

CHAPTER 7
EVALUATION OF THE PROJECT

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The main purpose of the project is to construct necessary facilities for educating nurses in order to increase the number of nurses and to improve their quality to meet the demands in Nepal.

It is confirmed that the Mahaboudha Nurse Campus which is recognized as the most significant one in the field of nurse education in Nepal will be relocated to the new Nurse Campus and that operation and maintenance of the Nurse Campus after completion will be undertaken by the organization which will be established based on the existing organization of the Mahaboudha Nurse Campus.

The establishment and the smooth operation of the Nurse Campus is considered to have following benefits to the Nepalese society and economy:

1. After three years from the establishment of the Nurse Campus, the number of students in nursing in Nepal will increase 40%. Graduates are to be stationed at hospitals throughout the country, where they are suffered from the shortage of nurses.

This will contribute to improve the health conditions of Nepal, and eventually to diffuse the effect of the Japanese grant-aid all over the country of Nepal. Presently, there exist certain problems concerning the limited employment of females. The increase of student in nursing will contribute to the improvement of employment which is one of the objectives of the Sixth Plan of Nepal.

2. Education of teaching staff which has been done in the foreign institutions out of the country is planned to be executed in this Nurse Campus. Even after the establishment of this Nurse Campus, the supply of nurses will be still short in Nepal, and there exists a need to establish more nurse campuses in the future. In these nurse campuses to be established, manpower educated in this Nurse Campus will highly contribute. At the same time, the above advantages given by the establishment of the Nurse Campus will be considered to have effects in saving foreign currencies.
3. It is planned to execute the bachelor level education to those staff-nurses who are working in hospitals. The bachelor level nurses are expected to play significant rolls in nursing in hospitals. The plan to increase the number of nurses with high level of education, to diffuse the nursing spirit and techniques to staff-nurses all over the country through these senior nurses, and eventually to improve health conditions of Nepal is evaluated to be appropriate and effective.

This project aims at the increase of the number of nurses and the improvement of the quality of nurses, which will contribute to the improvement in health services of Nepal. The effects of this project eventually contribute to the improvement of people's health conditions and

to the supply of the healthy manpower that is indispensable in Nepal. The project is evaluated to be highly effective and the grant-aid by the Japanese Government for establishment of the Nurse Campus is considered to have sufficient propriety.

CHAPTER 8
CONCLUSION

CHAPTER 8 CONCLUSION

A field study of the present state of health services and health manpower training was done in Nepal. Subsequent analysis in Japan indicates the necessity of the plan to move and expand the Mahaboudha Nurse Campus. The proposed site is not only next to Tribhuvan University Teaching Hospital which can serve as a demonstration hospital, but the site is also suitable for the construction of the nurse campus from the viewpoint of surroundings, configuration of the site, and the condition of the infrastructure. As for the buildings, a 2 story reinforced-concrete building with 2,607.6 square meters of floor space for an Academic & Administrative Building, a 4 story reinforced concrete building with 3,654.1 square meters of floor space for a Student Dormitory and other facilities of 70.0 square meters will be appropriate. The society of Nepal will derive great benefit from this project, thus the Japanese economic cooperation as a form of grant is considered to be appropriate. So as to meet expectations, the items below are suggested to the HMG of Nepal with the hope of smooth realization of the project and effective operation of the facilities upon its completion.

- (1) Suggestions concerning the implementation of the construction work of the project:
 - 1) Cooperation and provision of necessary convenience for design and construction works.
 - 2) Preparation of the construction site.
 - 3) Smooth implementation of works that is to be done by the Nepalese.
 - 4) Cooperation to expedite the construction on schedule.
- (2) Suggestions concerning the education and administration of the Nurse Campus:
 - 1) There is a change in emphasis from training of ANM's in local communities to training staff-nurses in hospitals that can be seen by consideration of the present state of medical treatment and the history of nurses in Nepal. A training project for securing health manpower is an important factor in improving the health and medical services of Nepal. Giving priority to securing nurses is reasonable due to the aims of the Long-Term Health Plan which is to be achieved by 1990. Therefore, it is desirable to raise the level of the curriculum for Certificate Level by adding at least another 50 percent to the present class hours of adult nursing.
 - 2) A new distribution plan for all nursing services after 1990 including ANM is suggested. In that case, research is necessary regarding: distribution of nurses to local communities, clarification of the function of nurses in hospitals, and the

proportion of staff-nurses and ANM's.

- 3) It is suggested to provide regulation of nursing service such as the definition of nurse, ANM, license, registration, state examination, duties etc. In this regard, the regulations must have room to permit additional interpretation considering the future development of medical treatment and domestic conditions. It is also suggested to establish standards for nursing service in hospitals. Furthermore, as the nurse training school is for educating professionals concerned with human life, it is suggested to establish standards for establishing domestic nurse schools, such as:

1. entrance qualifications
2. training term
3. curriculum
4. qualifications of teaching staff and the percentage of teaching staff and students
5. the number of students
6. the size and facilities of the school
7. standards for equipment and specimen necessary for training
8. the size of facilities for demonstrations
9. others

- 4) After the completion of this project, the number of students trained at the new campus will be much larger than the number at the present Mahaboudha Nurse Campus. Developing materials and providing textbooks will help to improve the training efficiency and to achieve the training smoothly. It may be suggested that this be done by the Nepalese.

ANNEX

1. MEMBERS OF THE STUDY TEAM

1-1 Basic Design Study Team (Mar. 18~Apr. 11, 1984)

· Ms. Akiko Itoh	Team Leader	Director, National Center for Nursing Education & Research, Ministry of Health & Welfare
· Mr. Hiroyuki Noguchi	Grant Aid	Second Economic Cooperation Division, Ministry of Foreign Affairs
· Ms. Masako Yano	Nurse's Training Programme	Chief Nursing Section, Tokyo Metropolitan Institute of Gerontology
· Ms. Etsuko Toyoshima	"	The International Nursing Foundation of Japan
· Mr. Norio Shimomura	Project Coordinator	Grant Aid Dept, JICA
· Mr. Shotaro Hayashiya	Project Architect	Yamashita Architects & Engineers Inc.
· Mr. Mineo Nagaoka	Architect	"
· Mr. Seishi Asakura	Engineer	"

1-2 Basic Design Study Team

(Explanation of Draft Final Report, Jun. 13~Jun. 21, 1984)

· Ms. Akiko Itoh	Team Leader	Director, National Center for Nursing Education & Research, Ministry of Health & Welfare
· Mr. Norio Shimomura	Project Coordinator	Grant Aid Dept, JICA
· Mr. Shotaro Hayashiya	Project Architect	Yamashita Architects & Engineers Inc.
· Mr. Mineo Nagaoka	Architect	"

2. SURVEY SCHEDULE

2-1 Survey Schedule (Mar. 18~Apr. 11, 1984)

1. Mar. 18 (Sun) Lv. Tokyo.
(Mses. Itoh, Yano, Toyoshima, Messers. Noguchi, Shimomura, Hayashiya, Nagaoka, Asakura)
2. " 19 (Mon) Ar. Kathmandu via Bangkok.
Courtesy call on Japanese Embassy.
3. " 20 (Tue) Planning Section of Tribhuvan University, Ministry of Health.
Meeting with the counterparts at Tribhuvan University Teaching Hospital (TUTH) and Survey of TUTH.
4. " 21 (Wed) Kanti Pediatric Hospital and Bir Hospital
(A) Meeting with teaching staff at Mahaboudha Nurse Campus (MNC) and Survey of the campus.
(B) Survey of facilities of MNC
5. " 22 (Thu) (A) Ministry of Education and Culture, Ministry of Finance, and Meeting at TUTH
(B) Collecting data at Meteorological Department.
Meeting with engineers in charge of the project.
6. " 23 (Fri) (A) Visit to Pokhara.
Survey of Health Posts, and Pokhara AHW School and Laboratory.
Stay at Pokhara.
(B) Collecting information at Water Supply & Sewerage Board.
Meeting with engineers in charge of the project.
7. " 24 (Sat) (A) Transfer from Pokhara to Kathmandu.
(B) Survey of the proposed site.
8. " 25 (Sun) (A) Group meeting.
(B) Nepal Electricity Corporation, consultant firms, construction companies.
9. " 26 (Mon) (A) Statistics Beureau and Ministry of Finance. Meeting at TUTH.
(B) Customs Office, Nepal Gas Industries (P) Ltd., and construction companies, Department of Housing Building and Physical Planning.
10. " 27 (Tue) (A) Meeting at TUTH.
(B) Brick & Tile Factory (Harisiddhi), Collecting information about electricity and hygiene.

11. Mar. 28 (Wed) (A) Meeting at MNC.
Meeting at TUTH.
Signing of "Minutes of Discussions".
(B) Survey and Data collection on construction situation.
12. " 29 (Thu) (A) Patan Hospital and Shantabhawan Nurse Campus.
(B) Survey and Data collection on construction situation.
13. " 30 (Fri) (A) Japanese Embassy, SLC Bureau, MNC, Ministry of Education and Culture, Computer Center, Ministry of Finance.
(B) Marketing research (building materials, plumbing equipment, electric equipment.) Collecting information about transportation.
14. " 31 (Sat) Lv. Kathmandu:
(Mses. Itoh, Yano, Toyoshima, Messers Noguchi, Shimomura)
15. Apr. 1 (Sun) Analysis of the collected data.
Survey of the surroundings of the proposed site.
16. " 2 (Mon) Statistics Department of Ministry of Education and Culture, Computer Center and Nursing section of Ministry of Health.
Collecting information at Furniture Manufacturer and Cement Factory.
Collecting information at Transportation Company.
17. " 3 (Tue) Collecting information at Nepal Telecommunication Corporation, Water Supply & Sewerage Board and construction companies.
Survey of facilities and equipment at Shantabhawan Nurse Campus and Patan Hospital.
18. " 4 (Wed) Collecting information at Nepal Electricity Corporation and Water Supply & Sewerage Board.
Survey of the existing equipment at MNC.
19. " 5 (Thu) Planning Bureau and Statistics Department of Ministry of Health.
Collecting information on well water.
Survey of well boreholing.
Collecting information at Water Supply & Sewerage Board.
Survey of construction situation.
20. " 6 (Fri) Collecting information at National Trading Ltd. and Vocational Trading Center.
Survey of construction situation.
21. " 7 (Sat) Analysis of the collected data.

22. Apr. 8 (Sun) Reporting the survey result to JICA Office, Dean's Office.
23. 9 (Mon) Analysis of the collected data.
24. 10 (Tue) Lv. Kathmandu
(Messers. Hayashiya, Nagaoka, Asakura)
25. 11 (Wed) Ar. Tokyo via Bangkok.

2-2 Survey Schedule (Jun. 13~Jun 21, 1984)

1. Jun 13 (Wed) Lv. Tokyo (Messers. Hayashiya, Nagaoka)
2. " 14 (Thu) Ar. Kathmandu via Bangkok.
3. " 15 (Fri) Meeting at JICA Office, Explanation of Draft Final Report at TUTH.
4. " 16 (Sat) Ar. Kathmandu (Ms. Itoh, Mr. Shimomura)
5. " 17 (Sun) Explanation of Draft Final Report at TUTH.
6. " 18 (Mon) Courtesy call on Japanese Embassy.
Discussion at TUTH.
7. " 19 (Tue) Meeting at TUTH.
Signing of "Minutes of Discussions".
8. " 20 (Wed) Lv. Kathmandu (Ms. Itoh, Messers. Hayashiya, Nagaoka)
9. " 21 (Thu) Ar. Tokyo via Bangkok.

2-3 Members of the Nepalese Counterpart

- Tribhuvan University
 - Dr. G.P. Acharya (Dean, IOM)
- Receiving Organization
 - Dr. Narendra Bahadur Rana (Visiting Professor, IOM)
 - Prof. Bhisma Raj Prasai (Director, T.U. Teaching Hospital)
 - Mr. Naveen P.J. Shah (Assistant Dean, IOM)
 - Mrs. Hari Badan Pradhan (Campus Chief, Nursing Campus, Mahaboudha)
 - Dr. P.N. Shrestha (Project Coordinator, FM Project, IOM)
 - Miss Gita Pandey (Lecturer, Nursing Campus, Mahaboudha
previously, now matron of T.U. Teaching
Hospital)
 - Miss Krishna Prajapati (Instructor, T.U. Teaching Hospital)
- Tribhuvan University
 - Dr. P.L. Pradhan (Planning Chief)
- Department of Health
 - Dr. Regmi (Director General)

- Ministry of Education and Culture
Dr. I. P. Upadhyay (Joint Secretary, Planning)
- Ministry of Finance
Mr. H.S. Shrestha (Additional Secretary)
Mr. Ragendra Karki (Section Officer)
- T.U. Teaching Hospital Project
Mr. Hemanta Prasad Parajuli (Head Assistant, Dean's Office)
Mr. Dhruba Kumar Sharma (Assistant Registrar)
- National Planning Commission
Mr. Skyam Shrestha (Section Officer)
- Department of Housing Building & Physical Planning
Mr. K.R. Shrestha (Architect, Design Unit)
- Water supply and Sewerage Board
Mr. P.N. Nepal (Project-in-charge, water supply)
Mr. Prayag Lall Joshi (Deputy Manager, Sewerage)
Mr. Shashindra Patrabansh (Divisional Engineer)
- Nepal Electricity Corporation
Mr. Rup Man Sakya (Manager, Planning & Generation dep.)
Mr. B.B. Dhungana (Chief, Trans./Dist. Construction Div.)
- Department of Housing Building & Physical Planning
Mr. Devendra Nath Gongal (Architect)
- Nepal Telecommunication Corporation
Mr. G.S. Bora (Chief Engineer, Engineering Dep.)
Mr. A.R. Khanal (Supervisor, Traffic & Central Administration)
- Nepal Gas Industries (PVT) Ltd.
Mr. K.B. Bhattarai (General Manager)
- National Trading Ltd.
Mr. Sher B. Pandy (Chairman)
- Department of Customs
Mr. S.D. Josh (Section Officer, Duty Exemption Section)

3. MINUTES OF DISCUSSIONS

3-1 Minutes of Discussions-1

MINUTES OF DISCUSSIONS

In response to the request of His Majesty's Government (HMG) of Nepal, the Government of Japan has sent, through the Japan International Cooperation Agency (JICA), a team headed by Ms. Akiko Itoh, Director, National Center for Nursing Education and Research, Ministry of Health and Welfare, to conduct a basic design study on the Construction Project of the Nurse Campus in Kathmandu (the Project) for 25 days from 18th March to 11th April 1984.

The team has carried a field survey and had a series of discussions with the authorities concerned of HMG of Nepal.

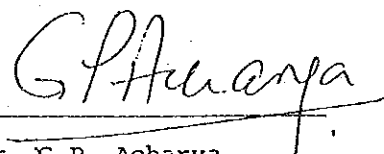
As a result of the survey and discussions, both parties have agreed to recommend to their respective Governments to examine the result of the study attached herewith towards the realization of the Project.

28th March 1984.



Ms. Akiko Itoh

Leader, Japanese Study Team
JICA



Dr. G.P. Acharya

Dean, Institute of Medicine
Tribhuvan University

ATTACHMENT

1. The objective of the Project is to construct the Nurse Campus at the Tribhuvan University Teaching Hospital Site, Maharajgunj in order to meet the growing requirement of nursing personnel in Nepal.
2. The Project aims to replace and expand the Mahaboudha Nurse Campus which is located at Bir Hospital complex and administrated by the Institute of Medicine (IOM), Tribhuvan University.
3. The proposed Campus will admit about 80 students for the certificate level course (for 3 years) and about 40 students for the bachelor level course (for 2 years) every year. The bachelor level course offers the courses on nursing specialities such as paediatric nursing, medical-surgical (adult) nursing and community nursing.

Other than the training activities mentioned above, the campus will carry out research activities on nursing education and nursing services. The summary of the curriculum for certificate level course and bachelor level course is shown in Annex I .
4. The IOM, Tribhuvan University which is responsible for producing health manpower including nurses in Nepal will be the implementing agency of the Project.
5. The organization set-up for the proposed campus will be established by the IOM based on the present organization of the Mahaboudha Nurse Campus which is shown in Annex II.
6. The proposed Campus will have 96 staff as shown in Annex III.

If all of the 96 posts are filled and manned, it will be enough for running the proposed Campus.

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7. The Nepalese side has assured the team that the IOM will allocate necessary budget for running the proposed Campus.

Rough estimate of annual running expenses is shown in Annex IV.

8. The proposed Campus will be located in Tribhuvan University Teaching Hospital site, Maharajgunj. The land for the proposed site is owned by the IOM and is shown in Annex V.
9. The team will convey to the Government of Japan the desire of HMG of Nepal that the former takes necessary measures to cooperate in implementing the Project and provides the building(s) and facilities as listed in Annex VI within the scope of Japanese economic cooperation in grant form.
10. HMG of Nepal will take following measures on condition that the grant assistance by the Government of Japan is extended to the Project;
 - (1) to provide data and information necessary for design and construction
 - (2) to clear and level the Project site as needed before the start of the construction
 - (3) to ensure prompt customs clearance in Nepal of imported materials and equipment for the Project and to facilitate the internal transportation for them
 - (4) to exempt Japanese nationals concerned from customs duties, internal taxes and other fiscal levies which may be imposed in Nepal on the occasion of the supply of materials and services for the construction
 - (5) to provide and accord necessary permission, licenses and other authorization required for carrying out the Project
 - (6) to provide other items listed in Annex VII.

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ANNEX I

A. Curriculum for Certificate in Nursing

I YEAR

<u>S.No.</u>	<u>Subject</u>	<u>Hours</u>
1.	English	180
2.	Nepali	180
3.	Introducing Nepal	90
4.	Applied Sciences	90
5.	Microbiology	90
6.	Pharmacology	90
7.	Human Biology	90
8.	Community Health Nursing	90
9.	Fundamental of Nursing (Theory)	180
10.	Fundamental of Nursing (Clinical)	180

II YEAR

1.	Nutrition	90
2.	Fundamental of Social Psychology	180
3.	Nursing Care of Adult (Theory)	270
4.	Nursing Care of Adult (Clinical)	270
5.	Community Health Nursing (Theory)	180
6.	Community Health Nursing (Clinical)	270

III YEAR

1.	Ward Management (Theory)	180
2.	Ward Management (Clinical)	180
3.	Nursing Care of Hospital Children (Theory)	90
4.	Nursing Care of Hospital Children (Clinical)	90
5.	Community Health Nursing (Theory)	90
6.	Community Health Nursing (Clinical)	90
7.	Misadventures (Theory)	270
8.	Misadventures (Clinical)	270

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B. Curriculum for Bachelor of Nursing - Adult

<u>S.No.</u>	<u>Subject</u>	<u>Hours</u>
<u>I YEAR</u>		
1.	Advance Nursing Concept I	90
2.	Clinical Nursing Practicum	300
3.	Major Adult Health Problems	60
4.	Social Sciences Applied to Nursing	60
5.	Education Principles & Practice	90
6.	Teaching Practice	300

II YEAR

1.	Advance Nursing Concept II	60
2.	Economic & Development as Related to Health	60
3.	Concepts of Leadership & Management	90
4.	Management Practicum	300
5.	Research Applied to Nursing	90
6.	Nursing Research Practicum	300

C. Curriculum for Bachelor of Nursing - Community Health

I YEAR

1.	Community Health I	120
2.	Maternal Health I	60
3.	Child Health I	60
4.	Administration I	60
5.	Teaching I	60
6.	Applied Research	60
7.	Developing Health Services of Local	50
8.	Special Programmes	60
9.	Social Services Applied to Nursing	75
10.	Community Practice I	240

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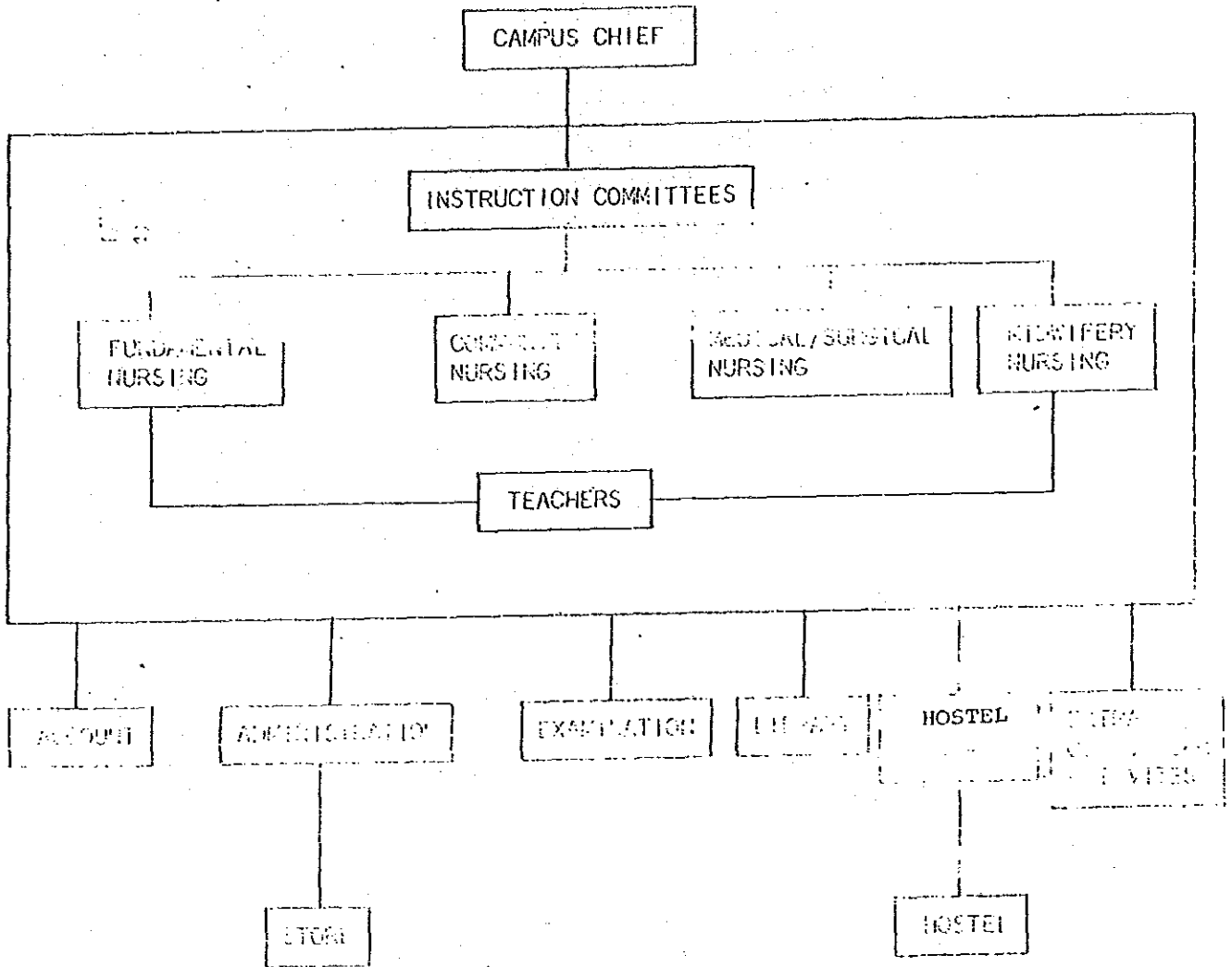
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II YEAR

<u>S.No.</u>	<u>Subject</u>	<u>Hours</u>
1.	Community Health II	80
2.	Administration II	70
3.	Teaching II	70
4.	Maternal Health II	75
5.	Child Health II	60
6.	Primary Health Care	45
7.	Community Resources	45
8.	Community Practice II	545

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ANNEX III STAFF OF THE PROPOSED CAMPUS

A. Campus Chief (appointed from the Teaching Staff)

B. Teaching

1. Professor	-	1
2. Reader	-	4
3. Lecturer	-	21
4. Assistant Lecturer	-	11
5. Instructor	-	4
6. Deputy Instructor	-	3
7. Asst. Instructor	-	2
		<hr/>
Sub Total	-	46

C. Non-Teaching

1. Administrator	-	1
2. Administrative Assistant	-	5
3. Accountant (Including Asst.)	-	4
4. Typist	-	3
5. Store Keeper	-	2
6. Other (Driver, Peon, Watchman etc.)	-	15
7. Cook	-	8
8. Kitchen Cleaner	-	9
9. Sweeper	-	4
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Sub Total	-	50

GRAND TOTAL - 96

NOTE: The Nepalese side has stated that all of the above posts are filled except one professor and two Readers.

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Annex IV. Rough Estimate of Annual Running Expenses of the Proposed
Campus prepared by the Japanese side

Personnel Expenses	1,570,000
Water Supply and Electric Charges	590,000
Training Expenses	970,000
Miscellaneous	150,000

TOTAL

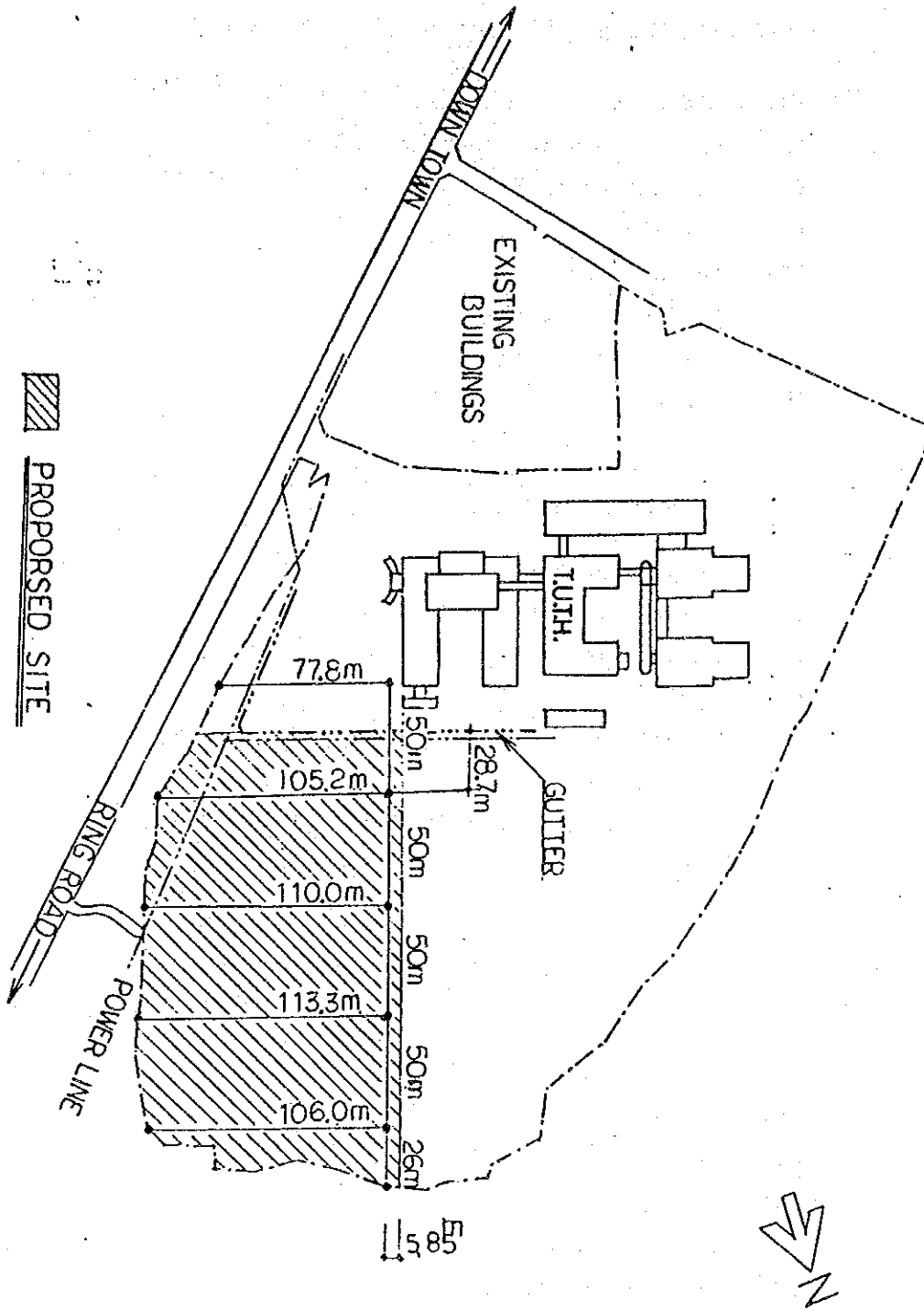
Rs. 3,280,000

NOTE: The Nepalese side has stated that the annual expenses will be
lower than Japanese estimation.

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ANNEX V PROPOSED SITE OF THE PROJECT



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Annex VI. Items whose cost will be borne by the Government of Japan

A. Building(s)

1. Academic Block

- (1) Class Rooms for certificate level
- (2) Class Rooms for bachelor level
- (3) Demonstration Room(s)
- (4) Library
- (5) Seminar Rooms
- (6) Office for Teachers
- (7) Nutrition Laboratory
- (8) Others

2. Administrative Block

- (1) Campus chief Room
- (2) Administration Section
- (3) Account Section
- (4) Typist Room
- (5) Reception
- (6) Meeting Room
- (7) Examination office Section
- (8) Others

3. Student Dormitory

- (1) Bed Rooms
- (2) Lining Hall
- (3) Kitchen
- (4) Laundry
- (5) Meeting Room
- (6) Warden's Room
- (7) House Keeper's Room
- (8) Watchguard
- (9) Sick Room
- (10) Others

B. Equipment

Equipment will be basically selected within the list submitted by the Nepalese side.

The list is shown in Annex VIII.

C. Vehicles

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Annex VII. Items whose cost will be borne by RMG of Nepal

- A. Water supply line(s) to the site
- B. External drainage and sewage line from the site
- C. Electrical power main line to the site
- D. Telephone line(s) to the building site
- E. Exterior facilities and landscaping
- F. Provision of space necessary for such construction as temporary office, working area, stock yards and others
- G. Maintenance and operation cost and expense
- H. to bear all the expenses other than those to be borne by the Grant

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Annex VIII. List of the Equipment requested by the Nepalese Side

<u>S.No.</u>	<u>Description</u>	<u>Numbers</u>
1.	Overhead Projector	- 2
2.	35 mm Slide Projector	- 1
3.	16 mm Movie Projector	- 1
4.	Cassette Recorder	- 1
5.	Empty Cassettes	- 100
6.	Transparency Sheets	1000
7.	Transparency Roll	- 10
8.	Transparency Marking Pens Permanent Set of 6 Colours	- 10
9.	Transparency Marking Pens Non-Permanent Set of 6 colours	- 20
10.	Colour Adhesives for Transparencies Pkt.	- 10
11.	Transparency Maker	- 1
12.	Plain Paper Photo copier	- 2
13.	Typewriter English	- 2
14.	Typewriter Nepali	- 2
15.	Screen for Projection	- 2
16.	Voltage Stabiliser	- 2
17.	Transparency Mount	- 1000
18.	Generator 1000 W	- 1
19.	Duplicating Machine	- 1
20.	Photocopy Machine	- 1
21.	Refrigerator	- 2
22.	Vacum Cleaner big size	- 2
23.	Video and Camera	- 1
24.	Camera	- 1

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(LIST OF TEACHING AIDS)

<u>S.No.</u>	<u>Name of Items</u>	<u>Quantity</u>
1.	Stricker bed	1
2.	Plain bed	3
3.	Instrument trolley with wheels	1 (ss)
4.	Medicine Trolley with wheels	1 "
5.	Dressing Trolley	1 "
6.	Wheel Chair	1 "
7.	Splints	1
	a. Thomas splint one adult size and one child size	2
	b. Bowler's arowens splint	1
8.	Blood pressure apparatus	20
9.	Stethoscope	30
10.	Sponge holding forceps	6 (12)
11.	Towel clips	12
12.	Blade handle No. 4	4
	Blade handle No. 3	4
13.	Blade to fit on kn-fo No. 11	1 packet
	Blade to fit on knife No. 20	1
14.	Dissecting forceps plain	6
15.	Dissecting forceps toothed 6"	5
16.	Kocker's straight 6"	2
17.	Kocker's forceps curved 4"	2
18.	Mosquito forceps 4"	6
19.	Mosquito forceps 4" curved	6
20.	Episiotomy scissors	2
21.	Cheete forceps	12
22.	Allise tissue forceps 6"	6

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<u>SNo.</u>	<u>Name of Items</u>	<u>Quantity</u>
23.	Double hook retractor	2
24.	Single hook retractor	2
25.	Suture scissors 6"one side bount one side sharp	2
26.	Bandage scissors 8"	2
27.	Plain scissors 6"	2
28.	Suture needles	
	Straight - 6	
	Round body curved - 6	
	Curring curved - 6	
29.	Needle holder 6"	2
	Straight	2
	Curved	
30.	Oxygen cylinder complete set (flow meter regulator)	1
31.	Suction apparatus	1
32.	Height and weight measuring instrument-	2
33.	Portable weighting machine	2
34.	Knee hammer	2
35.	Mouth gag fergusen	2
36.	Ophthalmoscope	2
37.	Auroscope	2
38.	Rectal speculum (proctoscope big, small 2 each)	4
39.	Table autoclave (portable)	1
40.	Sternal puncture needle with guard	2
41.	Liver biopsy needle	2
42.	Lumber puncture needle with stillet-	4

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<u>S.No.</u>	<u>Name of Items</u>	<u>Quantity</u>
43.	Trochar and cannula for abdominal tapping	2
44.	Manometer for lumbar puncture -	1
45.	Biway and three way connector -	6
46.	Luer lock syringe 50 cc -	2
47.	Aneurism needle -	1
48.	Fine tooth dissecting forcep -	2
49.	Fine plain dissecting forcep -	2
50.	Ointment Jar SS with cover -	2
51.	Atomizer -	1
52.	Boiler sterilizer medium size -	1
53.	Female pelvis -	5
54.	Doel with placenta -	5
55.	Fotoscope -	40
56.	Different size of uterus model -	12
57.	Pregnant model and chart of 4 sets internal and external reproductive organs -	
58.	Fetal skull suture and fontanelles -	20
59.	Half dummy for delivery of the baby and perineal	
60.	Obstetric forceps 3 pair (low, mid, high)	1
61.	Vacuum set -	1
62.	Atlas of fetal development -	1
63.	Atlas of mechanism of labour 2nd stage	4
64.	Atlas 1st stage of labour -	4
65.	Ambu bags child, adult, baby -	3

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<u>S.No.</u>	<u>Name of Items</u>	<u>Quantity</u>
66.	Air ways big. med. small	6
67.	Intra tracheal tube adult, children babies-	3
68.	Belles Tracheal catheters	6
69.	Miller abott duodenal tube	2
70.	Oesophageal tube sphigot	2
71.	Stomach tube faucher	2
72.	Abdominal suction tube	6
73.	Finger stall	12
74.	Haemoglobinometer	2
75.	Microscope	2
76.	Vehicles	as per necessary

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MINUTES OF DISCUSSIONS

At the request of His Majesty's Government (HMG) of Nepal, the Government of Japan has sent a team to carry out the Basic Design Study for the Construction Project of the Nurse Campus in Kathmandu through Japan International Cooperation Agency (JICA) for 25 days from 18th March to 11th April, 1984.

As a result of the study, JICA has prepared the Draft Report of the Basic Design Study and has sent a team to submit and explain the Report for 9 days from 13th to 21st June, 1984.

Both parties have had a series of discussions on the Report. The Nepalese side has principally agreed to the basic design proposed in the Draft Report except for possible changes mentioned in the attachment.

19th June, 1984.

伊藤 暁子

Ms. Akiko Itoh
Leader, Japanese Study
Team, JICA

G.P. Acharya

Dr. G.P. Acharya
Dean,
Institute of Medicine
Tribhuvan University

Attachment:

1. The proposed buildings will be shifted to the south and west considering future utilization of the northern part of the site.
2. Fence will be provided on the roof (4th floor level) of the student dormitory and all staircases will be connected to the roof.
3. The grit chamber tank for well water for the nurse campus will be included in the project.
4. The storage room next to the lecturer's room-3 will be designed same as the lecturer's room to meet the future increment of teaching staff.
5. Electric cooking ranges with necessary outlet will be provided in the kitchen of the student dormitory to cope with the shortage of firewood in the near future.
6. Regarding fuel source for the kitchen range at the nutrition laboratory, electric power will be adopted instead of L.P.G.
7. Following items will be reconsidered by the Japanese side:
 - 1) Provision of underground reservoir tank instead of tank on ground.
 - 2) If the capacity of drain gutter along the site is not enough, necessary alternative will be taken.
8. Nepalese side has strongly requested the team to communicate the desire to the Japanese Government to construct the auditorium for academic purpose.



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4. WEATHER CONDITION

Table 4-1 Temperature and Relative Humidity Data

(1971-1977, Average)

Item		Month	1	2	3	4	5	6	7	8	9	10	11	12	Mean of Year
Temperature (°C)	Mean	Max.	18.7	21.1	25.7	28.1	28.5	28.5	27.5	27.7	27.0	26.6	23.6	20.0	25.3
		Min.	2.2	3.6	7.0	11.7	15.4	18.9	20.0	19.7	18.2	14.0	7.9	2.4	11.8
		Daily	10.5	12.4	16.4	19.9	22.0	23.7	23.8	23.7	22.6	20.3	15.8	11.2	18.5
	Max. of Month	22.0	25.8	29.9	32.1	32.9	32.8	30.5	31.1	30.5	29.7	27.0	23.2	28.9	
	Min. of Month	-1.0	0.1	3.1	7.4	11.4	15.6	18.3	18.2	15.5	8.4	3.3	-0.6	8.3	
Relative Humidity (%)	AM8:40	93	86	74	70	72	80	88	88	88	87	90	93	84%	
	PM17:40	64	54	44	49	60	73	82	84	82	74	71	68	67%	
Extreme Data		Max. Temp.	37.8°C					2. Jun. 1958							
		Min. Temp.	-3.9°C					16. Jan. 1964							

Table 4-2 Precipitation Data

(1971-1977, Average)

Item		Month	1	2	3	4	5	6	7	8	9	10	11	12	Total
Precipitation (mm)			16	16	28	74	114	306	392	308	196	62	8	1	1,521
Number of Rainy Days (≥ 1.0 mm)			2.4	2.3	3.6	7.6	13.9	17.4	23.1	21.3	16.4	5.3	1.1	0.4	114.8
Extreme Data		Max. Precipitation of Year	1970mm					1973							
		Max. Precipitation of Month	698mm					Jun. 1971							
		Max. Precipitation of Day	173.2mm					27. Jul. 1954							

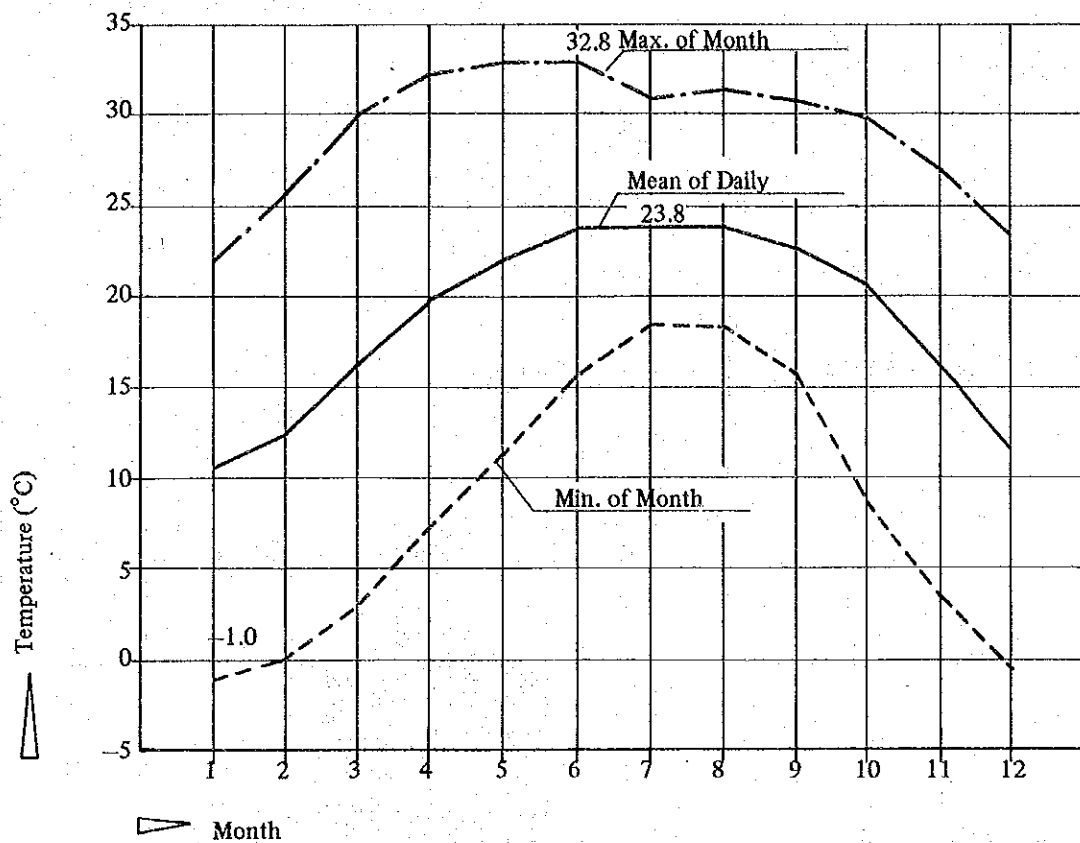


Fig. 4-1 Mean Temperature

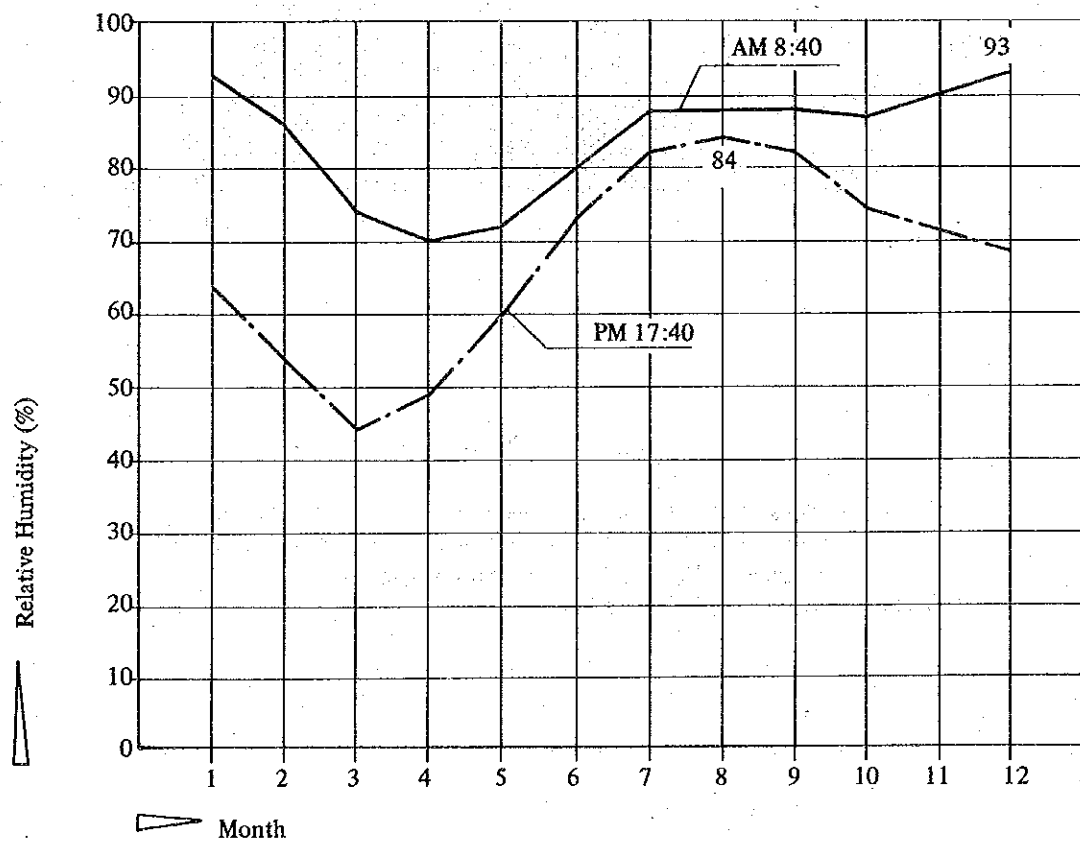


Fig. 4-2 Mean Relative Humidity

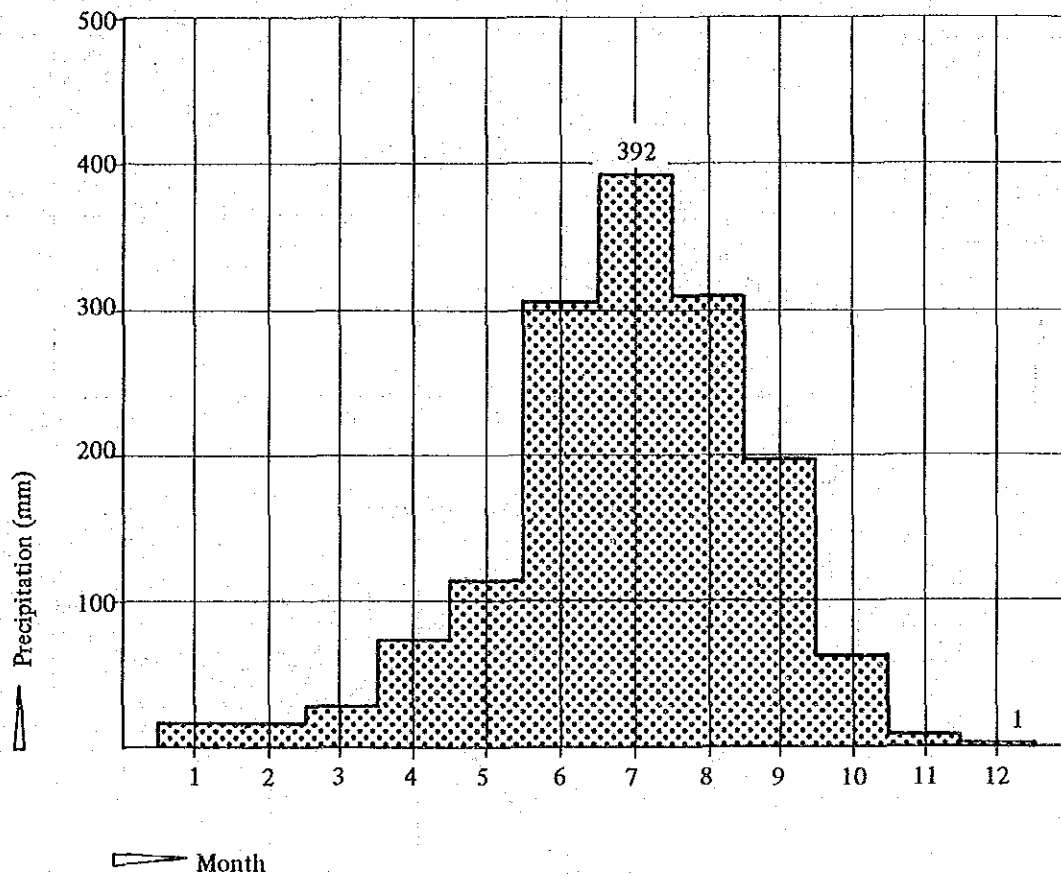


Fig. 4-3 Precipitation

Source • Climatological Records of Nepal Vol. 1 1971-1975, 1976-1980
 • Climatological Records of Nepal Vol. 2 Special Supplement
 Kathmandu Valley /Meteorological Department
 Station • Kathmandu Indian Embassy

5. TRANSITION OF EXCHANGE RATE

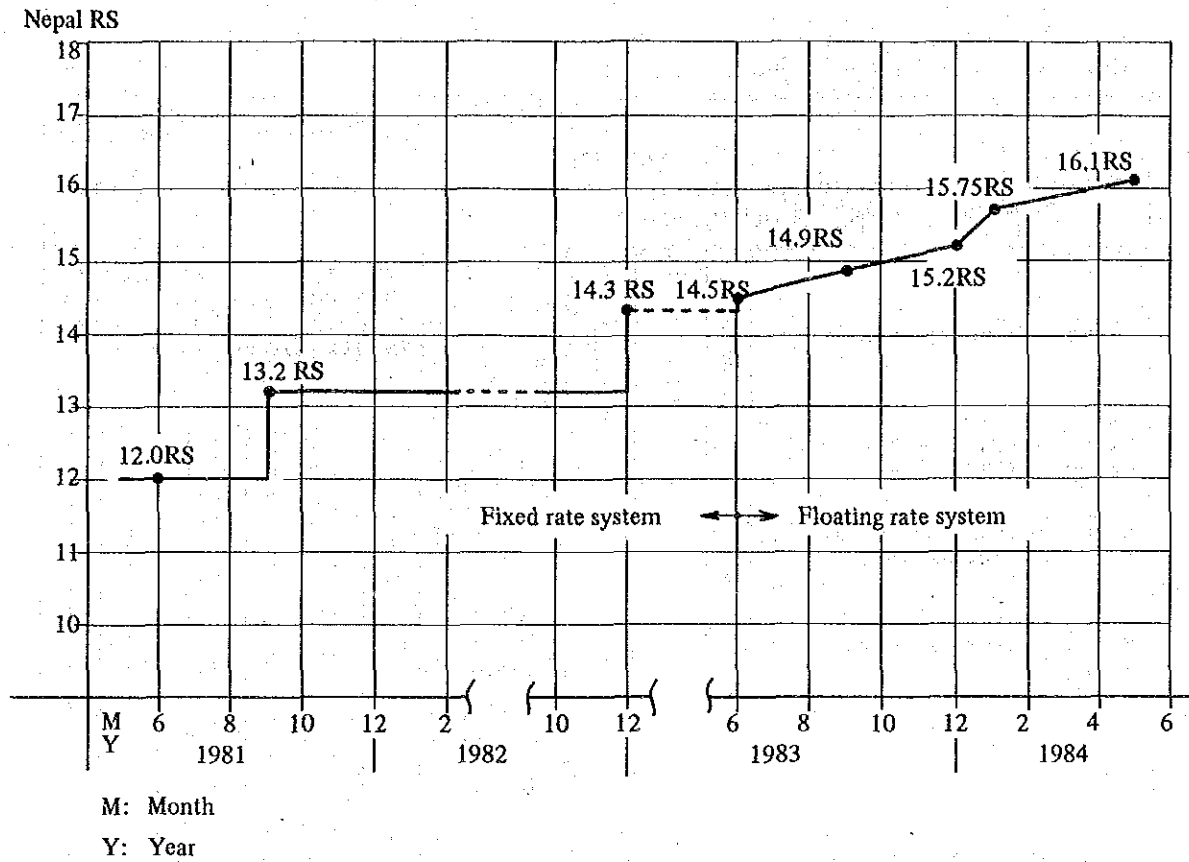
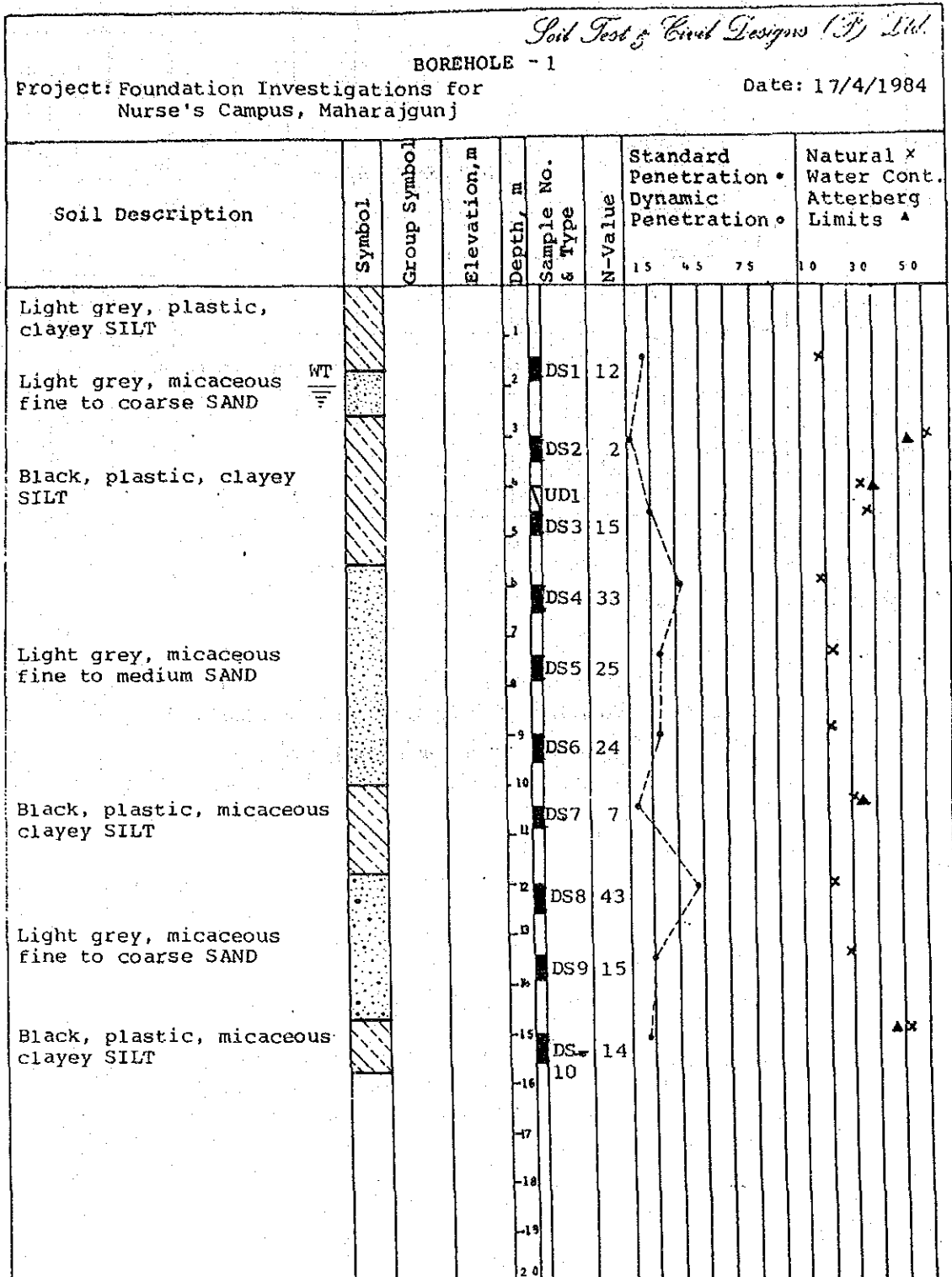


Fig. 5-1 Transition of Exchange rate (Nepal RS/1US\$)
(Source: Nepal Rastra Bank, Central Office)

6. SOIL INVESTIGATION DATA



GEOTECHNICAL PROPERTIES FROM LABORATORY TEST

Sample No	Depth m	Natural moisture content %	Atterberg limits			Unit weight gm/cm ³		Triaxial UU-test, 2 Cu, kg/cm ²	Modulus of elasticity kg/cm ²	Gradation/Hydrometer			Specific gravity, G
			LL	PL	PI	Bulk	Dry			Gravel %	Sand %	Silt & clay %	
1	1.50 - 1.95	9.6								4	65	31	2.66
2	3.0 - 3.45	52.2	46	29	17						46	42 + 12	2.63
3	4.0 - 4.45	25.0				2.03	1.62	0.88	10		67	33	
4	4.5 - 4.95	27.3	30	17	13					4	91	5	
5	6.0 - 6.45	9.2									95	5	2.65
6	7.5 - 7.95	13.6									92	8	
7	9.0 - 9.45	11.7											
8	10.5 - 10.95	22.4	26	19	7								
9	12.0 - 12.45	11.1								12	83	5	
10	13.5 - 13.95	19.2	24								67	33	
	15.0 - 15.45	41.9	38	24	14						37	56 + 7	2.64

7. LIST OF COLLECTED DATA

Title of Data	Source
1. Economic Survey Fiscal Year 1982-83	Ministry of Finance
2. The Sixth Plan (1980-1985) Part-1 (Summary)	National Planning Commission Nepal
3. The Demographic Sample Survey of Nepal. Third Year Survey 1977-78	National Planning Commission Secretariat Central Bureau of Statistics
4. Statistical Pocket Book Nepal 1982	National Planning Commission Secretariat Central Bureau of Statistics Kathmandu Nepal
5. Company Act, 2021 (1964) [As Amended]	Ministry of Law & Justice Law Books Management Committee
6. Health Manpower in Nepal	Ministry of Health/Institute of Medicine Kathmandu, Nepal. 1982
7. Climatological Records of Nepal 1976-1980 Volume 1.	Ministry of Water Resources
8. Climatological Records of Nepal 1971-1975 Volume 1.	Ministry of Food, Agriculture and Irrigation
9. Climatological Records of Nepal 1971-1975 Special Supplement	Ministry of Food, Agriculture and Irrigation
10. Climatological Records of Nepal 1967-1975 Supplemental Data	Ministry of Food, Agriculture and Irrigation
11. Report on Foundation Investigations, Nurse's Campus Building	Soil Test & Civil Designs (P.) Ltd.
12. Report on Soil Investigation at Institute of Medicine Teaching Hospital Project Maharajgunj	Institute of Engineering The Central Material Testing Laboratory

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