

d) Plumbing fixtures

The following will be provided.

- . Water closets (western type and local type)
- . Urinals
- . Flushing high position cistern
- . Lavatory sink

e) Fire Fighting System

Fire extinguishers will be provided at appropriate locations, following the relevant standard in Malaysia.

f) Septic Tank

A septic tank will be installed in an appropriate point under the ground for treating sewage not to contain more than 50 ppm by BOD as required by the regulation.

4-3. EDUCATIONAL EQUIPMENT

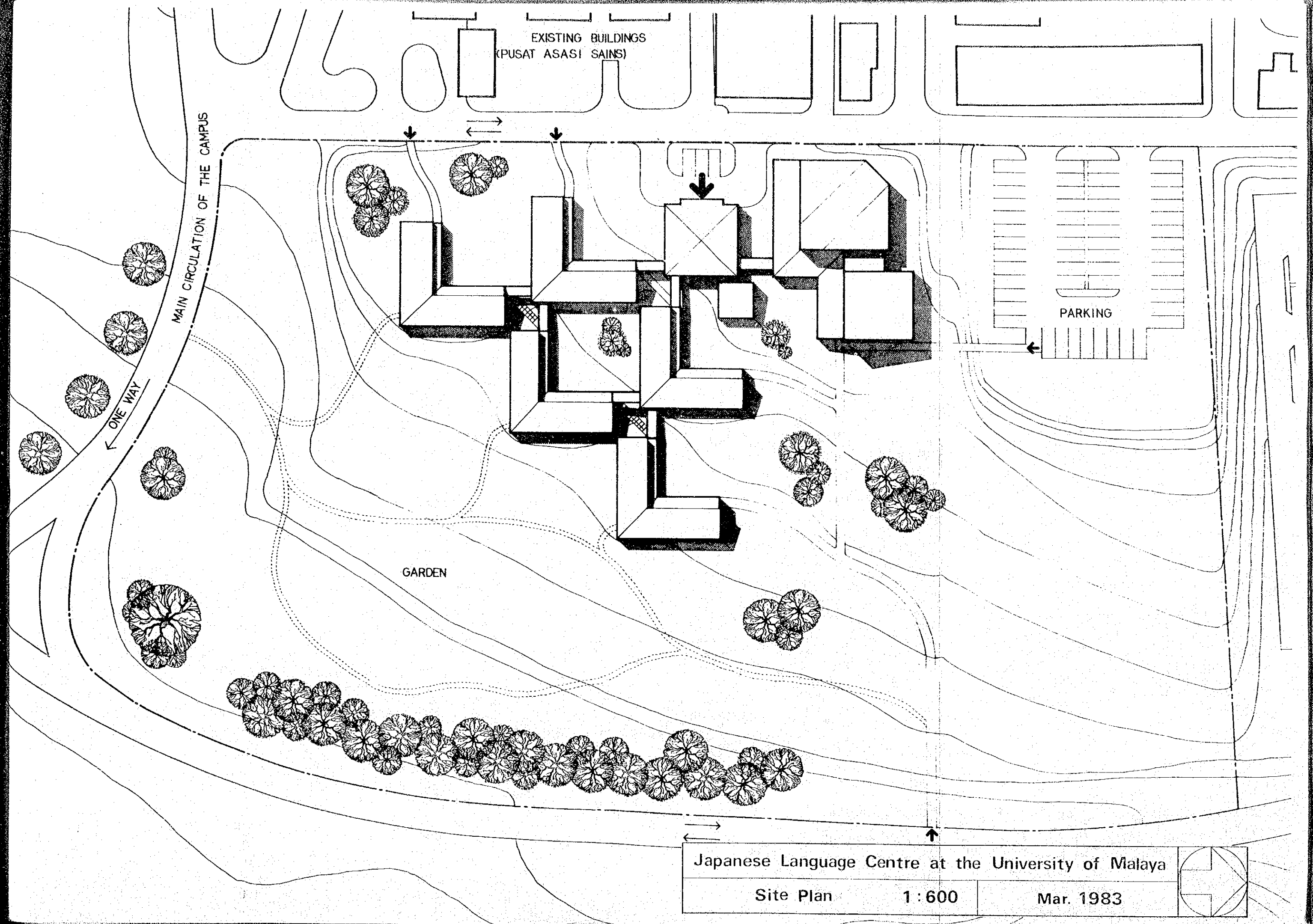
Educational equipment for the Centre should be selected in due consideration of the present situation of Japanese language education in Malaysia and to be suitable for the educational policies, systems, curricula and standards set up by the University of Malaya. The following educational equipment has been considered.

List of Educational Equipment

a.	Lecture Theatre	
	. 16mm film sound projector	1 set
	. Screen	1 "
b.	Classroom	
	. Screen	1 set
c.	Language Laboratory	
	. Booth (desk, chair)	25 sets
	. Microphone	25 "
	. Booth recorder	25 "
	. Headphone	25 "
	. Master console	1 set
	. Room speaker	1 "
	. Amplifier	1 "
	. Slide projector	1 "
	. Slide tape recorder	1 "
	. Screen (Standard type)	1 "
	. Desk and chair for lecturer	1 "
d.	Workshop	
	. Copy machine	1 set
	. Word processor	1 "
	. Tape copy equipment	1 "

4-4 BASIC DESIGN DRAWINGS

Site Plan	1:600
1st Floor Plan	1:400
Section and Elevation	1:400



EXISTING BUILDINGS
(PUSAT ASASI SAINS)

MAIN CIRCULATION OF THE CAMPUS

ONE WAY

PARKING

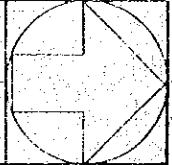
GARDEN

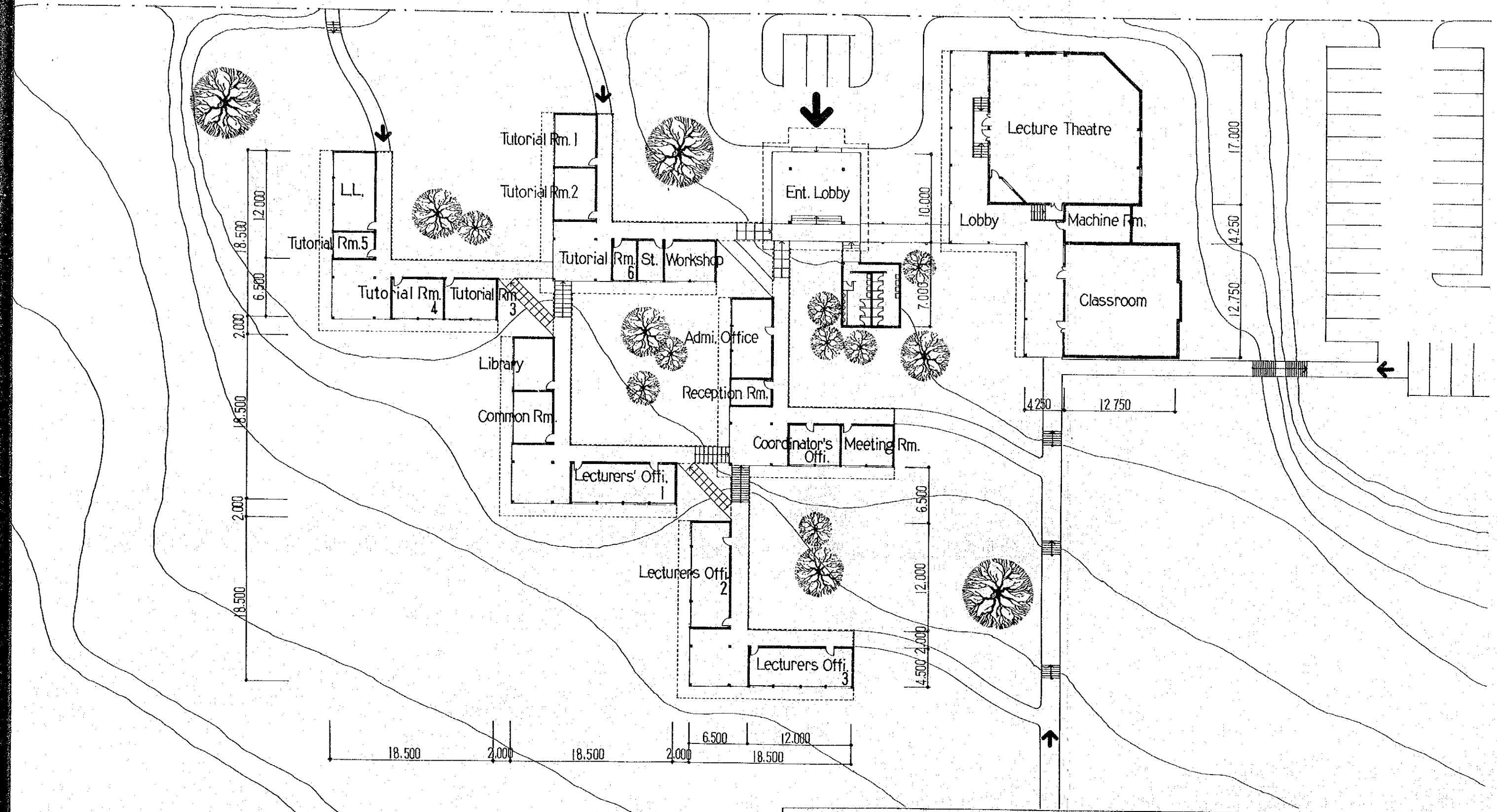
Japanese Language Centre at the University of Malaya

Site Plan

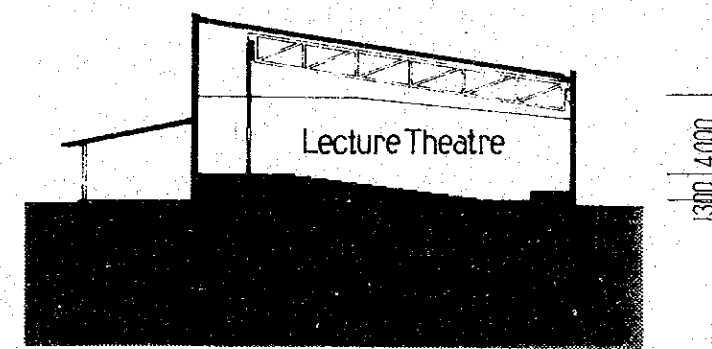
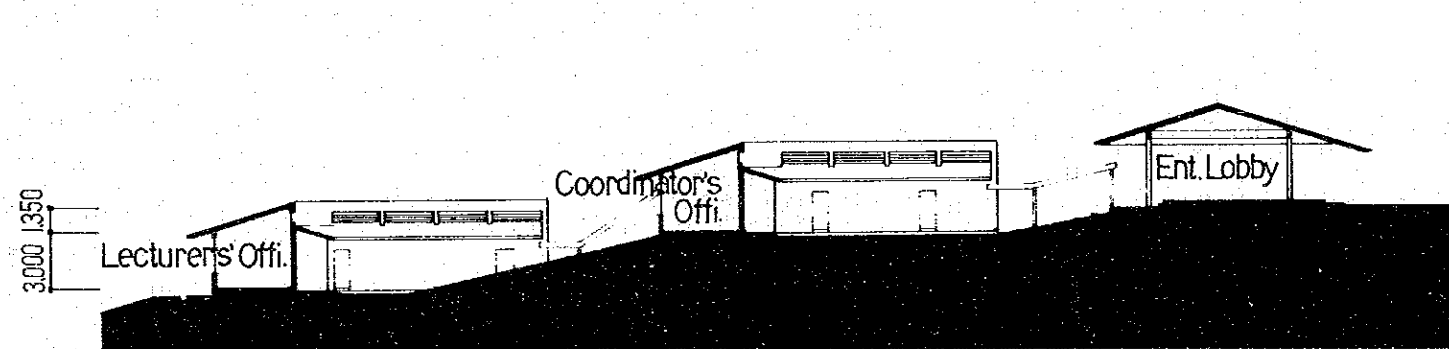
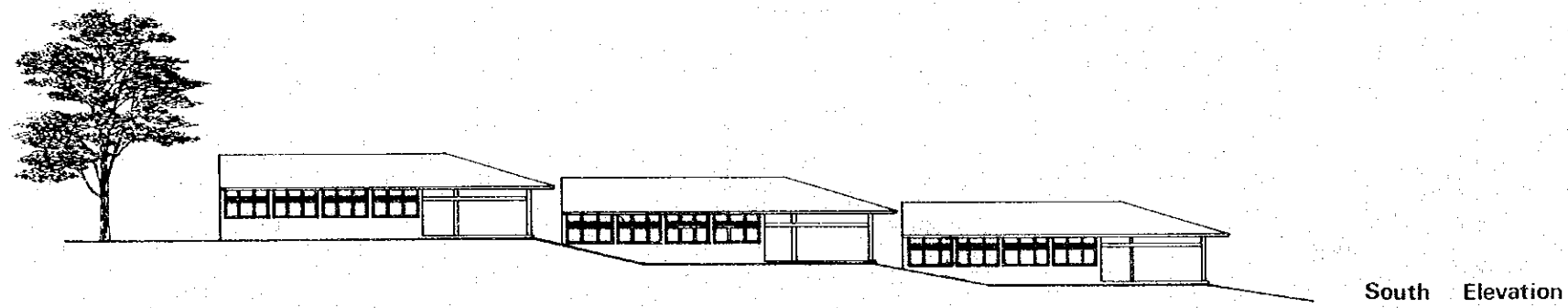
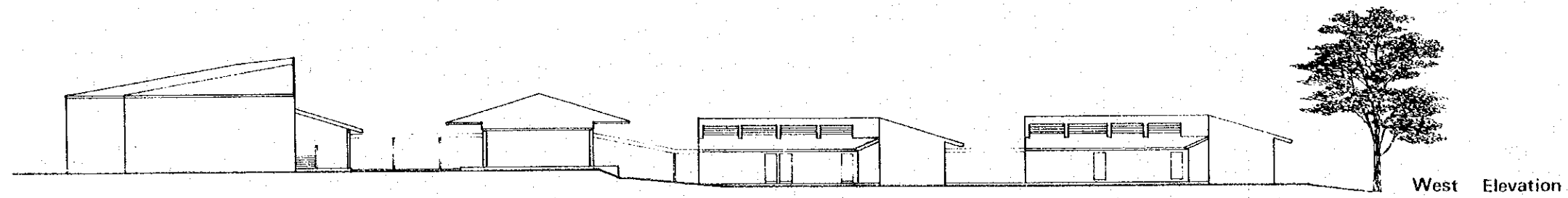
1 : 600

Mar. 1983



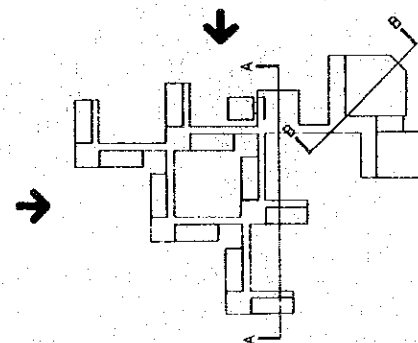


Japanese Language Centre at the University of Malaya		
1st Floor Plan	1 : 400	Mar. 1983



4,500 2,000 12,000 6,500 4,500 2,000 12,000 6,500 10,000

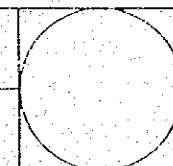
6,010 3,005 18,030



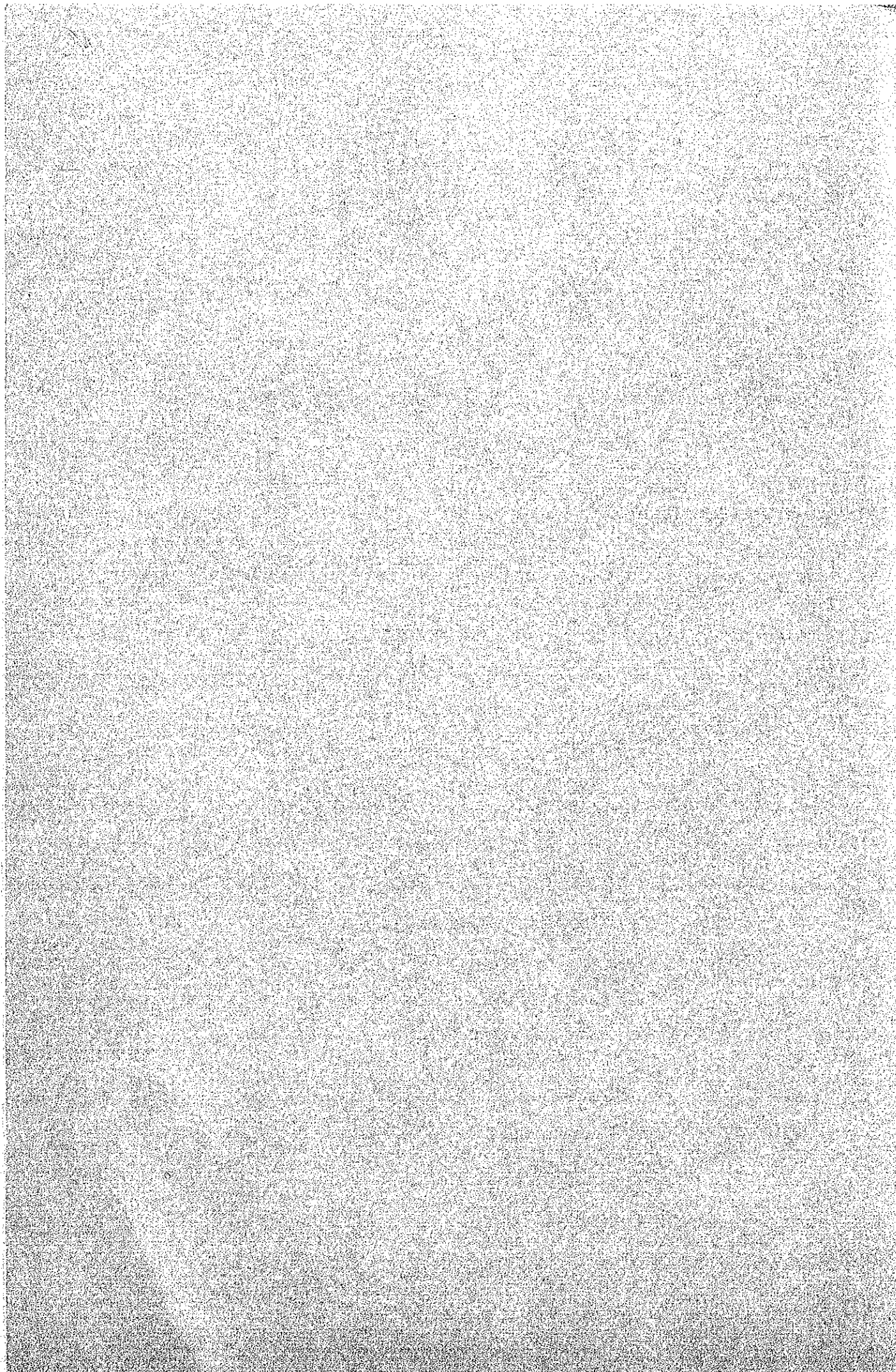
Japanese Language Centre at the University of Malaya

Section and Elevation 1:400

Mar. 1983



CHAPTER 5: PROJECT IMPLEMENTATION



CHAPTER 5: PROJECT IMPLEMENTATION

It is anticipated that this Construction Project will be implemented under the Japanese grant aid in accordance with the procedures set out by the Japanese Government. On this occasion, certain items of the work must be carried out by the Malaysian side in parallel with the work to be performed under the grant aid, and the former must be combined with the latter. The work to be done by the Malaysian side is outlined in this report, but details of the work must be determined through discussion as the implementation of the project makes progress.

5-1 SCOPE OF WORK

The Government of Japan will prepare the budget, in the way of grant aid, for the detailed design, construction and supervision of the Japanese Language Centre at the University of Malaya, while the Government of Malaysia will prepare the site, provide necessary elements of infrastructure, furniture, etc., and operate and maintain the Center facilities after completion of construction. The items of the work assigned to each party are indicated on next page.

5-2 TENTATIVE OVERALL SCHEDULE

If the project is implemented according to the procedures defined by the Japanese Government's grant aid programs, the overall schedule of work will be as indicated on Fig. 5-2-1. Not only the work assigned to the Japanese side but that assigned to the Malaysian side should be implemented according to the schedule when this schedule becomes effective.

Scope of work to be provided by the two governments

° WORK ITEMS TO BE PROVIDED BY JAPANESE GOVERNMENT

- (1) Buildings
- (2) Educational equipment
- (3) Design and supervision
- (4) Construction

° WORK ITEMS TO BE PROVIDED BY MALAYSIAN GOVERNMENT

- (1) Demolishing and removal of obstracles on the Site including underground obstracles.
- (2) Landfilling, cutting and grading
- (3) Access and approach road construction
- (4) Soil test and other geological test
- (5) Electrical power supply including transformer
- (6) Water supply to the buildings
- (7) Sewerage connection to the city pipe after the septic tank
- (8) Telephone trunk line to the main distribution board in the building
- (9) Landscaping and gardening
- (10) Gate(s) and fence
- (11) Exterior facilities namely flagpole, signboards
- (12) Office furniture, carpets, curtains and other furnishings
- (13) Office equipment
- (14) Necessary procedural matters for customs clearance, etc.
- (15) Formation of site works committee
- (16) Maintenance operation and running cost for facilities

Fig. 5-2-1 Tentative Overall Schedule

	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	10	11	12	
(1)	BASIC DESIGN STUDY																		
	Basic Design																		
(2)	GRANT AID PROJECT																		
					Exchange of Notes														
						Detailed Design													
							Tender & Construction Contract												
								Construction (eight months)											
(3)	WORK TO BE DONE BY MALAYSIAN GOVERNMENT																		
	Land Survey & Soil Test																		
					Clear site & Land filling, Cutting and Grading														
														Utility Service Connection					
																Landscaping			
																	Furniture		

- Notes:
- 1) Exchange of note is assumed to be concluded by the beginning of March.
 - 2) Construction period is considered to be 8 months starting from July.
 - 3) Further discussions will be needed with the Malaysian side on the schedule of the work to be done by the Malaysian side as the Project progresses.

5-3 OPERATION AND MAINTENANCE

Upon completion and taking-over by the Malaysian side, the completed facilities will be operated and maintained under the responsibilities of the Estates Office of the University of Malaya.

Two technical staffs (one for electrical and the other for buildings and mechanical), who work under the direction of engineers, will be necessary.

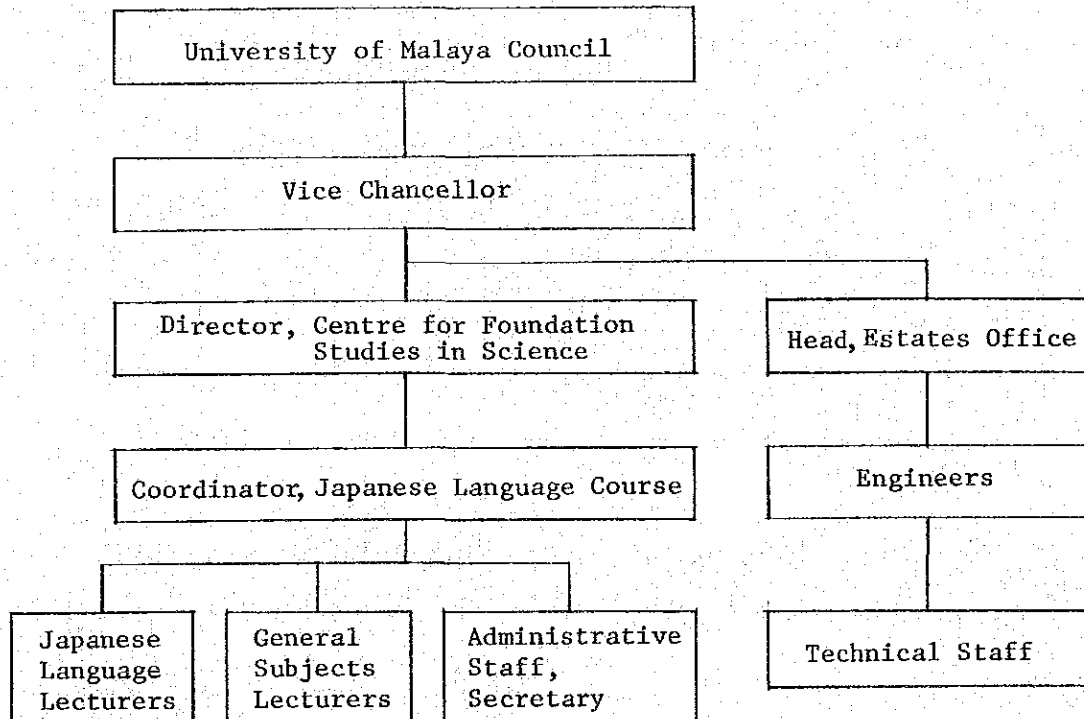


Fig. 5-3-1 Organization Chart

Running cost, maintenance cost, repair cost, personnel expenses, etc. are estimated as follows:

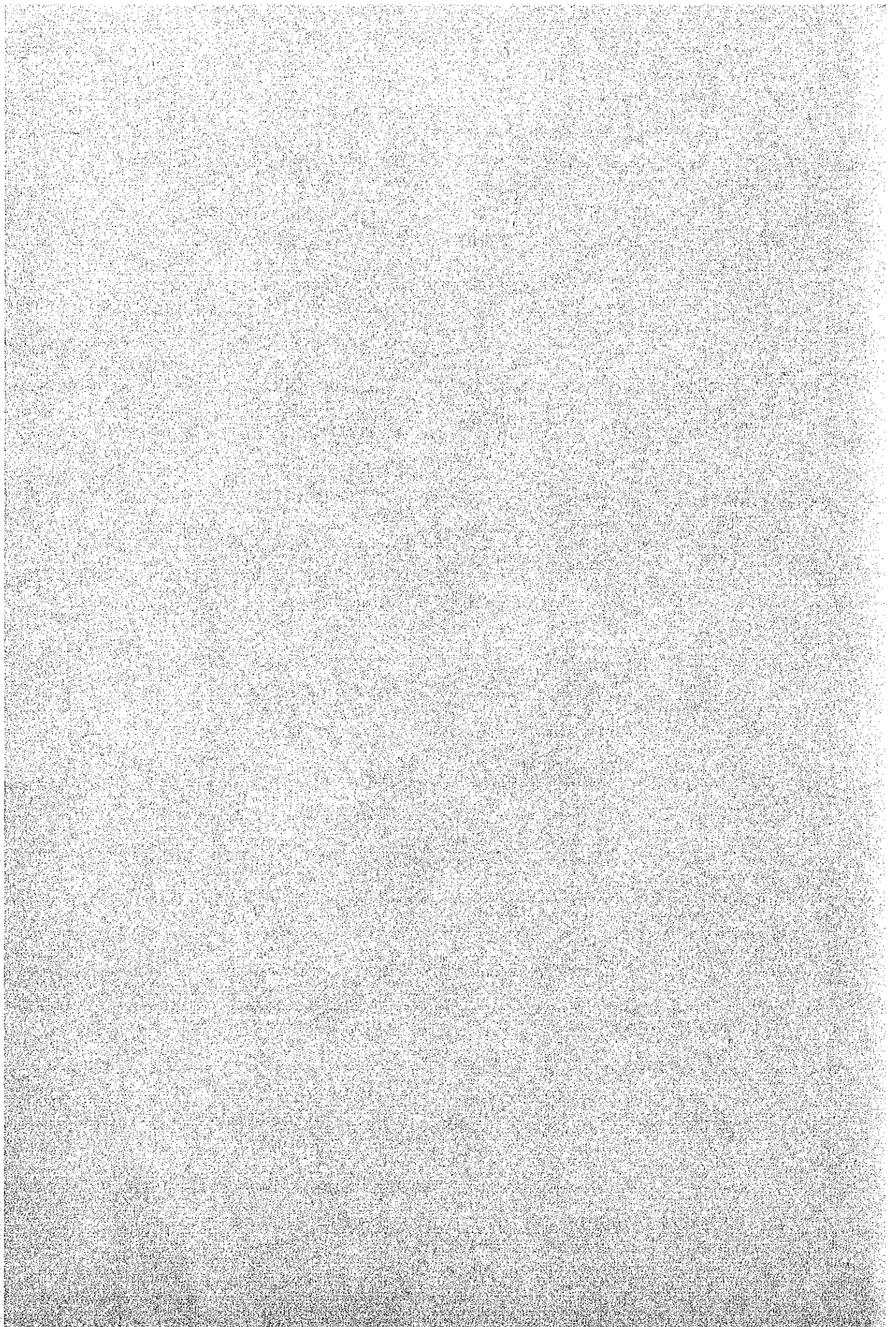
Item	Cost (MD/year)	Remarks
Running cost for equipment and apparatus	54,708	Electricity Demand charge 12 MD/KVA Energy charge 0.25 MD/KWH Load condition 300 days/year x 6 Hrs. x 0.6 City Water Demand charge 2 MD/1,000 G Volume charge 1.2 MD/1,000 G
Maintenance cost	12,000	Labour cost 20 MD/day.person 20 MD/day.person x 25 days/mon x 12 mon x 2 persons
Repair cost	10,000	Building 2 MD/m²/year Machine 4 MD/m²/year L.L. equip. 1,780 MD/year
Personnel expenses	540,000	Lecturers 2,600 MD/mon.person x 15 persons Staff 1,000 MD/mon.person x 15 persons
Educational material cost	50,000	500 MD/year student x 100
TOTAL	666,708	

1 MD = 110 Yen

Annual running cost is estimated on the following computations:

- Electricity:	51,540 MD/year
Demand charge: $110 \text{ KVA} \times 12 \text{ MD/KVA} \times 12 \text{ months}$ $= 15,840 \text{ MD/year}$ Energy charge: 39,700 MD/year a. Lighting, service outlets $60 \text{ KVA} \times 1.0 \text{ KW/KVA} \times 300 \text{ days/year} \times 6 \text{ Hrs}$ $\times 0.6 \times 0.25 \text{ MD/KWH} = 16,200 \text{ MD/year}$ b. Air-conditioning, ventilation $120 \text{ KVA} \times 300 \text{ days/year} \times 4 \text{ Hrs} \times 1.0 \text{ KW/KVA}$ $\times 0.5 \times 0.25 \text{ MD/KWH} = 18,000 \text{ MD/year}$ c. Language laboratory equipment $10 \text{ KVA} \times 300 \text{ days/year} \times 4 \text{ Hrs} \times 1.0 \text{ KW/KVA}$ $\times 0.5 \times 0.25 \text{ MD/KWH} = 1,500 \text{ MD/year}$ $a + b + c = 35,700 \text{ MD/year}$	
- City Water:	3,168 MD/year
Demand charge: $3,300 \text{ Gallon/day} \times 25 \text{ days/mon} \times 12 \text{ months}$ $\times 2 \text{ MD/1000 G} = 1,980 \text{ MD/year}$ Volume charge: $3,300 \text{ Gallon/day} \times 300 \text{ days/year}$ $\times 1.2 \text{ MD/1000 G} = 1,188 \text{ MD/year}$	
Grand total = $51,540 \text{ MD/year} + 3,168 \text{ MD/year} = 54,708 \text{ MD/year}$	

CHAPTER 6: PROJECT APPRISAL



CHAPTER 6: PROJECT APPRAISAL

Until recently, training Malaysians at Japanese firms has been the only concrete means for the Government of Malaysia to actualize the Look East Policy. This project has been thought out by the Government as another means of actualizing the Policy. It will provide Malaysian students with a unique educational opportunity which has never been given by the existing educational programs in Malaysia, namely, preparation for entry into Japanese universities. Although it is difficult to quantify the benefit of investment in educational facilities, it is clear that those who have been given education there will play, through their subsequent activities, a significant part in the infusion of Japanese technology and culture into and economic development of Malaysia. Therefore, this project is compatible, on its objective and effect, with the Look East Policy currently advocated by the Government of Malaysia. It is expected that this project will contribute much to strengthening the relationship between Malaysia and Japan.

The buildings and equipment to be provided by the Government of Japan are the minimum necessities to achieve the objective of the project. Cost of personnel, operation and maintenance for the project will be financed by the Government of Malaysia and the University of Malaya.

