

## 第 8 章 結論・提言



## 第8章 結論・提言

ネパールの保健医療の現況、保健医療人材養成等の現地調査及び国内解析により、これまで述べてきた様にマハボタ看護学校を移転拡張しようとする本計画の必要性は高いと判断される。計画予定地は実習病院としてのトリブバン大学医学部教育病院に隣接していると同時に周辺環境、敷地形状、基幹施設整備状況等の点で看護学校建設に適しており、建物としては施設内容、構造、設備計画、施工計画等の点から、学校に関しては鉄筋コンクリート造2階建、床面積2607.6㎡、学生宿舎に関しては鉄筋コンクリート造4階建、床面積3654.1㎡その他守衛所等鉄筋コンクリート造1階建70.0㎡の規模、内容が妥当である。このプロジェクトの社会に対する有用性、妥当性も前項でみたように高く、本計画に対する日本政府の無償資金協力は十分な妥当性を有すると判断される。

速やかな本建設計画の実現と、完成後本計画が円滑、かつ効果的に運営され所期の目的を果たすことができるよう、以下のことをネパール国政府に提言する。

### (1) 本建設計画の実施に関する提言

- 1) 設計、建設に関する協力と必要な便宜供与
- 2) 建設用地の整備
- 3) ネパール国側で実施すべき諸工事の円滑な実施
- 4) 工事促進への協力

### (2) 看護学校の教育・運営に関する提言

- 1) ネパール王国の医療の実態や看護婦の歴史を見る時に、看護婦の養成に関しては、コミュニティ中心の准看護助産婦から病院中心の看護婦に力点が移り変わろうとしているように思われる。ネパールの保健医療サービスを充実させるためには保健医療人材確保の為の養成計画は重要な因子であり、看護婦の確保に目を注ぐ事は、特に1990年を達成目標とした長期保健医療計画の期間内に於いては了解出来るものである。しかしその目的の為に、サーティファイケート・レベルのカリキュラムの構成に関し、総合的教育に留意しつつ、成人看護学の授業時間を少なくとも現行時間の1/2以上追加する事が望ましい。
- 2) また、1990年以降は、病院のみで働く看護婦を考えるのではなく、准看護助産婦を含めた看護職の新たな配置計画をたてるべきである。そのポイントとして看護婦のコミュニティへの配置、病院に於ける看護婦の機能の明確化、病院に於ける看護婦と准看護助産婦との比率等についての研究が必要である。
- 3) 看護婦、准看護助産婦等の定義、免許、登録、国家試験、義務等看護業務に関する法的規定の整備を提言する。その際は、これからの医療の発展、国内事情を考慮して機能面での拡大解釈の中をもったものにしておく必要がある。看護の向上を図る事を目

的として病院に於ける看護サービスの基準の設定も併せて提案する。又看護婦養成機関は人命にかかわる専門職業人を教育する場であるから、国内の看護学校の設置に関して次の様な設置基準を設けることを提言したい。

①入学資格②修業年限③教育内容④教員の資格及び教員と学生の比率⑤学生の定員⑥学校の規模、設備⑦教育上必要な機材器具、標本などの基準⑧実習施設の規模⑨その他

4) 本プロジェクトの完成後、本看護学校で教育する学生数は、現在のマハボダ看護学校の学生数から大巾に増加することになる。ことでの教育効果を高め、教育を円滑に遂行して行く為に、教科書の整備を含めた教材開発の必要性が高まってくる。自助努力によりこれらを準備する事を提言したい。

## 付属資料



## 1. 調査団の構成

### 1-1 基本設計調査団（昭和59年3月18日～4月11日）

総括	伊藤 暁子	厚生省看護研修研究センター所長
無償協力	野口 裕之	外務省経済協力局 経済協力第二課
看護教育計画	矢野 正子	東京都老人総合研究所 看護学研究室長
”	豊島 関子	財団法人 国際看護交流協会事務局
計画管理	下村 則夫	国際協力事業団 無償資金協力部基本設計課
業務主任技術者 （建築計画）	林屋昌太郎	株式会社 山下設計
建築設計	長岡 嶺男	”
設備及び教育機材	浅倉 晴司	”

### 1-2 ドラフトレポート確認調査団（昭和59年6月13日～6月21日）

総括	伊藤 暁子	厚生省看護研修研究センター所長
計画管理	下村 則夫	国際協力事業団 無償資金協力部基本設計課
業務主任技術者 （建築計画）	林屋昌太郎	株式会社 山下設計
建築設計	長岡 嶺男	”

## 2. 調査日程及び主要面談者

### 2-1 基本設計調査日程

日順	月・日	曜日	調 査 内 容
1	3. 18	日	東京発(伊藤、野口、矢野、豊島、下村、林屋、長岡、浅倉)
2	3. 19	月	バンコク経由、カトマンズ着 調査日程打合せ、日本大使館表敬訪問
3	3. 20	火	トリバン大学プランニングチーフ訪問、保護省訪問、トリバン大学医学部教育病院にて本計画建設委員と協議及び同病院視察。
4	3. 21	水	カンティ小児病院視察、ビル病院視察 (A) マハボダ看護学校にて教職員と会議及び同看護学校視察 (B) マハボダ看護学校施設内容調査
5	3. 22	木	(A) 教育文化省訪問、大蔵省訪問、トリバン大学医学部教育病院にて建設委員と協議 (B) 気象庁にて資料収集、敷地踏査、本計画担当技術者と協議
6	3. 23	金	(A) ボカラ出張ーヘルスポスト2箇所視察、ボカラAHW学校及び同研究所視察 ボカラ泊 (B) WATER SUPPLY & SEWERAGE BOARD にて情報収集、本計画担当技術者と協議
7	3. 24	土 (休日)	(A) ボカラよりカトマンズへ移動 (B) 敷地測量、資料整理
8	3. 25	日	(A) 団内打合せ、資料整理 (B) NEPAL ELECTRICITY CORPORATION にて情報収集、NEPAL CONSTRUCTION CORPORATION(CONTRACTOR)、CEMAT CONSULTANT(P)LTD(CONSULTANT)及びCREATIVE BUILDERS COLLABORATIVE(P)LTD にて建設情報収集 (CONSULTANT)
9	3. 26	月	(A) 統計局及び大蔵省にて資料収集、トリバン大学医学部教育病院にて建設委員と協議 (B) 関税局にて情報収集、NEPAL GAS INDUSTRIES(P)LTD、BALAJU KASTHA KARYALAYA CO.(P)LTD、RELIABLE BUILDERS(CONTRACTOR)にて資料情報収集、DEP.OF HOUSING BUILDING & PHYSICAL PLANNING 訪問建設資材公定価格表依頼、JAYEE BUILDERS(CONTRACTOR)、BIJAYA CONSTRUCTION CO.(P)LTD にて建設情報収集
10	3. 27	火	(A) トリバン大学医学部教育病院にて建設委員と協議、MINUTES OF DISCUSSIONS 作成 (B) BRICK & TILE FACTORY(HARISIDDHI) にて情報収集、本計画担当者と協議、JAYEE BUILDERS にて依頼資料回収、MARBLE INDUSTRIES(P)LTDにて建設資材情報収集、BALAJU YANTRA SHALA ELECTRO LTDにて電気、衛生資料収集
11	3. 28	水	(A) マハボダ看護学校にて教職員と会議、トリバン大学医学部教育病院にて建設委員と協議、MINUTES OF DISCUSSIONSの調印 (B) BKK、BIJAYA CONSTRUCTION CO(P)LTD にて依頼資料の回収、SOIL TEST & CIVIL DESIGN(P)LTD にて地質調査打合



日順	月・日	曜日	調 査 内 容
12	3. 29	木	(A) バタン病院視察、ジャンタバワン看護学校視察 (B) CREATIVE BUILDERS COLLABORATIVE(P)LTD, RELIABLE BUILDERS, CEMAT CONSULTANT(P)LTD にて依頼資料回収、SOIL TEST & CIVIL DESIGN(P)LTD. にて地質調査の発注。
13	3. 30	金	(A) 日本大使館訪問報告、教育省、マハボタ校、SLC局、コンピューターセンターにて教育関係資料収集、大蔵省訪問報告 (B) 市場調査(建築材料・衛生器具・電気製品等) NEPA AGENCY & CO.(P)LTD にて輸送関係情報収集
14	3. 31	土 (休日)	伊藤団長、野口、矢野、豊島、下村団員 カトマンズ発 (林屋、長岡、浅倉団員調査業務継続)資料整理
15	4. 1	日 (祭日)	伊藤団長他4名バンコク経由東京着 資料整理、敷地周辺踏査
16	4. 2	月	文部省統計課、コンピューターセンター、保健省ナーシングセクションにて教育関係収集、STEEL WOOD(P)LTD(家具)、HIMAR CEMENT にて情報収集 DOOARS TRANSPORT(NEPAL) Pvt. LTD. 輸送関係情報収集
17	4. 3	火	JAYEE BUILDERSにて依頼資料回収、 NEPAL TELECOMMUNICATION CORPORATION, WATER SUPPLY & SEWERAGE BOARD にて情報収集。 ジャンタバワン看護学校、バタン病院施設機材内容調査
18	4. 4	水	NEPAL ELECTRICITY CORPORATION, WATER SUPPLY & SEWERAGE BOARD にて情報収集、NEPA AGENCY & CO.(P) LTD にて依頼資料回収、マハボタ看護学校にて既存家具類調査 SKYLAND TRANSPORT CO. にて輸送関係情報資料収集
19	4. 5	木	保健省計画局及び統計課にて資料収集、井戸堀削コンサルタント ENGINEERING SERVICE にて井水情報収集、井戸堀削現場視察 CREATIVE BUILDERS COLLABORATIVE(P)LTD, BIJAYA CONSTRUCTION CO.(P)LTD にて建設情報収集、STEEL WOOD (P)LTD にて依頼資料回収、BARAJU YANTRASHALA(P)LTD. にてスチールサッシュ情報収集 WATER SUPPLY & SEWERAGE BOARD にて情報収集
20	4. 6	金	ENGINEERING SCIENCE, NATIONAL TRADING LTD, VOCATIONAL TRAINING CENTRE にて情報収集、 L.P.JYOTI & CO.(P)LTD にてガラス関係情報収集、 SKYLAND TRANSPORT CO. にて依頼資料回収、 BALAJU YANTRA SHALA ELECTRO LTD にて電気衛生関係資料回収 NEPAL POLYETHENE INDUSTRIES にて配管材資料収集、 MECHANICAL TRAINING CENTRE 視察(スイス援助建物)、 MAHALAXMI HUMPIPE UDHYOG(P)LTD ヒューム管工場視察
21	4. 7	土 (休日)	資料整理、市場調査
22	4. 8	日	JICA 事務所訪問、報告 DEAN'S OFFICE 訪問、報告

日順	月・日	曜日	調 査 内 容
2 3	4. 9	月 (休日)	収集資料整理、解析
2 4	4. 10	火	林屋、長岡、浅倉団員 カトマンズ発
2 5	4. 11	水	バンコク経由、東京着

2-2 ドラフトレポート確認調査日程

日順	月・日	曜日	調 査 内 容
1	6. 13	水	林屋、長岡団員東京発
2	6. 14	木	バンコク経由、夕刻カトマンズ着
3	6. 15	金	JICA 事務所にて打合せ トリバン大学医学部教育病院にて本計画建設委員に ドラフトレポートの説明、協議
4	6. 16	土 (休日)	伊藤団長、下村団員カトマンズ着 敷地周辺状況確認
5	6. 17	日	JICA 事務所にて打合せ トリバン大学医学部教育病院にて本計画建設委員と協議
6	6. 18	月	日本大使館表敬訪問 トリバン大学医学部教育病院にて本計画建設委員と協議
7	6. 19	火	MINUTES OF DISCUSSIONS の調印 大蔵省訪問
8	6. 20	水	伊藤団長、林屋、長岡団員 カトマンズ発
9	6. 21	木	バンコク経由、東京着

2 - 3 主要面談者

- 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. Dhruva 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. Pandey (Chairman)
- Department of Customs  
 Mr. S.D. Josh (Section Officer, Duty Exemption Section)
- 在ネパール日本国大使館
  - 金子 一夫 大使
  - 西沢 憲一郎 元大使
  - 有 信 宗 参事官
  - 高 山 一 義 調査員
- JICA カトマンズ事務所
  - 星 達 雄 所長

3. 討議要録

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.

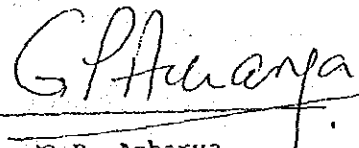
As a result of the survey and discussions, both parties have agreed to recommend to their respective Governments to examine the result of the study attached herewith towards the realization of the Project.

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.	Midwifery (Theory)	270
8.	Midwifery (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	50
10.	Community Practice I	120

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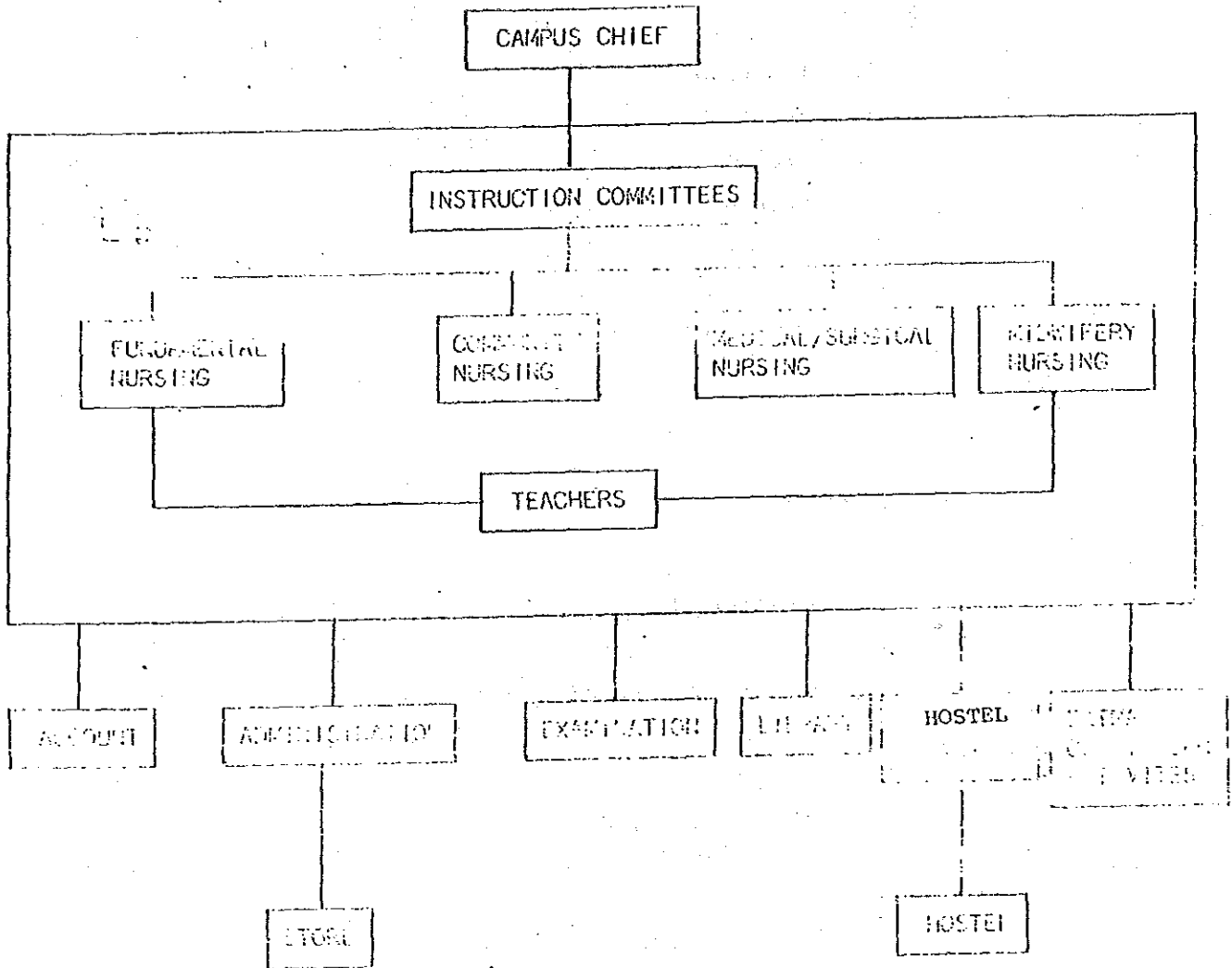
II YEAR

<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 II PRESENT ORGANISATION OF MAHABODHA CAMPUS



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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	-	2
5. Store Keeper	-	2
6. Other (Driver, Peon, Watchman etc.)	-	15
7. Cook	-	8
8. Kitchen Cleaner	-	9
9. Sweeper	-	1
		<hr/>
Sub Total	-	50

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**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

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TOTAL

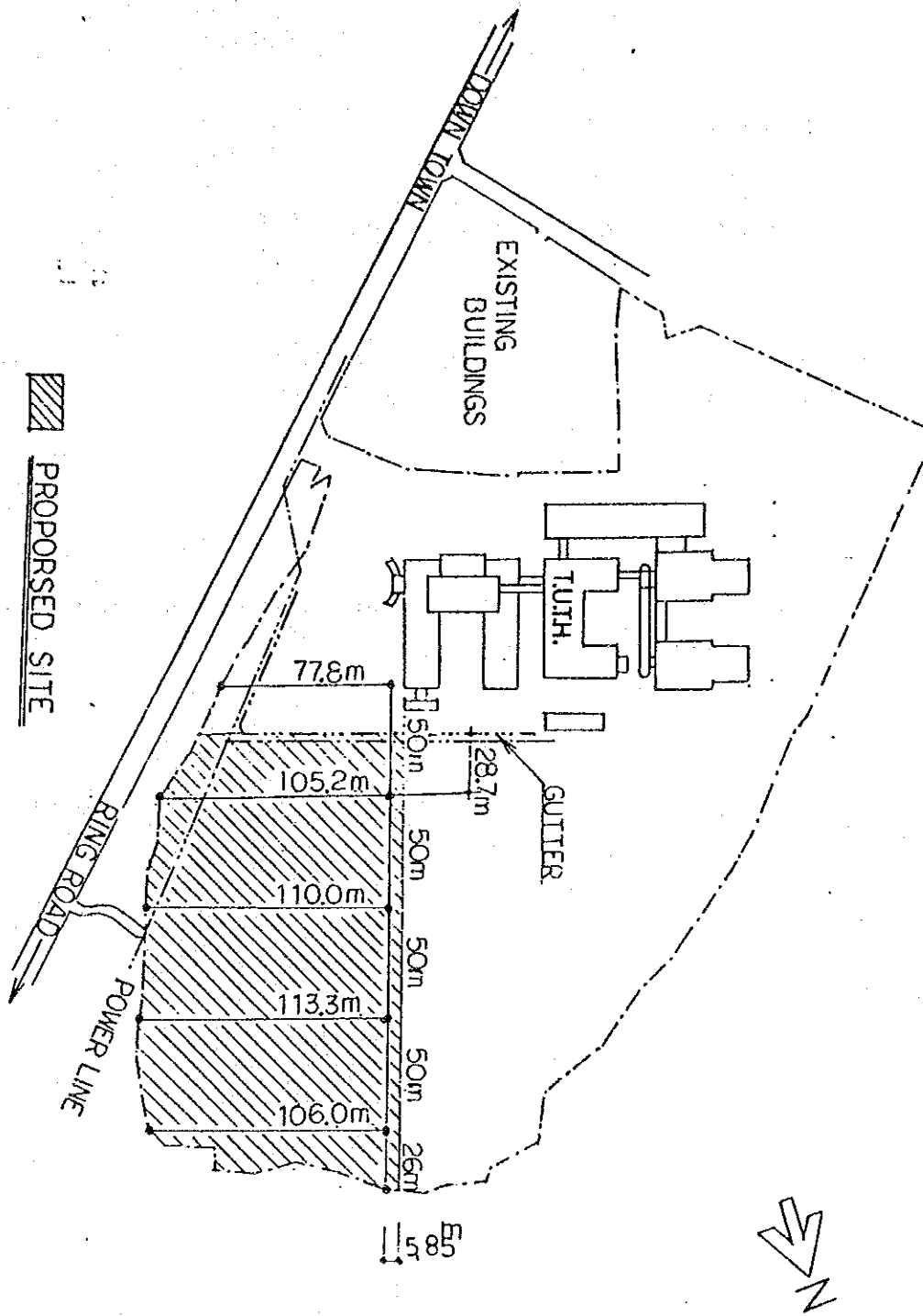
Rs. 3,280,000

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 HMG 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 copler	- 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 rowens 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-fe 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.	Cheetle 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 abdominat tapping	2
44.	Manometer for lumbar puncture -	1
45.	Biway and three way connector -	6
46.	Luier lock syringe 50 cc -	2
47.	Aneurism needle -	1
48.	Fine tooth dissecting forcep -	2
49.	Fine plain dissecting forcep -	2
50.	Oirtment Jar SS with cover -	2
51.	Automizer -	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 fontanells -	20
59.	Half dummy for delivery of the boby 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, boby -	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. 気象条件

項目		月	1	2	3	4	5	6	7	8	9	10	11	12	年平均
気 温	月 別 平 均 値	日最高気温	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
		日最低気温	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
		日平均気温	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
℃	月最高気温		22.0	25.8	29.9	32.1	32.7	32.8	30.5	31.1	30.5	29.7	27.0	23.2	28.9
	月最低気温		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
相 対 湿 度%	8:40AM		93	86	74	70	72	80	88	88	88	87	90	93	84%
	5:40PM		64	54	44	49	60	73	82	84	82	74	71	68	67%
日最高、最低データ			最高気温						37.8℃			1958年6月2日			
			最低気温						-3.9℃			1964年1月16日			

表4-1 温湿度データ (1971年-1977年の平均)

項目		月	1	2	3	4	5	6	7	8	9	10	11	12	年合計
月別平均降雨量			16	16	28	74	114	306	392	308	196	62	8	1	1521mm
月別平均降雨日数 (1日1mm以上の日)			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日
最大雨量データ		年間最大雨量						1970mm			1973年				
		月間最大雨量						698mm			1971年6月				
		日間最大雨量						173.2mm			1954年7月27日				

表4-2 降雨量データ (1971年-1977年の平均)

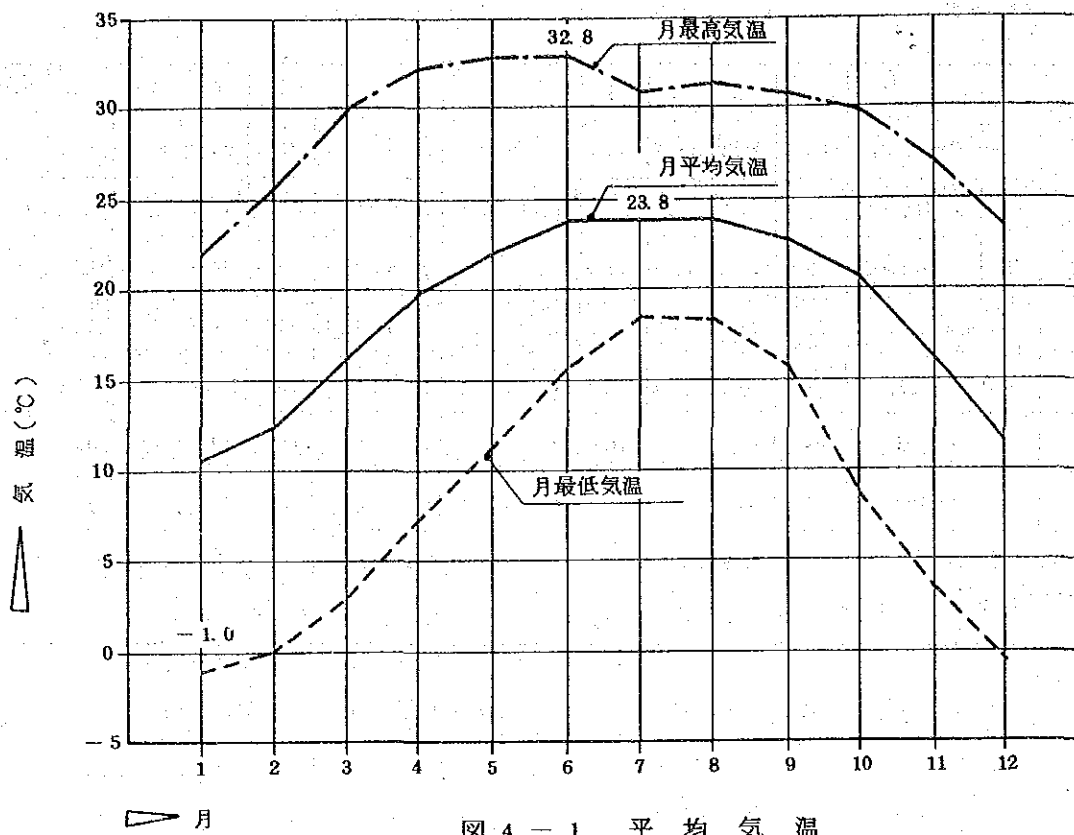


图 4 - 1 平均气温

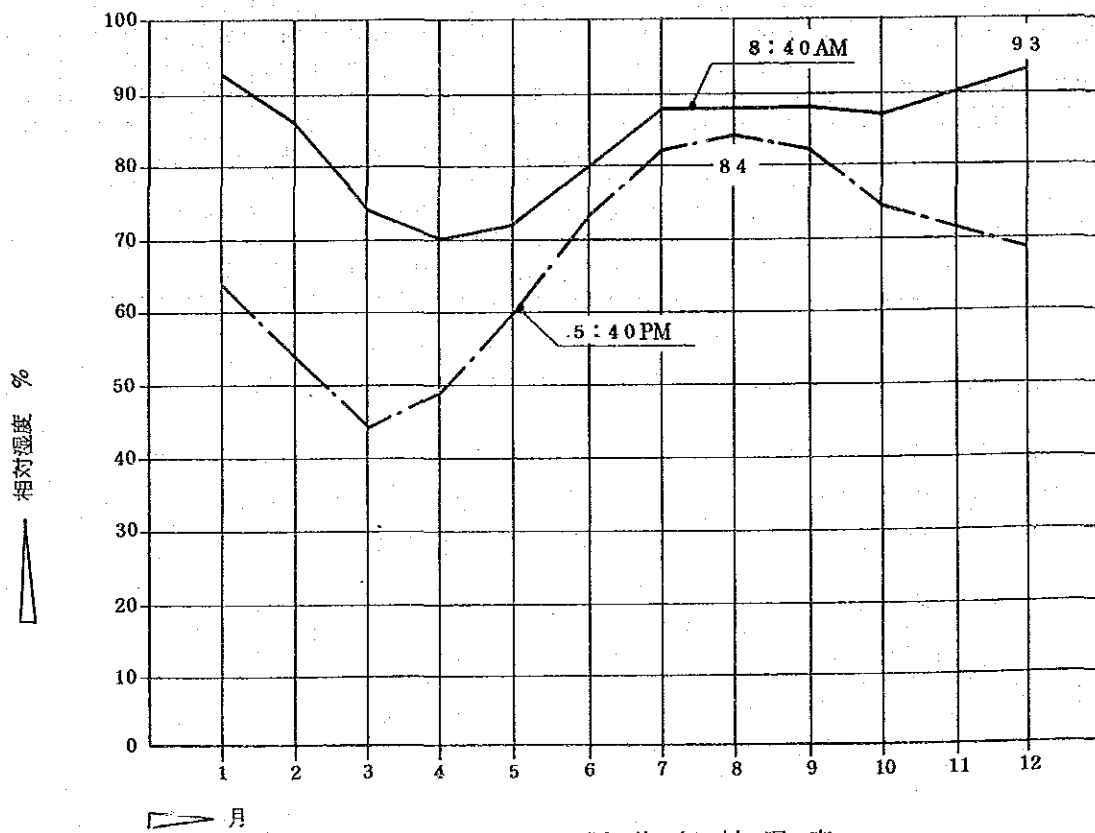


图 4 - 2 平均相对湿度

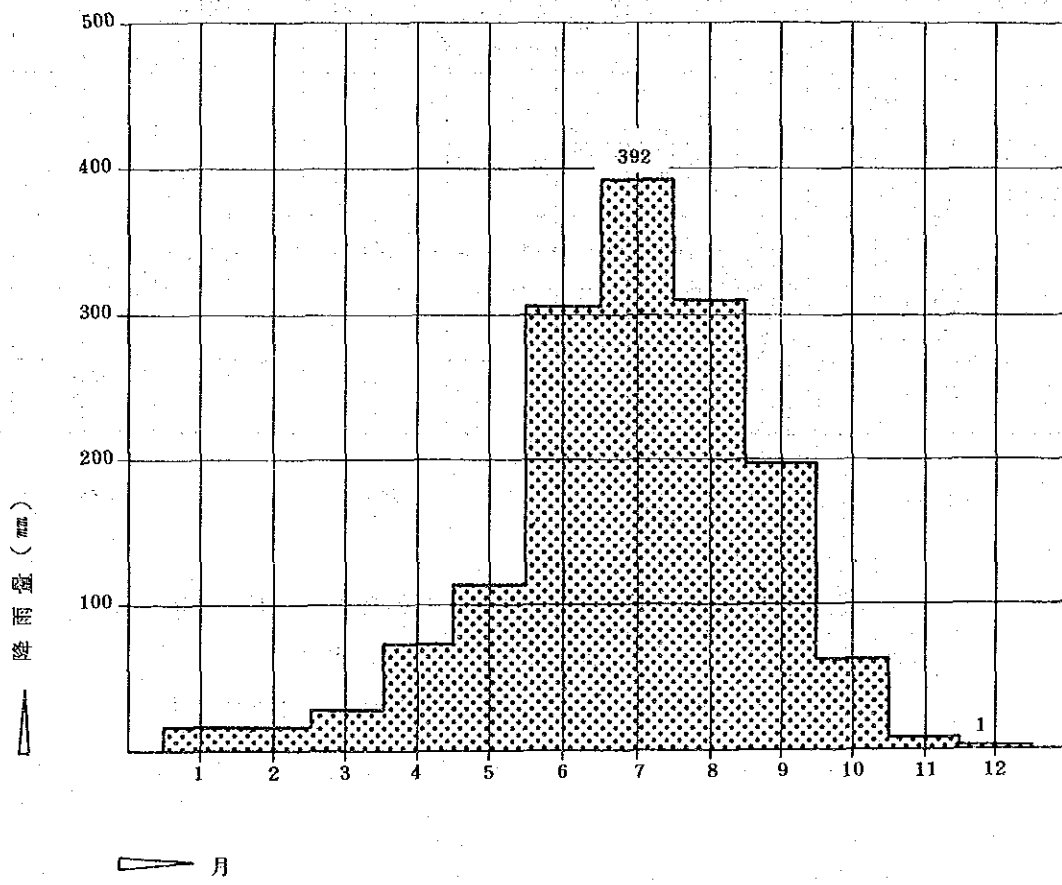


图 4 - 3 降 雨 量

出所：• CLIMATOLOGICAL RECORDS OF NEPAL VOL.1 1971-1975, 1976-1980  
 • CLIMATOLOGICAL RECORDS OF NEPAL VOL.2 1921-1975 SPECIAL  
 SUPPLEMENT KATHMANDU VALLEY / 気象庁発行  
 観測点：• KATHMANDU INDIAN EMBASSY

5. 為替交換レートの変遷

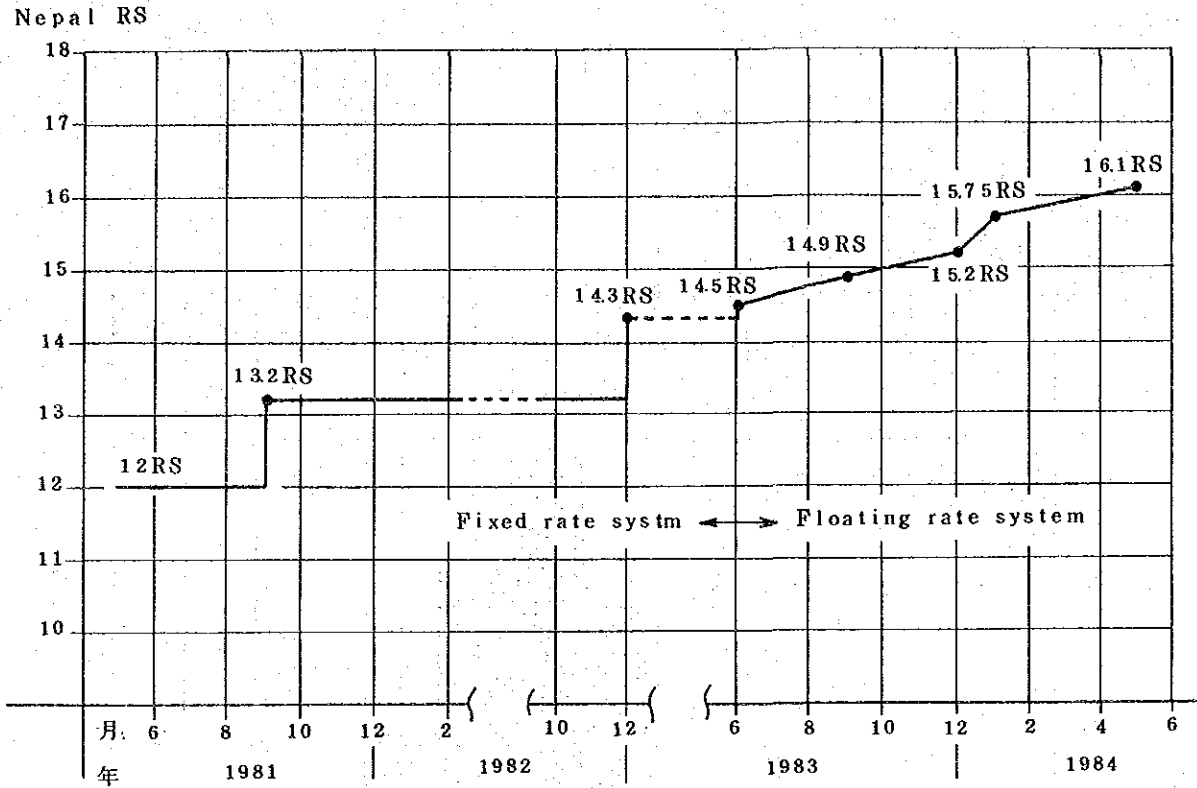
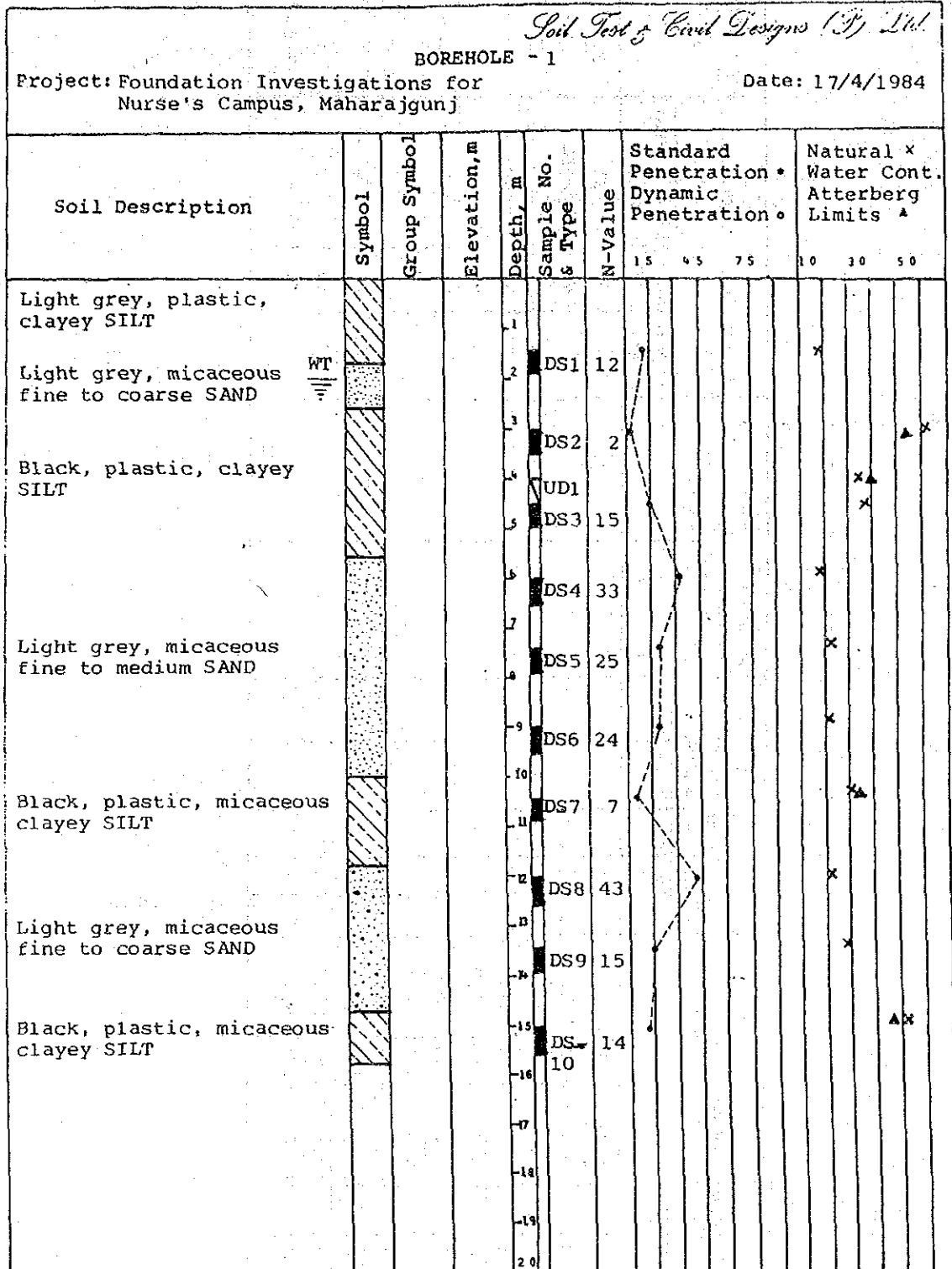


図5-1 ネパールルピー対USドル為替交換レートの変遷  
( Nepal RS/1 US \$ )

( 出所：ネパール・ラストラ銀行セントラルオフィス )

6. 地質調查資料



GEOTECHNICAL PROPERTIES FROM LABORATORY TEST

Sample No	Depth m		Natural moisture content %	Atterberg limits			Unit weight gm/cm <sup>3</sup>		Triaxial UU-test, 2 Cu, Kg/cm <sup>2</sup>	Modulus of elasticity kg/cm <sup>2</sup>	Gradation/Hydrometer			Specific gravity, G
	DS	UDS		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	1	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. 収集資料リスト

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







JICA