive of this step.

- D. Tighter quality standards need to be adopted and adhered to. The Director of Research concurs with this need.

Establishing an In-Service Evaluation and Training Program (34)

During the quarter, a group of 26 off-campus personnel completed an eight-week development program. The research aspect of this continuing program involves enrollment in a research/outreach seminar for which each student writes a paper/research proposal and presents an oral seminar report. Use of the University Library was required.

Select Research Personnel as Participants for Degree and Non-Degree Training (35)

Evaluation of researchers in the off-campus system, with regard to the research specialties needed by the Province, ability, and personal desire for degree and non-degree training, has not yet been completed, although progress is being made.

Assist in Developing and Implementing a System for Evaluating Research Performance (36)

Annual progress reports by staff members for activities in teaching, outreach, and research will be implemented beginning with the 1987-88 academic year.

Make Recommendations on the Selection of Research Equipment and Supplies (37, 39).

See Commodity Procurement.

Research Station Development and Management Specialist - Joseph H. Marion

Land Shaping and Irrigation Layout (41, 43)

Lining of the head ditch on the University Farm is continuing. The first test section is nearly completed to the first lateral. The laterals will be surveyed during next quarter. The redesign will allow the ditch to be 10 cm above the field level at the top of the field and 30 cm above at the low end. A drop will then be placed in the ditch and the next section prepared in the same manner. When the fields are re-leveled they will be matched to the drop structures in the lateral ditches.

Land Division and Utilization (42)

The five-acre area designated as a field laboratory for the Agriculture Mechanization Department has an assigned manager. A crop rotation plan has been developed with him which will provide fallow land for the use of soil engaging implements. There will be plantings of

forage, cereal, oil and other crops through the different seasons to provide experience each term for the students in cultivating, harvesting and processing. A forage field laboratory is being planted for the use of the Agronomy and Animal Science classes.

The Uplift Program for the Off-Campus Stations (44,45,46,47)

A complete round of the major Stations was made this quarter to explain the "Policy Guide" and to identify the deficiencies that are to be addressed in the Uplift Program. A budget of TIPAN and Provincial funds was prepared for each Station. A basic allowance was provided for each station plus an additional amount based on the number of professional staff assigned. This budget is to be used to meet the unique requirements of each station for items such as journals and reference books, laboratory and field equipment, tools, visual and audio aid equipment, and field plot equipment. In addition, all stations will be equipped with a standby generator, a basic weather station, shop tools, typewriter, copier, microcomputer, and overhead and slide projectors. A fuel storage and dispensing system will also be provided at stations. Certain equipment will be shared among stations and the University and pooled between neighboring stations. These items will be funded independently of the above budgets. Combined orders will be prepared from the lists provided by the stations.

Persons were identified at each station for special assignments including the farm manager, weather station attendant, statistical advisor, librarian, safety officer and seminar chairman. These assignments will be part time, except for the farm manager. Training programs will be provided by the University or other training institutes in or out of country. All stations were encouraged to upgrade their maintenance and repair capability by hiring a mechanic who is literate in Urdu.

In-Service Training (47)

A program has been arranged with the Farm Machinery Institute in Islamabad to give practical training to two graduates of the Agriculture Mechanization M.Sc. program. A training program for tractor drivers at Pirsabak and the University farm was planned for the last week of March but was postponed due to the heavy rains.

A & E Contractor (48)

Plans for planting grass on the playing fields were developed with the help of Dr. Portz during his TDY. The landscaping nurseries have been planted and benefited greatly from the heavy rains during the last two weeks of March. Three large boxes of building program blueprints arrived on March 19th from the SOM office in Karachi.

Agronomy Teaching (49)

Two specialists on TDY were on the Campus this quarter, Dr. Emerson Nafziger on weeds and Dr. Herbert Portz on forage crops, range and turf. Neither were assigned counterparts by the Agronomy Department, which had requested their assistance. Both took the initiative in organizing their agenda and goals and made a very effective contribution to the University as noted in their consultant reports.

PROJECT BACKSTOPPING

TIPAN Project Work Group (PWG)

The PWG met on 3 February and 12 March at Farina, Illinois. The February meeting featured a report from USAID Project Officer, Maurice Fleming. The March meeting concentrated on a briefing for executive visitors, John R. Campbell and James A. Tweedy. The ability to deliver planned human resources to support the institutional changes programmed for the NWFP Agricultural University in light of personnel constraints received considerable attention at both meetings.

Project Evaluation

At the February meeting Mr. Fleming reviewed plans to have a formal evaluation of the TIPAN Project. The Project Paper calls for two types of evaluations: (1) an on-going monitoring and internal review process and (2) a formal external review toward the end of each phase. He reviewed his efforts to obtain evaluations of his work as Project Officer as well as separate project and contract evaluations. The Mission has agreed to a simultaneous project and contract evaluation tentatively scheduled for June/July 1987. Mr. Fleming has drafted the terms of reference and scope of work for the evaluation and it is under review in USAID/Islamabad and AID/Washington. The evaluation team may visit UIUC/SIUC before departing for Pakistan. The opportunity for a followup visit after their field review was mentioned. Mr. Fleming gave assurances that UIUC/SIUC and the TIPAN field team will have opportunity to provide input to the evaluation team.

Project Staffing

A major change was made in the composition of the field team during the quarter. Dr. Raymond G. Cragle was named interim team leader on 15 March replacing Dr. Errol D. Rodda. Until a permanent team leader is named, Dr. Cragle will cover the Institution Development Specialist/Team Leader position as well as the Agricultural Research Program Specialist position, in which he has been serving since mid-1985.

Dr. Rodda remains in Bangkok, Thailand, where he was medically evacuated for retinal surgery. At the end of the quarter under report plans for his return to Peshawar following convalescence were indefinite.

The question of staffing strategy and team composition was reviewed in the field by the TIPAN Campus Coordinator, T.A. McCowen, during a brief visit in late February-early March. This visit grew from PWG discussions during the fall of 1986 that focussed increasingly on the concerns that field personnel ceilings, imposed in January 1986 for security reasons, seriously compromised the ability of the Contractor to attain Phase I goals. Mr. Fleming, during his February visit to UIUC, had indicated there was no prospect of the ceiling on personnel being lifted in the near future.

The major recommendations contained in Mr. McCowen's report (A1-March 1987) suggested:

1. Continuing the concentration of resident TA assignments on the institutional policy and structural adjustments necessary to carry out the expanded mission of the Agricultural University;
2. Reorienting the process by which TDY needs are identified and implemented to focus on addressing faculty (i.e., college) or other unit needs; and
3. Developing a stretched-out schedule of assignments of resident TA for Phases II and III.

A request for some form of relief from the personnel ceilings will be made.

Resident staff at Peshawar were asked to advise the Campus Coordinator by letter of their interest in extending tours or in serving second tours. These indications of interest will be reviewed by PWG and others prior to making recommendations for additional service.

Executive Visitors

John R. Campbell and James A. Tweedy, deans respectively of the UIUC College of Agriculture and the SIUC School of Agriculture, served as executive visitors to the project from 14-28 March. Upon their return they reported orally to each of their campuses and are collaborating on a joint written report. The deans report was balanced noting overall successes to date in addressing project goals, but highlighting areas in which increased effort should be applied. Meetings with senior USAID staff in Islamabad were cordial. The deans felt that the Mission Director and Office of Agriculture and Rural Development are supportive of the project. They felt that much of the progress that has been made over the past 20 months will become evident in the next two to three years. The new curriculum will be fully implemented; research planning, administration and implementation will be better coordinated; the technology delivery system of the Province will be strengthened through the research-extension linkage efforts of the outreach directorate; the return of faculty and staff from graduate and special training programs abroad, together with the more than 20 agricultural university faculty

who have already returned from training opportunities, will provide a critical mass from which innovative teaching and good science will emerge; and the evolving administrative structure of the "new" agricultural university will provide a more decentralized process of administration with greater delegation of responsibilities to directors and deans of faculties.

The problems of delegation were discussed in some detail. Certain functions of the Agricultural University, e.g., Finance, Works, are operating effectively under delegated authority, and the appointment of competent persons as Directors of Research and Outreach suggest that delegation in those areas will move ahead satisfactorily. It is in the more traditional areas of academic instruction and student relations that delegation has not been as well accepted. The Vice-Chancellor has made certain appointments, i.e., Director of Teaching and more recently the Dean of Students, but he is still regarded as the court of both first and last resort by faculty and students alike.

Copies of the executive visitors reports will be distributed during the following quarter.

Faculty Liaison Groups (FLG)

The Faculty Liaison Groups continue TIPAN support through a wide range of activities: assistance to the training officer in evaluating credentials of participant nominees and recommending appropriate training institutions; assisting NWFP Agricultural University faculty members in training and their preparations for in-country thesis study and assistance with TDY personnel who served during the quarter. The Chair of the Rural Social Sciences faculty liaison group, Dr. Andrew Sofranko, served a TDY as dissertation advisor to TIPAN participant Asmatullah Khan and as resource person to the faculty of rural social sciences.

Commodity Procurement

During the first quarter of 1987, the TIPAN Project Office, UIUC, received a draft commodity procurement guide that was prepared by Dr. Raymond Cagle, Research Program Specialist, NWFP AU TIPAN team. In it, all aspects of the procurement of commodities were delineated beginning with the requests initiated by the NWFP AU departments/units, through USAID authorization, purchase at UIUC, shipment to Peshawar and receipt/distribution at the NWFP AU. The TIPAN Project Office, UIUC, reviewed the document and offered suggestions for amendments and additions. The document was shared with Carter's Moving and Storage personnel, the Purchasing Division and the Office of Grants & Contracts, UIUC. Their input was also included in the response from the TIPAN Project Office, UIUC. This guide will act as an important resource to insure a clear understanding of all stages of commodity procurement for anyone who is involved.

The departmental lists of requested textbooks for the 4th year of the new curriculum (beginning fall 1987) were received at the end of this quarter. The requests are being organized on computer with detailed ordering information and requisitions will be issued.

Sea containers #10 and #11 were received at the NWFP AU in good condition with unbroken seals. Carter's Moving and Storage took extra steps in crating items and securing them on pallets, which were in turn nailed to the floor of the container. This procedure appears to have been effective in assuring that items arrive in Pakistan in the best possible condition.

Container #12, containing 28 Zenith computers for the university campus and research stations in the Province, was shipped during this quarter. It arrived at the end of the quarter and was reported to be received in good condition. Ten computers were shipped separately for the Teaching Laboratory.

Authorization was requested from the USAID Contracting Officer for permission to insure all commodities. This request was granted via telex with the stipulation that insurance cover 110 percent of the cost and freight value of the shipment.

PARTICIPANT TRAINING

Early this quarter, Academic Enrollment and Term Reports (AID Form 1380) were sent to the TIPAN Project Officer and the NWFP AU Vice-Chancellor. These provided detailed information on 1986 Fall Term performance and 1987 Spring Term plans for all participants enrolled in advanced-degree programs and long-term programs of study.

Fifty participant nominees were registered to take the 9 May 1987 International TOEFL. Registration forms were also processed for nine nominees who will take the 11 April 1987 GRE and an additional eleven to take the 6 June 1987 GRE.

One short-term training program was completed this quarter. Abdul Hamid attended a month-long course on Rhizobium Inoculant Production, which was conducted by NIFTAL and BNFRFC in Bangkok, Thailand, in March.

Much of the training officer's time during this quarter was spent in assembling credentials and submitting applications for Fall 1987 admission to advanced-degree study. The following is a summary of applications submitted.

<u>NAME</u>	<u>UNIVERSITY</u>	<u>DISCIPLINE</u>
Jan Baz Khan	Pennsylvania State	Rural Sociology
Gulzar Ahmad	Univ. of Idaho	Agronomy (Sugar Beets)
Nisar Ahmad	Univ. of Arkansas	Agric. Engineering
Hamidullah Jan	Univ. of Idaho	Plant Pathology
Kiramat Khan	Univ. of Nebraska	Agronomy (Maize)
Zuhar Dast Khan	New Mexico State	Soil Science
Arshad S. Malik	Univ. of Illinois	Educ. Administration
Ghulam Shabir Shah	Kansas State	Entomology
Khalida Shahnaz	Univ. of Illinois	Rural Sociology
Muhammad Zaman	Univ. of Arkansas	Entomology
Mustajab Khan	Louisiana State	Weed Science
Nasir Ud Din	Oklahoma State	Agronomy (Wheat)

Plans were finalized for a special tailor-made training program that will be conducted during the period 15 May to 4 August 1987 for a group of eight NWFP Research/Outreach Station Directors. Their program will include instruction on research and extension administration at UIUC, followed by field study in Texas and a short course on Agricultural Research Management in Washington, D.C., conducted by the U.S. Department of Agriculture. The directors expected to participate in this program are: Ghulam Hussain, Wheat Botanist, Summer Wheat Nursery, Kaghan; Allah Bakhsh Khan, Director, Agriculture Research Station, D.I. Khan; Allaud Din Khan, Director, Cereal Crops Research Institute, Pirsabak; Jamshed Khan, Director, Jaba Sheep Farm; Saifullah Khattak; Bashir Qureshi, Director, Livestock Research Farm, Surezai; Abdul Qadim Syed, Director, Agriculture Research Institute, Tarnab; and Abdul Wadood, Director, Agriculture Research Station, Karak.

Preliminary planning was completed for the 1987 workshops, which will be held during the break between the summer session and fall term. Dates have been set for 10-21 August and committees have been appointed to organize and implement the workshops. This year participants will be split into two groups of approximately equal size and workshops will be held at both SIUC and UIUC. The SIUC workshop will again concentrate on the topic of teaching skills and will build on the highly successful 1986 experience. Participants who started degree programs during the 1986/87 academic year, and thus were not in Carbondale in August of 1986, will be assigned to the SIUC/Teaching Skills Workshop. The workshop at UIUC will be on the topic of computer usage skills and will be attended by those participants who completed the SIUC teaching skills workshop last year. The computer skills workshop will, among other objectives, familiarize participants with equipment and software that they will use in the computer laboratory at NWFP AU and outlying stations.

PROJECT PERSONNEL

The following is a summary of TIPAN Project personnel from 1 November 1984 to date.

I. Home Office Personnel

A. Coordinating Office

1. Campus Coordinator - Thomas A. McCowen - 25% - 11/01/84-present
2. Senior Project Advisor - William N. Thompson - 45% - 11/01/84-present
3. Training Officer - John W. Santas - 25% - 11/01/84-present
4. TIPAN Secretary - Kimberly Oliver - 100% - 2/4/85-9/6/85
5. TIPAN Secretary - Beth McKown - 100% - 10/14/85-present
6. Accountant - Diana Glasgow - 15% - 2/28/86-present
7. Principal Representative - SIUC - Gilbert Kroening - 17% - 1/87-present
8. TIPAN Secretary - SIUC - Sheila Tate - 60% - 12/85-12/86; 50% - 1/87-present

B. Faculty Liaison Group Chairpersons

1. Engineering Applications & Food Technology - James O. Curtis - 8% - 2/21/85-8/31/85; 4/30/86-present
2. Learning Resources Center - John Behrens - 8% - 2/21/85-8/20/85
3. Learning Resources Center - Violet Malone - 8% - 8/21/85-present
4. Plant Sciences - James B. Sinclair - 8% - 2/21/85-8/31/85; 5/21/86-6/20/86*
5. Rural Social Sciences - Andrew J. Sofranko - 8% - 2/21/85-8/31/85; 5/21/86-6/20/86*
6. Animal Husbandry (also SIUC Principal Representative) - Howard H. Olson - 25% - 7/85-12/86

II. FIELD STAFF

A. Resident

1. Team Leader & Institution Development Specialist - Errol D. Rodda - 6/1/85-3/14/87; Institution Development Specialist - 3/15/87-present
2. Research Program Specialist - Raymond G. Cragie - 7/13/85-3/14/87; Interim Team Leader & Research Program Specialist - 3/15/87-present
3. Outreach Program Specialist - R. William Seiders - 6/21/85-present
4. Research Station Development Specialist - Joseph H. Marion - 9/30/85-present
5. Teaching Program Specialist - Martin V. Waananen - 8/11/85-present

B. Short-Term

1. Administrative Visit - William N. Thompson - 2/7/85-3/25/85
2. Institution Development - Errol D. Rodda - 3/15/85-4/5/85
3. Teaching Program - Martin V. Waananen - 4/16/85-5/8/85
4. Telecommunications - Lawrence P. Bontempo & Lynn D. Lafferty - 4/85
5. Rural Social Sciences - Frederick C. Fliegel - 11/9/85-12/3/85

6. Animal Husbandry - Howard H. Olson - 11/25/85-12/5/85
7. Participant Training - John Santas - 11/23/84-12/14/84;
11/15/85-12/3/85
8. Administrative Visit - Thomas McCowen - 11/24/84-12/14/84;
4/1/85-5/31/85; 1/4/86-2/3/86; 2/21/87-3/10/87
9. Microcomputing - Gary Johnson - 2/5/86-3/7/86
10. Microcomputing - Anthony Kerber - 2/8/86-10/31/86
11. Microcomputing - Zainul Azizan - 2/5/86-3/7/86
12. Improvement of Instruction and Horticulture - William George -
3/29/86-4/29/86
13. Livestock Facility Design - James Curtis - 3/29/86-4/29/86
14. Production Economist - Duane Erickson - 5/3/86-5/30/86
15. Agricultural Mechanization - Robert Wolff - 5/10/86-6/6/86
16. Administrative Visit - John J. Nicholaides - 9/18/86-9/25/86
17. Weed Control Specialist - Emerson Nafziger - 2/7/87-3/10/87
18. Monitoring and Evaluation - William N. Thompson - 2/7/87-
3/10/87
19. Rural Social Sciences - Andrew Sofranko - 2/14/87-3/10/87
20. Forage Production - Herbert Portz - 3/6/87-4/9/87
21. Executive Visit - John R. Campbell - 3/14/87-3/27/87
22. Executive Visit - James A. Tweedy - 3/14/87-3/27/87

* - FLG chairs on academic year (9 mo.) appointment. One month salary (8.25% on FTE basis) is paid in summer for work performed throughout the year.

EXPENDITURE REPORT

Line item expenditures for November 1, 1984 to December 31, 1985, quarterly for 1987, and total to March 31, 1987 are shown in Table 1. Table 2 shows line item expenditures reported for in-country needs March 1, 1985 to December 31, 1986, 1987 first quarter, and total to April 10, 1987.

TABLE 1
 TIPAN EXPENDITURE REPORTS
 NOVEMBER 1, 1984 THROUGH DECEMBER 31, 1986
 QUARTERLY 1987 AND TOTAL TO MARCH 31, 1987

	11/1/84 THRU 12/31/86	1ST QUARTER 1987 TOTAL	GRAND TOTAL THRU 3/31/87
I. SALARIES	649,951.07	106,051.33	756,002.40
II. FRINGE BENEFITS	80,272.36	14,237.13	94,509.49
III. INDIRECT COSTS	338,289.05	52,846.90	391,135.95
IV. TRAVEL & TRANSPORTATION	142,324.55	14,675.60	157,000.15
V. ALLOWANCES	125,224.24	24,936.00	150,160.24
VI. OTHER DIRECT COSTS	60,766.51	7,568.55	68,335.06
VII. TRAINING	761,735.10	175,295.50	937,030.60
VIII. EQUIPMENT ACE	891,649.85	73,142.00	964,791.85
IX. EQUIPMENT LOCAL	6,266.42	0.00	6,266.42
X. MISC TRAVEL EXP	0.00	0.00	0.00
XI. T O T A L	\$3,056,479.15	\$468,753.01	\$3,525,232.16

EXPENDITURE REPORT
TIFAN PROJECT
11/84 - 3/87

TABLE 1 - PAGE 2

	11/1/84 thru 12/30/86	1/87	2/87	3/87	TOTAL	CUMULATIVE THRU 3/87
1-5-25231						
I. SALARIES						
H.O. ACADEMIC	139,942.17	4,505.25	12,204.63	5,075.91	21,785.79	161,727.96
H.O. SUPPORT	46,329.56	2,070.96	1,406.96	1,411.46	4,889.38	51,218.94
II. FRINGE	14,040.21	534.83	1,419.72	523.12	2,477.67	16,517.88
III. INDIRECT COSTS	80,127.18	2,820.76	21,076.59	3,643.81	27,541.16	107,668.34
IV. TRAVEL						
US	16,610.45	456.66	1,339.67	3,019.99	4,816.32	21,426.77
INT'L	0.00	0.00	0.00	0.00	0.00	0.00
VI. OTHER DIRECT COSTS	35,300.39	1,772.57	3,519.35	2,035.11	7,327.03	42,627.42
IX. EQUIPMENT & SUPPLIES	3,151.94	0.00	0.00	0.00	0.00	3,151.94
XII. T O T A L	335,501.90	12,161.03	40,966.92	15,709.40	68,837.35	404,339.25
1-5-40319						
I. SALARIES						
F.S. LONG TERM	397,359.63	20,775.94	33,783.28	20,775.94	75,335.16	472,694.79
F.S. SHORT TERM	66,319.71	0.00	4,041.00	0.00	4,041.00	70,360.71
II. FRINGE BENEFITS	66,232.15	2,910.85	5,201.51	3,647.10	11,759.46	77,991.61
III. INDIRECT COSTS	224,477.64	8,559.09	9,331.66	7,279.44	25,170.19	249,647.83
IV. TRAVEL (UNIV EMPLOYEES)						
INTERNATIONAL 3111	74,010.47	0.00	8,559.00	0.00	8,559.00	82,569.47
FREIGHT 4540	40,911.99	0.00	0.00	0.00	0.00	40,911.98
STORAGE 4545	10,677.15	0.00	896.84	403.44	1,300.28	11,977.43
INT'L PER DIEM 3112	114.50	0.00	0.00	0.00	0.00	114.50
V. ALLOWANCES						
SUNDAY DIFF 4900	20,394.80	1,677.64	1,565.89	718.64	3,962.17	24,356.97
EDUC ALLOW/TRAV 4910	10,808.20	0.00	0.00	0.00	0.00	10,808.20
POST DIFF 4911	94,021.24	9,259.82	8,120.79	3,593.22	20,973.83	114,995.07
VI. OTHER DIRECT COSTS	23,443.39	31.64	9.88	200.00	241.52	23,684.91
STAFF PREP & SUPPORT 4292	2,022.73	0.00	0.00	0.00	0.00	2,022.73
IX. EQUIPMENT & SUPPLIES	3,114.48	0.00	0.00	0.00	0.00	3,114.48
XI. T O T A L	1,033,908.07	43,214.98	71,509.85	36,617.78	151,342.61	1,185,250.68

28

EXPENDITURE REPORT
TIPAN PROJECT
11/84 - 3/87

TABLE 1 - PAGE 3

	11/1/84 thru 12/30/86	1/87	2/87	3/87	TOTAL	CUMULATIVE THRU 3/87
1-5-40321						
MAINTANCE - 8100	330,782.07	18,521.00	21,828.50	20,666.00	61,015.50	391,797.57
THESIS - 8150	2,687.82	0.00	400.00	0.00	400.00	3,087.82
EQUIPMENT - 8151	5,593.14	842.92	53.98	0.00	896.90	6,490.04
TRAINING ALLOW - 8152	9,846.61	4,065.50	18,228.12	180.00	22,473.62	32,320.23
HEALTH INS - 8153	23,477.99	240.00	0.00	0.00	240.00	23,717.99
US TRAVEL - 8154	15,697.22	1,545.66	935.96	892.00	3,373.62	19,070.84
INT'L TRAVEL - 8155	7,711.19	0.00	5,038.00	0.00	5,038.00	12,749.19
TEXT BOOKS - 8156	26,390.00	45.00	315.00	255.00	615.00	27,005.00
BOOK MAILING - 8157	360.00	0.00	120.00	0.00	120.00	480.00
RESEARCH - 8158	11,731.34	331.10	4,638.31	485.97	5,455.38	17,186.72
TUITION & FEE - 8159	197,710.36	5,010.35	28,684.29	31,109.10	64,803.74	262,514.10
TYPING - 8190	1,307.68	477.92	136.00	0.00	613.92	1,921.60
VII. subtotal	633,295.42	31,079.45	80,378.16	53,588.07	165,045.68	798,341.10
III. INDIRECT COST	591.16	95.80	(137.39)	146.94	105.35	696.51
XI. T O T A L	633,886.58	31,175.25	80,240.77	53,735.01	165,151.03	799,037.61
1-5-40322 N.D						
NON ENROLLED						
MAINTENANCE - 4912	55,486.00	0.00	0.00	100.00	100.00	55,586.00
EQUIPMENT - 4913	2,523.44	0.00	0.00	0.00	0.00	2,523.44
TRAINING ALLOW - 4914	37,550.15	0.00	0.00	0.00	0.00	37,550.15
HEALTH INS - 4915	1,531.50	0.00	0.00	0.00	0.00	1,531.50
US TRAV - 4916	12,299.60	0.00	0.00	0.00	0.00	12,299.60
INT'L TRAV - 4917	88.49	0.00	0.00	0.00	0.00	88.49
TEXT BOOKS - 4918	760.00	0.00	0.00	0.00	0.00	760.00
BOOK MAILING - 4919	480.00	0.00	0.00	0.00	0.00	480.00
VII. non enrolled subtotal	110,719.18	0.00	0.00	100.00	100.00	110,819.18
ENROLLED						
MAINTANCE - 8100	6,830.00	1,605.00	2,020.00	1,345.00	4,970.00	11,800.00
THESIS - 8150	0.00	0.00	0.00	0.00	0.00	0.00
EQUIPMENT - 8151	0.00	421.76	0.00	0.00	421.76	421.76
TRAINING ALLOW - 8152	30.50	331.00	1,768.06	0.00	2,099.06	2,129.56
HEALTH INS - 8153	240.00	240.00	0.00	0.00	240.00	480.00
US TRAVEL - 8154	0.00	567.00	0.00	0.00	567.00	567.00
INT'L TRAVEL - 8155	0.00	0.00	0.00	0.00	0.00	0.00
TEXT BOOKS - 8156	780.00	0.00	50.00	0.00	50.00	830.00
BOOK MAILING - 8157	60.00	0.00	60.00	0.00	60.00	120.00
RESEARCH - 8158	0.00	0.00	0.00	0.00	0.00	0.00
TUITION & FEE - 8159	9,780.00	0.00	500.00	1,242.00	1,742.00	11,522.00
TYPING - 8190	0.00	0.00	0.00	0.00	0.00	0.00
VII. enrolled subtotal	17,720.50	3,164.76	4,398.06	2,587.00	10,149.82	27,870.32
III. INDIRECT COSTS	33,093.07	0.00	0.00	30.20	30.20	33,123.27
XI. T O T A L	161,532.75	3,164.76	4,398.06	2,717.20	10,280.02	171,812.77

EXPENDITURE REPORT
 TIPAN PROJECT
 11/84 - 3/87

TABLE 1- PAGE 4

1-5-25232 ACE	11/1/84 thru 12/30/86	1/87	2/87	3/87	TOTAL	CUMULATIVE THRU 3/87
VIII. LIBRARY SUPPLIES 2120	56,249.61	0.00	0.00	0.00	0.00	56,249.61
VIII. SHIPMENT 4540	58,953.45	636.23	21,894.86	7,684.05	30,215.14	87,168.59
VIII. EQUIPMENT & SUPPLIES	776,446.79	9,313.35	20,877.06	12,736.45	42,926.86	819,373.65
XI. T O T A L	891,649.85	9,949.58	42,771.92	20,420.50	73,142.00	964,791.85

TABLE 2
TIPAN LOCAL CURRENCY EXPENDITURE REPORT
MARCH 1, 1985 TO DECEMBER 31, 1986
MONTHLY FOR 1987 FIRST QUARTER
TOTAL TO APRIL 10, 1987

RUPEES	CUMULATIVE THRU 12/31/86	1/1/87 THRU 1/31/87	2/1/87 * THRU 2/28/87	3/1/87* THRU 3/20/87	3/21/87 THRU 4/10/87	TOTAL 1ST QUARTER 1987	CUMULATIVE THRU 4/10/87
I. SALARIES	507,934.00	21,954.00	0.00	0.00	43,808.00	65,762.00	573,696.00
II. FRINGE BENEFITS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
III. INDIRECT COSTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IV. TRAVEL & TRANSPORTATION	797,606.30	98,270.00	0.00	0.00	0.00	0.00	0.00
V. ALLOWANCES	137,604.39	0.00	0.00	0.00	75,607.00	173,877.00	971,483.30
VI. OTHER DIRECT COSTS	48,144.00	62,404.00	0.00	0.00	0.00	0.00	137,604.39
VII. TRAINING	569,966.00	142,332.00	0.00	0.00	4,943.00	67,347.00	115,491.00
VIII. EQUIPMENT & SUPPLIES LOCAL	411,444.61	16,872.00	0.00	0.00	37,419.00	179,751.00	749,717.00
IX. VEHICLE EXPENSE	97,386.38	7,431.00	0.00	0.00	15,826.00	32,698.00	444,142.61
X. MISC TRAVEL EXP	0.00	0.00	0.00	0.00	7,160.00	14,591.00	111,977.38
XI. DISCREPANCY PV-R1 & PV-R2	134.00	0.00	0.00	0.00	0.00	0.00	0.00
XII. DISCREPANCY SEE NOTE BELOW*	800.00	0.00	0.00	0.00	0.00	0.00	134.00
XIII. DISCREPANCY SEE NOTE BELOW*		15,885.00	0.00	0.00	0.00	0.00	800.00
XIV. T O T A L - (RUPEES)	2,571,019.68	365,148.00	0.00	0.00	184,763.00	534,026.00	3,105,045.68
XV. TOTAL REIMBURSED BY USAID/ISLAMABAD	2,382,898.96	365,048.00	0.00	0.00	0.00	365,048.00	2,747,946.96

NOTE - RS 800.00 DISCREPANCY IN ACTUAL EXPENDITURES AND TOTAL FOR REIMBURSEMENT REPORTED ON PAYMENT VOUCHER #8

NOTE - RS 15,885.00 DISCREPANCY IN ACTUAL EXPENDITURES AND TOTAL FOR REIMBURSEMENT REPORTED ON PAYMENT VOUCHER #19A.

* No vouchers were received for these two months.