

**NWFP AGRICULTURAL UNIVERSITY  
PESHAWAR, PAKISTAN**

**CONSTRUCTION OF  
ACADEMIC BUILDINGS AND  
RELATED INFRASTRUCTURE**

**UNITED STATES AGENCY  
FOR INTERNATIONAL DEVELOPMENT  
MISSION TO PAKISTAN**

**SKIDMORE OWINGS & MERRILL  
ARCHITECTS, ENGINEERS, PLANNERS  
WASHINGTON, D.C. USA.**

**AHED ASSOCIATES  
ARCHITECTS --- ENGINEERS  
KARACHI, PAKISTAN**

PD-78D-823

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# PROJECT BRIEF

### SALIENT FEATURES OF THE PROJECT

PROJECT: CONSTRUCTION OF ACADEMIC BUILDINGS AND RELATED  
INFRASTRUCTURE,  
NWFP AGRICULTURAL UNIVERSITY PESHAWAR, PAKISTAN

CONTRACTOR: ENCORP AMCA INTERNATIONAL

PROJECT COST: PAK Rs 308 MILLION  
(PAK Rs 215,967,720/- + U.S \$ 5,258,987/-)

#### PROJECT DURATION:

Mobilization period	=	60 days ( 2 months).
Construction period	=	1035 days (34 months)
Clearing period	=	30 days ( 1 month)

#### KEY CONTRACT DATES:

1. Contract Award Date:	=	10th July 1988
2. Notice to Proceed Date:	=	17th Nov. 1988
3. Mobilization Period End:	=	16th Jan. 1989
4. Date of Start of Construction period	=	17th Jan. 1989
5. Date of Completion of Construction period	=	16th Nov. 1991 ✓
6. Clearing the construction site and acceptance of all construction by AID	=	16th Dec. 1991

#### REPORTING DATE STATUS:

1. Reporting Date	=	30th Sep. 1989
2. Schedule Completion of work based on 'S' by reporting date.	=	26.00%
3. Actual Completion of work by reporting date.	=	14.923%
4. Work scheduled for the month based 'S' Curve.	=	4.25%
5. Work done during September 1989	=	0.516%
6. Work behind schedule (in percentage)	=	11.077%
7. Work behind schedule (on time scale)	=	3 months & 1 day

## PROJECT DESCRIPTION:

### 2.1 Background:

As a center for agricultural education and research in a predominantly agricultural nation, the Northwest Frontier Province (NWFP) Agricultural University will play an increasingly important role in national and provincial development over the coming decade. Agricultural self-sufficiency is of fundamental importance to the continued stability and well-being of Pakistan. Improved technological and human resources are a key to achieving that self-sufficiency. Expansion and upgrading of the Agricultural University's campus facilities in Peshawar will provide a necessary physical framework in which to achieve the multiple goals of the University. These physical improvements to the existing campus are one element of a multi-faceted improvement strategy which includes faculty training and upgrading, a new curriculum, improved training methods, and introduction of new modern equipment. This project provides new physical plant for the implementation of the TIPAN Project.

- 2.2 The proposed construction consists of administrative buildings, classrooms, research laboratories, farm-center buildings, student hostels, student-faculty center and infrastructure works related to the above.

The contractor is required to construct the buildings and related infrastructure in accordance with the construction drawings, specifications and tender documents prepared by Skidmore, Owings & Merrill (SOM), Washington, D.C., and Ahed Associates, Karachi, Pakistan.

The project is located at Peshawar in the North West Frontier Province of Pakistan at the existing Campus of the NWFP Agricultural University. The land area upon which the buildings and facilities are to be Constructed is approximately 70 acres and comprises the eastern academic side of the present Campus.

### 2.3 Climatology:

The climate is hot and except during the winter months of December to February which are dry and cool. Maximum temperature may reach above 40 degrees centigrade in summer whereas in winter ground frosts occur occasionally between December and February. Annual average rainfall is approximately 250 millimeters, however, the amount of rain accruing in individual years may vary between quite wide limits with most rain falling during the months of July and August.

2.4 The building/facilities to be constructed are as follows:

1. Central Administration
2. Outreach Center
3. Communication Production and Computer Center
4. Auditorium (Renovation & Extension)
5. Library
6. Dispensary
7. Visiting Scientists' Housing - 20 Nos.
8. Male Student Hostels - 6 Nos.
9. Outreach Housing
10. Plant Sciences Center
11. Student & Faculty Center
12. Farm Center Buildings (Animal and Plant)
13. Underground water reservoirs - 2 Nos.
14. Overhead water tower.
15. Infrastructure for the above, i.e., roadways, walkways, telephone services, electrical services, water and sewerage network, gas lines, sewage treatment work, etc.

Each Male Student Hostel will accommodate 53 students. Therefore the six hostels will accommodate 318 students. The Outreach Housing will accommodate 100 persons/teachers/farmers.

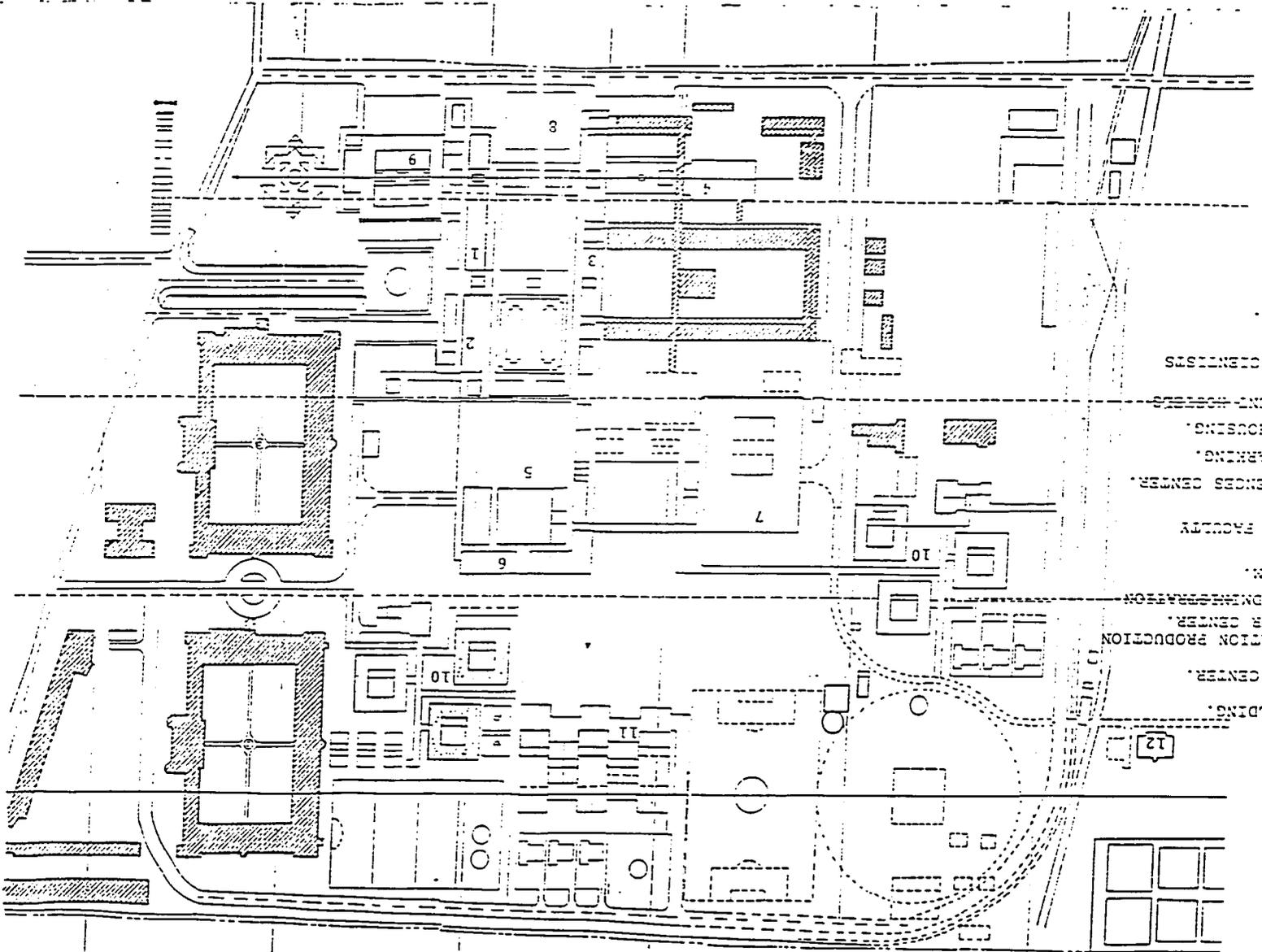
In addition to the new buildings and facilities the existing buildings will also be linked with the new underground services. The Plant Science Building and the CCPC Building will have separate emergency electrical generation units.

The structures of all the buildings except the Visiting Scientist Houses is designed as framed RCC structure with brickmasonry partition walls.

The Visiting Scientist Houses are designed with load bearing brickmasonry walls. The project consisting of 10 Visiting Scientist Houses.

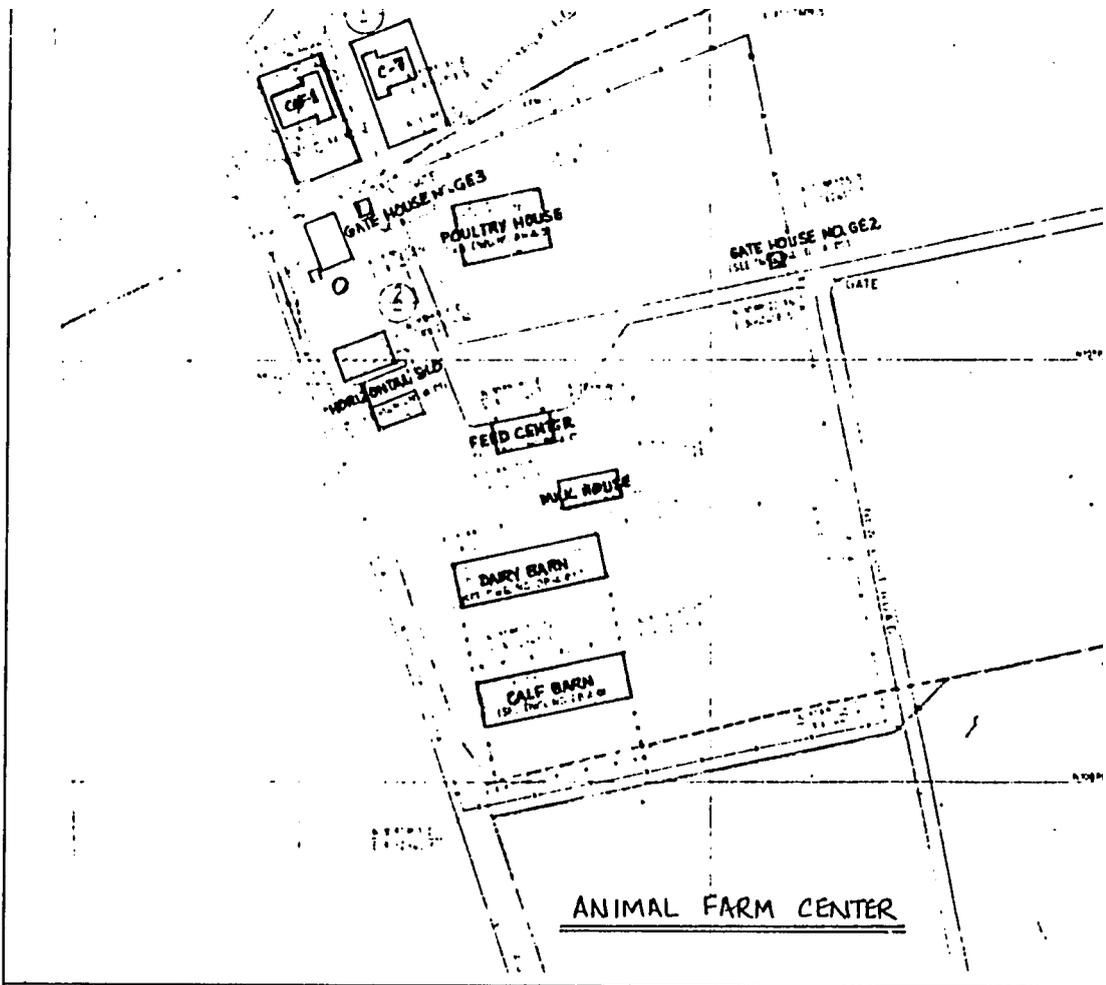
2.5 The construction contractor is required to complete all the construction work in a time period of 36 months from the date of Notice to Proceed in accordance with a time-phased completion schedule.

3.1 PROJECT LAYOUT PLAN

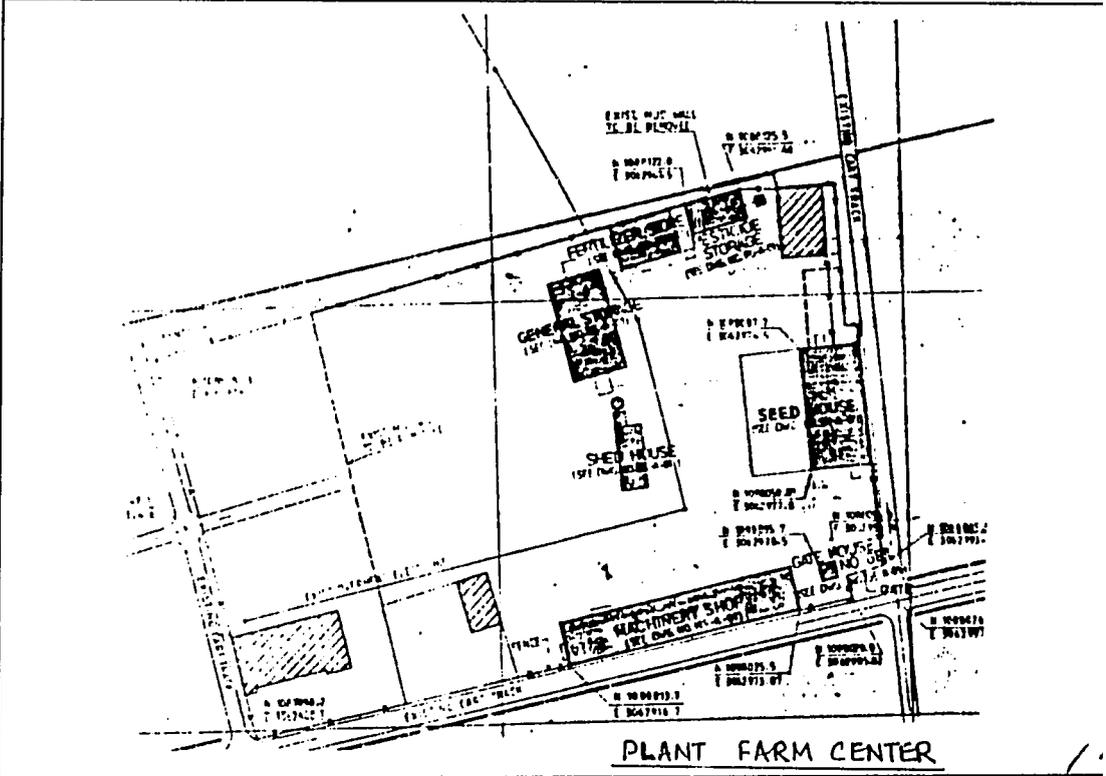


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- OUTREACH CENTER.  
COMMUNICATION PRODUCTION  
& COMPUTER CENTER.  
CENTRAL ADMINISTRATION  
AUDITORIUM.  
LIBRARY.  
LABORATORY & FACULTY  
OFFICE.  
PLANT SCIENCES CENTER.  
COVERED PARKING.  
OUTREACH HOUSING.  
ART & STUDENT WORKSHOPS.  
DINING.  
EXISTING SCIENTISTS  
DORMING.  
LIBRARY.

h.



ANIMAL FARM CENTER



PLANT FARM CENTER

6