







WORK DEMARCATION FOR WATER SUPPLY, DRAINAGE,
ELECTRICITY SUPPLY, TELEPHONE MAIN

CHAPTER 6. TEACHING EQUIPMENTS

A list is prepared as a proposal from the Survey Team with regards to the education equipments, based on the Standard for the equipment necessary to universities in the case of the Faculty of Agriculture and on the Standard for the equipments necessary to technical schools in the case of the Faculty of Engineering and also referring to the syllabus prepared by the Kenyan authorities.

Considering the limitation from the financial point of view, the minimum equipments necessary at the time of opening the university are listed, and on the other hand the equipments which largely affect the space of buildings and the service facilities are listed preferentially.

It is expected that this list is compared with the list of equipments that is under preparation by the Kenyan authorities, and adjustments are made again in order to prepare the final proposal, and therefore further discussions are necessary.

CHAPTER 7. DEMARCATION OF CONSTRUCTION

Construction of new college will be executed by the joint-venture of the Kenya Government and the Japanese Government. As the Demarcation of Construction the construction of main academic facilities of the college will be carried out by the Japanese Government and other facilities which are necessary to support the academic facilities, including infrastructure of campus will be carried out by the Kenya Government. Specially, since the construction that will be carried out by the Kenya Government includes construction necessary before the construction of buildings, it is desirable that those construction is completed before the construction by the Japanese Government is started.

(1) Approach Road to the Site from Thika Road

It was earlier agreed by the Implementation Committee of Kenya and the Preliminary Design Survey Team from Japan, to construct a new approach road exclusively for the college from Thika Road which is a trunk road linking Thika and Nairobi.

This approach road will be constructed by the Kenyan side with responsibility, and it could be considered that a temporary road which could stand traffic conditions in the rainy seasons will be constructed by the end of 1978 and fully completed with pavement and planting works etc., prior to the opening of the college.

During the construction, this temporary road will be used as a construction road.

(2) Reclamation of the Site

Levelling and reclamation will be totally done by the Kenya Government. The reclamation mentioned here includes the area planned as the Demonstration Farm. Construction of roads within the site and drainage facilities are also planned.

(3) Water Supply

Estimated consumption of water for the domestic water necessary within the site is as follows.

a) Academic Zone	150 ton/day
b) Teaching Staff Housing Zone	77 ton/day
c) Non-teaching Staff Housing Zone	91 ton/day
d) Facilities for Demonstration Farm	20 ton/day

Two wells, each having a capacity of 200 ton/day planned and their location will be determined after discussions.

It is desirable that the construction of the wells is commenced so that one of these wells could be used for the construction of buildings.

As the demarcation of construction, it is planned that the Kenya Government will be in charge up to the water reservoir which covers the academic zone, while the Japanese Government will be in charge of supplying water to the buildings, which are expected to be constructed by the Japanese Government, from the water reservoir.

Piping for the water supply to the non-teaching staff housing zone and demonstration farm facilities is planned as work to be undertaken by the Kenya Government.

(4) Drainage

It is planned to dispose the various sewage from various facilities except the rain water in to a septic tank within the site. Including this septic tank, drainage canals leading to the outside of campus and the drainage of rainwater are also planned as works to be carried out by the Kenya Government.

(5) Electricity Supply

Total load of electricity supply to be required for the facilities in the site is assumed as follows:

Workshops	250 KVA	Facilities expected to be con-
Common facilities	300 KVA	structed by the Japanese
Welfare facilities, Dormitories	200 KVA	Government
Teaching Staff Housing Zone	150 KVA	
Non Teaching Staff Housing Zone	100 KVA	
Total	1000 KVA	

Electricity supply to these various facilities is done by the Kenya Government, and the incoming power line will be connected by the Kenya Government to high tension panel of the substation planned for the academic zone, which is to be constructed by the Japanese Government. Switchboards and transformers for the receiving of power are also to be installed by the Kenya Government.

(6) Telephone

It is planned that the Kenya Government will link telephone lines up to Main Distribution (MDF) in the PABX room which is to be housed in the administration building which will be constructed by the Japanese Government. About 5 lines are expected to be linked.

CHAPTER 8. DESIGN AND CONSTRUCTION SCHEDULE

The construction of buildings expected to be undertaken by Japanese Government is planned to be carried out in two phases. The scope of works expected to be carried out in each phase is shown in Figure 13.

It is desirable that the facilities, which are to be constructed by Kenya Government, are constructed so as to meet the time schedule of opening the college, and it may be necessary to make adjustments now onwards with regards to the construction schedule.

The schedule of detailed design, tendering and construction is shown in Table 4.

As the time required for each stage, about six months are considered for the detailed design, about two months for the tender and contract and about fourteen months for the construction works of each phase.

Table 4





