

APPENDIX—2

2-1 OUTLINE OF IOM

Fig.-1 Organization of IOM

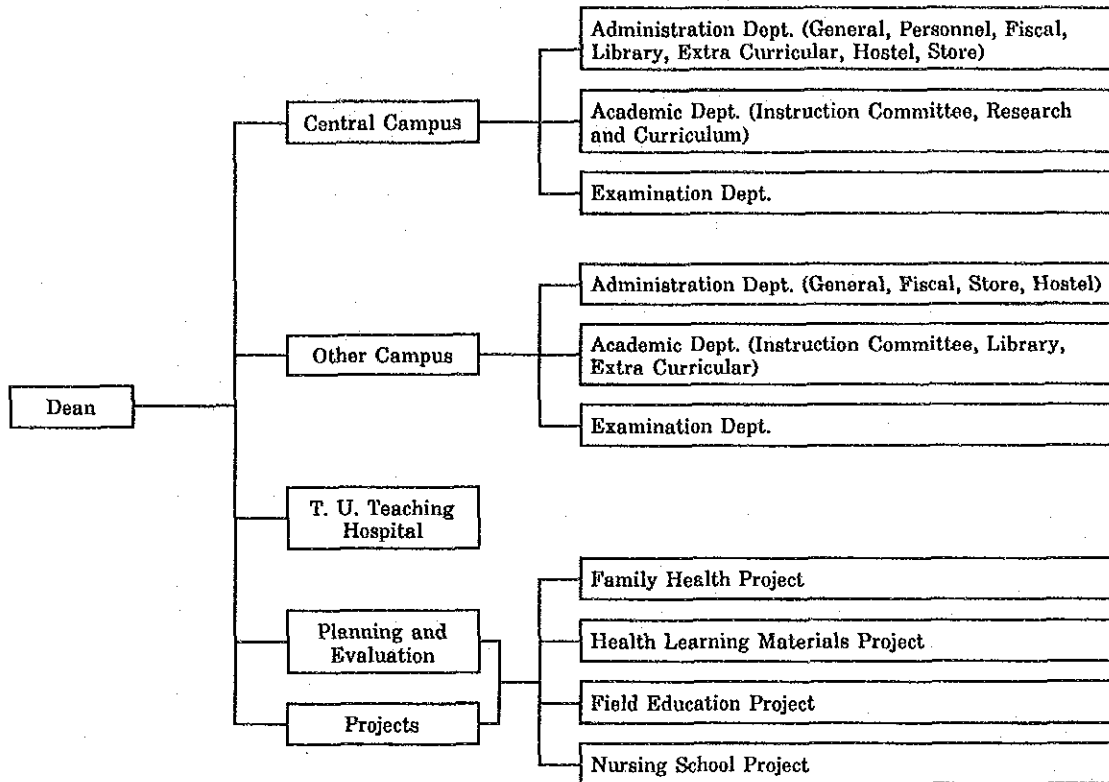
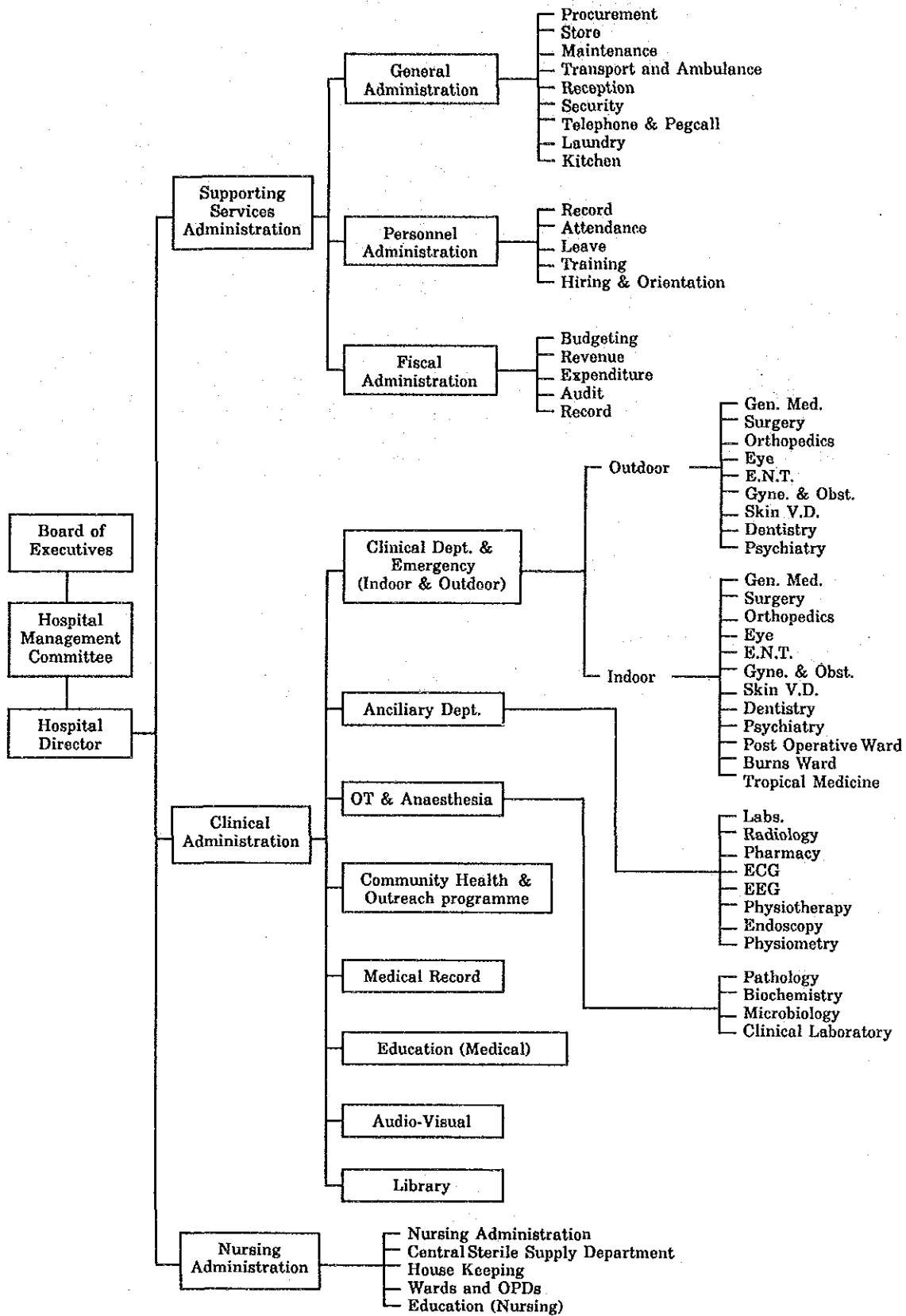


Fig.-2 Organization of TUTH



RESULTS OF ANALYSIS OF WATER

Analysis data of well water and city water in the site are shown in the following table.

Table-1 Results of analysis

Item	Standard of water on Japanese water regulation	Sample of water in the site	
		Well water	City water
pH	5.8~8.6	6.4	7.0
Turbidity	2 deg. or less	20 deg.	Less than 1 deg.
Iron	0.3ppm or less	5.54ppm	0.28ppm
Manganese	0.3ppm or less	0.57ppm	Less than 0.01ppm
Ammonia Nitrogen	* (0.5ppm or less)	10.7ppm	Less than 0.1ppm
Nitrate and Nitrite	10ppm or less	Less than 0.5ppm	Less than 0.5ppm
Evaporation Residues	500ppm or less	256ppm	44ppm
Chloride Ion	200ppm or less	Less than 0.2ppm	Less than 0.2ppm
Hardness	300ppm or less	96.8ppm	12.3ppm
Consumption of $KMnO_4$	10ppm or less	12.3ppm	3.7ppm

(* : Regulated value of WHO)

Table-2 Staff of IOM

(as of October, 1989)

Subjects	Professor	Reader	Lecturer	Asst. Lect.	Instructor	Depty Inst.	Asst. Inst. & Others	Total
Anatomy	1	1	2	2	1			7
Physiology	1	1	1	1				4
Pathology	1	2	3	5	2	2	8	23
Microbiology		1		1				2
Biochemistry		1	2	2				5
Pharmacology	1	1	2	1				5
Forensic Medicine	1	1		1				3
Community Medicine	2	2	13	22				39
Nutrition	1							1
Health Education	1	1	5	1	2			10
Biostatistics		1						1
Statistics			2		1			3
Medical Education		1						1
Medical Sociology		1						1
Sociology			2	1				3
Environmental Health				1				1
Hygiene & Sanitation			1		1	1		3
Health Economics				1				1
General Medicine	1	3	1					5
Surgery	1	3	1					5
Obstretic/Gynaecology	1	2		2				5
Paediatric	1	2		1				4
Ophthalmology	1	2	1	1				5
E.N.T.	1	1		1				3
Dental		1	2	2				5
Dermatology		1						1
Orthopaedic		1						1
Anaesthesiology	1	2	2	2				7
Radiology	1	1		1	1			4
Cardiology			1					1
Physiotherapy				1				1
Pharmacy			1	1	1	3	7	13
General Practice		1	1					2
Psychiarty	1	1						2
Nursing	1				2	1	3	7
General Medicine					4	4	26	34
Computer Operator						2		2
Physics			3					3
Chemistry			2	1				3
Zoology			3	2				5
Botany			1	2				3
Nepal Parichaya			2	1				3
Nepali			2					2
English			1	1				2
Radiography				1	1	1	4	7
Medical Illustrator					1			1
Asst. Medical Illustrator						1		1
Medical Photographer							1	1
	19	35	57	59	17	15	49	251
Administrative Officer								15
non officer								144
								410

Table-3 Course of IOM

Level/Programmes	Duration	Campus Location	Seats
1. Vocational			
1.1 CMA	1	Surkhet, Tansen, Dhankuta	180
1.2 ANM	2	Tansen, Bharatpur	54
1.3 Baidya	1	Kathmandu, Naraderi	40
2. Certificate			
2.1 General Medicine	2 1/2	Kathmandu, Central Campus	30
2.2 Health Laboratory	2 1/2	Kathmandu, Central Campus	15
2.3 Pharmacy	2 1/2	Kathmandu, Central Campus	15
2.4 Radiography	2 1/2	Kathmandu, Central Campus	15
2.5 Health Education & Sanitation	2 1/2	Kathmandu, Central Campus	10
2.6 Nursing	3	Kathmandu, Central Campus, Birgunj, Pokhara, Biratnagar, Nepalgunj	120 100
2.7 Physiotherapy	2 1/2	Kathmandu, Central Campus	7
2.8 General & Traditional Medicine	3	Kathmandu, Central Campus	40
3. Bachelor			
3.1 MBBS	4+1	Kathmandu, Central Campus	30
3.2 BMLT	2	Kathmandu, Central Campus	4
3.3 BN	2	Kathmandu, Central Campus	30
3.4 BAMS	5	Kathmandu, Central Campus	16
3.5 BPH	2	Kathmandu, Central Campus	10
4. Post Graduate			
4.1 MD General Practice	3	Kathmandu, Central Campus	3
4.2 MD Ophthalmology	3	Kathmandu, Central Campus	2
4.3 DGO	1	Kathmandu, Central Campus	2
4.4 DCH	1	Kathmandu, Central Campus	2
4.5 DA	1	Kathmandu, Central Campus	2
4.6 DLO	1	Kathmandu, Central Campus	3
4.7 DMRD	2	Kathmandu, Central Campus	3
4.8 MSc Public Health	2	Kathmandu, Central Campus	4

Table-4 Staff of TUTH

(as of October 1989)

Position	No.	Position	No.
Director	1	Clinical Administration (Clinical Dept., Emergency Dept., Ancillary Dept., OT & Anaesthesia Dept., Community Health & Outreach programme Dept.)	
Supporting Services Administration (General Administration & Personnel Administration Dept.)			
Hospital Administrator	1	Professor	10
Asst. Registrar	3	Reader	21
Asst. Administrator	5	Lecturer	8
Head Assistant	11	Asst. Lecturer	11
Typist	7	Senior House Officer	8
Receptionist	4	House Officers	26
Assistant	13	Dental Lecturer	2
Store Officer	1	Dental Asst. Lecturer	2
Store Keeper	3	Asst. Physiotherapist	6
Asst. Store Keeper	3	Lab. Technologist	5
Senior House Keeper	1	Laboratory Technician	34
House Keeper	1	Lab. Boy	5
Asst. House Keeper	3	Radiography Technologist	3
Tailors	4	Radiographer	10
Laundry Supervisor	1	EEG Technician	2
Laundry man	11	ECG Technician	1
Kitchen Incharge	1	Endoscopy Technician	2
Dietician	1	Pharmacist	2
Asst. Food Supervisor	2	Pharmacy Asst.	11
Head Cook	1	Pharmacy Clerk	4
Cook	10	(Medical Record Dept.)	
Cleaner	19	Medical Recorder	1
Maintenance Incharge (Asst. Engineer)	1	Asst. Medical Recorder	5
Maintenance Asst.	3	Junior Medical Recorder	2
Electrician	6	Registration Clerk	3
Plumber	6	(Nursing Administration Dept.)	
Carpenter	2	Matron	1
Gardener	8	Nursing Supervisor	4
(Fiscal Administration Dept.)		Sister	4
Finance Controller	1	SNS	9
Account Officer	1	SN	101
Account	5	ANM	36
Asst. Accountant	9	HA	12
Outdoor Attendant	16		
Lab. Attendant	6		
Ward Collies	94		
Strecher Bearer	14		
Peon	56		
Sweeper	58		
Driver	11		
Helper	4		
Guard	25		
		On leave	12
		Total	796

Table-5 Nos. of Outpatients

Out Patient	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
G. Medicine	9,887	24,052	32,748	39,821	44,440	41,702
G. Surgery	3,139	6,853	9,656	14,692	17,809	18,425
E.N.T.	2,863	8,390	12,452	17,321	20,363	22,318
Obs/Gynae.	2,217	6,076	9,928	15,824	22,268	23,907
Ophthalmology	3,829	8,689	13,449	18,617	20,649	19,815
Dermatology	-	-	3,710	8,846	11,405	11,848
Psychiatry	2,292	6,997	368	4,012	4,954	5,751
Orthopaedics	3,174	6,797	9,132	17,336	20,118	23,484
Dental	4,326	7,171	7,240	11,122	11,995	15,119
Total	31,727	75,025	98,683	147,591	174,001	182,369

Table-6 Nos. of Inpatients

In Patient	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
G. Medicine	-	457	1,769	1,896	1,743	2,093
Surgery	-	265	1,094	1,642	1,812	1,940
E.N.T.	-	96	343	454	611	676
Obs./Gynae.	-	122	1,202	1,917	2,091	2,319
Ophthalmology	-	154	383	486	440	487
Dermatology	-	-	-	12	25	39
Psychiatry	-	-	-	33	137	218
Urthopaedics	-	77	377	421	453	661
Dental	-	-	-	9	4	33
Drug & Poisoning	-	-	-	7	16	40
Burn	-	-	-	-	12	7
Total		1,171	5,168	6,877	7,344	8,513

Table-6 Nos. of ICU/CCU patients

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
Total Adm.	12	195	286	303	457	268
Death	1	46	60	68	103	57

Table-8 Nos. of patients and used films in x-ray department

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
No. of Patient	1,935	5,067	12,475	21,933	24,988	32,286
No. of Used films	4,900	11,000	26,100	40,000	37,400	46,450

Table-9 Kind of examination in X-ray department

Kind of Examination	year.					
	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
X-ray (others)	1,374	4,507	11,269	20,729	24,179	31,344
Upper gastrointestinal tracts	294	202	471	330	88	196
Ba-enema	56	26	90	83	42	80
Gall bladder	190	94	227	262	84	61
Angiography	1	1	3	15	2	10
Myelogram	6	17	46	33	16	53
Pyelography	-	181	313	424	540	501
Tomography	14	39	56	57	37	41
Ultrasonography	-	-	1,005	1,133	1,941	2,306

Table-9' Nos. of Examination in Clinical Laboratory

Bacteriology

(as of January '90)

Item	Nepal year	2043	2044	2045	2046(10/12)
Outpatient Blood	C/S	2,595	3,090	1,784	2,647
	C/S	2,696	4,789	5,295	3,788
	AFB	2,585	1,850	2,285	1,713
Indoor Blood	C/S	1,590	2,150	1,285	719
	C/S	5,151	5,250	5,460	5,460
	AFB	2,153	1,580	2,250	785

Virology

(as of January '90)

Item	Nepal year	2043	2044	2045	2046(10/12)
Rota Virus		83	7	-	-
Rubella		1	-	-	-
HIV		1	13	-	543
HSV-culture		-	15	-	-
HBSAg Elisa		-	-	-	927

Table-9'' Bed nos. of Existing ward

Ward	Bed Nos.	Location of ward
Obstetrics & Gynaecology	30 beds	Ground floor
Surgey (male)	33	First floor
" (female)	33	"
Post-operation	12	"
Internal Medicine (male)	33	Second floor
" (female)	33	"
Gynaecology (female)	12	"
Tropical Medicine (male)	12	"
" (female)	12	"
Psychiatry	12	Third floor
Ophthalmology & Dentlogy	33	"
Orthopedics & ENT	34	"
Dermatology	5	"
Burns	4	"
Total	298	

Table-10 Budget of Ministry of Education and Culture

(million Rs)

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
General Budget	137.2	161.4	207.6	242.3	256.3	286.8
Department Budget	678.6	644.2	879.4	1,036.5	1,160.9	1,453.8
Total	815.8	805.6	1,087.0	1,278.8	1,417.2	1,740.6

Table-11 Budget of Tribhuvan University

(million Rs)

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
Tribhuvan University	341.2	349.4	459.3	407.0	468.1	476.0

Table-12 Budget of IOM

(Rs)

Item	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989	Total
Capital Expenditure	2,305,500	2,315,500	886,500	2,315,000	2,992,800	2,130,000	
Personnel Expense	7,842,500	7,948,000	12,239,000	11,466,000	8,457,000	19,712,500	67,665,000
Allowance	2,651,000	3,014,000	1,461,000	5,700,000	7,510,000	7,375,000	27,711,000
Electricity & Water Supply	255,500	259,000	387,000	1,052,500	190,000	283,000	Allowance / personnel Expense = 41%
Maintenance	135,000	175,000	112,000	293,000	200,000	145,000	
Vehicle	396,500	353,000	363,000	427,000	355,000	216,500	
Telephone (Telephone, Postage & Telegraphy)	112,500	89,000	92,000	82,000	100,000	135,000	
Printing & Stationary	199,500	181,000	191,000	249,000	160,000	161,000	
Office Misc.	163,000	183,500	209,000	222,000	120,000	120,000	
Scientific & Educational Materials	287,500	275,000	286,000	281,500	320,000	320,000	
TADA	237,000	190,500	169,000	127,000	100,000	116,000	939,500
Others	2,621,050	2,179,000	2,623,000	10,978,000	2,725,000	11,781,500	TADA / personnel Expense = 1.4%
Sub-total	17,186,550	17,162,000	19,008,500	33,193,000	23,174,800	42,495,500	
To TUTH	5,348,500	9,924,882	15,649,969	16,740,137	12,325,984	19,892,040	
Total	22,535,050	27,086,882	34,658,196	49,933,137	35,500,784	62,387,560	

Table-13 Income of TUTH

Item	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989
- From IOM	5,348,500.86	9,924,882.95	15,649,696.33	16,740,137.27	12,325,984.48	19,892,040.00
- Out Pt. Registration	30,868.00	79,533.00	154,862.73	312,753.50	572,263.00	658,478.00
- X-ray	243,421.00	427,178.30	894,267.60	1,225,606.13	1,393,637.73	1,640,967.84
- Pathology	107,063.00	404,597.47	1,188,510.01	2,131,004.00	2,938,644.72	3,377,336.52
- Others (Bed Room, Operation, Obst., ECG, EEG, Dental, Eye, etc.)	81,799.50	724,808.28	2,855,887.27	5,452,806.99	6,511,578.07	7,873,152.59
Total	6,811,652.36	11,561,000.00	20,743,223.94	25,862,307.89	23,742,108.00	33,441,974.95

Table-14 Expense of TUTH

Item	1983/84	1984/85	1985/86	1986/87	1987/88	1988/1989	Total	
Capital Expenditure	334,811.99	2,399,709.14	4,172,635.06	5,390,247.69	3,154,688.24	2,594,161.53		
Personnel Expense	1,007,259.13	4,241,010.45	6,794,836.04	7,630,657.72	9,146,281.97	12,910,591.51	41,730,636.82	
Allowance	420,213.55	161,038.14	342,826.01	4,137,740.51	4,551,551.00	6,048,079.19	15,661,448.40	
Electricity & Water Supply	80,756.21	294,692.68	1,312,995.20	1,436,087.00	1,546,985.29	1,795,183.25	Allowance/ personnel Expense = 37.5%	
Maintenance (Equipment & Building)	21,224.57	61,392.45	198,383.00	168,111.79	237,868.16	298,914.67		
Vehicle (Fuel, Generator & Vehicle)	50,511.46	171,627.73	379,461.36	508,861.27	519,904.47	671,964.12		
Telephone (Telephone, Postage & Telegraphy)	9,942.05	25,225.49	43,884.33	74,598.94	95,578.44	168,956.93		
Printing & Stationary	179,846.00	337,901.85	353,731.12	499,406.99	522,859.33	689,427.08		
Office Misc. (Soap, Soap powder, Detergents, Phenyl, Soapbar, Drugs, Laundry, Diet, Linen)	689,086.36	1,600,621.20	2,696,451.76	2,861,104.75	3,344,071.64	3,190,595.73		
Scientific & Educational Materials (X-ray films, Chemicals, Dressing Material, Gauze, Bandage, Cotton, Adhesive plaster, Gas, Oxygen, Nitrous oxide, Surgical Accessories and lab Materials)	480,765.12	1,318,576.67	1,928,076.02	1,963,013.31	3,598,886.00	5,824,879.34		
TADA	2,541.32	11,644.74	10,784.28	15,512.94	50,431.66	54,426.88		145,341.82
Others	38,646.37	126,526.27	242,631.56	314,469.29	732,962.76	1,866,859.96		TADA / personnel Expense = 0.3%
Total	3,315,604.13	10,749,966.81	18,476,695.74	24,999,312.20	27,502,068.92	36,114,040.19		

Table-15 Basic Salary of IOM and TUTH Staff Basic Salary (Rs/month)

scale	Basic salary (Rs/month) (Minimum - Increase/year - Maximum)			staff
Ka1	3,970	- 100	- 4,370	Professor, Research officer, Librarian
Ka2	3,060	- 70	- 3,830	Reader, Deputy research officer, Deputy librarian
Ka3	2,445	- 50	- 2,645	Lecturer matron
Ka4	1,965	- 40	- 2,645	Asst. lecturer, Asst. research officer
Ka5	1,495	- 20	- 1,815	Senior nurse
Ka6	1,270	- 16	- 1,590	Overseer, Health asst., Lab. asst.
Ka7	1,045	- 13	- 1,305	A.H.W., A.N.M., Driver, Auto mechanics
Kha1	3,970	- 100	- 4,370	Chief fiscal officer, Chief controller, Administrator
Kha2	3,025	- 70	- 3,725	Finance controller, Asst. registrar, General manager, Legal advisor
Kha3	2,300	- 50	- 2,950	Finance controller, Asst. registrar, General manager, Legal advisor
Kha4	1,750	- 40	- 2,350	Deputy instructor, Property management officer, Typist
Kha5	1,385	- 20	- 1,705	Officer
Kha6	1,145	- 16	- 1,385	Accountant, Head assistant, Store keeper, Typist, Head cook, Senior electrician
Kha7	940	- 13	- 1,148	Asst. store keeper, Telephone operator
Kha8	875	- 11	- 1,015	Lab. boy, Technician, Electrician, Memographic incharge
Kha9	640	- 6	- 766	Peon, Guard, Memographic, Helper

Ka Specialist Kha Administrative staff

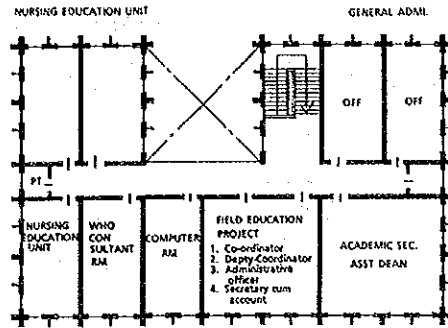
Table-16 Cardiothoracic Operation Nos. in Bir Hospital

Item	2045/2046
Closed mitral valvotomy	27
PDA legation & division	3
Pericardectomy	5
Mitral valve replacement	1
Endarterectomy	1
Arteriovenous fistula	2
Permanent pacemaker implantations	3
Exploratory thoracotomy	3
Excision of tumor (chest wall)	3
Pericardiocentesis	1
Pneumonectomy	1
Enucleation of hydatid cyst	1
Decortication	5
Rib resection & drainage (Intercostal)	4
Total	60

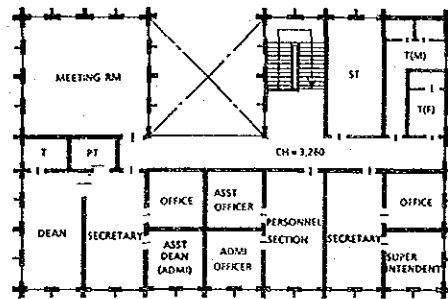
2-2 Existing Facilities at Central Campus of IOM

Building area schedule and drawings for existing facilities are shown below:

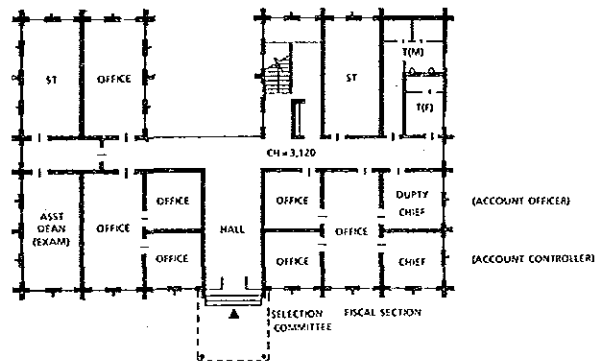
			Area
1.	Dean office	3 stories	946 m ²
2.	Mohego building	3 stories	1,345 m ²
3.	Old academic building	3 stories	2,949 m ²
4.	Health learning material building	2 stories	596 m ²
5.	Student indoor building	1 stories	90 m ²
6.	Animal house	1 stories	38 m ²
		Sub total	5,964 m ²
7.	Student hostel	3 stories	3,179 m ²
8.	TUTH	4 stories	15,949 m ²
9.	Nursing campus	4 stories	6,334 m ²



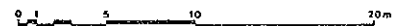
2nd FLOOR PLAN



1st FLOOR PLAN

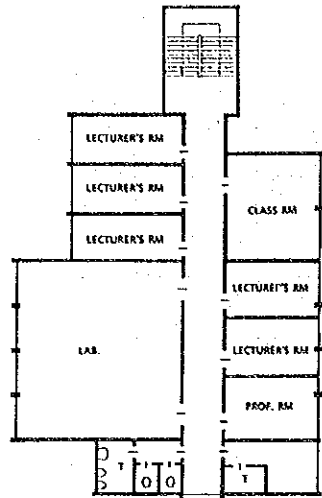


GROUND FLOOR PLAN

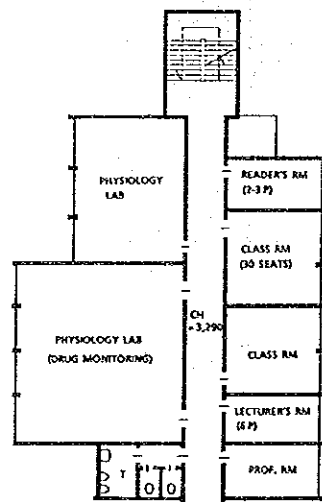


DEAN'S OFFICE BUILDING

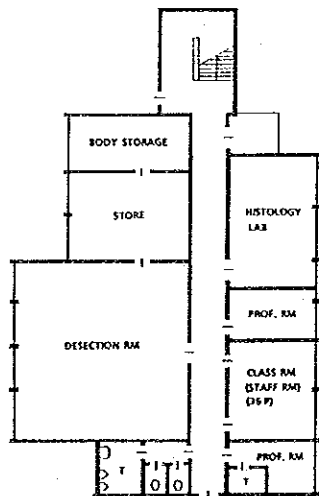
TRIBHUVAN UNIVERSITY
 INSTITUTE OF MEDICINE AND THE TEACHING HOSPITAL
 EXISTING FACILITIES



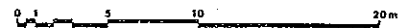
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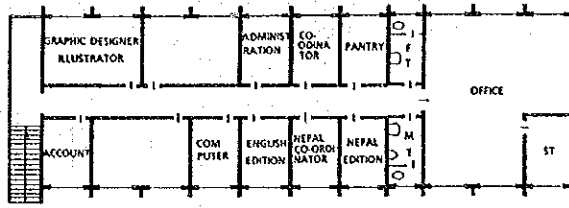
1st FLOOR PLAN



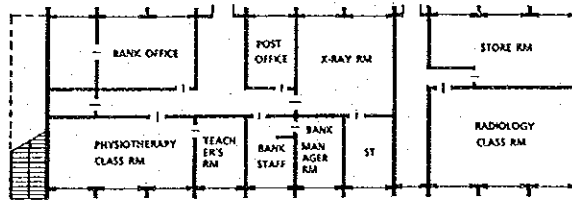
GROUND FLOOR PLAN



MOHEGO BUILDING



FIRST FLOOR PLAN

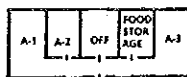


GROUND FLOOR PLAN

MEDICAL LEARNING MATERIAL PRODUCTION BUILDING



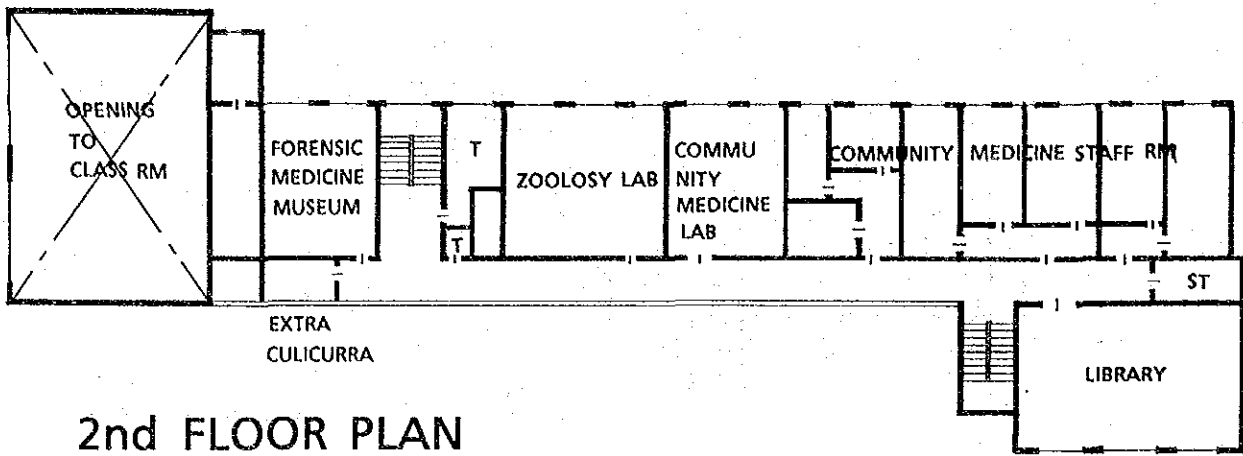
STUDENT INDOOR BUILDING



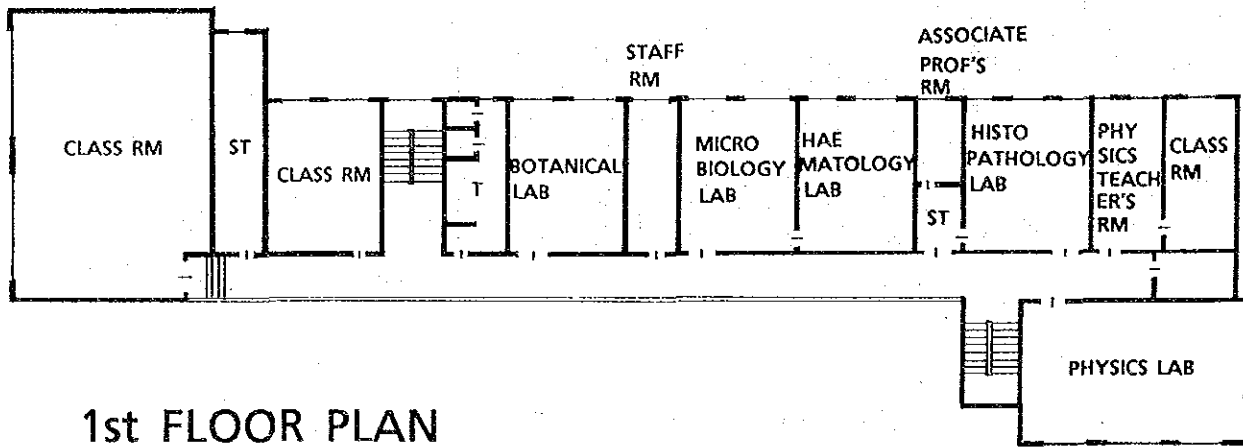
ANIMAL HOUSE



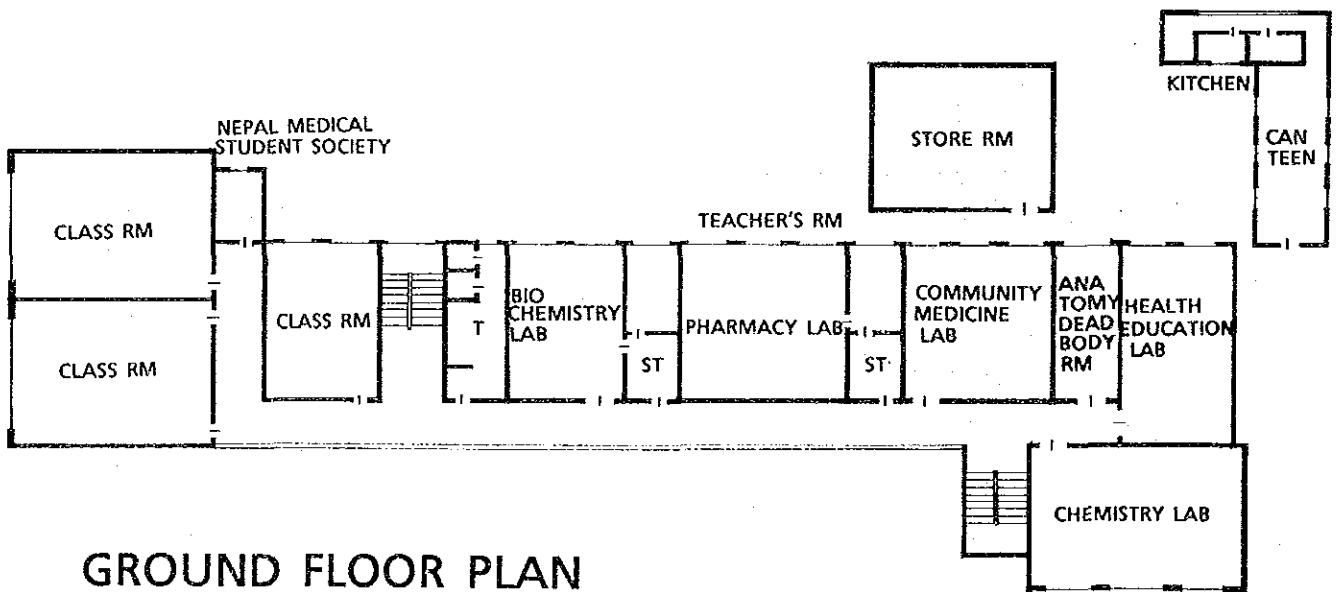
MEDICAL LEARNING MATERIAL PRODUCTION BUILDING /
STUDENT INDOOR BUILDING / ANIMAL HOUSE



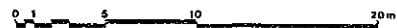
2nd FLOOR PLAN



1st FLOOR PLAN



GROUND FLOOR PLAN

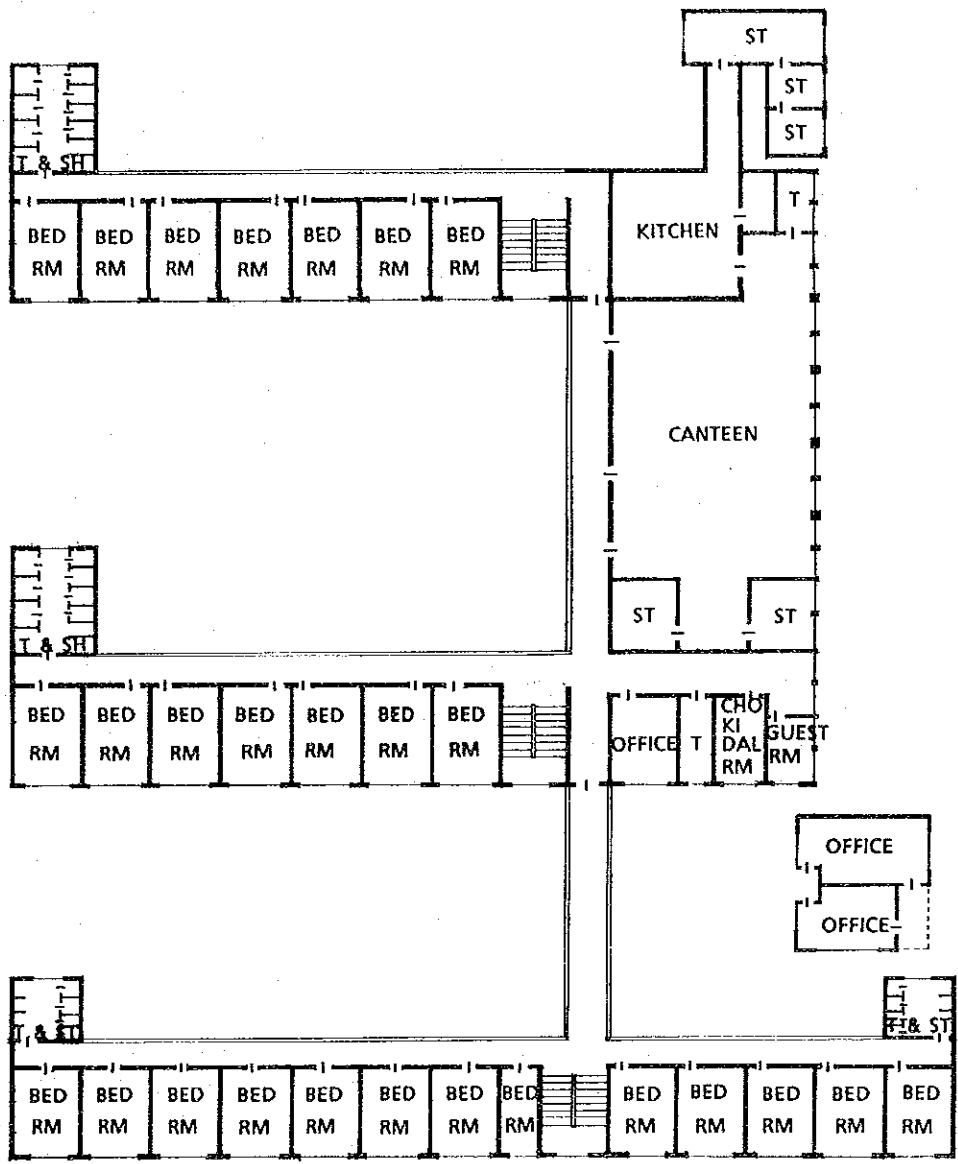


OLD ACADEMIC BUILDING

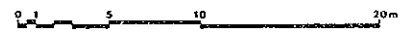
TRIBHUVAN UNIVERSITY

INSTITUTE OF MEDICINE AND THE TEACHING HOSPITAL

EXISTING FACILITIES

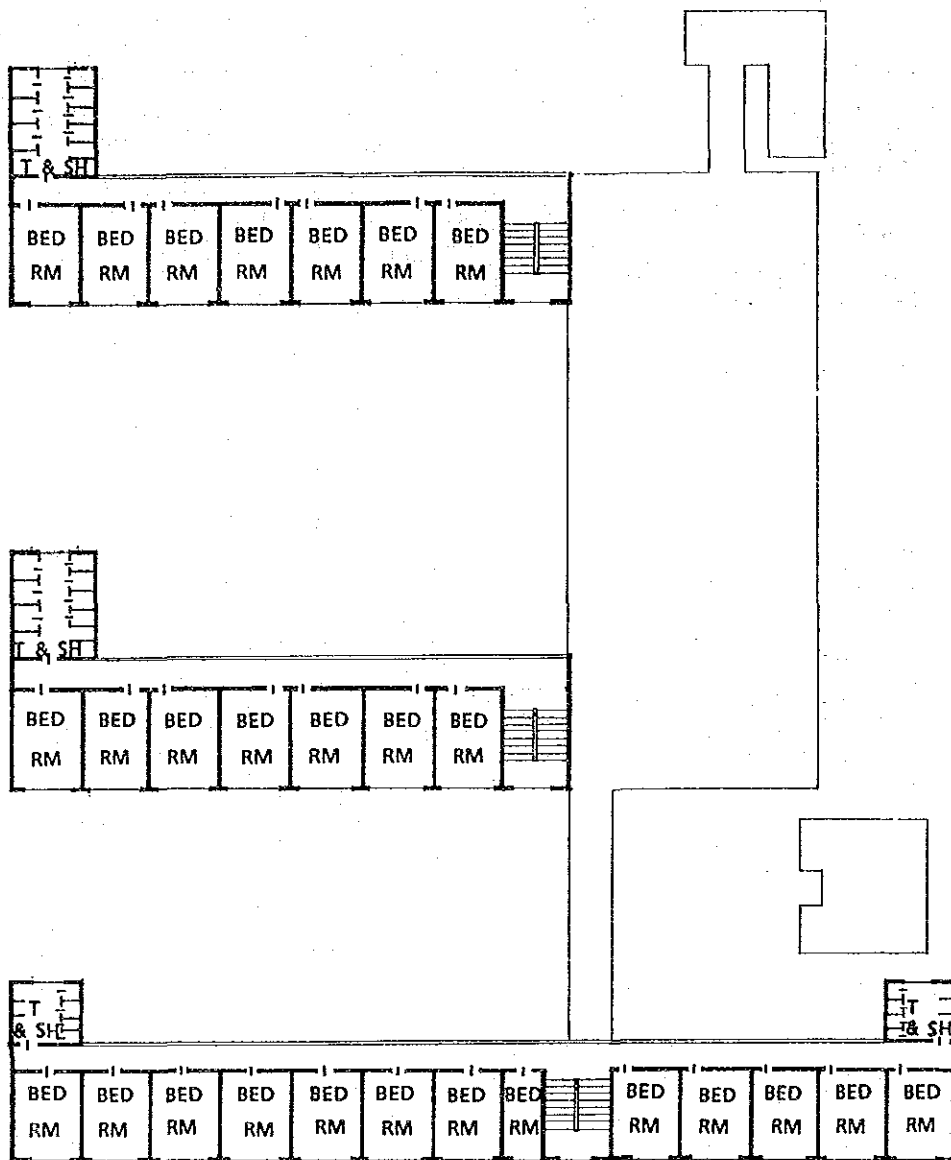


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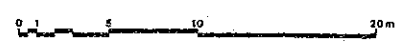


STUDENT HOSTEL

TRIBHUVAN UNIVERSITY
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 EXISTING FACILITIES

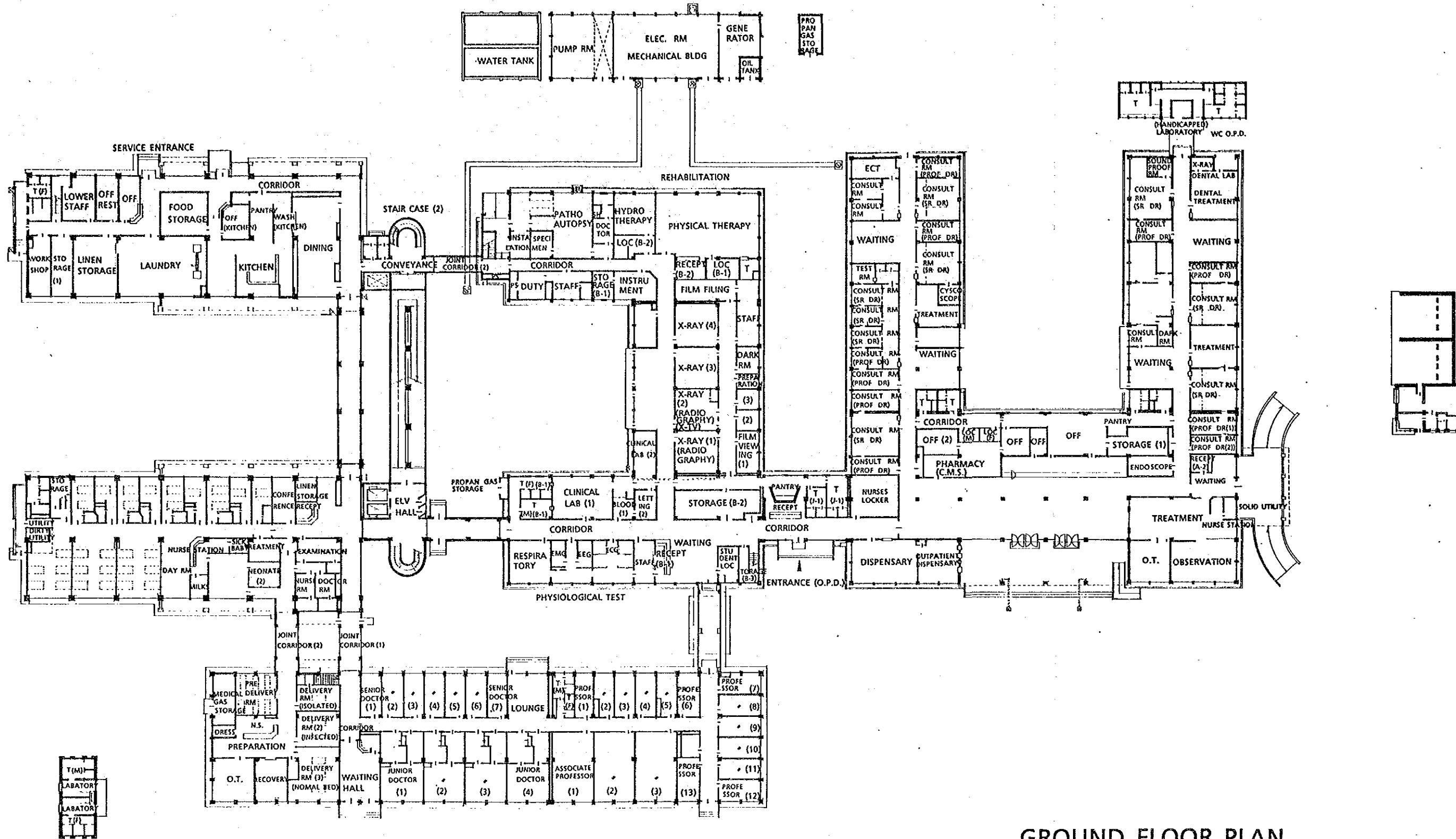


1st , 2nd FLOOR PLAN



STUDENT HOSTEL

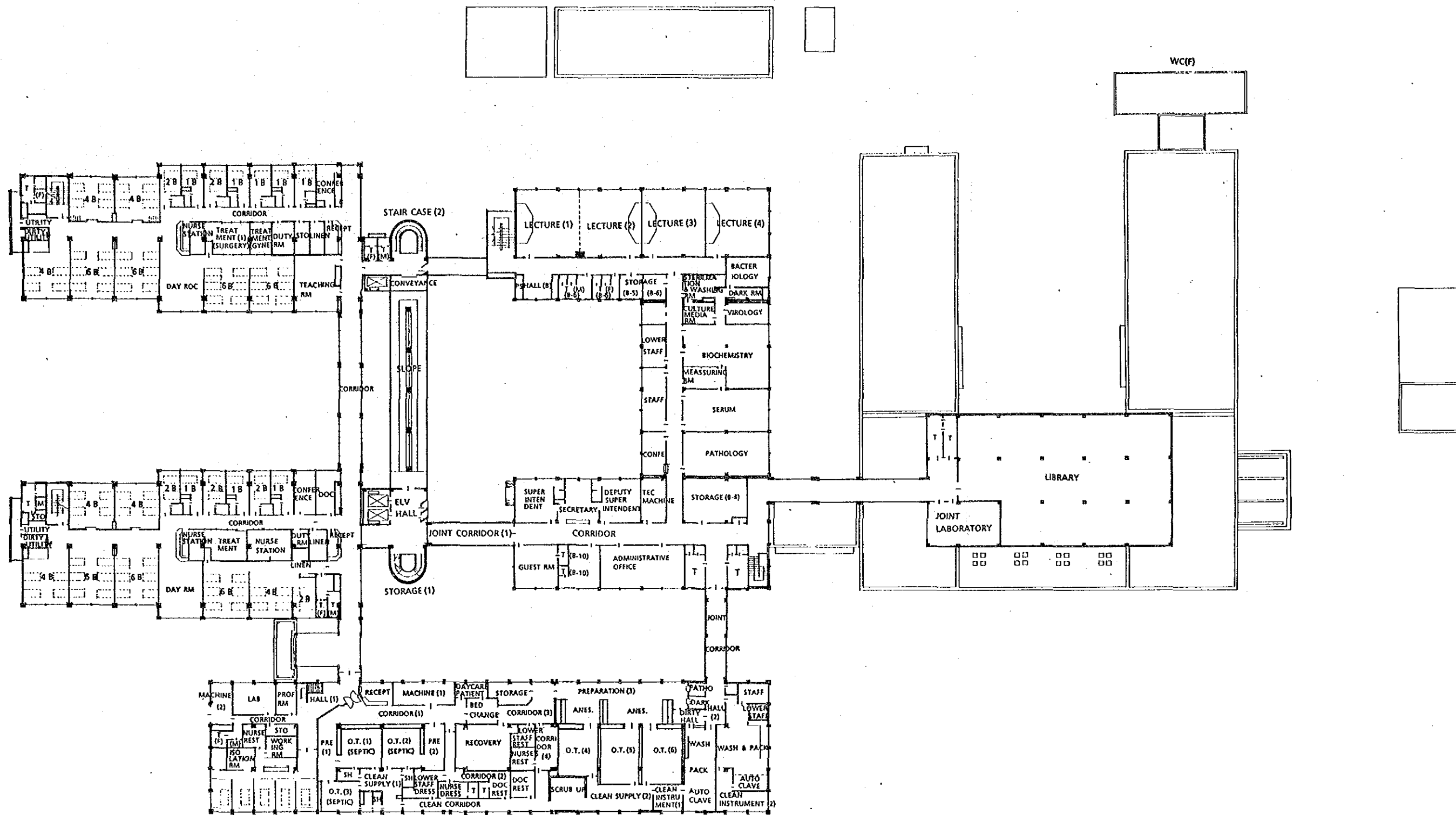
TRIBHUVAN UNIVERSITY
 INSTITUTE OF MEDICINE AND THE TEACHING HOSPITAL
 EXISTING FACILITIES



GROUND FLOOR PLAN



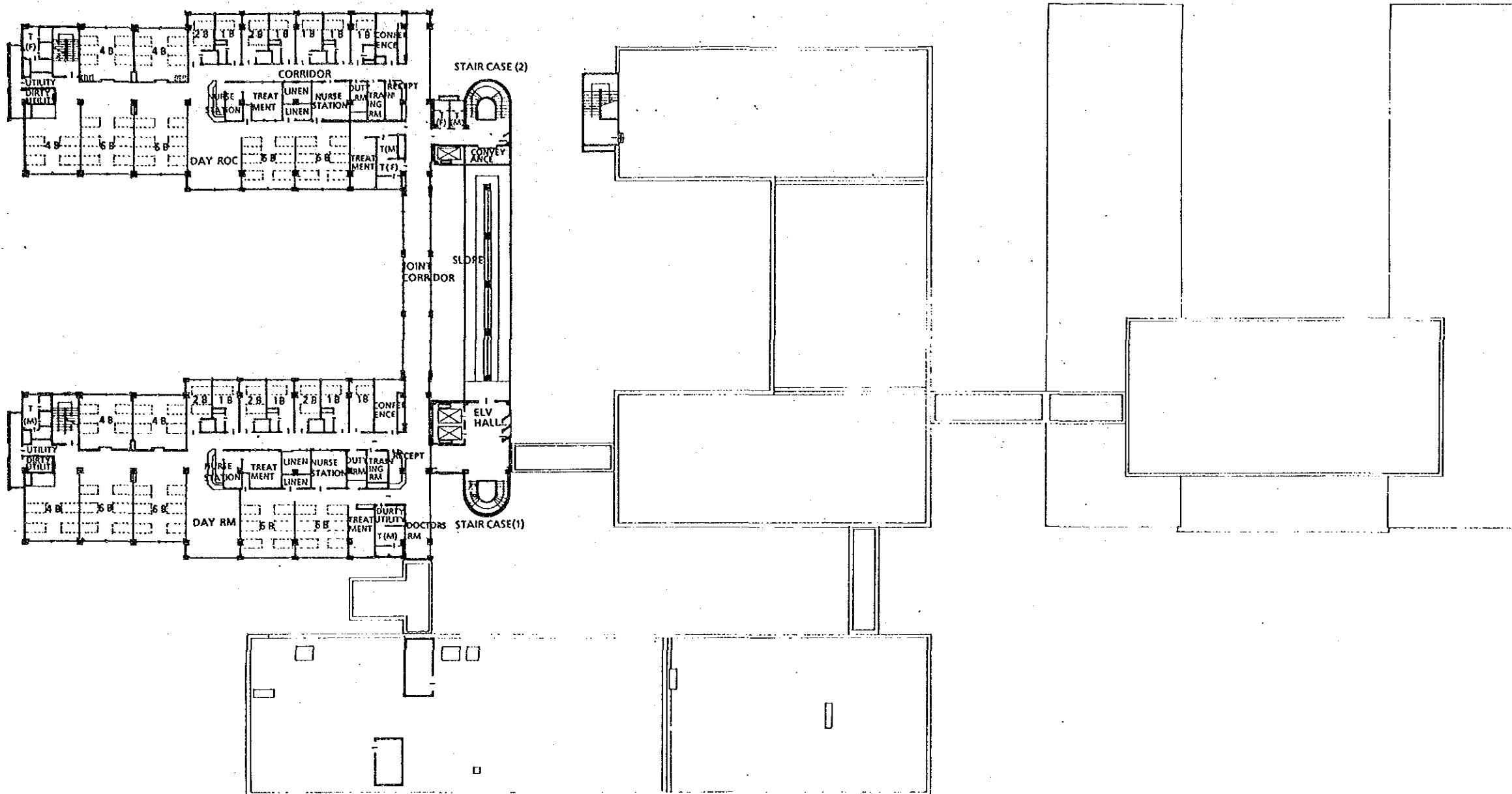
TEACHING HOSPITAL



1st FLOOR PLAN



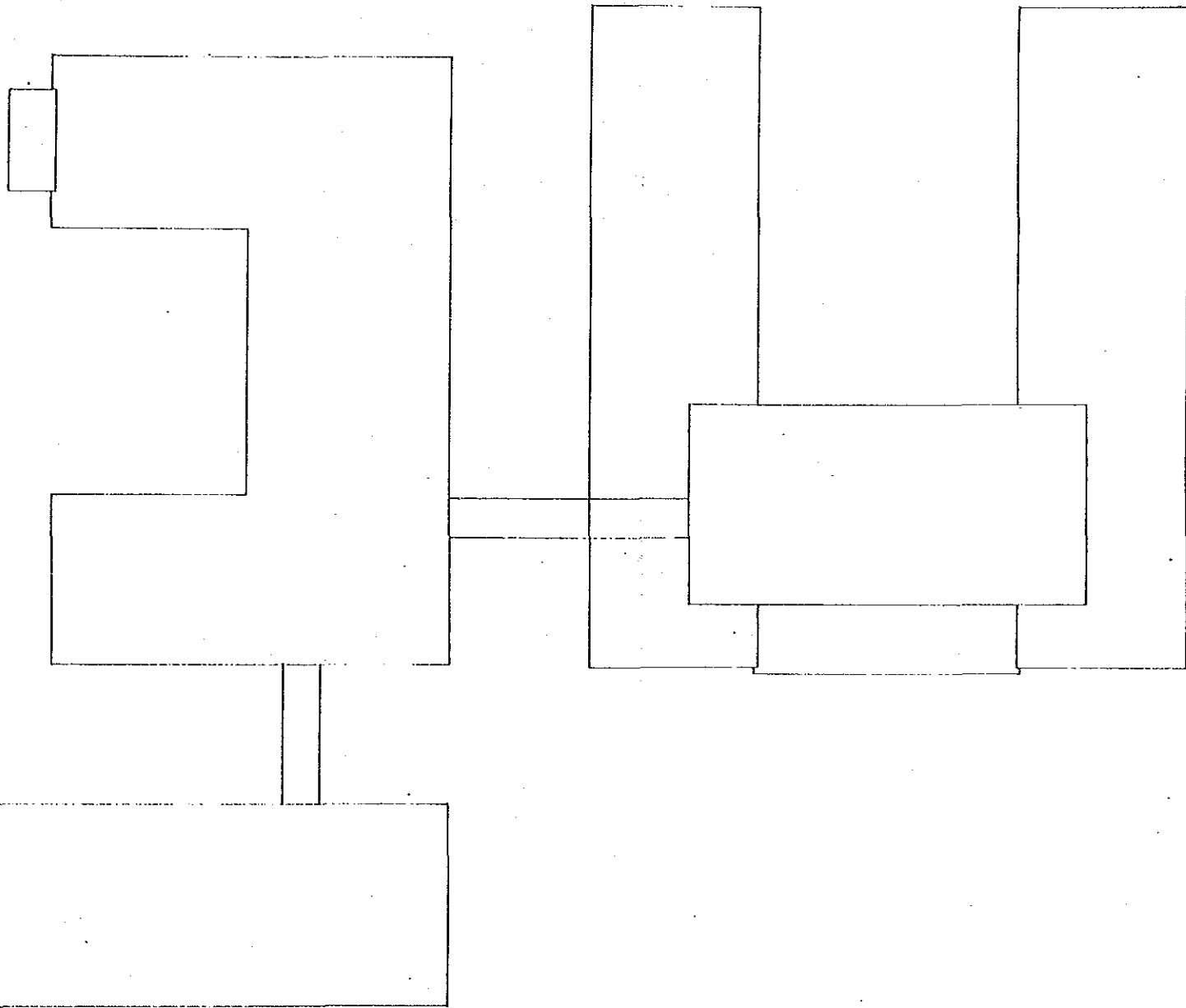
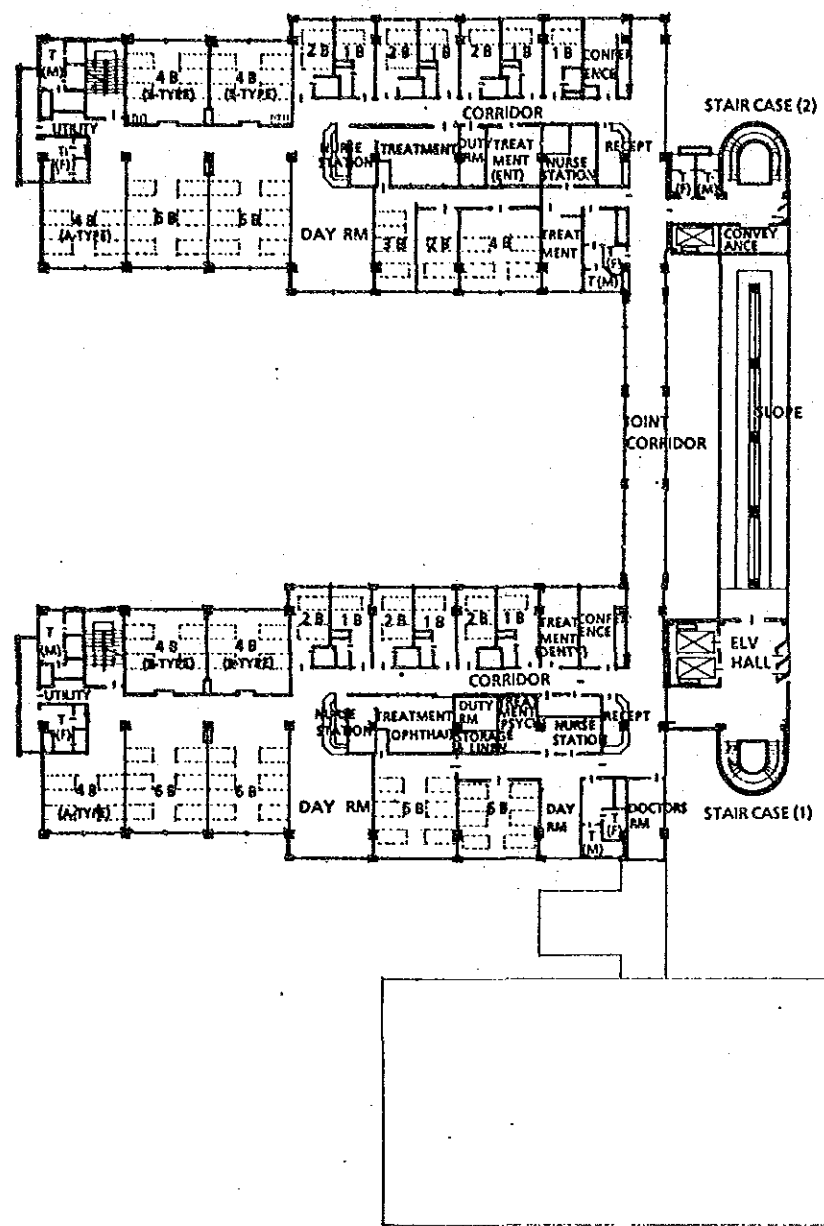
TEACHING HOSPITAL



2nd FLOOR PLAN



TEACHING HOSPITAL



3rd FLOOR PLAN



TEACHING HOSPITAL

JICA

