General office equipment (copy machine, facsimile)	1 lot
General Office Furniture (desks, chairs)	1 lot

## 2-3 Basic Design

- 2-3-1 Design Concept
  - (1) Design Conditions
  - 1) Basic Principles

The following basic principles will be considered in the design of the Project Facilities:

- a) The design will take into consideration the local climate, natural features and lifestyles of Vietnamese people. Especially, windows will designed to be operable even when raining and the central lobby space will employ voids and high clerestory lighting and ventilating louvers for natural day lighting and ventilation.
- b) The design will consider the distinction between the various users in the three separate zones and make considerations for the security aspect while maintaining easy access for the users of each zone.
- c) The design will pay due attention to the local construction conditions and general level of university facilities in Viet Nam. The quality and grade of the facilities will be suitable to the advanced training activities proposed in the Project facilities.
- d) The design will incorporate Japanese design elements.
- e) The circulation will be designed around the central void space for clarity.
- f) Finishing materials and grade of facilities will be based on the Hanoi Center.
- g) The building will be 3 stories following local regulations.
- 2) Natural Conditions
  - a) Climate

Ho Chi Minh lies on the right bank of the Saigon river, a tributary of Nhia Be river. It lies in the tropical monsoon climatic zone and is hot and humid throughout the year. The average annual temperature is 25°C and is hottest from April to May. The rainy season lasts from May to October, when 90 % of annual precipitation occurs.

Typhoons land one to two times per year, but Vietnamese Building Law stipulates that Ho Chi Minh is IIA area, with typhoon effects negligible.

Design principles based upon these factors are:

- Main rooms will be air conditioned with considerations to reduce running costs.
- Due to the intensive monsoon rainfall, which generally comes as afternoon squalls, construction will have to be carefully planned for earthworks and foundation works during these periods.
- The first floor will be designed as pilotis space for air circulation.
- The sectional design will incorporate voids, high clerestory windows and venting louvers for natural air circulation.
- North and south eaves will project at least one meter to provide shade to walls and reduce heat gain.
- Windows will be designed to allow opening even when raining.
- Wind load will be calculated for wind velocity of 45m/s.
- b) Soil Conditions

According to the initial geo-technical investigation carried out by a local survey company during the Basic Design Study in Viet Nam, load bearing soil was not found even after extending the boring beyond the originally planned 30 meters below ground level. Only soft clay soils with N factors in the range of 1~7 down to 23 meters and up to 11 at around 40 meters were observed. After return to Japan, further study on construction methods and costs showed that bearing piles up to 60 meters depth or friction / bearing piles for soils with N factors around 30~40 and 40 meter depth would be economically feasible and engineering sound.

It was decided to carry out further site investigations, which were conducted down to 70 meters depth. This survey also carried out laboratory tri-axial compression tests to determine the effect of settling on the piles. This boring revealed a candidate bearing sand /gravel soil strata at 38 to 42 meters with N factor above 30. The strata below weakened to N factors of 11 to 29 but firm bearing soil with N factor above 50 is found at depths below 60meters.

After review of the survey results, it was decided to employ cast in place concrete pile foundations 40.5 meters long and diameters of 800mm and 1,000 mm. (See attached Appendices 6.1 and 6.2 for the results of the Boring Surveys)

### c) Earthquakes

There are no recorded major earthquakes in Ho Chi Minh. The present Vietnamese Building Laws have no detailed procedure for seismic design and it has been decided that minimal seismic structural design based on Japanese structural standards is sufficient.

- 3) Social Conditions
  - a) Infrastructure around the Project Site

Basic infrastructure, such as power supply, water supply, drainage and communication facilities are all proposed to be placed under the D5 road facing the Project site. However, the D5 Road is still under construction and only drainage mains have been put in place. 800mm mains are on the opposite side of the road and connected to manholes placed at 35 m intervals on the site side. Power supply system is presently available along the D2 road about 300 m from site at 15 kV voltage. New distribution facilities are to be provided by the Vietnamese side branching from the nearest point up to the receiving panel to be installed in the site under Grant Aid funds. A new power receiving room will be provided in the project facilities with appropriate transformers and distribution panels. Voltage fluctuation is large and power outages are frequent in Ho Chi Minh which will require appropriate countermeasures, including auxiliary diesel generator and uninterrupted power supply equipment (UPS) for the computerized equipment.

Water supply pressure is low and receiving tanks on the ground and pumps to lift up water to rooftop day tanks will be required. Water mains exist in existing road 60 meters from the site, but require passing through private land. After consideration the available options, it was decided to take a branch off from the water mains in Xo Viet Nghe Tinh Road, about 200 meters from site.

4) Building Design Regulations

Around the proposed site area, buildings having less than three stories are not granted building permits to encourage intensive use of urban land. Referring to the administrative guidance given by the Chief Architect of Ho Chi Minh to the FTU, minimum three stories are mandatory. Accordingly, the Project facilities will be three-storied in compliance with this regulation. In order to maximize the effective use of land and the building requirements, parking space for instructor's automobiles and bicycles / motorbikes of students will be provided in the pilotis space on the ground floor of the facility.

Seismic design will be based on Japanese standards with a lateral load factor of 0.1 to reflect the local conditions. Typhoons land on Viet Nam about

once or twice annually and Vietnamese Building Law stipulates that Ho Chi Minh is a Wind Condition IIA area (effect negligible) and wind load factor of  $830 \text{ dN/m}^2$  for load calculations. However, to rationalize structural design, Japanese structural standards will be used consistently and a wind load of 45 m/sec corresponding to the Vietnamese regulations will be adopted.

5) Local Contractors

Local contractors have gained expertise through participation in high-rise building projects under sub-contract with large foreign contractors. All large contractors are considered to have sufficient construction expertise for the project. However, adherence to a tight construction schedule and consistent quality control will require supervision under Japanese engineers.

6) Executing Agency

The Executing Agency for the entire period of the Project is FTU. It has vast experience running two separate campus in Hanoi and Ho Chi Minh. Furthermore, Project-type Technical Cooperation Scheme will send Japanese experts including an administrative expert during the initiative phase of the Project to assist in preparing administrative structure, curricula and setting student fees, etc. There is no deficiencies in administrative experience or maintenance expertise.

7) Time Schedule

Based on construction scheduling, etc, described in Chapter 3, the Project is proposed to be a single term project of 11months under Japan's Grant Aid Scheme.

8) Grade of Facilities and Equipment

Training equipment components will be designed based on the Hanoi Center and have similar capabilities.

# 2-3-2 Basic Design of Project Facilities

### (1) Plot Plan

The Project site is situated in Binh Tanh District, which lies to the northeast of the central No. 1 District. The whole site is approximately  $4,300 \text{ m}^2$  with dimensions of 50 m in depth north south and 110 m wide east west along D5 road. The site is flat and surrounded by scattered housing. The plot allocated for the Project

facilities is on the southwest corner of the site and has dimensions of approximately 25 m width and 40 m depth and area of around  $1,000 \text{ m}^2$ . (Ref. Figure 2-1). The Project Facility having a ground coverage of approximately 640 m<sup>2</sup> will be placed on the site facing east, on to the central open area of the proposed campus of the FTU Ho Chi Minh Branch. The main entrance will be approached over a lotus pond and up the main stairs to the lobby on the second floor. The main gate will be constructed along the D5 road by the Vietnamese side and the approach road up to the facility will be constructed with Grant Aid funds.

### (2) Determination of Project Facility Floor Area

The floor area of each room in the Project facilities will be determined based on the planned seminars, their frequency and number of attending trainees, on the number of people occupying the rooms and on installed equipment sizes in the rooms as agreed in the Minutes of Discussion. Space calculation processes are as described below:

- 1) Cultural Exchange / Lobby Zone
- a) Lobby:

 $=110 \text{ m}^2$ 

This space will be designed to provide a suitable entrance space to the entire building for trainees, visitors and project personnel. It will concurrently afford a space for information services by a large flat panel display unit and will be used as a space for cultural exchange activities between the Center and the surrounding community. This space will be sized at maximum possible size within the 33% of total floor area to be allocated to all circulation spaces such as corridors and staircases, which is a standard building design practice.  $(=100 \text{ m}^2)$ Canteen will be provided behind a screening wall.  $(=10 \text{ m}^2)$  $=172 \text{ m}^2$ b) Library:  $=99m^{2}$ Main Room Reading Room: Seating for 28 persons and circulation, facing the  $2.0 \text{ m}^2/\text{p.}\times28 \text{ p.}$ future main open space of the campus  $(=56 \text{ m}^2)$ Control desk: Administration of Library, renting out of videos and use of internet, copying/printing 5m x 4m  $(=20 \text{ m}^2)$ Circulation space  $(=23m^2)$  $=23m^{2}$ Storage Book racks: Rack space for 5,000 books,  $5,000 \div 300 / m^2$ ,  $(=17m^2)$ video rack  $6 \text{ m}^2$  $(=6 \text{ m}^2)$ Internet Booths  $=23m^{2}$ 10 internet access booths, 1.6m×0.9m×10m  $(=14m^2)$ 

circulation space	(=9 m <sup>2</sup> )
Study Carrels	$=11m^{2}$
5 self-study booths, 1.6m×0.9m×5	(=7 m <sup>2</sup> )
circulation space	(=4 m <sup>2</sup> )
Guidance Booths	
2 booths, 2.0 m <sup>2</sup> x 8persons	$(=16 \text{ m}^2)$

2) Seminar Zone

To enable versatile training activities, movable partitions will be introduced to enable efficient and flexible space creation.

a)	Multi-Purpose Room:		$=180 \text{ m}^2$
	Multi-function room formed by combining 3 seminar rooms with		
	combined seating of 100,	school type 3-seater, $1.5 \text{ m}^2/\text{p} \times 100$ ;	$(=150 \text{ m}^2)$
	lectern 10m×3m		$(=30 \text{ m}^2)$
	A booth for simultaneous in	terpreter will be required, for which an	
	observation window and spa	ace will be provided in the storage on	
	the west side of the room.		
b)	Seminar Rooms: 2 rooms for	r 36 persons each, school type 3-seater,	
	$1.5 \text{ m}^2/\text{p.}\times36 \text{ p}\times2\text{+}$ Lectern 6	6m×1m×2	$=120 \text{ m}^2$
c)	Computer Room: 20 PCs for	study and 1 PC for instructor,	
	$3.0 \text{ m}^2/\text{p.} \times 20 \text{ p.}$		$=60 \text{ m}^2$
d)	Cultural Exchange Room: C	ultural exchange activities introducing	
	Japan and social gathering,	, for 16 persons, ante-room provides	
	storage space when required		$=53 \text{ m}^2$
e)	Japan Club: Activity space	e for Japan Club, JOCVs etc., work	
	tables and lockers with keys,	, 2.9 m <sup>2</sup> /p.×8 p.	$=23 \text{ m}^2$
f)	Storage, others		$=12 \text{ m}^2$
	Translator Space	2m×3m	$(=6 \text{ m}^2)$
	Hot Water Room	2m×3m	$(=6 \text{ m}^2)$
3)	Administration Zone		
a)	Director Rooms: 1 room for	Directors 8 p.×4 $m^2/p$ .	$=32 \text{ m}^2$
b)	Reception Room: Space for	15 p	$=20 \text{ m}^2$
c)	Office	-	$=122 \text{ m}^2$
ŕ	Administrative staff space (f	for 6); $5.0 \text{ m}^2/\text{p.}\times6\text{p.}$	$(=30 \text{ m}^2)$
	Lecturer space (for 9):	$5.0 \text{ m}^2/\text{p.} \times 9 \text{ p.}$	$(=45 \text{ m}^2)$
	Locker & office machine spa	ace 5.5m×2.5m	$(=14 \text{ m}^2)$
	Kitchenette:	2mx3m	(=6 m <sup>2</sup> )
	Circulation space (30%)		$(=27m^2)$
d)	Meeting Room: Conference	space for 15 persons, 2.0 m <sup>2</sup> /p.×15 p.	$=30 \text{ m}^2$
e)	Storage:	17% of office area	$=13 \text{ m}^2$

f)	Secretary Space:	$7.0 \text{ m}^2/\text{p.x 1p.}$	$=70 \text{ m}^2$
4)	Others		
a)	Corridors and Staircases: 33% (excluding Lobby 100 m <sup>2</sup> on t	o of total floor area of above 1)~3) the 1st floor)	$=174 \text{ m}^2$
b)	Toilets: 1st floor Guard man: 2nd floor (for 50 occ (M) water close (F) water closet 3rd floor (for 160 occ	(M) water closet 1, lavatory sink 1 supants): et 2, urinal 2, lavatory sink 2, t 3, lavatory sink 3 cupants):	
c)	(M) water close (F) water closet Mechanical Equipment Space of Power Room, Pump Room, etc	et 2, urinal 3, lavatory sink 3, t 4, lavatory sink 4 & others: c	$=82 \text{ m}^{2}$ $=84 \text{ m}^{2}$ $(=78 \text{ m}^{2})$ $(=12 \text{ m}^{2})$
	Guard room		$(=6 \text{ m}^2)$

Based upon the above calculations, various rooms have been practically sized and laid out as summarized in Table 2-2.

Room	Remarks	Designed Area (m <sup>2</sup> )
1 Exchange / Lobby Zone		297
Lobby	Display, lounge	120
Library		176
Reading Room	24 seats, 2AV tables and control desks	(100)
Internet Booth	10 internet booths	(26)
Book Rack Storage	Book racks for 5,000 books	(22)
Study Carrels	5 self study booths	(11)
Guidance	2 guidance tables	(17)
2 Seminar Zone		443
Multi-Purpose Room	100 sets, dividable	176
Seminar Room (1), (2)	36 sets x 2	118
Computer Room	20PC, instructor's desk	59
Cultural Exchange Room	Japanese cultural exchange	46
Japan Club	App. 7 persons	23
Storage and others		21
<b>3</b> Administration Zone		218
Director Room	1 rooms for 2 persons	35
Reception Room	15 persons	20
Administration Office	Office worker x 6, office equipment.	50
Instructor Room	9 Lecturers, textbook editing equip.	68
Meeting Room	15 persons,	30
Storage		8
Secretary Space		7
4 Circulation/ Mechanical		350
Total Floor Area		1,308

Table 2-2Room Areas (m²)

## (3) Layout and Floor Planning

As has been described in the previous sections, the facility is composed of three main zones, Cultural Exchange Zone, Seminar Zone and Administration Zone. Each zone will be independently spaced to keep each type of user separate while allowing easy access to each zone.

Most students in Viet Nam use motorbikes or bicycles to commute and the first floor will be mostly parking space for the students and instructors. Generator room, power room, pump room and guard room are also on this floor,

The second floor is the main floor with entrance, lobby, library and administration spaces. The lobby will be a centrally located space with voids in the central area opening vistas and air circulation to the third floor. The circulation is easily recognizable due to the vistas. Soft natural lighting from high clerestory windows will provide illumination during daylight hours, reducing maintenance costs.

The third floor houses all seminar activities. The rooms are placed facing the central void allowing reasonable separation of the various rooms, while maintaining eye contact and coherence. The multi-purpose room located on the south side can be divided into three separate rooms by movable partitions and will be used as the instruction rooms for Japanese language courses as well as large conferences and seminars.

The two seminar rooms are the primarily rooms for business courses and can be joined into one large room by folding the movable partitions. The cultural exchange room is designed as a Japanese 'Tatami' room with an anteroom which doubles as viewing space of demonstrations of Japanese cultural activities and as the storage space for unused furniture when the multi-purpose room is used for special functions.

(4) Facility Design

The main entrance facade of the Center will face the large central open area planned for the proposed FTU Ho Chi Minh Branch buildings. The roofs are twinned to form a gable design accentuating the frontal element of the eastern elevation, which faces the future central campus open space.

1) External Elevations and Sections

External elevations and sections will be designed in the following manner:

The external elevations will be designed as raised floor design with the first floor as pilotis space and window will be designed for functionality of the interior spaces. The roof structure over the Multi-purpose Room, etc. will be made from steel due to the large span of the rooms.

- a) Main structural components (columns, beams and floor and roof slabs) will be of reinforced concrete with brick masonry walls.
- b) Main rooms will be air conditioned to maintain environment suitable for studies.
- c) Rooms with large occupancy such as library and seminar rooms will have a minimum ceiling height of 3 m. Other rooms will have a ceiling height of 2.5 m in principle

From preliminary structural calculations, floor heights have been determined to be:

First floor	2.7 m
Second floor	3.5 m
Third floor	4.0 m

2) Finishing Materials Plan

The first floor will be expressed as an open air raised pilotis space. On the walls, windows will be arranged to reflect internal rooms and their sizes, with simple and functional design. Especially, the eastern elevation, which will face the future campus central open space, is designed for frontality and emphasizes the scale of the structure.

The large rooms on the third floor such as multi-purpose room will require steel structure roof because of the large span. This will be expressed as sloped roofs with local glazed tile roofing. Both external and internal walls will be finished with paint on mortar screed. Interior finishing materials will be selected for durability and stain resistance for easy maintenance.

The second floor Lobby will be given a Japanese feel with selected finishing materials to express the Japanese Character of the facility.

Major finishing materials will be as given below:

a) Exterior Finishing

Wall :	Paint finish on mortar screed over brick masonry
Columns :	Paint finish on mortar screed over concrete structure

Roof :	Local	glazed	tile	roof,	partially	asphalt	built-up
	waterp	roofing	cover	ed with	mortar		
Windows :	Alumi	num win	dow t	frame v	vith clear g	glass glaz	ing.

- b) Interior Finishes
- Ordinary rooms (multipurpose, seminar rms., adm. office, library)

Floor :	Vinyl tile
Wall :	VP paint on mortar screed (VP: vinyl paint)
Ceiling:	Acoustic ceiling tile

Computer room

Floor :	Vinyl tile on	free-access floor
	~ .	

- Wall : Same as the ordinary rooms
- Lobby

Floor :	Special quarry tile
Wall :	Texture paint on mortar screed
Ceiling:	Gypsum plaster on concrete

(5) Structural Design

The seismic design code has not been formalized in Viet Nam. The Building Code recommends that a recognized international design standard be applied. The Japanese Building Code Design Standards will be applied, based on the following criteria.

- 1) General Conditions
  - a) Design Load

Design Load values are shown in Table 2-3 below.

Table 2-3         Design Load	l List
-------------------------------	--------

	Туре	Floor	Frame	Earthquake
General	Dead load	440	440	440
	Live load	300	180	80
	Total load	740	620	520
Metal Roof	Dead load	80	80	80
	Live load	100	100	30
	Total load	180	180	110

Note: values are in kg/m<sup>2</sup>

b) Major structural materials

The structural materials to be used in the construction of the Project facilities will be based on the following criteria. Concrete : General structural concrete Fc=24, Leveling concrete Fc=15 Steel Reinforcement Bars : Equivalent to JISSD295A (R9~22,D10~16),JIS SD345 (D19~25) Structural Steel : Equivalent to JIS SS 400

c) Seismic Load

The seismic design code has not been formalized in Viet Nam. The Building Code recommends that a recognized international design standard be applied. The Japanese Building Code Design Standards will be applied in this regard using a seismic factor of 0.1, based on the past seismic history of the region.

d) Wind Load

The Vietnamese Architectural laws stipulate that the Ho Chi Minh area is a IIA district, with specified wind load of  $830 \text{ dN/m}^2$ . However to maintain consistency with seismic design the Japanese structural code will be used. Wind load will be calculated at 45 m/s wind velocity, corresponding to the Vietnamese code values. The wind load is calculated from the following formula:

 $q=0.6EV_0^2$   $E=E_r^2G_f$ where *q*: wind pressure *E*: coefficient determined from second formula *V*<sub>0</sub>: wind velocity determined from past history of region *E*<sub>r</sub>, *G*<sub>f</sub>: coefficients determined by height of building and roughness of terrain

2) Design of Main Structural Frame

Main structural frame will be of reinforced concrete. External and internal walls will be of brick masonry. However, structure for main roofs will be structural steel truss design for the large spans.

3) Piling Design

Foundations will be supported by cast-in-place reinforced concrete piles, 800 and 1,000 mm in diameter. The bearing soil will be clayey sand and gravel stratum lying 40 m below the present ground level.

## a) Axial Loads of Building

					(Unit: ton)
Axis Code	1	2	3	4	5
А	47	77	90	92	60
В	79	107	109	113	91
С	88	127	135	148	104
D	89	130	135	148	104
Ē	79	115	121	108	89
F	46	79	91	90	60

#### Table 2-4 Axial Loads For Each Column

Note: italics are central columns

- Average Axial Load (for perimeter columns): 80.8 ton
- Average Axial Load (for central columns) : 124.7 ton
- b) Bearing Capacity of Piles

Bearing Capacity of piles is calculated from the formula;

#### Ra = (Rp + Rf)/3 - W

Where Ra: Bearing Capacity of Pile

Rp: Bearing Capacity at Tip

Rf: Friction factor

W: weight of piles excluding displaced soil

From the boring investigations data and the above formula, the following bearing capacity for piles are calculated as follows:

Table 2-5	Bearing	Capacity	of Piles
-----------	---------	----------	----------

Diameter of Pile	600 mm	800 mm	1,000 mm
Bearing Capacity (ton)	61.3	92.6	129.4

### c) Settlement Factor

Settlement factor requires bearing capacity to be reduced by the negative friction caused by settlement of the soil. However, the boring data show that the negative friction in this case is negligible, as settlement occurs over a period of around 315 years.

d) Required Number of Piles

From the above analysis, it has been determined that the perimeter piles should be 800mm diameter and the central piles be 1,000mm diameter, with 18 and 12 numbers, respectively.



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The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City



The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City



Figure 2-5 ROOF PLAN (Scale:1/200)

The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City



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**Basic Design Study Report** 

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Figure 2-9 THE LAYOUT OF MULTI-PURPOSE ROOM AND SEMINAR ROOM

The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City

- (6) Building Service Systems Design
- 1) Electrical System

Receiving voltage of power will be 15/22 kV to comply with the Electricity of Viet Nam's (EVC) future standard distribution voltage to which EVC is planning, to unify in their development plans. The present power supply is 15kV up to D2 road 300 meters from the site.. The power receiving equipment will be a convertible type of 15 kV and 22 kV with a capacity of 150 KVA.

Power supply is generally unstable in Viet Nam and a diesel generator with the following specifications will be provided:

•	Rated power output	: 50 KVA (for partial lighting, CPU, fire
		protection system etc.)
•	Fuel	: Light oil (JIS K2204-2 or equivalent)
•	Diesel engine	: Linear 4-cycle, water cooled
•	Generator	: 3-phase synchronized alternate current
		generator, horizontal axis, air cooled

#### a) Power Receiving System

Electric power for the Project facilities will be received at the power room on the first floor. As Ho Chi Minh has frequent power failures, the Project will be provided with uninterrupted power supply units (UPS) for computerized equipment and a back-up generator for general purposes.

The electrical system and equipment will comply with the following standards:

- Electricity of Viet Nam (EVN)
- Japanese Industrial Standards (JIS)
- Japan Electrotechnical Standards (JES)
- Japan Electrical Manufacturers Association Standards (JEM)
- International Electrotechnical Commission Standards (IEC)
- Japan Cable Standards (JCS)

Equivalent international standards will also be allowed.

a) Main Power Circuits

Power lines will be taken from the external receiving panels and into the Power Room. Lines from the low-tension distribution panels will distribute power to each requirement at 380/220 V, 50 Hz. UPS devices will be provided for training equipment as required.

b) Lighting and Power Outlets

Lighting system for each room will be planned with due consideration to low running cost and easy maintenance while securing proper luminance levels. Luminance levels in major rooms will be determined according to JIS standard taking into consideration the local conditions as shown in Table 2.5. In order not to interrupt ongoing training activities, power will be supplied to the major rooms at power failure from the diesel generator.

c) Telephones and Facsimile

Existing telephone lines will be extended to VJCC to provide 15 circuits among which 8 circuits will be used for normal telephone communications, 1 circuit for the facsimile in the administration office and 6 circuits for internet connections router.

d) Paging System

Emergency paging system will be provided in the major rooms. Amplifier and microphone will be installed in Administration Office.

e) Fire Detection System

Automatic fire detecting system will be provided throughout the building based on Japanese Fire Prevention Standards.

f) Television Antennas

Television antennas and receiving equipment for satellite transmissions will be provided. Parabolic antennas will be installed on the roof of the building for satellite transmissions. Receiver outlets will be provided in the Director room, Instructor Room, Multi-Purpose Room, Seminar Room and Library.

g) Lightning Protection System

Lightning protection system will be provided to protect computer systems and other sensitive equipment.

- 2) Plumbing System
  - a) Domestic Water Supply

Water will be received by an underground water reserve tank, then lifted up to an elevated water tank on the roof of the building. The elevated tank and the underground tank will have capacity of  $2 \text{ m}^3$  and  $10 \text{ m}^3$ ,

respectively. Plumbing fixtures will be western type, such as water closet with cistern tank.

b) Hot Water Supply

Hot water will be supplied by electric hot water heaters in Canteen on the second floor and Kitchen on the second and third floors.

c) Soil Water Drainage

Soil water from toilets and kitchens will be conducted to a sewage reception drain pit constructed in the site and the water discharged to the existing sewage manholes along D5 road.

d) Fire Protection System

Indoor fire hydrant system will be provided according to the Japanese Fire Code. Power for the fire pump unit will be supplied from the diesel generator.

- 3) Air Conditioning & Ventilation Systems
  - a) Air Conditioning Systems

Air conditioning system will be provided to such major rooms as seminar rooms, multipurpose room, administration office, library, lobby and director rooms to counter the high temperature high humidity summer in the region. Air conditioning equipment will be split multi-type units which can individually be controlled locally. Indoor units will be either ceiling mounted, wall mounted or floor mounted types according to the room conditions.

b) Ventilation System

Air-conditioned spaces will be accompanied with ventilation equipment to take in outdoor fresh air and exhaust stale air. Other spaces such as toilets where ventilation is necessary will be provided with wall mounted propeller fans.

The above building service systems are summarized in the following Table 2-5.

Floor No	o. Name of Room. Area	Air Cond.	Ventilation	Potable	Hot	Lighting [	llumination	Receptacle	Fire Alarm	Speaker	TV outlet	Telephone	Remarks
		(Cooling)	(Mech.)	Water	Water	Normai	Emergency	e:earth		Emergency		Outside Oint	
	4											F : Facsimile	
		   - +										I:Internet	
d FL													
<u>ц</u>		1	I	i	I	150	150	C	C	С	ł	for nublic line	
-	Control		C	c	C		8						
	Carreet		>	>		8		» )	>				
-	Control Dark Darkin Aver												
		C	¢					Ċ	C	C	C		
		2	>	)	)	3		D D	2	2	5		
	Guidance Comer	(	(			000	, ,	C	C	C			
	Study Booth	С	0	ı	1	300	150	°	þ	C	ı	ı	
	Book Storage	1	0	ı	I	300	150	°	0	0	1	I	
T	Director Room	0	0	1	1	200	8	0	0	0	0	+	
	Secretary Room	0	0	ı	1	300	150	0	0	,	1	0	
	Recention Room	c		,	ı	200	<u>e</u>	c	c	С	С	C	
י   	Administration		bc	,	1		150	c	bc	bc	) +		
	forter the Boom			,	,	ŝ	25				1	+	
	Masting Door			,	,	202	8 -	s	bc		-		
						200	2					bo	
<b>u</b>				,	•	202	2	S		5		5	
+	Fantry		50	•	(	3	1	'	C	1	•	I	
-		5	5		ז	nei	nei	a D	S	•	ı	I	
	Ctaircono 1					150	150			,	-	1	
+	Ordifi Case 1					3	2						
_	Staircase 2	1	1	,	۰ 	2001	ncl	1	1	1	1	ı	
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Table 2-5 Summary of Building Service Systems (1/2)

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#### The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City

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Table 2-5 Summary of Building Service Systems (2/2)

(8) Basic Design of Training Equipment

The Training Equipment component of the Project will be comprised mainly of audio-visual equipment and computers for training and facilities for information services and administrative office equipment and furniture.

The Training Equipment will be provided for all three zones of the Project facility: Cultural Exchange/Lobby Zone, Seminar Zone, and Administration Zone as outlined below:

1) Cultural Exchange/Lobby Zone

The Cultural Exchange/Lobby Zone will be a place to receive visitors and trainees and is composed of the lobby and library on the second floor. Here information services and cultural exchange activities will be conducted.

- a) Lobby: The lobby will have a 42 inch flat panel plasma display unit continuously showing video programs introducing Japan's culture, technology and nature. Control unit for display will be installed in the control desk in Library.
- b) Library: The library will have 10 booths for viewing the internet, which can be connected to a printer. In addition, 2 units of audio-visual booths for viewing video programs on Japan's culture, technology etc. will be provided for the trainees and visitors. There will be 5 self-study booths for the trainees that will be acoustically insulated from the main room and 2 guidance booths where guidance services will be rendered to prospective overseas study students. Bookracks will be provided in a stacking space with a capacity for 5,000 books.
- 2) Seminar Zone

The Seminar Zone will be located on the third floor and constituted of the multipurpose room, seminar rooms, computer room, cultural exchange room and Japan Club room to conduct various seminars and lecturers.

- a) Multi-purpose Room: Multi-purpose room will be formed by combining three small seminar rooms on the south side of the third floor, where the movable partitions can be folded away, creating a large space capable of accommodating over 100 people. The Multi-purpose room will have audio-visual equipment for various presentation purposes, including sound system, video projector, computer presentation unit, screens etc. to support various seminars and lectures. The booth for simultaneous translation will be placed in the storage adjacent to the Multi-Purpose Room.
- b) Seminar Room: The room on the north side of the third floor is designed as a seminar room for holding general seminars and will accommodate about 72 people. It will have one set of portable audio-visual and computer presentation equipment.

- c) Computer Room: The computer room will have 20 computer sets for the trainees and one server computer for the instructor together with a printer and scanner. The computers will be joined in a Local Area Network (LAN) system through a free-access floor raised 150 mm above the floor slab. Uninterrupted power supply unit (UPS) will be provided for the computers
- d) The Cultural Exchange Room; The Cultural Exchange Room will be designed as a Japanese 'tatami' room and have an ante-room, which also be the storage space for excess furniture when the Multi-purpose room is used for special functions.
- 3) Administration Zone

The Administration Zone is located on the second floor constituted of Director Room, Administration Office, Reception Room, Meeting Room, Instructor Room etc. where administrative services are rendered.

- a) Director Room: A director room will be provided with sufficient space for two desks as there will be a co-representative from Japan normally residing in Hanoi during the Project-type Technical Cooperation period, who will periodically visit Ho Chi Minh. The room will be furnished with appropriate desks, chairs and bookshelves.
- b) Reception Room: Reception furniture for 15 persons is included in the Training Equipment list.
- c) Administration Office: Lockable cabinets will be provided for 6 staff along with desks, chairs, a copy machine and facsimile machine.
- d) Instructor Room: The room will be used by the teaching staff including the Japanese experts dispatched under the Project-type Technical Cooperation Scheme.
- e) Secretary space: A Secretary space will be provided adjacent to the Director room.

The equipment and furniture provided in the above rooms are summarized in the Table 2-6 below.

1/1	Description/Remarks			ma Display in Lobby, Administration of Library, nputer Room 31 15", PenIII, RAM64MB, HD12G Japanese), Vietnamese font, Office2000	iomy5min., PC for Instructor of computer room, Administration of Library	tonomy 5min., For 5 sets of PC/UPS	letwork, monochrome. A4 size	IZ6	mputer Room, 12port hub for Internet booth in Library.	, Cables		ed under ceiling. manual operation, 2440x1830mm ase=2200mm)	tri-pod stand, 2000x1500mm	d stand, 1800x1800mm	ervice for visitors in Lobby with 42"Plasma Display		m for Lobby, 42" size , multi-media (multi-video source & w/stereo speakers	m for Lobby, multi-video source	m for Lobby, Digital Source(MPE2)	m for Lobby, Analogue CS Source	m for Lobby, VHF.UHF multi-source	m for Lobby. 14"CRT, multi-source	m for Lobby, Video, Computer, Tuner Sellector	m for Lobby, Modulator, RF Mixer	m for Lobby, For plasma display and CS Tuners	m for Video and CS Tuners
ţţ				For Control of Plas Internet Booth, Cor Desk Top PC w/Cf Windows98(English,	650VA400W, Auton Lobby Display and	2000VA1600W, Au	Lazer Printer, for N	Flat bed type. A4 s	24 port hub for Cor Cables	Router for Internet		120 inches size, fix (height including ca	100inches size w/	For OHP, w/tri-po	For Audio Visual So and speakers		Audio Visual Syste computer input). Wall-hanging type.	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste	Audio Visual Syste
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	Equipment & Furniture List	Name of Equipment or Furniture	1. Computer	Personal Computer	Uninterrupted Power Supply (UPS) Small	Uninterrupted Power Supply(UPS) Medium	Printer	Scanner	Devices for Network	Devices for Internet	2. Audio Visual Equipment	Screen (Ceiling type)	Screen (Portable type)	Screen (Portable type)	Audio Visual System (Lobby)	Configuration	42" Wide Plasma Display	Video tape recorder	Idegital CS Tuner	Analogue CS Tuner	WHF, UHF TV Tuner	K Color Monitor	Remote Controller	Modulater, connection devices	Power Supply Unit	Distribution and Back
				1	1-2	1-3	1-4	1-5	1-6	1-1				_	-		2-4-1	2-4-2	2-4-3	2-4-4	2-4-5	2-4-6	2-4-7	2-4-8	2-4-9	01-4-10
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2/4	Description/Remarks		stem for Video and CS Tuners	stem for Multi-purpose Room and Seminar Room		e and PC source, LCD x3, 600ANSI Lumens, 30-300 inches	) Projector, multi-video source	g and output sellector, panel type, 6 input lines	n of audio source. rack mounted type	e, 200Wx2, Stereo	tte source, double deck		peech	ox type, 150W max input	20-375mm	00-1500mm	260–2000mm	equipment, 700x1200mm, w/connection panel	lectin equipment, bulk material, tools	audio visual equipment, 12 outlet	ar Room		en lamp (w/1 spare lamp), 3500lumens		cool, pen type		a an an an an an an an an an an an an an	h in Libray, Duai Cassete tape recorder	h in Libray, Amplifier for headphone	h in Libray, For audio monitor	h in Libray, For control of power, audio volume, taperecorder
			Audio Visual Sy	Audio Visula Sy		For Video sourd Projection size:	Video source to	For Audio Mixin	For equolization	For audio sourc	For audio casse	For CD source	For lecture or s	For loudness, B	Stand height: 2	Stand height: 9	Stand heighr. 1.	For audio visua	Cables for conr	Power Unit for	OHP for Semin		36V 400W, Halo	Films for OHP	Lazer pointing t			For Study Boot	For Study Boot	For Study Boot	For Study Boot
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	Equipment & Furniture List	Name of Equipment or Furniture	I Connection Cables	Public Address Equipment w/microphone	Confiuration	Multi-media Projector	2 Video tape recorder	3 Audio Mixer	4 Graphic equolizer	5 Amplifier	6 Cassete tape recorder	7 Compact Disc Player	8 Dinamic microphone	9 Speakers	0 Microphone Stand, Table top type	I Mcrophone Stand. Floor type	2 Tri-pod stand for speakers	3 Movable Equipment Rack	4 Connection Cables	5 Power Supply Unit	Over Head Projector	Confiuration	1 Over Head Projector	2 Transparancies	3 Lazer Pointer	Language Study Equipment	Configuration	1 Audio Cassete Tape recorder	2 Headphone Amplifier	3 Headphone	1 Control Pane
		No	2-4-1	2-5		2-5-2	2-2-2	2-2-	2-5-	2-5-1	2-5-1	2-5-	2-2-	2-2-1	2-5-1	2-5-1	2-5-1.	2-5-1	2-5-1	2-5-1	2-6		2-6-	2-6	2-6-	2-7		2-7-	2-7-:	2-7-	9-7-1

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3/4																											
	Description/Remarks			Desk top type. Copy size A3-B5	G3 type, normal paper, A4 size		For Director Room: Wooden, 1600x800x700mm	For Director Room: Steel chair w/arm rest, Seat and back: fabric	For Director Room: Wooden, 1800x800x600mm	For Director Room: Steel chair w/arm rest. Seat and back: fabric	For Administration Room: Steel , 1400x700x700mm, one cabinet	For Administration & Instructor Room: Steel, 1400x700x700mm, double cabinets	For Japanese Culture Exchange Room: Wooden, 300x800x350mm	For Multi-purpose Room: Steel, 1800x600x700mm	For Multi-purpose Room: Steel, Sear and back: fabric, Stackable,	For Computer Room, Instructor: Steel, 1400x700x700mm	<sup>o</sup> or Internet booth, Study booth in Library and Computer Room (Students): Steet, 1000x700mm	<sup>7</sup> or Meeting Room, Japan Club: Steel, 1500×600×700mm	<sup>−</sup> or reading corner in Library. Steel, 1400×900×700mm	<sup>c</sup> or audio visuat corner in Library. Steel, 1200x700x700mm	<sup>5</sup> or guidance corner in Library. Steel, D=900mm Round table	°or Control Desk in Library: Steel, 4800х700х700н8700−1/4гоилd+1600х700х700mm	čor Administration Room: Steel, wo∕arm, ≷eat and back: fabric	or Administration & Instructor Room: Steel, v/arm. Seat and back: fabric	"or Reception Room: Wooden, w/arm rest. Seat and back: wooden, 800x800mm	or Reception Room: Wooden, wo∕arm, Seat and back: wooden, 500×500mm	or Director Room: Wooden , w/glass door, 915x458x1820mm.
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	Equipment & Furniture Lis	Name of Equipment or Furnit	3. Business machines	Copy machine	Facsimile	4. Furniture	Desk (Director Room)	Chair (Director Room)	Meeting table (Director Room)	Meeting chair (Director Room)	Desk (Administration Room)	Desk (Administration & Instructor Room	Japanese table	Table (3persons, folding type: L=1800)	Chair	Desk for PC	Desk for PC	Meeting table	Table for reading area	Table for audio visual corner	Table for guidance corner	Control Desk for Library	Chair (Administration Room)	Chair (Administration & Instructor Room,	Meeting chair (Reception Room)	Meeting chair (Reception Room)	Bookshelf (Director Room)
		No.		3-1	3-2		4-1	4-2	4-3	4-4	4-5	<b>4</b> -6	47	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4~19	4-20	4-21

List
Furniture
Equipment
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e 26
Table

4/4

Description/Remarks		For Administration and Instructor Room: Steel, 880x400x1850mm	For Director Room, Administration and Instructor Room, Japan Club Steel, 900x500x1800mm	For Bookrack in Library: Steel, 1840x300x2270mm	For Magazine rack in Library and Japan Club: Steel, 1840x300x2270mm	For Video rack in Library: Steel, 1000x500x1800mm	For Multi-purpose Room, Seminar Room: Steel, 6000x1200mm	For Computer Room: Steel, 2400x1200mm	For Multi-purpose Room, Seminar Room: Steel, w/stand, 1800x900mm	For Mutti-purpose Room, Seminar Room: Wooden, 1800x1000mm	For Mutti-purpose Room, Seminar Room: Wooden, 800x800x1100mm	For Multi-purpose Room. Seminar Room: Steel type. 700x700mm w/caster	For Lobby, Steel base, Stool type, Seat: fabric, 600x600x300mm	For Library. Wooden cabinet, 700x500x900mm	
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Equipment & Furmiture List	Name of Equipment or Furniture	Document Rack (Administration & Instructor Room, Computer Room)	Locker	Bookrack (Books)	Magazine rack (Magazines)	Video rack	White board (Wall hanging type)	White board (Wall hanging type)	White board (movable type)	Dais	lectern	Wagon for projector	Lobby Chair	Bookcard Cabinet	
	No.	4-22	4-23	4-24	4-25	4-26	4-27	428	4-29	4-31	4-32	4-33	4-34	4-35	

Basic Design Study Report Chapter 2 Contents of the Project

The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City

## 2-4 Execution of the Project

#### 2-4-1 Organization

The Project will be conducted in concert with the Project-type Technical Cooperation at its inception.

The actual Implementation Plan will be formulated during the period of the said Technical Cooperation by the Japanese experts and Vietnamese staff. The administrative organization, training curriculum, tuitions, and number of trainees to be accommodated will all be optimized reflecting the actual operational experience gained during this period.

An organization structure of the Project as proposed by the Vietnamese side is shown in Figure 2-10, which has been worked out based upon their experience in business seminars in the past and therefore should be taken as a tentative idea. It was presented here with the purpose to calculate financial viability of the Project at this stage. The organization chart indicates number of personnel in each section, but does not include lecturers.

The execution agency of the Project on the Vietnamese side is the Foreign Trade University (FTU), and therefore, the Project will be supervised and administrated by an advisory board staffed with personnel of the University.

### 2-4-2 Budgetary Measures

(1) The annual budget for FTU for 1999 is presented below:

Table 2-7	Annual	Budget	of FTU	

Items	Amount (VND)	
Income		
From Governmental Budget	10,027,000,000	
Tuition, etc	10,328,000,000	
Total Income	20,355,000,000	
Expenses		
Salaries, etc	988,000,000	
Training Activities	8,850,000,000	
Maintenance (including procurement of equipment)	6,937,000,000	
Research Activities	497,000,000	
Scholarships, etc	805,000,000	
Others	2,000,000,000	
Total Expenses	20,077,000,000	



Figure 2-10 Organization Chart of FTU



Basic Design Study Report Chapter 2 Contents of the Project

The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City

- (2) Budgetary Measures for VJCC-HCMC
- 1) Income from Courses

The Center is to be economically and technically independent in the future. This has been confirmed many times between the participating parties of both countries. All courses will charge tuition. A tentative course schedule is shown below.

	Course	Number of courses	Annual Cycles	Annual No. Courses	Students per course	Annual No. Students (max)
Business	Business	10	3	30	30~40	1,200
Course	Computer	15	2	30	15~20	450
Japanese	Language Course	4	2	8	30~40	240

 Table 2-8
 Course Structure

This table shows that there will be ten different business courses, each held 3 times annually, for total of 30 courses per year.

The total annual income can be calculated from this table and the projected tuition for each course (Business Courses US\$30/course, Japanese Language Courses US\$120/course and Computer Courses US\$50/course) as shown below:

	Item	Annual Students	Fee per Course (US\$)	Amount (US\$/year)
Business Courses	Business Courses	1,200	30	36,000
	Computer Courses	450	50	22,500
	Total	1,650		58,500
Japanese Language Courses		240	120	28,800
Grand Total		1,890		87,300

 Table 2-9
 Income from Training Courses

#### 2) Maintenance and Repair Costs

The day to day maintenance of building services, including daily operations, periodical checks and repairs will be carried out by the administration section in the tentative organization chart of VJCC shown in Figure 2-11. Heavy maintenance including replacement of defective equipment will require separate budgetary measures. Operation of Training Equipment
will be the responsibility of the instructors. Technical competence is expected to be transferred during the transition period under Project-type Technical Cooperation Scheme. Estimate of maintenance and repair costs are shown below:

- Maintenance of building facilities: broken glass, repainting, etc US\$250/month X 12 = US\$3,000/year
- Maintenance of building services:
  Operation and maintenance of diesel generator = US\$3,000/year
- Check and repair of air conditioning equipment = US\$2,000/year
- Check and repairs of pumps, piping, etc = US\$1,000/year
- Training Equipment: operation and maintenance of <u>audio-visual equipment and computers, etc</u> = <u>US\$1,500/year</u> Total Annual Maintenance Costs = US\$10,500/year

### 3) Operation Costs

The operation costs of the VJCC-HCMC consist of salaries for staff, instructors fees and heating and lighting costs. The sums can be estimated as shown below;

• Staff Salaries are determined by multiplying by 12, the monthly salaries shown below.

Director	2,000,000 VND/month (US\$143/m)
Co-Director	1,600,000 VND/month (US\$114/m)
Section Chiefs	1,300,000 VND/month (US\$ 93/m)
Librarian, Senior Staff	1,000,000 VND/month (US\$ 71/m)
Secretary	700,000 VND/month (US\$ 50/m)
General Staff	500,000 VND/month (US\$ 36/m)
Total Annual Salaries	212,400,000 VND/month (US\$ 15,171/year)

• Instructor's fees are charged according to reputation, academic ranking, etc.

Average Instructor's Fee50,000~70,000VND/hour (US\$ 3.5~5/h)Special Instructor's Fee140,000VND/hour (US\$10/h)

The total working hours of instructors is estimated by averaging the courses over the course of a year, 42 weeks, 5 days per week, 5 hours per day. The fees for average instructor is taken as the mean of 60,000VND/h and the balance between average and special instructors is estimated to be 7:3. From this it can be calculated that total annual instructor fees are 88,200,000VND annually (US\$ 6,300).

• Research Activities

Research Activities are estimated from present percentage of present annual FTU budget (6.5%). US\$7,300 × 0.065 = US5,675

• Heating and Lighting Costs

[Electricity Charges]

Electricity charges are calculated by taking the total receiving capacity 150kVA, estimating the percentage of equipment running at the same time to be 60% and estimating the actual operating time as, 6 hours per day, 5 days per week and 42 weeks annually. The cost per watt/hour as provided by EVN is 810 VND/W·H.

 $150 \times 0.6 \times 810 \times 6 \times 5 \times 42 = 91,854,000 \text{ VND/Year} (\text{ US}$6,651/y)$ 

#### [Water Charges]

The water charges are calculated by multiplying the daily usage per person (55  $\text{m}^3$ /person·day) and estimating the annual usage personnel numbers as follows;

Staff 17 × 42 × 5+ students 1200 × 7+240 × 45+450 × 45) = 43,020 person·day/y Annual Usage: 43,020 person·day/y × 55 m<sup>3</sup>/person·day = 2,365 m<sup>3</sup>/year Water charges per cubic meter is 2,571VND. Annual Water Charges are 2,571 VND m3 × 2,365m3/year =6,080,415 VND/year (US\$434/year)

Summarizing the above calculations:

Salaries	US\$15,171/year
Instructors Fees	US\$ 6,300/year
Research activities	US\$ 4,300/year
Heating and Lighting Charges	US\$ 6,995/year
Total	US\$32,766/year

These operation costs (US\$32,766) added to the above maintenance costs (US\$10,500) are US\$43,266 annually and are considerably lower than the estimated income of US\$87,300. Although the estimates are for normal years and income revenues may fall below estimates during the initial phase until VJCC-HCMC establishes a reputation and a full curriculum is offered, the difference between projected income and expenses is considered to be sufficiently large to ensure viability of the Project.

### 2-4-3 Project Personnel and Competency

The competency of the instructors will certainly hold the key to the success of the Project. All instructors according to the FTU plan will be engaged on a part time basis who will be recruited from all possible fields, including university professors

and lecturers, outstanding people in specialized fields and successful business executives. The extensive network of FTU alumnae will be fully utilized in this regard. Furthermore, the Project-type Technical Cooperation Scheme is expected to train computer or Japanese language instructors from the most capable students. Salaries of public school instructors is extremely low and the taking of part-time jobs is not prohibited in Viet Nam. This will facilitate the procurement of capable personnel.

The capability of FTU maintenance personnel in the field of operation and maintenance of the Training Equipment and building service systems will not be a hindrance, for FTU already has and are familiar with equivalent computers and LL equipment as well as air conditioning equipment. The Training Equipment introduced in the Project and requiring familiarization will mainly be the audio-visual equipment in the multi-purpose room and library. The period of the Project-type Technical Cooperation should be sufficient for Vietnamese staff to get working knowledge and experience in maintenance and light repair of these equipment.

# **CHAPTER 3**

# **IMPLEMENTATION PLAN**

### CHAPTER 3 IMPLEMENTATION PLAN

### **3-1** Implementation Plan

### 3-1-1 Implementation Concept

### (1) Basic Principles

Almost all construction companies in Viet Nam are former construction and maintenance divisions of State owned enterprises, which have been privatized following the Doi Moi Policy. They have gained considerable experience in foreign construction techniques through sub-contraction work on hotels and hi-rise buildings built in Ho Chi Minh by foreign investment under major foreign construction companies as the main contractor. The local construction companies can be recognized as having sufficient experience for this Project to work under a Japanese contractor.

Most construction materials and construction equipment can also be procured locally.

As a basic principle, locally available materials and construction methods will be used. However, there are some inferior quality goods on the local market, and they will be eliminated by strict adherence to technical specifications and on-site supervision by the Consultant.

### (2) Execution Agency

The execution agency of the Project on the Vietnamese side is the FTU, and therefore, the Project will be supervised and administrated by an advisory board staffed with important persons of the university.

FTU has considerable construction supervision experience through their on-going improvements at their Hanoi Campus. FTU is deemed to have sufficient administrative expertise to organize supervision staff for the Project.

### (3) Consultant's Responsibility

Under the conditions of Japan's Grant Aid Scheme, all consulting activities are the responsibility of the Consultant. However, obtaining building permits in Viet Nam is a complicated and long process conducted entirely in Vietnamese. FTU is supremely qualified to undertake responsibility for this portion as it has recently constructed several new buildings for its Hanoi Campus. It was therefore agreed

between the Study Team and FTU that FTU will assume responsibility for obtaining building permits for the Project Facilities.

### (4) Utilization of Local Contractors

As has been mentioned previously, major local contractors have experience with high-rise buildings and they are considered to be competent to construct the Project facilities.

However, the movable partitions are not well known in Viet Nam and local contractors do not have sufficient experience for installation of the partitions. Therefore, procurement and installation supervisory staff for movable partitions will be from Japan.

Equipment procurement will not require heavy installation work. However, there is the need for skilled staff to supervise connections and initial running of sensitive equipment, requiring staff from Japan for installation supervision.

### (5) Responsibility of JICA

JICA will be responsible for overall supervision and guidance of the construction of the Project to ensure that it meets the purpose of Japanese national policy and follows the basic principles of Japanese Grant Aid. They will verify and monitor that the Project is properly conducted through on site inspections and monitoring of the monthly progress reports. Finally, they will approve the completion of the Project after conducting inspections at completion of construction works.

- (6) Construction Planning
- 1) Construction Period:

Ho Chi Minh City where the Project is sited is located, lies inland at about 20 km west of East China Sea and is the primary international trade port in Viet Nam. The site for the project is located about 5 km north of the center of the city. The Saigon port facilities are located about 7 km from the site along the Saigon river.

The construction of the Project facilities is estimated to take 11 months from its commencement in consideration of the location, the soft ground situation and other natural and social conditions around the site and local construction conditions. (A tentative construction schedule is shown in Figure 3-1.) 2) Construction Method:

Construction materials and construction machinery which are available locally will be used as much as possible and local construction methods and practices which are acceptable will be accommodated to the extent possible. Cast in place pile foundation will be used and superstructure will be reinforced concrete frame with brick walls and mortar finishing.. Steel trusses will be designed for large span roofs. Work and stock yards will be carefully planned within the space allowed in the site area to carry out efficient and safe construction procedures.

### 3-1-2 Particular Consideration on Construction

Basic principle in execution of construction works will be as given below:

1) Strict observance of construction period

The Japanese consultant will supervise the progress of works and render guidance to the contractor so that the construction is on time and meets all milestone dates.

2) Securing quality and quantities of works

The Japanese consultant's resident engineer will pay careful attention to the quality of works in the field so that they will fully comply with the drawings and specifications without any omission to completion of the Project Facilities.

3) Cast in place pile foundations

The cast in place pile foundations are a recent innovation to Viet Nam and special care will be taken during the Construction Supervision Phase to ensure sound and strong foundations. Safety during construction will also be strictly monitored

4) Safety in construction

Utmost care will be exercised by all the construction parties to maintain safe conditions, especially giving priority to the surrounding housing as well as to other third parties.

Based on the above principles, the following items will be given special attention during construction

1) Noise suppression

Although the construction activities will be conducted in a sparse residential area, noise and dust generated at the construction site will be kept to a minimum. Construction activities creating noise and dust will avoided from night to early morning.

2) Building permit

For the Project Facilities, a building permit will have to be granted from the Chief Architect of Ho Chi Minh. FTU is familiar with the procedure through its experience in previous school building constructions. The Japanese consultant will entrust the procedures to FTU to obtain building permits, etc., by the concerned authorities, so that there will be no delay in the progress of construction owing to these administrative formalities.

3-1-3 Scope of Works

The demarcation of responsibility to implement the Project between Japanese and Viet Nam sides are summarized in Table 3.1.

	Japanese Side	Vietnamese Side
Temporary Works	<ul> <li>Temporary site office</li> <li>Stocking yard of construction materials</li> <li>Temporary power supply, water supply and sewage</li> </ul>	<ul> <li>Land acquisition</li> <li>Site clearance of existing obstacles and leveling</li> <li>Obtaining of building permits</li> </ul>
Construction Works	• Construction of building	<ul> <li>Power distribution line connection to power receiving panel</li> <li>Water supply connection and meter</li> <li>Telephone handsets and connection</li> </ul>
Furniture	<ul><li>Seminar room furniture</li><li>Office equipment and furniture</li></ul>	• Consumables, etc.
Training Equipment	<ul><li>Information service equipment</li><li>Computers for training</li><li>Audio-visual system for seminar</li></ul>	
Exterior Works	<ul><li>Paving for car parking</li><li>Paving for passageways</li></ul>	<ul><li>Landscaping</li><li>Gate and fence</li></ul>
others	Obtaining necessary permits	<ul> <li>Construction of D5 road</li> <li>Provision of infrastructure facilities along D5 Road</li> </ul>

Table 3.1Demarcation of Works



#### Basic Design Study Report Chapter 3 Implementation Plan

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The Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City

### 3-1-4 Consultant Supervision

(1) Construction Supervision and Detailed Design Personnel

The Japanese consultant will send Japanese engineers to Viet Nam to supervise construction during the construction period. The staff and their job assignment will be as described below;

1) Project Manager:

He will manage all aspects of detail design, tendering and construction supervision.

2) Building Engineer:

He will be responsible during design period for design of architecture and structure of the building facility. In the construction supervision phase he will be the resident engineer and as chief in the field responsible for overall supervision and guidance, including quality control, approval of shop drawings, construction schedule etc.

3) Building Systems Engineer:

He will be responsible during design period for design of electrical, air-conditioning and plumbing systems system in the building. In the construction supervision phase, he will be responsible for approval of shop drawings and correct manufacturing and erection of electrical system.

4) Equipment Expert:

He will be responsible during design period for Training Equipment design and specifications. In the construction supervision phase he will be responsible for approval of shop drawings, shop inspection and commissioning of the Equipment on site.

5) Construction Planner:

He will be responsible for construction planning and reviewing cost estimates prepared during basic design in detail and modifying project cost estimations as necessary..

(2) Construction Supervision

The engineers will include both resident and spot-dispatched engineers. The resident engineer's position will be filled by the Building Engineer among those listed above, who will be supported by the other engineers in a timely manner.

### 3-1-5 Procurement Plan

### (1) Labor Conditions

All construction related labors such as common labors, foremen, mechanics, machine operators are available in Ho Chi Minh. However, individual competency vary considerably and therefore skilled workmen on important jobs should be tested before employment by the Japanese contractor who undertakes the construction. Assistant engineers, field supervisors and the like who will support Japanese engineers can also be employed locally.

As regards the wages for labors, minimum wages are prescribed by law. However, they are mainly applicable to state projects and are not necessarily the same as the actual market rates. Wages for reliable skilled labors tend to be rather higher than the official rates. In order to secure quality workmanship as discussed previously, practical market rates will have to be used to employ quality workers.

### (2) Construction Materials

The material procurement plan for all works will be as shown in Table 3.2. All common structural materials are available in Viet Nam. Especially, ready mixed concrete is of good quality and well supplied in Ho Chi Minh. Steel structural materials and fabricating shop are available locally.

Window frames and local tile roofing material can also be procured locally as their qualities are acceptable. However, some inferior quality products are sold on the local market and care will be taken to eliminate them from being brought on to site.

On the other hand, the movable partition will be procured from Japan because of the sound proofing requirement.

Building service equipment will generally be procured locally. Regarding the air-conditioning equipment, Japanese and third countries' manufactured, products are readily available on the local market. However, third country products generally are not of high quality. Therefore, locally procured models of Japanese manufacturers will be specified.

### (3) Training Equipment

The Training Equipment to be procured under this Project is almost all generic audio-visual and computer products available on the market. However, some audio-visual equipment for the multi-purpose room and seminar rooms will be

required to be organized into a comprehensive and working system. Although, Korean and Chinese audio-visual products are readily available on the local market, they are known to have problems with quality control and may have compatibility problems when incorporated into a system.

Equipment procured under Japan's Grant Aid Scheme should be of high quality and have as few maintenance and compatibility problems as possible. Therefore, all equipment will be procured from reputable makers. Audio-visual equipment will be procured from Japanese producers while computers will be from major producers with factories in ASEAN countries such as Thailand, Singapore, and Taiwan.

These systems can all be procured from representative traders based in Ho Chi Minh, and support and maintenance will not be a problem. All furniture will be procured locally.

Installation and set-up of all equipment procured through local agents will be the responsibility of the local agent.

Equipment procured from Japan and third countries will be packed in containers for overseas and overland transportation and handed over on site in the containers. Sufficient space must be allocated on site during the these containers are stocked on site.

Table 3-2 summarizes the procurement sources of various materials and equipment incorporated in the Project Facilities.

### (4) Construction Equipment

Major construction equipment are all available in Ho Chi Minh City. For the major construction item in building, concrete casting, use of a concrete pump is not popular in Viet Nam. Casting of concrete is normally done by bucket and chute method.

This method can be employed for construction of the Project Facilities as well because the scale of the building is not so large.

Itom	Availa	ability	P	rocuremer	it	Nistas
nem	good	poor	Viet Nam	Japan	Third C	Notes
Sand	0		0			
Gravel, Crushed Stone	0		0			
Portland Cement	0		0			
Ready-mixed Concrete	0		0			
Steel Reinforcement Bars	0		0			
Concrete Formwork Panel	0		0			
Structural Steel			0			
Brick	0		0			
Metal Roof			0			
Local Tile Roof	0		0			
Movable Partitions				0		Requires sound insulation
Aluminum Windows	0		0			
Wood Doors	0		0			
Glass	0		0			
Tile	0		0			
Vinyl Floor Tile	0		0			
Paint	0		0			
Lighting Fixtures	0		0			
Electrical Distribution Panels	0		0			
Electrical Cables	0		0			
Electronic Equipment	0		0			
PVC Pipe	0		0			
Zinc Coated Pipe	0		0			
Plumbing Fixtures	0		0			
Pumps	0		0			
Water Tanks	0		0			
Air Conditioner	0		0			
Fire Hydrant	0		0			
Transformers	0		0			
Diesel Generator	0		0			
Personal Computer	0		0			
Audio-visual Equipment				0		
Seminar Furniture	0		0			Quality control is vital.
Office Furniture	0		0			

Table 3-2Procurement Plan

### 3-1-6 Implementation Schedule

According to the Procedure of the Grant Aid Scheme, implementation schedule of the Project will be as illustrated below:

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Detailed Design															Tota	l 4 m	onths	5		
Exchange of Notes																				
Detail Design Survey																				
Detail Design																				
Explanation to FTU &Tendering				=																
Construction															Tota	al 11	mor	ths		
Mobilization																				
Foundation Work																				
Structural Work																				
Finishing Work, Building Service Systems																				
Exterior Finishing																				
Special Works (Diesel Generator, Septic Tank)																				
Equipment Procurement															Tota	l 7 m	onths	5		
Shop Drawings (Manufacturing)														-						
Delivery																				
Installation & Testing																				

Figure 3-2 Implementation Time Schedule

### 3-1-7 Obligations of Recipient Country

In case the Project is implemented under Japan's Grant Aid Scheme, the recipient country, Viet Nam, and the Implementation Agency, Foreign Trade University, will be obligated to undertake the following measures. This matter was explained to the Vietnamese side at the time of Basic Design Study Survey and confirmed in the Minutes of Discussion.

- 1) Removal of all existing houses and obstacle to construction before commencement of construction.
- 2) Provision of power supply connection to receiving panel in site.
- 3) Provision of water supply and connections including water meter to site.
- 4) Connection of site sewage drain pit to main sewage manhole.
- 5) Telephone line connection to MDF in building.

- 6) Landscaping and planting of site.
- 7) Fencing and walling around site perimeter.
- 8) Obtain building permits.
- 9) Secure exemption of all tax and duty from any good or services provided for the Project under the Japan's Grand Aid Scheme.
- 10) Assure that all goods and materials imported for the Project under Japan's Grant Aid Scheme will be promptly unloaded, cleared through customs and delivered to the site.
- 11) Payment of banking charges incurred under the Banking Agreement.
- 12) Provide all necessary assistance to allow Japanese nationals to enter and reside in Viet Nam for the purposes of carrying out services under the certified contract.
- 13) Exempt Japanese nationals form all taxes and levies incurred in Viet Nam for the services procured under the certified contract.
- 14) Maintain and use the facility and equipment provided by the Project in an appropriate and effective manner.
- 15) Provide any necessary assistance in obtaining permits or governmental approval for the timely implementation of the Project.
- 16) Refrain from using the facilities and equipment procured under Japanese Grant Aid for commercial or military purposes.

#### **3-2 Project Cost Estimation**

The costs to be borne by the Viet Nam side in association with the execution of the Japan's Grant Aid Scheme for the Project are estimated to be US\$667,449 in total as broken down in Table 3-3 below. Of the total, US\$576,428 has already been disbursed during fiscal year 1999.

The remaining US\$91,021 will be expended from separate budget to FTU normal annual budget.

The conditions for cost estimation are as follows:

- 1) Date of estimate: August 2000
- 2) Exchange rate: 1US = 107.10 J Yen
- 3) Period of Construction: As shown in Figure 3-3

Item	Facility	Cost	(US\$)
		F/Y 1999	F/Y 2000
Preparatory Works	Land Acquisition	571,428	
	Removal Existing Housing	5,000	
	Leveling of Site		7,858
	Fencing Gate		22,357
Temporary Works	Obtaining Building Permits		6,000
	Power Line to Incoming Panel		29,858
	Water Supply to Site		11,000
	Connection to Sewage		715
	Connection to Telephone System		5,358
	Planting		7,875
	Total	576,428	91,021

#### Table 3-3 Cost Estimations of Vietnamese Obligations

### **3-3 Operation and Maintenance Costs**

The operational organization and operation and maintenance cost have been described in Section 2-4 hereinbefore. Administrative and maintenance planning are below.

(1) Operational and Administrative System

Regarding the maintenance of the Project facilities, day to day operation, inspection and repair will be the sole responsibility of the Center and separate from FTU. However, major repair or overhaul is planned to be assisted by the maintenance section of FTU. The Training Equipment on the other hand will be maintained by the Training Section, to which the experts of the Project-Type Technical Cooperation will render enough training during their tenure to enable Vietnamese staff to operate, inspect and repair these equipment on their own in the future. The major activities concerning operation and maintenance are described below:

- 1) Building Facilities: Inspection and repair of roof leakage, glass breakage, painting deterioration, breakage of locks, loose floor tiles, etc.
- 2) Building Services: Inspection and repair of power receiving equipment, diesel generator, air conditioning and ventilation equipment, sanitary fixtures and water pumps. Repair and resupply of light bulbs, etc.
- 3) Security and Cleaning: Security Guards, disposal of waste and garbage, etc.

- 4) Equipment: operation and maintenance of audio-visual and computer equipment, etc.
- (2) Procurement of Spare Parts and Repair Material
- 1) Building Facilities: parts and materials procured from Japan and difficult to procure locally will be provided with repair material at time of installation and kept in stock.
- 2) Building Services: Parts liable to breakage or wearing down and difficult to procure locally will be kept in stock.
- (3) Operation and Maintenance Cost

Building services equipment such as air conditioning equipment have a service life after which they must be replaced. Service life of major equipment are;

Air conditioners: 10yearsVentilation Fans: 15 yearsPumps: 15 yearsMotors: 15 years

# **CHAPTER 4**

# **PROJECT EVALUATION AND**

RECOMMENDATION

### CHAPTER 4 PROJECT EVALUATION AND RECOMMENDATION

### 4-1 Project Effect

In the Vietnamese government's primary policy plan "New Five-Year Development Plan (1996 – 2000)", the net annual GDP growth rate target has been set at 9 - 10%, including industrial growth which has been targeted at 14 - 15% as the main driving force of the economic growth. In the "Educational Development Five-Year Plan (1996 – 2000)" to work in concert with the Five-Year Plan, human resources development in higher education to meet the challenge of reorientation to a market economy, along with nationwide full primary education by the year 2000, has been set to as the most urgent issues.

The Project which will be implemented by Japan's Grant Aid Scheme with the primary objective of providing business courses to train people to adapt to the market-based economy is therefore truly compatible with the highest national policies and can be appraised to be very timely in meeting the urgent needs of the country.

The Japanese language training courses carried out in the Center will serve a similar purpose, affording a common language to help associate people more closely. This course aims at a higher level of study above day-to-day conversation needed for potential students planning studies in Japan or business trainees dispatched by local businesses or industries to Japan. The computer training courses on the other hand will attempt to train people who will be able to use the computer in the course of the business activities learned above. These courses, which will be also above basic-level training, will contribute to the growth of Vietnamese businesses and industries by guiding the use of computers toward system engineering, auto-design or production control, production management or quality control, marketing or business management, integration into global information networks etc.

The cultural exchange activities planned to be carried out as secondary activities in the Center is deemed to be significant from a long term view of the relations between the two countries. It will not only foster pro-Japanese sentiment among the people but "establish" a Japanese presence in Viet Nam, providing a venue where ordinary Vietnamese people can come into direct contact with up to the minute information on Japan. It will thus contribute to nurture friendly relationship between the two countries. The beneficiaries of the Project will thus be the Vietnamese businesses and industries in general and in a broad sense the Vietnamese economy, specifically those engaged in foreign trade, joint-venture companies, foreign companies, medium to large scale local enterprises etc. The effect, though not quantifiable, will be direct and immediate to these parties.

### 4-2 Recommendation

As far as the demand for the type of business courses intended at the Center is concerned, its existence in the market has been proved to be rather great particularly for modern and good quality lectures, through an extensive questionnaires and interviews with various business communities in the country conducted by the Preliminary Survey Mission for the Project dispatched by JICA as previously mentioned. And confirmed by the Study Team through interviews with similar facilities in Ho Chi Minh City. The Project can readily be justifiable in this regard. As for the computer and Japanese language training courses, the potential and latent demand for these courses aimed at practical and higher levels above basic or day-to-day conversation has not been addressed until now and therefore will not conflict with the private language schools which are mainly engaged in basic levels skills.

The important point in order for the Project to be successful will be how to secure good lecturers and instructors to continue to hold interesting and good quality lectures and training to attract many students or trainees. This will particularly hold true after the operation of the Project has been transferred to the hands of the Vietnamese party upon termination of the Project-Type Technical Cooperation Scheme by the Japanese government. To this end, it must be the main agenda for the Project to recruit and secure good lecturers and instructors from as a wide source as possible. In view of the far reaching personal connections and human network so far cultivated by the alumni of FTU in various business communities and institutions all over the country, coupled with the prestige of the Center, it is not considered to be practically difficult to overcome this problem.

## **APPENDICES**

- 1. Member List of the Study Team
- 2. Survey Schedule
- 3. List of Party Concerned in Viet Nam
- 4. Minutes of Discussions
- 5. Cost Estimation Borne by Viet Nam
- 6. Other Relevant Data
- 7. References

### Appendix 1. Member List of the Study Team

### [At Basic Design Study Survey]

- Mr. Akihiko HASHIMOTO, Leader Managing Director, Tokyo International Center Japan International Cooperation Agency (JICA)
- Ms. Makiko WATANABE, Coordinator
   First Project Management Division, Grant Aid Management Department
   Japan International Cooperation Agency (JICA)
- 3. Mr. Shin HINOMIZU, Project Manager/Architectural Planner Nippon Koei Co., Ltd.
- 4. Mr. Toshiaki HAKODA, Facility Planner/Equipment Planner Nippon Koei Co., Ltd.
- Mr. Toshiya WATANABE, Construction and Procurement Planner/Cost Estimator Nippon Koei Co., Ltd.

### [At Basic Design Draft Report Explanation Mission]

- Mr. Takashi HATAKEYAMA, Leader Deputy Representative, Vietnam Office Japan International Cooperation Agency (JICA)
- Ms. Makiko WATANABE, Coordinator
   First Project Management Division, Grant Aid Management Department
   Japan International Cooperation Agency (JICA)
- 3. Mr. Shin HINOMIZU, Project Manager/Architectural Planner Nippon Koei Co., Ltd.
- 4. Mr. Toshiaki HAKODA, Facility Planner/Equipment Planner Nippon Koei Co., Ltd.

### Appendix 2. Survey Schedule

		Day	Activities							
No.	Date	of the	Offic	cials	Consultant					
		week	Mr. Hashimoto	Ms. Watanabe	Mr. Hinomizu	Mr. Hakoda	Mr. Watanabe			
1	2/27	Sun	Tokyo - Hong Ko	ng - Ho Chi Minh						
2	2/20	Man	Visit to Site							
2	2/28	Mon	Courtesy Call to I	TU Branch and B	inh Tanh District (	Office				
3	2/29	Tue	Survey of Similar	Facility						
	_, _,	1.00	Ho Chi Minh - Ha	anoi	r					
			Courtesy call to E	OJ, JICA						
4	3/1	Wed	Discussion with N	IPI MOET and	Same as Official					
			FTU	in i, inoll'i unu						
5	2/2	Thu	Discussion with D		Same as Official					
5	3/2	Inu	Discussion with F	10	Survey on related	l project				
6	3/3	Fri	Discussion with F	TU	Same as Official					
0	5/5	111		10	Data collection					
7	3/4	Sat	Discussion with F	TU (Discussion	Same as Official					
0	215	0	on Minutes of Me	Determent						
8	3/5	Sun	Internal Meeting,	Data Analysis	Same as Official					
		Mon	Discussion with FTU		Discussion with FTU					
9	3/6				Subcontracting topo. survey and geo. investigation					
					Survey on construction matters					
			Signing of Minute	es of Discussion						
10	3/7	Tue	Reporting to EOJ	and JICA	Same as Official					
			Vietnam							
11	3/8	Wed	Hanoi - Tokvo		Discussion with H	FTU, Hanoi - Ho C	Chi Minh			
11	5/0	weu	Tianoi - Tokyo		Topo. survey	1				
10	2 (0	701			Preliminary	Topographical sur	rvey			
12	3/9	Thu			planning of	Investigation of c	onstruction			
					Discussion with	conditions				
13	3/10	Fri			FTU	Survey of constru	ction conditions			
					Survey on					
14	2/11	Set			consulting and	Ho Chi Minh H	noi			
14	5/11	Sat			construction	HO CHI MIIIII - H	anoi			
					businesses					
15	3/12	Sun			Team meeting, D	ata Analysis				
16	3/13	Mon			Survey on electric	c power, Discussio	n with FTU			
17	3/14	Tue			Survey on constru	uction matter, Prep	aration of interim			
						Discussion with subcontractor for survey				
18	3/15	Wed			Discussion with subcontractor for survey Reporting to FOI and IICA Vietnam					
19	3/16	Thu			Discussion with F	TU				
20	3/17	Fri			Confirmation wit	h FTU on agreed n	natters			
21	3/18	Sat			Hanoi – Tokyo					

### [At Basic Design Study Survey]

EOJ: Embassy of Japan

			0 1	1	-				
	Day			Acti	Activities				
No.	Date	of the	Offi	cials	Consultant				
		week	Mr. Hatakeyama	Ms. Watanabe	Mr. Hinomizu Mr. Hakoda				
1	8/6	Sun			Tokyo - Hong Kong - Ho Chi Minh				
2	8/7	Mon			Site Survey Discussion with FTU Branch, Ho Chi Minh - Hanoi				
3	8/8	Tue			Explanation of Draft Basic Design Report				
4	8/9	Wed			Discussion with FTU				
5	8/10	Thu	Courtesy call to MOE Discussion with FTU of Preparation of Docum	Courtesy call to MOET and MPI Discussion with FTU on Minutes of Discussion Preparation of Documents					
6	8/11	Fri	Signing of Minutes of	Discussion					
7	8/12	Sat		Hanoi - Tokyo	Discussion with FTU on detail construction matters Team Meeting				
8	8/13	Sun			Discussion with FTU				
9	8/14	Mon			Reporting to EOJ and JICA Vietnam				
10	8/15	Tue			Hanoi - Tokyo				

### [At Basic Design Draft Report Explanation Mission]

### Appendix 3. List of Party Concerned in Vietnam

Mi	nistry of Planning and Investment	
1.	Dr. DUONG DUC UNG:	General Director, Dept. of Foreign
		Economic Relations
2.	Mr. PHAM KIM CUNG:	Deputy Director, Dept. of Science,
		Education and Environment
3.	Mr. PAHN THANH TAIN:	Senior Expert, Dept. of Science,
		Education and Environment
Mi	nistry of Education and Training	
1.	Prof. Dr. TRAN VAN NHUNG:	General Director, Dept. of International
		Relations
2.	Dr. DUONG DUC LAN:	Deputy Director, Dept. of Planning and
		Finance
3.	Ms. NGUYEN THUY LOAN	Expert, Dept. of International Relations
Fo	reign Trade University (Ha Noi)	
1.	Ms. NGUYEN THI MO:	Rector
2.	Mr. HOANG NGOC THIET:	Vice-Rector
3.	Mr. TRAN VIET DZUNG:	Head, Academic Research &
		International Relations Dept.
4.	Mr. NGUYEN VAN CHAU:	Vice-Head, Academic Research &
		International Relations Dept.
5.	Mr. TRAN VIET DZUNG	Head, Dept. of Academic Research and
		International. Relations
6.	Mr. NGUYEN VAN HAO:	Vice-Head of Japanese Dept.
7.	Ms. LE THI LAN:	Staff-Secretary, Dept. of Academic
		Research & International Relations
8.	Ms. NGUYEN NGOC ANH	Staff-Secretary, Dept. of Academic
		Research & International Relations

# Foreign Trade University (Ho Chi Minh)1. Dr. HOANG VAN CHAU: Director, Vice Rector

4. Minutes of Discussion

### Minutes of Discussions

#### of

### the Basic Design Study on the Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City

in

### The Socialist Repubic of Vietnam

In response to a request from the Government of the Socialist Republic of Vietnam (hereinafter referred to as 'Vietnam'), the Government of Japan decided to conduct a Basic Design Study on the Project for Construction of Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City (hereinafter referred to as 'the Project'), and entrusted the study to Japan International Cooperation Agency (hereinafter referred to as 'JICA').

JICA sent to Vietnam the Basic Design Study Team (hereinafter referred to as 'the Team'), which is headed by Mr. Akihiko HASHIMOTO, Managing Director, Tokyo International Centre, JICA, and is scheduled to stay in the country from the 27<sup>th</sup> February to the 18<sup>th</sup> March, 2000.

The Team held a series of discussions with the concerned officials of the Government of Vietnam and conducted a field survey at the study area.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Team will proceed to further work and prepare the Basic Design Study Report.

Hanoi, 7<sup>th</sup> March, 2000

Mr. Akihiko HASHIMOTO Leader Basic Design Study Team Japan International Cooperation Agency

Professor, Dr. Tran Van Nhung General Director, Dept. of International Relations, Ministry of Education and Training

Professor, Dr. Nguyen Thi Mo Rector, Foreign Trade University

Witnessed by

Dr. Duong Duc Ung General Director, Dept. of Foreign Economic Relations, Ministry of Planning and Investment

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### ATTACHMENT

1. Objective of the Project

The Government of Vietnam and the Japanese Preliminary Study Team have confirmed by the Minutes of Discussions dated 8<sup>th</sup> February, 1999, that the Government of Japan will examine the Project-type Technical Cooperation to support the establishment of Vietnam-Japan Human Resources Cooperation Center (hereinafter referred to as 'VJCC').

Both sides also agreed that the outputs of the project were to establish a)Business Courses, b)Japanese Courses and c)Cultural Exchange programs and public information services.

It was agreed by the Minutes of Discussions dated 12<sup>th</sup> August, 1999, that the building of VJCC in Ha Noi and the appropriate equipment for the Center will be provided under Japanese Grant Aid. Moreover, it was noted that if found viable, Japanese side will dispatch a Basic Design Study Team aiming specifically at Ho Chi Minh Center (hereinafter referred to as 'VJCC-HCMC').

The objective of this Grant Aid Project is to contribute to the achievement of the above mentioned objectives by constructing the building and providing appropriate equipment for VJCC-HCMC.

- 2. Responsible and Implementing Organization
- 2-1 The Responsible organization is the Ministry of Education and Training (MOET).
- 2-2 The Implementing organization is Foreign Trade University (FTU).
- 2-3 The organization charts of the above agencies are shown in Annex-1.
- 3. Site of the Project

The project site is as shown in Annex-2.

4. Items requested by the Government of Vietnam

After a series of discussions, the Vietnamese side requested the items attached as Annex-3 and 4. JICA will assess the appropriateness of the request and will recommend to the Government of Japan for approval.

- 5. Japan's Grant Aid Scheme
- 5-1 The Vietnamese side has understood the system and characteristics of Japan's Grant Aid Scheme as described in Annex-5 by the Team.
- 5-2 The Vietnamese side will take necessary measures, as described in Annex-6, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.
- 6. Further Schedule of the Study
- 6-1 The consultants will proceed to further study in Vietnam until 18<sup>th</sup> March, 2000.
- 6-2 JICA will prepare the Draft Basic Design Report in English and dispatch a mission in

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order to explain its contents in (or around) May 2000.

- 6-3 In case the contents of the report is accepted in principle by the Government of Vietnam, JICA will complete the final report and send it to the Vietnamese side.
- 7. Other Relevant Issues
- 7-1 Both sides agreed that VJCC-HCMC will be three-story high provided that concerned documents are submitted, and that the total floor area will be approximately 1,000  $\sim$  1,200 m<sup>2</sup>. The land area for VJCC-HCMC will be approximately 1,000 m<sup>2</sup>.
- 7-2 Both sides agreed that after obtaining the Land Use Permit from the People's Committee in Ho Chi Minh City in May 2000, FTU will remove the houses currently located in the site and construct a fence around the site by the end of June 2000.
- 7-3 Both sides agreed that FTU will work to expedite the construction of D5 Road that runs by the site to be completed by September 2000, in cooperation with the People's Committee in Binh Thanh District.
- 7-4 Both sides agreed that FTU will obtain the Government Approval of the Project approximately by the end of July.
- 7-5 Both sides agreed that FTU will allocate enough budget and staff for the proper and effective operation and maintenance of VJCC-HCMC and equipment provided under the Project under the responsibility of FTU.

In case of financial shortfall, FTU will take necessary measures to secure the budget including the allocation of the Counterpart Fund of the Non-Project Grant Aid extended by the Government of Japan.

7-6 The Vietnamese side promised to exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes including VAT, and other fiscal levies which may be imposed in Vietnam regarding the supply of products and services under the verified contracts.

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Annex-1 Organization Charts

- Annex-2 Location of the Project Site
- Annex-3 List of Requested Facilities
- Annex-4 List of Requested Equipment
- Annex-5 Japan's Grant Aid Scheme
- Annex-6 Major Undertakings to be taken by Both Governments

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### MINISTRY OF EDUCATION AND TRAINING ORGANISATIONAL CHART



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List of Requested Facilities and Requirements

Room	Requirements	Notes
Lobby-Exchange		1
A Lobby	Entrance Lobby, video display	<u> </u>
B Library		
Reading	Seating for 12~15	High priority
Internet Booth	Five to ten PC booths for internet access	i ingli priority
A/V Booth	Two video viewing booths	
Study Carrel	Five Study booths with Tape recorders	· ·
Control Desk	Control Desk, equipment rack	<u> </u>
Racks	Rack space for 5000 books	
C Guidance Booths	Two booths w/ table & chairs	
2Seminar	· · · ·	1
A Multi-Purpose Room	80~100 seat room, partition into 3, translators booth	1
B Seminar Rooms	Two 30~40 seat Rooms	1
C Computer Room	15-20 computer units w/ server & printer	· · · · · · · · · · · · · · · · · · ·
D Cultural Exchange Room	8 Tatami room	i
E Japan Club	Office space for 8	Low priority
F. Pantry	Beverage (coffee lea, elc for functions)	
3 Administration		
Director Room w/ secret	ary One Director Room to be shared by two.	
space	secretary desk & chair	
Reception Room	Small reception room for Directors	
Administration Office	6 personnel	
Instructor Room	Desks & chairs for 3 Japanese Experts & editing	
	equipment. 6 sets of desks & chairs for other	
······································	instructors	
Meeting Room	One 15 seat meeting room	
4 Other		
Circulation	Corridors, staircases	
Toilets	As required	
Machinery Space	Power room, Pump room, Generator room	
	Air conditioning for required rooms	
Storage space	Storage space for Seminar equipment	i
	Storage space for office supplies	
Total		1000-

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### List of Requested Equipment

Equipment	Description				
1. Cultural Exchange Lobby	A				
A. Lobby Display	Large screen display of cultural/ educational				
	information				
B. Audio-Visual Display	Video monitors, booths				
C. Computer Terminals	Internet PC, booths				
D. Library PC	For book administration, printers				
E. Library Book Racks	5000 book capacity				
F. Library Control Desk	Furniture, Copy Machine, equipment rack				
G. Guidance booths	Furniture				
2. Seminar zone					
A. A/V equipment	Video projector, Screens, CD player, Audio				
	Amplifiers,				
B. Classroom Furniture	Speakers, OHP projector, equipment wagon				
	Desk, Chairs, Lecturers dais, Whiteboard				
C. Computer System	Personal computers for instruction, server, printer,				
	internet connection				
D. Japanese Tatami Mats	8 tatami space for Cultural exchange activities				
3. Administration Zone					
A. Office equipment	Copy machine, facsimile machine,				
B. Office furniture	Desks, Chairs, Bookcases, Lockers				
C. Lesson Editing Equipment	AV editing equipment, etc				
4. Others					
A. Satellite Transmission Receiving	Parabola antenna, amplifier, distributor, connection 10				
System	required equipment				
B. Storage racks	Storage of Seminar equipment & furniture ,				
	Storage of Administrative supplies and school records				

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### Annex-5 Japan's Grant Aid Scheme

1. Grant Aid Procedures

a. Japan's Grant Aid Program is executed through the following procedures.

- Application (A request made by the recipient country)
- Study (Basic Design Study conducted by JICA)
- · Appraisal & Approval (Appraisal by the Government of Japan and

Approval by the Cabinet of Japan)

• Determination of (Exchange of Notes between the Governments of Japan Implementation and the recipient country)

b. Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study) using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Programme, based on the Basic Design Study Report prepared by JICA, and the results are then submitted to the Cabinet for an approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and recipient country.

Finally, for the implementation of the project, JICA will assists the recipient country in such matters as preparing tenders, contract and so on.

2. Basic Design Study

### a. Contents of the study

The aim of the Basic Design Study (hereafter referred to as "the Study") conducted by JICA on a requested project (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows :

a) Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the

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Project's implementation.

b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.

c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.

d) Preparation of a basic design of the Project

e) Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of the Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whether measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

b. Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA select (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consultant firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

#### 3. Japan's Grant Aid Scheme

#### a. Grant Aid

The Grant Aid Programme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

## b. Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

#### c. Period

"The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed.

However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

## d. Purchase of the Products and or Services

Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However, the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

#### e. Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

f. Undertakings required of the Government of the Recipient Country (As described in ANNEX 6)

#### g. Proper Use

The recipient country is required to maintain and use the facilities constructed and the equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

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#### h. Re-export

The products purchased under the Grant Aid should not be re-exported from the recipient country.

## i. Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations - incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

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ANNEX-6

No	ltems	To be borne by	To be borne by i
<u> </u>		Japanese Grant Aid	Recipient Side
	a)To secure land		•
ļ	b) Relocation of existing houses		•
2	To clear and level land		8
	To fill in and reclaim any existing drainage ditches or		•
	waterways within site area		
3	Landscaping to required height (filling & grubbing)		<b>Ø</b>
4	To timely obtain all permits and certification necessary for construction and procurement of HCMC facilities & equipment		Θ
5	To construct parking facilities	•	
6	To construct road outside site (D5)		•
7	To construct fence and gate		•
8	To construct in site access roads to HCMC	•	
9	To construct building facilities of HCMC	•	
10	To construct other campus buildings		
1	Electricity Distribution		
11	a) local distribution line to site		•
	b) main circuit breaker & transfomer	•	
	c) distribution within site to HCMC	•	
	Water Supply		
12	a) City water main to site		•
	b) Supply system within site (receiving &/or elevated tanks)	•	
	Drainage System		
	a) Drainage mains to site		۲
13	b) Drainage system within site	•	
	c) Septic tank	•	
ļ	Telephone system		
14	a)Telephone trunk line to main distribution frame (MDF) of VJCC		•
	b) MDF & internal wiring	•	
	c) connection to telephone system		•
	Furniture & Equipment		
15	a) AV equipment	•	
	b) PC equipment		
	c) Furniture	•	
16	To bear the following commissions to a Japanese bank for the		
	banking services based on the Banking Agreement (B/A)		
İ	a) advising commission of A/P		•
 	D) Payment commission :		۲
17	To ensure prompt unloading & customs clearance at the port of		•
10	Uncertoarkation in recipient country		
18	rax exemption and customs clearance, including VAT		•
19	Marine transportation to Site	•	
20	Internal land transportation to Site	•	

# Major Undertakings to be Borne by Each Government

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21	To accord Japanese nationals whose services are required in connection with the supply of the products and services under the verified contract such facilities as may be necessary to for their entry into the recipient country & stay therein for the performance of their work.	•
22	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of services & products under the verified contract	•
23	To maintain and use properly and effectively the facilities constructed equipment provided under the Grant Aid	•
24	To bear all other expenses, other than those to be borne by the Grant Aid, necessary for the construction of the facilities as well as for the transportation an installation of the equipment	•

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## Minutes of Discussions

of Basic Design Study on the Project for Construction of The Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City in The Socialist Republic of Vietnam (Explanation on Draft Report)

In March 2000, the Japan International Cooperation Agency (hereinafter referred to as 'JICA') dispatched a Basic Design Study Team on the Project for Construction of The Vietnam-Japan Human Resources Cooperation Center in Ho Chi Minh City (hereinafter referred to as 'the Project'), and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the Study.

In order to explain and consult with the concerned officials of the Government of Vietnam on the components of the draft report, JICA sent to Vietnam the Draft Report Explanation Team (hereinafter referred to as 'the Team'), headed by Mr. Takashi Hatakeyama, Deputy Resident Representative, JICA Vietnam Office, from 6th August to 15th August, 2000.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Hanoi, 11th August, 2000

Mr. Takashi H

Leader Draft Report Explanation Team Japan International Cooperation Agency

Professor, Dr. Tran Van Nhung General Director Dept. of International Relations Ministry of Education and Training

Professor, Dr. Nguyen Thi Mo Rector Foreign Trade University

Witnessed by:

Dr. Duong Duc Ung General Director Dept. of Foreign Economic Relations Ministry of Planning and Investment

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## ATTACHMENT

## 1. Components of the Draft Basic Design Report

The Vietnamese side agreed and accepted in principle the components of the draft report explained by the Team.

### 2. Japan's Grant Aid System

The Vietnamese side understood the Japan's Grant Aid System as explained by the Team and described in Annex-5 of the Minutes of Discussions signed by both parties on 7th March, 2000.

#### 3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed item and send it to the Vietnamese side in or around November 2000.

#### 4. Other Relevant Issues

- 4-1 Both sides agreed that FTU will obtain the Government Approval for the Project by the end of September 2000, and that MPI and MOET will hasten the procedure for its acquisition.
- 4-2 Both sides agreed that FTU will notify the Japanese side of the acquisition of the Land Use Permit from the People's Committee in Ho Chi Minh City and construction of the fence around the project site by the end of September 2000.
- 4-3 People's Committee in Binh Thanh District explained that the construction of D5 Road and the removal of the 4 shops along the main street will be completed by December 2000. Both sides agreed that FTU will continuously enhance the progress.
- 4-4 Both sides agreed that FTU will secure enough budget for the necessary undertakings to be borne prior to the construction of VJCC-HCMC as described in Annex-6 of the Minutes of Discussions signed in March 2000.
- 4-5 Both sides reconfirmed that FTU will allocate enough budget and appropriate staff for the proper and effective operation and maintenance of VJCC-HCMC and equipment provided under the Project.
- 4-6 The Team handed one copy of the draft detailed specification of the equipment to Professor, Dr. Nguyen Thi Mo, Rector, FTU. Both sides agreed that this draft specification is confidential and should not be duplicated or released to any outside parties.

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#### Appendix 5. Estimation of Costs borne by Vietnam

Cost estimate data was discussed between the Consultant and FTU. FTU submitted the following table to show the Vietnamese estimation of their obligation costs. The construction costs for fencing was a firm estimate prepared according to Building Permit Drawings as is shown in Appendix 6-4. Connection for electricity power was considerably higher than the Consultants estimates and subsequent investigations by the Consultant indicated the costs were for power supply facilities including the proposed main classroom buildings for Ho Chi Minh Branch of FTU.

No.	Item	Cost (VND)	Cost (USD)
1.	Land acquisition costs	8,000,000,000	571,428.57
2.	Removal of houses	70,000,000	5,000.00
3.	Leveling of land	110,000,000	7,857.14
4.	Gate door and fan construction	313,000,000	22,357.14
5.	Application for building permit	42,000,000	3,000.00
6.	Power supply	418,000,000	29,857.14
7.	Telephone and fax connection	75,000,000	5,357.14
8.	Landscaping	110,000,000	7,875.14
9.	Water supply	154,000,000	11,000.00
10.	Sewerage connection	10,000,000	714.29
11.	Customs clearance for equipment imported	42,000,000	3,000.00
12.	Visa entry for experts	14,000,000	1,000.00
13.	Banking fee	420,000,000	30,000.00
14.	Construction insurance	189,567,938	13,540.57
15.	Total	9,967,567,938	711,969.14

## Estimation of Costs borne by Vietnam as provided by Foreign Trade University

# 6. Other Relevant Data

- 6.1 Geo-technical Investigation and Survey Data
- 6.2 Result of Geo-technical Tests and Borehole Log
- **6.3 Connection Diagram to Utilities**
- 6.4 Construction Permit for Ho Chi Minh Site Fencing

6.1 Geo-technical Investigation and Survey Data



· SOUTHERN GENERAL INVESTIGATION ENTERPRISE



6.2 Result of Geo-technical Tests and Borehole Log

······								<u>1 a b i</u>	<u>e 3</u>
Sample No.			01	02	03	04	05	06	07
Depth (m)			4.2	10.5	12.0	16.5	23.5	28.0	32.0
Sample type	<u>ə</u>		UD	UD	UD	UD	UD	UD	UD
Particle dist	ribui	tion	ļ. <u>.</u>						
Clay to silt			88	93	95	98	77	47	73
(<0.002 - 0.0	075)								
Fine Sand			12	7	5	2	23	52	27
(0.075-0.42	25)								
Medium Sar	nd							1	
(0.425-2.0)									
Coarse San	<u>d (2</u>	.0- 4.75)					-		
Wet density		$\gamma_{\rm w,}$ t/m <sup>3</sup>	1.45	1.45	1.45	1.44	1.66	1.98	1.76
Dry density		$\gamma_{d}$ , t/m <sup>3</sup>	0.74	0.73	0.76	0.72	1.06	1.62	1.27
Porosity		n, %	71.3	71.9	71.0	72.2	59.8	40.5	52.8
Void ratio		3	2.486	2.560	2.452	2.593	1.490	0.681	1.118
Specific grav	vity	Δ	2.57	2.61	2.61	2.60	2.65	2.72	2.69
Water conte	nt	w, %	96.7	97.8	91.8	99.0	56.0	22.4	38.6
Liquid limit		LL, %	76.5	77.6	82.6	88.0	76.0	29.8	49.8
Plastic limit		PL, %	34.4	34.0	36.6	37.8	32.3	15.1	25.5
Plastic index	<b>、</b>	PI, %	42.1	43.6	46.0	50.2	43.7	14.7	24.3
Degree of		G, % 100 99.7 97.7 99.3 99.6 89.4		92.8					
saturation									
UCS		q <sub>u,</sub> kg/cm²	0.111	0.084	0.149	0.026	0.297	0.260	0.249
		φ <sup>0</sup>	0 <sup>0</sup> 59'	0 <sup>0</sup> 46'	0°25'		0 <sup>0</sup> 20'	4º36'	1º04'
Triaxial UU		C, kg/cm <sup>2</sup>	0.016	0.038	0.093	-	0.033	0.925	0.072
		£0	2.486	2,560				0.681	·
-		C (	2 2 1 0	2 2 3 5				0.648	
u ioi		61	2.210	2.200		-			
ldat		£2	2.078	2.048				0.631	
lsol		83	1.818	1.811				0.605	
Cor		€4	1.547	1.533				0.577	
		65	1.278	1.268	·····			0.546	

## SUMMARY OF TEST RESULTS

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#### BOREHOLE HKI

## PROJECT: VIET NAM - JAPAN HUMAN RESOURCES COOPERATION CENTER

Elevation : 2,79m
 Depth : 38,0m

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THệ - Scale: 1/200

Start : 10 / 03 / 2000 Finish : 11 / 03 / 2000

Ground Water level : 0,5m

		Depth	Thickness	Elevation		No sample		Nv	alue S	דיו
0	N	(m)	(m)	(m)	Section	Depth	Description		5	10
2	·	<u>1_7</u>		-1.09			Layer 1 0.0 -1.7m			0
					$\sum_{n \in \mathbb{N}} \sum_{i \in \mathbb{N}} \sum_{$		Back fill: Clay: reddish brown, yellowish			
4					$\sim \sim \sim$		brown, grey, sliff, medium consolidated.			
	Í							N		
6						48-52		N		
Í	]				۰ <sup>۲</sup> <sup>۲</sup> ۲					'
×										
					$\sim \sim \sim$		Laver 2 1.7-36.0m:			']
10					$\sim \sim \sim$	- 52	Organic clay : grey dark grey with low pieces			
					$\sim$ $\sim$ $\sim$	9.6-10.0	of vegetation decomposed very soft to soft non			· '
12							consolidated			
										'
!4					$\sim \sim \sim \sim \sim$					
[					$\sim \sim \sim$			$  \rangle$		'
16					$\sim \sim \sim$			$  \rangle$		
					$\sim \sim \sim \sim$					-
18										-
ſ					$\sim$ $\sim$ $\sim$					-
20					$\sim \sim \sim$					2
				-	$\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$			1		-
22		·			$\sim \sim \sim$					2
					$\sim \sim \sim$					-
24					$\sim \sim \sim \sim$					2
					$\sim \sim \sim$					
26					$\sim \sim \sim \sim$					2
					$\sim \sim \sim \sim$	· .				-
28					$\sim \sim \sim$					3
					$\sim \sim \sim \sim$					
30					$\sim \sim \sim \sim$					3
1					$\sim$ $\sim$ $\sim$ $\sim$					
32					$\sim \sim \sim$					4
					$\sim \sim \sim$		organic clay : grey, dark grey, with few pieces			
34					$\sim \sim \sim$		consolidated	l l		4
l					$\sqrt[n]{n}$	· ·	uunauntatau.		$\backslash$	
36	-2	36,0	34,3	-32,21	$- \sim \sim \gamma$		Layer 3 36,0-38,0m		$\mathbf{\mathbf{A}}$	7
							Clay: grey, reddish brown, yellowish brown,			
38	3	38,0	2,0	-35,21			medium, consolidated.	Ì		6

#### **BOREHOLE HK2**

#### PROJECT : VIET NAM - JAPAN HUMAN RESOURCES COOPERATION CENTER

Scale: 1/200

Elevation : 2,83m

.

Depth : 40,0m

## Start : 12 / 03 / 2000 Finish : 13 / 03 / 2000

Ground Water level : 0,5m

		Depth	Thickness	Elevation	Section	<u>No sample</u>		SPT Value( N)
0	N"	(m)	(m)	(m)		depth	Description	5 10
		1,2	ι,2	1,6	<i>⋸</i> ₮_ <u></u> ₶ <b>॒</b> ₫_		Laver1- 0.0 -1.2m	
2			•		~#~,#~	1	Back fill: Clay: reddish brown vellowish brown	0
							arey stiff medium consolidated	
4						,	gray, ann, mainn aonachaidea.	0
					$[\sim\sim\sim\sim\sim$	🖬 S 3		N I
6					$\sim \sim \sim$	4.6 -5.0		1
- [					$\sim \sim \sim \sim$			
×					$\sim \sim \sim$		Layer2 - 1,2 - 30,0 m:	
Ì	Í				$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$		Organic clay : grey, dark grey, with few	
10				,	$\sim \sim \sim$		pieces of vegetation decomposed, very soft to	
	]				$\sim \sim \sim$		soft, non consolidated.	
12						1		1
	i i				ل <sup>ا</sup> کہ 'ہ	4		
14					$\sim \sim \sim \sim$			
.4	1				$\sim \sim \sim$			<b>\</b>
					$\sim\sim\sim\sim$			
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18					$\sim \sim \sim$			2
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20					$\sim \sim \sim \sim$	-		2
					2222			
22					$\sim \sim \sim \sim$			2
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24					$\sim\sim\sim\sim$	1		3
					$\sim \sim \sim$	-		
26					$\sim\sim\sim\sim$	1	Organia alay a gray dark gray with four	4
					$\sim \sim \sim$		Urganic clay : grey, dark grey, with lew	
28					$\sim \sim \sim \sim$	1	pieces of vegetation decomposed, soft, non	4
		ļ			$\mathbb{P}_{1}^{\mathcal{N}_{1}} \sim \mathbb{N}_{1}^{\mathcal{N}_{1}}$	-	consolidated.	
30		[				1		4
		1	ł		$\sim \sim \sim$			
32	2	30.0	28.8	-27.17	$\left \sim\sim\sim\sim$	1		
• -						1		
14		j –						
_14							Layer 3 - 30,0-40,0m	
		1			·	33 0.22 4	Sandy Clay: grey, reddish brown, yellowish	
.90		1		•		- 33,0*33,4	brown, medium stiff, medium consolidated.	1 Y
70			1			-		
אי.		1						
оL	1	40.0	8.0	.37 17		-		111
-711	u	1	1 0.0		<u> </u>			<u>- I</u>

BOREHOL	LE L	,OG					GE	OTEC
PROJECT: Vietnam-Japan Human Re. Co. ( LOCATION: BOREHOLE: BH3 DEPTH (m): 70.0	Center	GWL // Appea Stabili	date: ređ zed	0.5m 0.5m	COMMENCED: Completed: Logged: Checked:	2 0 Giap Le Va	9-Ma )1-Ju Duc In Cl	1y-00 n-00 Tinh 1icn
ELEVATION: +2.83	<del></del>	<del>,</del>	. <u></u>	rann - P	II) PENICTO ATTAN	<u></u>	sneet	1013
son description (consistency, relative density, water content, grading, group symbol etc.)	LEGEND	DEPTH	blov	Nos of vs/15cm	N <sub>30cm</sub> - Value		0768 98	DRILLING METHOD
FILL: Sandy SILT to Silty Sand; reddish brown mottled yellow; moist; loose.		(m) 1 .5					178	
CLAY: dark to blackish grey, with some organic matters; saturated, highly plastic; very soft						4.2		
-				2			am SPT	91mm with
		. <u>5</u> 9 –		2		10.5	All samples fr	lrilling in diameter bentonite
· · ·		12		2				Wash o
		13 -		2				
.t <sup>,</sup>		15 -				16.5		
		17		<u> </u>				
		19 .3	1 1 1 		3			
Becoming solt dark to bluish CLAY.		21			2			
<u>.                                    </u>		22	 					
Sandy CLAY dark grey, highly plastic; saturated; firm with some silty sand lens		2	-      -	3	3	23.5 77777		

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	BOREHO	LE L	.OG					GI	EOTEC
PROJECT: LOCATION: BOREHOLE: DEPTH (111):	Vietnam-Japan Human Re. Co. BH 3 70.0	Center	GWL / Appea Stabili	date: iređ ized	0,5m 0,5m	COMMENCED: COMPLETED: LOGGED: CHECKED:	Giaj Le V	29-M 01-Ju Duc /an C	ay-00 m-00 Tinh hien
ELEVATION:	+2.83	·····	1				1	Sheet	2 of 3
(consiste	SOIL DESCRIPTION	LEGEND	DEPTH		Non of	N Volue	- SAM TV	IPLE TPE	DRILLING
content.	grading, group symbol etc.)			blov	vs/15cm	0 10 20 30 40 50 B			METHOD
			(111)		<u> </u>		<u> UD</u>	DS	
Sandy CLAY: dark grey; highl with some silty	v plastic: saturated: firm sand lens		2 <u>6</u> 27	3	3 3		20		
Sandy CLAY:	ana highly plactic		28 . <u>5</u> 29 -	2	3 13				_
saturated: stiff In place silty sa	novery stiff.		31 - 32 -				32	1 SPT	r 91mm wid
	 . '		33 34 34	4	4 12 8 18			amples fron	g in diamete bentonite
SAND: Medium-graine	d: grey in color: dense.		35 _	10	13 9			Alls	/ash drilling
			37 _	12	14 15				-
Grading to media	un to coarse:		39 - 39 -						
Grading to fine-g	rained: Whitish grey in color:		41 -		22 2.				
dense.			43	10	17 22				
Grading to very f reddish brown in	ine-grained: color: medium dense.		445	7	79				
			K -16 447	7	9 11				
			x 49 149	6	89				
			50	5	6 5				

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	BOREHO	LEL	.00	ŗ		,	•			G	EOTEC
PROJECT: LOCATION: BOREHOLE: DEPTH (m):	Vietnam-Japan Human Re. Co. B1[ 3 70.0	Center	GWI App Stab	L /d can oiliz	late: red zed	0.5 0.5	an m	COMMENCED: COMPLETED: LOGGED: CHECKED:	Giaj Le V	29-M 01-Ji i Diic /an C	ay-00 1n-00 Tinh hien
ELEVATION:	+2.83									Sheet	Jof 3
(consiste content, p	SOIL DESCRIPTION ncy, relative density, water grading, group symbol etc.)	LEGEND	DEPT	H	s I blov	tand Nos ( vs/15	DARI of cm	D PENETRATION N <sub>JBem</sub> -Value 0 10 20 30 40 50 60	SAMP	1.6	DRILLING
		SPANNER,	(m) /	)	T			<b>⊢₹┼┼┼┼</b>		DS	
	· · · · · · · · · · · · · · · · · · ·		51	52	7	15	14				
N	1ednim dense		53			 ,					
	ı 		55	54 - -	6	10	<u> </u>				
N	1edium dense	LINGLA LINGLA LINGLA LINGLA LINGLA LINGLA	4	56	.3.	_4	10				ım with
Grading to finc- t	o medium-grained:		57	58	12	13				rom SPT	uneter 91 u nite
Dense			59		12	18	24			samples f	ling in dia bento
			61							II	Vash drill
CLAY: Greyish brown Hard to very ha	in color: wet: rd: plastic.		63 <sup>°</sup>	;2  -	8	.15	17				
Claycy to sandy 5 Grey to pale are	SILT:		65	54 <u> </u>	.4		5				
Stiff to hard.		STATUTO II		56	6	30	30/5				
SAND: Fine- to medium growish to redd	in grained; mottled yellowish,		67 (	58	20	30	.40				
small quartz gr Very dense,	ravels at the bottom.	CULUE CLUE CLUE CLUE CLUE CLUE CLUE CLUE	69		16	41	65				
Ţ	he borchole bottom at 70.0m	,				,					
Note: 3	0/5: 30 blows for 5 cm penetration and refusal.										

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6.3 Connection Diagram to Utilities

#### Appendix 6-3 Connection Diagram to Utilities

Based on Field Surveys and discussions with concerned authorities and local companies, the Consultants have prepared preliminary diagrams for connection of infrastructure facilities to the local network. Outline of each connection is described below.

A. Electric Power Supply

Local Power Company will provide power mains along D5 Road at 15 kV. VJCC-HCMC can connect at any point along site boundary. Receiving equipment to local specifications will be provided under Grant Aid and local power company will connect to incoming panel and provide metering unit.

B. Water Supply

The local authorities will provide water mains under D5 Road, branching from existing water mains in either Xo Viet Nghe Tinh Road or .small road 60m south of site. VJCC-HCMC can connect at any point along site boundary. Design and construction of connections up to in-site metering unit will be done under Vietnamese obligations.

C. Drainage

The main drainage facilities are already under D5 Road ( $\phi 800$  main &  $\phi 400$  crossing). VJCC-HCMC can connect to drainage manhole nearest site. Septic tank will be provided for VJCC-HCMC to collect soil water and the runoff will be released to drainage system. Connections to drainage system will be done under Grant Aid.

D. Telephone System

Local telephone company will connect to MDF (Main Distribution Frame) in VJCC-HCMC building. Sufficient grid capacity is available.

It was further confirmed between FTU and the Consultants that all connections under Japan's Grant Aid Scheme will be designed for capacity requirements of VJCC only. Any further increase in size or replacement of facilities to meet requirements of classroom buildings, et cetera will be the responsibility of FTU.

Refer to connection drawings on next page.





The Project for Construction of Vietnam-Japan Human Resource Cooperation Center (Ho Chi Minh)

6.4 Construction Permit for Ho Chi Minh Site Fencing

Ho Chi Minh City Binh Thanh People's Committee No. 513/GPXD-UB

Socialist Republic of Viet Nam Independence – Freedom – Happiness Binh Thanh, 31 January 2000

## **BUILDING PERMIT**

In accordance with Decision No.3217/QD-UB-QLDT dated 26 June 97 by People's Committee of the City on construction permit issuance in Ho Chi Minh City \*\*\*\*\*\*\*\*\*\*

### 1. Issued to FOREIGN TRADE UNIVERSITY

- Address: 2 Bis Phan Xich Long, Phu Nhuan Dist.
- Be permitted to: Constructing fence
  In compliance with the design coded TKSB
  Made by Binh Thanh Housing Management Company

- Consisting of the following components:

- The construction of the fence, concrete poles, brick walls + iron works
- The location of the construction is described in the Map of Present Land Use made by Mapping Team on 16 October 99:
- The back and the two sides are walls of 2.5m in height
- The front is wall of 0.6m in height and iron work of 1.9m in height on the top (Refer to the approved detailed map)

Note: - The front is 8m distant from  $\Theta$  wall

- Document No. 433/QTTV dated 15 December 99 by FTU

The issuance of fence construction permit is to prevent the land lot from squatters.

Prospective investor shall have to observe the approved planning.

- Positioning: partially on the plots 127, 128, 130, 131, 132, 135 and a part of the Van Thanh Bac Canal.
- Located at No. D5 Road, Ward 25, Binh Thanh Dist.
- 2. Prospective investor shall have to observe legitimate interests of parties

#### associated with the project, shall take full responsibility in case of dispute.

#### 3. Prospective investor shall have to:

- contact with competent authorities and work out implementation design based on approved architectual design.
- the implementation of the project must be carried out by a competent organization with judicial body/
- notify Urban Management Authority to come to inspect the underground works (*chambers for flush toilets, sewage water treatment, foundat*ion) before covering and further the construction.
- present related permits to local government before starting the construction and have board announcing designer, construction company at the entrance of the project.
- In case of design changing, report to and wait for decision of building permit issuing authority.

4. Designer and construction company are fully responsible for safety and quality of the Project.

5. When completing the construction, investor shall have to notify Urban Management Authority to come to inspect and make report. The report, then, shall have to attached with building permit in order to certify use ownership.

6. The permit shall be effective to starting the construction within 1 year at signing. After the effective period, if the construction is intended to start, it is required to apply for extension of the permit.

## FOR BINH THANH PEOPLE'S COMMITTEE ON BEHALF OF CHAIRMAN VICE CHAIRMAN

781 P01 - 916 10 100 11

# THÀNH PHỐ HỎ CHÍ MINH UBND QUẠN BÌNH THẠNB

CÔNG HÒA XÃ HỌI CHU NGHIA VIỆT NAM Độc lập - Tự do - Hạnh phức

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mah Thanh, ngàn 3.4 tháng A. năm 2000

56:513 /GPXD-UH

# GIẤY PHÉP XÂY DỰNG

Căn cứ Quyết định số 3217/QĐ-UB-QLĐT ngày 26-06-97 của UBND Thành phố quy định v/v cấp giấy phép xây dựng tại TP.Hồ Chí Minh.

\*\*\*\*\*

#### 1. Cáp cho:

「東京はない」と言語をなっていたいでは、

## TRƯỜNG ĐẠI HỌC NGOẠI THƯỜNG

- Dia chi:
- 2 Bis Phan Xích Long Quận Phú Nhuận
- Dude phép: Xây dựng tương rào theo viết kế, có kỷ hiệu: TKSB doi sinh tự Quản lý Nhà Plinh Thanh
- Gồm các hạng mục đưới đây:
- ☆ Xây dựng lường rào, móng cột BTCT, tường gịch + song sắt.
- \* Vị trì xây trộng trên ranh đất được xác định tại hãn đổ hiện trạng vị trí do Đoàn đo đạc bản đổ do ngày 16-10-99;
  - Mặt sau và 2 mặt bên xây dựng tường gạch cao 2,5m.
    - .1.5 \*\* www. way ching ming ran can ().6m phis trên lấp đặt song sắt cao 1,9m. (Xem chi tiết trên bản về được duyệt)
- Ghi chá: Một mước xây dựng cách tim đường D<sub>5</sub> : 8m.

- Công văn số 433/QITV ngày 15-12-99 của Trường Đại học Ngoại Thương.

Việc, số phóp xảy đưng tường rào nhằm mục đị; h bảo vệ khu đất, mánh lấn chiếm. Chủ đầu tự phải chấp hành theo quy hoạch được duyện sau này.

-- Trên dhib đất: 1 phần các thức 127, 128, 130, 131, 132, 135 và 1 phân rạch

Tos lac taise Số: dường: Ds Văn Thánh Bắc

- Photon: 25 / Quận Bình Thạnh.
- 2- Chủ đầu trị chải tôn trọng các quyền lợi hợp pháp của người có liên quản đến rông trình sửa chỉ hoàn toàn việu trách nhiệm trước pháp luật nếu có tranh chấp.

### 3- Chủ đầu tự phải được biện các điển sau đây:

- -- Liên hệ với đơn vị có chức năng và tư cách pháp nhân lập thiết kế thị công đủng theo họa đổ kiếi đã được đuyệt.
  - Việc thi công công trình phải do đơn vị có chức năng và từ cách pháp nhân thực hiện.

Báo Phòng QLĐT kiểm tra phần xây dựng ngắm (như hằm vệ sinh tự hoại, xữ lý nước thải, đ móng công (cình) trước khi đây nắp và vây chứng tiếp bên trên.

- Xuất trừnh giấy phép cho chính quyển sở tại trước khi khối công xây dựng và yết háo số giấy phê dơn vị duết kế, tên đơn vị thi công tại cổng của công trình.
  - Disu thoy doi thiết kế, phải báo cáo và chờ quyết định của cơ quan cấp giấy phép xây đựng.
- 4- Đơn và thiệt hế và thi công hoàn toàn chịu trách nhiệm về an toàn và chất lượng công trình.
- 5- Khi xây dựng xong, chữ đầu từ báo cho Phòng QLDT lập biên bản kiếm tra công trình boàn i Giấy phén xây dựng củ liệm theo biện bản kiếm tra công trình hoàn thành mới có giá trị đã quyển sở tain.
- 6. Giáy phép siáy chỉ có hiệu hực khởi công sây đựng trong thời hạn 1 năm kể từ ngày ký. Quá th quy định, sou cấu sây động phải xin giấy phóp gia hạn 300.

TM. UBND QUÂN BÌNH THẠNH CHỦ TICH · HỦ TICH Aby The

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