CHAPTER 10: APPENDICES

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	6) Administrative Zonal Map of Nepal

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MEMBER LIST Deputy-Director, Team Leader Yoshio HIROTA 2 -Planning Div., Water Supply & Environmental Sanitation Dep., Environmental Health Bureau, Ministry of Health & Welfare Official, Grant Aid : Hiroyuki NOGUCHI Grant Aid Div., Economic Cooperation Bureau, Ministry of Foreign Affairs : Hironao SUZUKI Deputy-Director, Coordinator Planning Div., Grant Aid Dep., JICA Kyoichi IZAWA Daiichi Health Care Acting Leader 2 Medical Planning Facility Consultants Inc. waiichi Health Care Medical Equipment Junko TSUDA : Facility Consultants Inc. Medical Mechanical Minoru YAMADA Daiichi Health Care : Facility Engineer Consultants Inc.

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ITINERARY

Sept.12	(Wed.)	Arrive in Kathmandu
Sept.13	(Thu.)	Courtesy visit to the Embassy of Japan, the Ministry of Health, the Department of Health Service, and the Ministry of Finance
Sept.14	(Fri.)	First visit to Kanti Children's Hospital to survey present facilities, explain the details and schedule of Grant Aid Program including inception report, request for provision of the data necessary for the studies, and exchangwe of views and consultation on the medical equipment plan. Courtesy visit to the Ministry of Health meeting with Secretary.
Sept.15	(Sat.)	Visit Pokhara
Sept.16	(Sun.)	Visit to Western Regional Health Lab. in Pokhara to study on the facilities and its current test data numbers
Sept.17	(Mon.)	Visit to Kanti Children's Hospital to exchange of views and consultation on the equipment plan, survey on the place of equipment location, and confirm location of installation
Sept.18	(Tue.)	Observation on the following medical institutions: Tribhuvan University Teaching Hospital, Bir Hospital, Infection Disease Unit and Central Health Laboratory. Courtesy visit to the Ministry of Health meeting with the Minister.
Sept.19	(Wed.)	Visit to Kanti Children's Hospital to exchange of views and consultation on the equipment plan etc. Discussion on the Minutes of Discussions (draft) within the Team. Visit to the Embassy of Japan for interim report.

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Sept.20 (Thu.)

Visit to the Embassy of Japan to discuss the Minutes of Discussions (draft). Visit to the Ministry of Health to compile the Minutes of Discussions. Visit to JICA Kathmandu Office to make the Minutes of Discussions.

Sept.21 (Fri.)

Visit to the Ministry of Health to sign and exchange of the Minutes of Discussions. Report to the Embassy of Japan and JICA

Sept.22 (Sat.)

leave Kathmandu

MINUTES OF DISCUSSIONS

In response to the request made by His Majesty's Government of Nepal for the Improvement Project of Medical Equipment for Kanti Children's Hospital in Kathmandu (hereinafter referred to as "the Project"), the Government of Japan has sent, through the Japan International Cooperation Agency (JICA), a survey team headed by Dr. Yoshio Hirota, Deputy-Director, Environmental Health Bureau, Ministry of Health & Welfare (hereinafter referred to as "the Team") to conduct the basic design study on the Project for 11 days from September 12 to September 22, 1984.

The Team has carried out a field survey, had a series of discussions and exchanged views with the authorities concerned of His Majesty's Government of Nepal on the Project.

As a result of the survey and discussions, the Team and the authorities concerned of His Majesty's Government of Nepal have agreed to recommend to their respective Governments that the results of the discussions attached herewith should be examined toward the realization of the Project.

Dr. Yoshio Hirota Team Leader Japanese Survey Team

Kathmandu, September 21, 1984.

Dr. H.D. Pradhan Senior Public Health Administrator Ministry of Health

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ATTACHMENT

- 1. The objective of the Project is to provide essential medical equipment so as to meet the strengthening of Kanti Children's Hospital as the teaching and national referral hospital in the pediatric field.
- 2. Kanti Children's Hospital for which the Ministry of Health is totally responsible will be the implementing body of the Project in the Nepalese side.
- 3. The Team will convey the desire of His Majesty's Government of Nepal to the Government of Japan that the Government of Japan will take necessary measures to cooperate in implementing the Project within the scope of Japanese Economic Cooperation Program in the grant form. Medical equipment requested by His Majesty's Government of Nepal is as listed in Annex I.
- Medical equipment to be provided will be finalized by the Team based on the request of the Nepalese side and the result of the study.
- 5. The Nepalese authorities concerned have confirmed His Majesty's Government of Nepal will take necessary measures as listed in Annex II on condition that the grant aid by the Government of Japan is extended to the Project.
- 6. The Team will convey the need of His Majesty's Government of Nepal to the Government of Japan that the technical cooperation will be required in view of attaining effective fulfillment of the Project.

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Annex I

1. Medical equipment requested by His Majesty's Government of Nepal whose cost will be borne by the Government of Japan is for:-

(1) Special Care Baby Unit

- (2) Milk Kitchen
- (3) I.C.U.
- (4) Urgent Clinical Test Room
 - (5) Radiographic Dept.
 - (3) Muulographine -----
- (6) Surgical Dept.
 - (7) Operation Theater
 - (8) Sterilization Room

 - (9) Clinical Pathology Dept.
- (10) Casualty Dept.
- (11) Ward, and
- (12) Others
- Each item for the above categories is detailed on the following and the quantities and necessity of the items with a circular mark will be determined on the result of the further study.

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MEDICAL EQUIPMENT LIST FOR KANTI CHILDREN'S HOSPITAL

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No. Item Specifications Other 1. Infant Incubator manual control type, premature baby use (2 set.) 6 2. Infant Karmer manual control type, premature baby use (2 set.) 6 3. Infant Karmer manual control type, premature baby use (2 set.) 6 4. Bassinet Stand with basinet stand 4 5. Infant Karmer steel made with mattress 12 6. Phototherapy unit steel made with mattress 12 7. Oxyen Inhaler Head Box with 0 ² monitor 4 8. Infant Ventilator with 0 ² monitor 4 9. Compresson Unit box heart rate, respiration rate 4 10. Patrable Box with nitusion rate 4 11. Portable Boxin Unit Box heart rate, respiration rate 4 12. Ultrasonic Nebulizer Set Box heart rate, respiration rate 4 13. Sphygnomanometer Box heart rate, respiration rate 4 14. Infusion Pump Sylygnomanometer		DEPL. SPECIAL CARE BABY UNIT				Page/ 1
Infant Incubator manual control type, premature baby use (2 set.) Infant Narmer Stand infant Narmer Stand With basinet stand infant bressing Table basinet Stand with basinet stand is teel made with mattress infant Dressing Table Phototherapy unit Oxygen Inhaler Head Box Infant Vertilator App Infant Vertilator App. BCG heart rate, respiration rate Pottable Suction Unit Ultrasonic Nebulizer Set Sphygonomanometer Sphygonomanomanometer Sphygonomanometer Sphygonomanometer Sphygonomanometer Sphygonomanometer Sphygonomanometer Sphyfonomanomane Sphygonomanomanometer Sphyfonomanomane Sphygonomanomane Sphyfon	No		Specifications		0'ty	Remarks
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Instrument Table size;60x45x75cm, stainless steel made Dressing Cart size;90x60x75cm, stainless steel made	15.		with infusion set(50sets)		9	
Dressing Cart size;90x60x75cm, stainless steel made	16		size;60x45x75cm, stainless steel made		4	
	17.		size;90x60x75cm, stainless steel made		3	

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Remarks

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Dept. MILK KITCHEN

Itel

Refrigerator

No.

Water Boiler

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cap;400 lit. or more with freezer

electric type

3. Nursing Bottle Sterilizer

4. Bottle Washing Machine

5. Balance

rotating dial type, cap; 4kgs

6. Kitchen Utensils

· · ·

7. Sink Unit

8. Working Table

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9. Cupboard

10. Utility Cart

stainless steel made

stainless steel made

stainless steel made

stainless steel made

	Dept. INTENSIVE CARE UNIT			Page/ 4
No.		Specifications	0'ty	Remarks
• · ·	Patient Heart Monitoring App.	RR, BP	Q	0
6	ICU Bed	" /ECG. HR, (4 set.)	V	c
÷.	Artificial Ventilator		ი ო	, 0
4.	Artificial Compressor		Ч	•••
ហំ	Ultrasonic Nebulizer		10 -	0 0
6.	Oxygen Head Box		m	
7.	Radiant Warmer Stand	post operative type	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0
8.	Oxygen Air Blender App.		m	0
e.	Auto-infusion Pump	with infusion set	ۍ ۱	0
10.	10. Oxygen Inharation App.	with mask set	• 0	•
11.	Suction Unit	with spare bottles	m	0
12.	12. Stand Light	with spare bulbs	2	• •
	Portable X-ray Unit		ਜ	
· ·			. •	

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	Dept. URGENT CLINICAL TEST ROOM		. :	Page/ 5
2	Iten	Specifications	0'ty	Renarks
ŀ	1. Blood Gas Analyzer	with standard gas	r-1	
2	2. Transcutaneous Oxygen Monitor	with spare electrode	P ^{iel}	
ຕໍ່.	Flame Photometer	with pure propane gas cylinder	r-1	·
Ŷ	. Centrifuge	with centrifuge tube	eel (
ب م	Hematcrit Centrifuge	with capillary tube	r-1	
<u>ن</u>	6. Refrigerator	cap;200 lit. or more with freezer	F=1	
•			· · ·	
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Diagnostic Radiograph App. Pediatric Radiograpy Acc. Ultrasonic Diagnostic App. Endoscope Set for Pediatric Use	ga La	Q°ty Remarks 1 1 1 1 1 1 2set 0
Portable Suction Unit Dark Room Acc. Set	 b) bronchofiberscope set2 W/Light Source c) rectoscope set1 d) lecturescope set1 e) cold light supplies2 f) cystoscope set1 	ы р
X-ray Consumables Ultrasonic App.	ultrasound output; 0-5W/ccm2	ત્ન ત્ન
Microwave diathermy App.		

Page/ 8 Renarks

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-	Dept. OPERATION THEATER		
S.	Item	Specifications	
-	Universal Operating Table	oil hydraulic elevating system, manual control position setting type	N
2	Major Operating Table	for septic operation room	Ч
Ч	Operating Light	combination, ceiling mounted type, diam.;100+56cm	
4	Auxiliary Operating Light	5 bulbs, floor stand type	-1
ۍ م	Suction Unit	with spare bottles	4
6 .	Electro Surgical Unit	solid state type, 500W or over with air circuit system	Ň
7.	Anesthesia Machine	pediatric use with ventilator and air circuit syustem	7
α.	Compressor	for ventilator use	r-1
ດ	Defibrillator		r-1
10.	X-ray Film Viewer	wall hanging type, 3 sheet use	Υ
	Instrument Cabinet	width;120cm, stainless steel made	9
12	Instrument Tray Stand	2-tray type x 2/3-tray type x 2, stainless steel made	4
ŗ.	Mayo Stand	stainless steel made	Ϋ́.
Ţ¢	Instrument Table	stainless steel made	4
· .			

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Dept. OPERATION THEATER			Page/ 9
No. Item	Specifications	0°ty	Remarks
15. Patient Stretcher	for operation room use	47	
17. Operating Instrument Set	infant & pediatric use	2set	
18. Operating Room Materials		lset	•••
19. Body Temperature Control Mattress		1set	
20. Tube Dryer		iset	
21. Anesthesia Equipment set.		1set	
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.*	Dept. CLINICAL PATHOLOGY DEPARTMENT		· · ·	Page/11
2	Item	Specifications (Q'ty	Remarks
г і	1. Centrifuge	desk-top type, 10m lit.x16, rpm;0-4,000	7	
5.	Hematocrit Centrifuge	capillary tubex30, rpm;12,000	r 1	
ι m	Water Bath	temp range;0-110 deg.c, temp control accuracy;+/-0.5 deg.c	7	
ব	Water Bath Incubator	<pre>temp range;0-110 deg.c, temp control accuracy;+/-0.5 deg.c shaking; 100/min, dimensions;25x33x10cm(approx)</pre>	rint	
ۍ ۲	UV-VIS Spectrophotometer	wave length range;200-900nm, band width;7nm optics; concave grating photometric range;%T 0-100/ABS 0-1,0-2	ط	
9.	Electronic Balance	weighing cap;200g, minimum digital indication;0.001g top-pan size;dia. 105mm	~1	
7.	Analytical Balance	weighing cap;200g, readability;0.1mg one scale division;10mg, minimum reading range;micrometer	r-1	
ຜູ້	PH Meter		Н	
б	Microscope	binocular, 1500X	2	· · · ·
10.	Microscope	trinocular with microphotographic app.		
11.	Microscope Projector Acc.	without microscope	r-i	
12	Stereo Microscope		Ч	
13.	Fluorescent Microscope	magnification;100-1500X, illuminator;Koehler system	1	
14.	Incubator	inner dimensions;60x50x50cm(approx)	r-1	
15.	Hot Air Oven	inner dimensions;60x50x50cm(approx)	r-1	
	· ·			· · ·

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Dept. CLINICAL PATHOLOGY DEPARIMENT

Remarks Page/12 Q'ty electric, vertical type, dimensions; 30x60cm(approx) rotational speed;0-1,200rpm, cap;30-1,000m lit. for serumprotein, urine specific gravity Specifications cap;400 lit. or more with freezer cyannethemoglobin method for blood diluting with capilary tube polyethylene made "THOMA" type for 2 bodies assorted set cap; 200g 12-key Item 21. Clinical Refractometer Blood Cell Calculator 31. Mortuary Refrigerator 29. Double-pan Balance 18. Hemacytometer Set Micropipette Set Hemoglobinometer Magnetic Stirrer Bilirubinometer 30. Pipette Washer **Pipette Shaker** Autodispenser Refrigerator Water Still Tube Mixer Autoclave 17. .• 19 20. 26 16. 22. 24. 25. 27. 33. 28. 2 - 127

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		automatic portable t	ng all C. V-V						
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	Dept. CASUALITY DEPARTMENT	Item		, Х	Diagnostic Instrument Set				·			•			Emergency Tracheotomy Set	Operating Instrument Set			• • •	·		
	ASUALT		able	Emergency Stretcher	Instrum	Couch	Table	ometer		•	் ப	r Set	Oxygen Inhaler Set	ม	racheot	nstrum	بر		• .	•		
	ept. C		Treatment Table	ency S	ostic	Examination Couch	Instrument Table	Sphygomomanometer	Stand Light	lave	Suction Unit	Resuscitator Set	n Inha	Refrigerator	ency T	ting I	Utility Cart					
	Á		1	Emerg	Diagn	Exami	Instri	Sphyg	Stand	Autoclave	Suctio		oxyge	Refri	Emerg		Utili					
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Page/15 Remarks			
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	er Brander Bra		
SU	ith tachomet		
Specificati	ination itx4 tubes w	method type, 0.P.D. Ward	
	for hand washing dia.;18cmx3/27cmx3 assorted set for urin, serum examination desk-top type, 15m litx4 tubes with tachometer	binocular, 1500X "THOWA" type cyanmethemoglobin method with mattress desk-top, 1 sheet type,	
	ୟ ପ ଏ ଏ	ς Ω ° ≓ ' Ο' ' 3 ' ' ັ γ	
Dept. CASUALITY DEPARTMENT Item	Water Sterilizer Dressing Drum Set Dressing Materials Dry chemistry Test Set Centrifuge	Microscope Hemacytometer Set Hemoglobinometer Observation Bed X-ray Film Viewer	
4 2	 16. Water Ster. 17. Dressing Di 18. Dressing Me 19. Dry chemist 20. Centrifuge 	21. ²¹ 23. 22. 23. 23. 23. 23. 23. 23. 23. 23.	
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Page/16	Q'ty Renarks	2	খ	e.	Q	Q	9	9		9	Ċ	Q	9	10	60	30			30	30	
Pa	Specifications	infant use	child use	stainless steel	cap; 200 lit. or more	stainless steel made with hanger	boiling type	portable type	hand driven type	for child use	up to 50kg/day(approx), storage cap; 15kg (approx)	stainless steel made, cap; 24 persons	steel made, loading cap; 200kg	with cylinder	with mattress	with mattress	assorted set	assorted set	steel made	box/100set	
Dept. WARD	<u>No.</u> Item	1. Patient Stretcher	2. Patient Stretcher	3. Dressing Cart	4. Refrigerator	5. Working Table	6. Sterilizer	7. Suction Unit	E 8. Resuscitator	9. Wheel Chair	10. Ice Cube Machine	11. Food Conveyer	12. Utility Cart	13. Oxygen Inhaler Set	14. Patient Bed	15. Patient Bed (crib)	16. Treatment Cradle	17. Traction Frame Set	18. Irrigation Stand	19. Infusion Set	

ана (1997) Сала — Алариана (1997) Сала — Алариана (1997)		
keiner		
Page/17		
Specifications		
	with weight assorted set	
No.	Traction Set Thomas Splint Chart Holder Cart	
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Page/18 Remarks								set O	set O	set		
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	i na st									· · · · · · · · · · · · · · · · · · ·		
Specifications	isting of:	slide projector set 2 over head projector 2 video tape recorder set with monitor TV set 1	20kg	<pre>cap;20kg with cylinder(40 lit.) and out-let devices</pre>	for operation room/I.C.U./special care unit	/ diesel engine		tet bell type (10 sets)				
	consis	00>3	cap; 20	with o	for	50KV d		pocket				
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AL Item	ipment			ne ply System	Set	rator Set		System		an an San taon		
Dept. GENERAL	Audiovisual Equipment		Washing Machine	Extractor Macnine Medical Gas Supply System	Air Conditioner Set	Emergency Generator Set	Oxygen Plant	Emergency Call	Water Pump	Incinerater		
Q	1.		· ·		2. 2.	°	~	° °	\$	10.		
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Following measures are to be undertaken by His Majesty's Government of Nepal.

- 1. To provide space and facilities necessary for the medical equipment to be installed.
- 2. To provide facilities for distribution of electricity, water supply, drainage and other incidental facilities.
- 3. To provide stock sheds for the medical equipment to be supplied in case that the medical equipment is required to be stored for some time for installation.
- 4. To ensure prompt unloading, customs clearance in Nepal and tax exemption of the imported medical equipment and materials for the Project and to facilitate the internal transportation for them.
- 5. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in Nepal with respect to the supply of the products and services under the verified contracts.
- 6. To provide and accord necessary permission, licences and other authorization required for the Project.
- 7. To bear all the expenses other than those to be borne by the grant necessary for the supply of the medical equipment.
- 8. To maintain and use properly and effectively the medical equipment for the Project.

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Government Officials Concerned

Ministry of Health

Mr. D.N. Yaday, Minister Mrs. C.K. Kiran, Secretary Dr. H.D. Pradhan, Senior Pubic Health Administrator

Department of Health Service

Dr. D.N. Regmi, Director General

Ministry of Finance

Mr. H.S. Shrestha, Additional Secretary

Kanti Children's Hospital

Dr. M.R. Baral, Medical Superintendent Dr. N.B. Thapa, Assistant Superintendent Dr. K.B. Rajbhandasi, Pediatric Surgeon Dr. H.M. Dixit, IOM Dr. Y.B. Shrestha, Senior Pediatrician Dr. R.P.B. Shrestha, Pediatrician Dr. K.D. Khand, Pediatrician Dr. A.D. Shrestha, Pediatrician

Western Regional Health Laboratory

Dr. Umemura

Mr. Ishihara, Clinical Lab. Technologist

Tribhuvan University Teaching Hospital

Dr. Prasai, Director

Bir Hospital

Dr. Kahtri, Superintendent

Infection Disease Unit & Central Health Laboratory

Dr. F.B. Malla, Superintendent

Japanese Officials in Nepal

Embassy of Japan in Nepal

e de la composition a composition de la c Nr. Kazuo Kaneko, Ambassador Extraordinary and Plenipotentiary Mr. Takashi Arinobu, Counselor Mr. Hideo Morikawa, Second Secretary

· · · ·

JICA in Nepal Mr. Tatsuo Hoshi, Resident Representative

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TABLE 2.1

1

Gross Domestic Product (Rs. in Million at Current Price)

Sector	1977/78	1978/79	1979/80	1980/81	1981/82**	1983/84
I. Agriculture, Forestry						iya tên înî F
& Fisheries	11616	13365	13520		16792	n an sina. Na sina
2. Mining	25	34	42	58	68	
3. Manufacturing	$M_{1}^{2} = M_{1}^{2}$	- 4	a prite			
Industry	794.	848	936	1049	1189	1 - C
a. Modern	(531)	(559)	(618)	(712)	(820)	
b. Cottage	(263)	(289)	(318)	(337)	(369)	
I. Electricity, Gas & Wat	er 42	48	60	67	90	
5. Construction	1338	1559	1570	1974	2537	
5. Trade, Restaurants, &	· ·		n da ka	ala Turin e		
Hotels	707	724	889	953	1070	
a. Trade	. (604)	(635)	(786)	(832)	(932)	
b. Restaurants &		·			1.	en e
Hotels	(103)	(89)	(103)	(121)	(138)	ang sa ta
. Transport, Storage &				-		
Communications	1093	1248	1541	1889	1992	
. Finance, Insurance &				•		i.e. N
Commercial Services	1534	1613	1833	2077	2351	
). Community, Social &	ta an				en de la composition Receiver agrico de la composition	
Individual Services	1277	1340	1495	1889	2174	
				and and an		
Gross Domestic Product			-	DEACC	28263	3131
(at Factor Cost)	18426	20779	21886	25466		
Net Indirect Tax	1306	1436	1465	1841	2002	230
a. Agriculture	(136)	(157)	(163)	(169)	(183)	
b. Non Agriculture	(1170)	(1279)	(1302)	(1672)	(1819)	
Gross Domestic Product		· · · ·				•
(at Current Price)	19732	22215	23351	27307	30265	3362
	((At 1974/75 I	Price)	·		
	19/07	19048	18606	20158	20926	2064
Gross Domestic Product	18607	19048	10933	12066	12492	1217
- Agriculture etc.	11141 7466	7568	7673	8092	8434	846

* Revised Estimate

source : Central Bureau of Statistics.

2

Gross Domestic Product: Uses of Resources (Rs. in Million at Current Price)

	(its, in	minon ac v	entient Luc	W	and the second second
Item	1978/79	1979/80	1980/81	1981/82*	1982/83*
GDP at Factor cost	20779	21886	25466	28263	31312
Plus indirect taxes Less subsidies	1436	1465	1841	2002	2309
G D P at market price	22215	23351	27307	30265	33621
Less exports of goods & N F S Plus Imports of goods	2618	2695	3523	3592	3297
& NFS	3547	4374	5357	5828	7126
Total Available Resources	23144	25030	29141	32501	37450
Investment	3514	4270	4808	5098	7117
Gross fixed capital Formation	3263	3681	4299	5249	7479
-Public -private	1138 2125	1466 2215	1823 2476	2487 2762	3544 3935
Changes in stocks	251	589	509	-151	362
Consumption	19630	20760	24333	27403	30333
-Public consumption	1889	1565	1922	2304	2551
-Private consumption	17741	19195	22411	25099	27782
Gross Domestic Savings	2585	2591	2974	2862	3288
Net Factor Income	390	494	587	615	754
Net Current Transfers	579	844	951	1228	1374
Gross National Savings	3554	3929	4512	4705	5416

*Estimate

Sources : Central Bureau of Statistics.

TABLE 2.3

Gross National Product & National Disposable Income (Rs. in Million at Current prices)

1978/79	1979/80	1980/81	1981/82*	1982/83*
20779	21886	25466	28263	31312
1436	1465	1841	2002	2309
22215	23351			33621
390				754
22605	23845			34375
1088	1091			1579
21517	22754	26611	29458	32796
22605				34375
1 579	844			1374
			- Ideo	
23184	24689	28845	32108	35749
	20779 1436 22215 390 22605 1088 21517 22605 579	20779 21886 1436 1465 22215 23351 390 494 22605 23845 1088 1091 21517 22754 22605 23845 1058 1091 21517 22754 22605 23845 1057 844	20779 21886 25466 1436 1465 1841 22215 23351 27307 390 494 587 22605 23845 27894 1088 1091 1283 21517 22754 26611 22605 23845 27894 1058 1091 1283 21517 22754 26611 22605 23845 27894 1 579 844 951	20779 21886 25466 28263 1436 1465 1841 2002 22215 23351 27307 30265 390 494 587 615 22605 23845 27894 30880 1088 1091 1283 1422 21517 22754 26611 29458 22605 23845 27894 30880 1058 1091 1283 1422 21517 22754 26611 29458 22605 23845 27894 30880 1 579 844 951 1228

Source : Central Bureau of Statistics.

	<u>n e basa</u>	<u>ad la construcción de la constr</u>	化十二乙酸 医白色		In I	Percentage
Age Group	Total Popul	ation	Male		Fen	nale
	1 1971	1981	1971	1981	1971	1981
0-4	14.10	15.41	13.60	15.47	14.70	15:34
5-9	15.10	14.58	15:20	14.52	14.90	14.65
10-14	11.20	11.36	12.10	11.95	10.40	10.75
15-19	9.10	8.84	9.40	9.04	8.70	8.63
2024	8.40	8.89	8.00	8.28	8,80	9.54
2529	8.10	7.73	7.80	7.41	8.30	8.07
30-34	7.00	6.49	6.60	6.09	7.40	6.92
35-39	6.40	5.95	6.60	6.00	6.20	5.89
40-44	5.30	5.01	5.20	4.90	5.40	5.13
45-49	4.00	4.12	4.20	4.28	3.80	3.95
5054	3.50	3.61	3.50	3.77	3.40	3.44
55-59	2.20	2.30	2.30	2.44	2.20	2.15
60-64	2.50	2.45	2.40	2.49	2.70	2.40
65-69	1.20	1.26	1.20	1.31	1.20	1.19
7074		1.04		1.08		1.01
75–79	1.80	0.44	1.80	0.46	1.90	0.43
80-84 85+		0.33 0.18		0.33 0.18	era Referencia Referencia	0.33 0.18
Total	100.00	100.00	100.00	100.00	100.00	100.00

 TABLE 2.6

 Population Distribution By Age Group

Source : Central Burean of Statistics

TABLE 2.7Population Distribution by Region *

· · · · · · · · · · · · · · · · · · ·		•••	In	Percentage
Development Region	Himali Region	Mountain Region	Terai Region	Total
1. Eastern Development Region	9.01 (0.93)	33.88 (1.27)	57.11 (4.31)	100.0 (2.85
2. Central Dev. Region	8.40	43.01	48.59	100.0
3. Western Dev. Region	(1.56) 0.59 (-5.95)	(1.96) 68.82 (1.73)	(3.04) 30.59 (4.89)	(2.43) 100.0 (2.51)
4. Mid-Western Dev. Region	12.23 (1.44)	53.35 (1.64)	34.42 (5.45)	100.0 (2.76)
5. Far-Western Development Region	21.85 (1.84)	45.81 (1.42)	32.34 (7.93)	100.0 (3.19)
Nepal	8.60	47.73	43.67	100.0
	(1.26)	(1.68)	(4.20)	(2.66)

Figures in Parenthesis show annual rate of growth.

*Provisional

Source : Central Bureau of Statistics; Population Census 1981.

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		Percentage Change		Pop. Density Per sq. Km.	
Region	1971	198Î		1971	1981
1. Eastern Dev. Region	27,97,500	37,03,848	32,40	98	130
A. Himali Region	3,04,352	3,33,841	9.69	29	32
B. Mountain Region	11,05,590	12,54,787	13.49	103	. 117
C. Terai Region	13,87,558	21,15,220	52.44	191	291
2. Central Dev. Region	38,65,753	49,15,999	27.17	141	179
A. Himali Region	3,53,923	4,13,063	16.71	56	66
B. Mountain Region	17,41,594	21,14,378	21.40	147	179
C. Terai Region	17,70,236	23,88,558	34.93	190	256
3. Western Dev. Region	24,46,430	31,35,554	28.17	83	107
A. Himali Region	34,380	18,609	-45.87	6	3
B. Mountain Region	18,16,940	21,57,748	18.76	99	118
C. Terai	5,95,110	9,59,197	61.18	113	182
4. Mid-Western Dev. Region	14,88,006	19,53,309	31.27	35	46
A. Himali Region	2,07,122	2,38,873	15.33	10	- 11
B. Mountain Region	8,85,562	10,42,151	17.68	65	76
C. Terai Region	3,95,322	6,72,285	70.06	54	92
5. Far-Western Dev. Region	9,58,294	13,11,833	36,89	49	67
A. Himali Region	2,38,833	2,86,687	20.04	30	36
B. Mountain Region	5,21,721	6,00,881	15.17	77	89
C. Terai Region	1,97,740	4,24,265	114.56	41	88
Nepal	1,15,55,983		29.98	79	102
A. Himali Region	11,38,610	12,91,073	13.39	22	25
B. Mountain Region	60,71,407	71,69,945	18.09	9 9	117
C. Terai Region	43,45,966	65,59,525	50.93	128	193

TABLE 2.8 **Regional Population Distribution**

*Provisional

Source : 1. Central Bureau of Statistics

2. Land Resources Mapping Project

Note : Total may not be accurate since figures are provisional and rounded

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	1	ΓA	B	ĻÈ,	2	.	10		
		÷	 	:		ļ	:	14 15 5	e.
n		. 4 5			CL.			a int	. 42 -

Population Characteristics

Items	:		1971	1981
1. Crude Birth Rate		· · ·	42.9	42
2. Crude Death Rate		· · · ·	22.8	19
3. Infant Mortality Rate	1 A		172.2	150
4. Fertility Rate			6.3	6.3
5. Life Expectancy			42.5	45.5
a. Male				47.5
b. Female				44.5
6. Male-Female Ratio (Per The	ousand Wo	man)	1014	1050
7. Dependency Ratio			0.77	0.86
8. Total Number of Family			-	2585
9. Average Family Size			-	5.8
10. Percentage of Population In	Urban Ar	ea	3.99	6.37
(Total Urban Areas)			(16)	(23)

Source : Central Bureau of Statistics.

7

Тав	LE 2.12	· .
Growth of L	abour Forcel	· · · ·
 Total (000)	Average Annual Growth %	Fema
4702		

Year	Total (000)	Average Annual Growth %	Female as % of Total
1953	4702	·	54.2
1961	5138	1.0	51.5
1971	6206	2.0	50.1
1976	6910	2.2	49.7
1981 ²	7953	2.5	53.7

1/ 15-59 Age Groups only 2/ Provisional

Source : Central Bureau of Statistics."

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				e leasann i	and the second second
	1979/80	1980/81	1981/82	1982/83	First Nine Months 1982/83 1983/84*
1. Extension of Services					
a. Hospitals	73	73	73	. 74	74 76
b. Health Centre	26	26	26	26	26 27
c. Health Post	533	644	644	744	744 744
d. Ayurvedic Sercvice				. 1 1	
Centre	85	85	100	113	113 113
2. Hospital Beds	2,586	2,586	2,586	2,754	2,754 3,048
3. Skilled Manpower**			na se		
a. Doctor				526	571
b. Nurse	-	the second second	. ¹	1,820	1,986
c. Health Assistant				778	790
d. Axuliary Heatlth Work	er			1,373	1,389

TABLE 7.4 Extension of Health Services

* Provisional. **Estimated for the end of current fiscal year. Source : Ministry of Health.

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	Government				11-32	<u>(1)</u>
			o 62.14			llion Rs)
Head	1978/79 Actual	1979/80 Actual	1980/81 Actual	1981/82 (Actual	1982/83 Actual	1983/84 Estimate
Expenditure	3020.5	3470.7	4092.3	5361.3	6979.2	8479.7
Regular	1041.7	1162.1	1361.2	1634,4	1997.1	2393.5
Development	1978.8	2308.6	2731.1	3726.9	4982.1	6086.2
Receipts	2411.1	2685.6	3288.1	3672.8	3931.7	5501.1
Revenue	1811.9	1880.0	2419.2	2679.5	2841.6	3904.4
Foreign Grants	599.2	805.6	868.9	993.3	1090.1	1596.7
Overall Surplus (+) or Deficit (- Source of Financing Deficit	-)609,4	-785.1	804.2	-1688.5	5 -3047.5	5-2978.6
Foreign Loan	390.2	534.9	693.3	566.7	741.4	1788.6
Reimbursement	-	·	-	163.2	244.4	50.0
Internal Loan (a) Bonds and Bills (b) Bonds (For Non Barking)	200.0	180.0	250.0 -	500.0	1000.0	1140.0 (640.0)
(b) Bonds (For Non-Banking Sector Only)		. – .		-		(500.0)
Cash Balance Surplus (-)	19.2	70.2	-139.1	458.6	1061.7	

TABLE 9.1

Figures have been rounded off. Source : Ministry of Finance.

· TABLE 9.2

Government Revenue

(In Million Rs.)

and the second second second				t se part	(In Milli	on Rs.)
Head	1978/79 Actual			1981/82 Actual		
Tax Revenue	1476.8	1528.8	2035.7	2211.3	2421.1	3055.0
Customs Excise Land Tax House and Land Registration Income Tax Sales Tax Other Taxes Non-Tax Revenue Receipts from Sales of Commodi- ties and Services	626.7 192.6 59.3 55.7 103.0 356.8 82.7 335.1 141.7	608.0 215.2 64.5 65.0 101.1 401.2 73.8 351.2 145.0	815.8 242.2 108.5 77.8 144.0 537.7 109.7 383.5	189.8	760.9 365.8 66.7 104.7 273.7 709.3 140.0 420.5 162.9	384.0 900.0 208.5 849.4
Principal, Interest & Dividend Royalty and Sales of Fixed Assets Mint Charges, Fees, Fines and Forfoiture Miscellaneous	100.5 8.7 14.0 44.4 25.8	122.0 7.3 21.3 29.7 25.9	117.4 8.0 21.3 48.7 16.1	135.6 16.8 5.3 56.9 64.2	166.7 9.2 6.9 71.5 3.3	289.7 60.3
Total Revenue	1811.9	1880.0	2419.2	2679.5	2841.6	3904.4

Figures have been rounded off.

Source : Ministry of Finance

TABLE 9.3

Regular Expenditure

				e Series officieres Maria	(In _s Mill	ion Rs.)
Head	1978/79 Actual	1979/80 Actual	1980/81 Actual	1981/82 Actual		1983/84 Estimate
Economic Services	98.8	105.7	110.1	130.6	165.7	203.2
Agriculture	7.4	7.7	3.4	3.8	4.5	5.4
Irrigation	3.9	the second second	3.2		4.7	6.4
Land Reform	11.7	A second second second	12.9	15.7	18.1	20.8
Cad. Survey	3.4	3.9	4.2	5.3	6.8	8.2
Forest	4.0	4.3	4.6	5.4	7.3	8.2
Industry and Mining	2.6	2.8	2.9	3.4	4.1	5.1
Communication	29.4	32.8	35.6	45.2	58.4	75.5
Transport	31.9	34.2	36.6	40.1	50.8	61.7
Electricity	3.4	3.9	4.6	5.5	7.7	8.4
Other Economic Services	. 1.2	1.7	2.1	2.6	3.3	3.5
Social Services	175.5	184.6	210.2	249.6	320.4	394.0
Education	80.8	82.5	98.6	106.8	129.4	139.9
Health	52.2	57.7	65.2	80.5	102.3	141.6
Drinking Water	2.3	2.8	· . 3.1	3.9	6.4	7.8
Panchayat	21.0	21.9	22.5	31.6	51.8	67.9
Other Social Services	19.2	19.7	20.8	26.8	30.5	36.8
Defence, Law and Order	286.7	348.3	419.0	463.4	624.6	727.6
Defence	192.2	223.0	259.0	282.8	392.4	463.4
Police and Jail	94.5	125.3	160.0	180.6	232.2	264.2
Miscellaneous	480.7	523.5	621.9	790.8	886.4	1068.7
Loan Repayment and Interest	154.9	217.1	216.3	256.7	307.0	505.2
Revenue Administration	28.6	30.4	35.9	44.0	54.6	62.6
Others	297.2	276.0	369.7	490.1	524.8	500.9
Total:	1041.7	1162.1	1361.2	1634.4	1997.1	2393.5

Figures have been rounded off. Source : Ministry of Finance.

41 Taele 9.4

Development Expenditure

(In Million Rs.)

	1. J.				t inge of the		
Head	[1978/79 Actual	1979/80 Actual	1980/81 Actual	[1981/82] Actual	1982/83 Actual	1983/84 Estimate	•
Economic Services	1401.5	1813.3	2101.0	2556.1	3287.0	4262.2	Ċ.
Agriculture	196.5	153.4	257.0	468.0	668.6	851.2	
Irrigation	226.3	232.7	288.2	359.6	487.4	677.6	Sector -
Land Reform	99	11.3	12.2	16.3	20.6	22.0	1.1.1.1
Cad. Survey	35.7	25.7	30.2	37.7	45.6	48.4	
Industry and Mining	71.5	113.2	123.2	266.5	373.0	549.3	
Forest	66.8	94.2	89.3	185.4	228.1	238.7	
Communication	14.3	25.6	30.9	49.2	74.3	111.4	
Transport	488.2	648.3	601.3	744.0	802.2	1015.0	
Electricity	263.6	494.3	653.2	382.2	443.3	701.5	
Other Economic Services	28.7	14.6	15.6	47.2	143.9	47.1	
Social Services	533.5	444.3	572.6	1059.6	1540.3	1699.8	27:33
Education	234.5	248.1	285,6	412.3	604.6		
Health	98.5	72.2	97.8	152.8	216.3	268.5	<u>v</u> .41
Drinking Water	63.6	58.5	73.2	107.5	> 241.9	221.0	•
Panchayat	98.0	39.1	90.0	270.3	335.2	408.9	
Other Social Services	38.9	26.4	26.0	116.7	142.3	67.5	÷
Economic Administration &		• •				· · ·	
Planning	43.8	51.0	57.5	111.2	154.8	124.2	
Planning & Statistics	3.2	14.3	30.0	14.4	20.2	28.4	: :
Administrative Reform	0.9	0.5	0.7	2.9	7.9	15.8	
Others	39.7	36.2	26.9	93.9	126.7	80.0	
Total :	1978.8	2308.6	2731.1	3726.9	4982.1	6086.2	•

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Figures have been rounded off.

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 $k_{1} = 1^{1}$

Source : Ministry of Finance,

Reply to Questionaire

Kanti Hospital has been functioning as a children's hospital from July 1970. Before that it had been functioning as a general hospital with some paediatric beds. The present capacity of the hospital is 150, though all the beds are not fully operational at present.

Category	Existing	Planned	
Medical	60	90	
Surgical	20	40 (Incl 4 Sur	. Neo.)
Special Care Unit		8	
Rehydration Therapy		6	•
Intensive Care Unit	and a second	<u>6</u>	
	Total - 88	150	-
a statistica de la companya de la co			

Of the existing beds there are a number which are categorised as paying beds and the breakdown is as follows:

3	- 6 bed wards		18 beds
1	- 4 bed ward	-	4 !!
ິ 2	- 2 beds cabins	-	4 11
1	- 1 bed cabin	-	1 bed
	Total paving	<u>.</u>	29 beds

It is planned that there will be a further increase in the number of paying beds as the demand for such facilities continues to increase and as this is one of the major methods by which the hospital can generate income.

From Sunday to Friday the hospital provides out-patient services of different categories viz.:

Medical Surgical Dental Pathology X-ray Pharmacy Physiotherapy Emergency Family Planning and Maternal Child Health Services.

All out patient departments function from 9.00am - 2.00pm but the rehydration unit of the Medical Department functions daily from 9.00am to 8.00pm. The emergency functions for 24 hours, 7 days a week. There is also a Nutrition Clinic which is presently functioning once a week.

The hospital is presently administered by a nine member development board under the Chairmanship of the Hon'ble Ram Shanker Shrestha, Member of the Rastriya Panchayat. The composition of the development board is as follows:

1.Hon'ble Ram Shanker ShresthaChairman2.Director General of Health ServicesMember3.Head, Department of Child Health, IOM"4.Member Secretary, Child Welfare Co-ordination"5.Representative of Nepal Paediatric Society"

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6.)7.) 3 consultants of Kanti Children's Hospital Member8.)

9. Medical Superintendent, Kanti Children's Hospital Member Secretary

There is also a nine member Kanti Children Hospital Management Committee constituted as follows:

Chairman	Assistant Superintendent
ander og som en en var var var var som en en er var en er var som en er en er var var en er en er en er en er e	ear one for the additioned the and the second
Members	Representative of Consultants
	Representative of Junior Doctors
	Matron - Representative of Nurses
	Unit Chief of Laboratory
	Unit Chief of X-ray Department
	Unit Chief of Pharmacy
a sata sata pita ka	Unit Chief of Dental Department
en e	Administrative Officer

For proper function of the hospital a Hospital Manual listing duties of all personnel has recently been formulated.

Medical Statistic Data

The present mode of operation shows that the hospital functions as a general hospital catering to the needs of children. The figures for 2040 (April 1983 to March 1984) is as follows:

Total Number of out-patients	26,932 i.e.	17,041 Medical 9,105 Surgical 785 Dental
Total number of admissions	4,485 i.e.	4,122 Medical 363 Surgical
Number of Surgical operations	performed - 3	12.
Laboratory Investigations		- 4008 - 6152 - 7122 - 1800

X-ray total number of plates taken - 3728

The system of working is that the patient comes to the hospital and is generally seen in the out-patients department first. For this he comes to the foyer of the O.P.D. and on payment of Rs. 1 he gets a card with which he is seen in the medical, surgical or dental department. On this card, his history, finding and treatment are written and he can be referred elsewhere if necessary. If his illness is of such nature that it warrents admission, then he is admitted under the concerned physician or surgeon either in the free bed or on the paying bed of the hospital. Generally those from outside of Kathmandu Valley and those of poor economic status are admitted in the free beds where most of the drugs, food are free and there is no charge for X-ray and laboratory services whereas in others a nominal charge amounting to a quarter of the regular charge is made. In the paying beds the charge for occupancy is as given below:

In 6 bed ward	- Rs	. 10 per	day	en de la Seconda
In 4 bed ward	- Rs	15 per	day	
In double cabin	- Rs	. 20 per	day	
In single cabin	- Rs	. 30 per	day	a the state
			· · · ·	

The patient gets some of the drugs e.g. multi-vitamins, pencillin supplied free but may have to buy some medicines. For this there is a shop within the hospital compound which sells medicines at a slightly cheaper rate than at the market. These patients have to pay regular charges for X-ray and laboratory services. They do not pay other charges e.g. for doctors or nurses services.

· . .

Meals as stated, is provided free to the patients admitted to the free beds of the hospital. Those in the paying beds either bring it in themselves from home or procure it from nearby restaurants or eating houses. More recently, a canteen has been started at the hospital but the food it provides is of a limited variety.

Hospital laundry is at present washed by the age old custom of the washerman or 'Dhobi' on the hospital compound. This is not satisfactory and alternative arrangements are to be made.

m.

Medical and Maintenance Manpower

1. Number of Doctors

a)	Medical Départment	Existing	To be added from July 1984
	Consultant Paediatricians	4	
, the	Medical Officers	8	
	Medical Registrars (Lecturers)		Markey and a start start
	from the Teaching Hospital	2	
			5 5
b)	Paediatric Surgery		
in de la compañía de Esta de la compañía de	Consultant Surgeons	2	. · · ·
	House Officer	<u> </u>	1
			-
c)	Pathology	$(1-i)_{i\in \mathbb{N}} (1-i)_{i\in $	
	Consultant Pathologist	1	
d)	그는 그 그는 학교 전화에 있는 것 같은 것 같은 것 같은 것 같은 것 같이 많이 있는 것 같이 있는 것 같이 있는 것 같이 없다.	and the second	
esse file -	Visiting Consultant from the		
i ng tr			where $\mathbf{f}_{i}^{(1)} = \mathbf{f}_{i}^{(1)} \mathbf{f}_{i}^{(2)} \mathbf{f}_{i}^{($
			en tra ser de la deserva
e)		2 - 2 - 2	· · · · · · · · · · · · · · · · · · ·
Nur			
	Matron		
	Sisters		
nga na taon Taona	Staff Nurses Assistant Nurse Midwives		
	Assistant Nurse Midwives	and the second	
ing in the	- 148 -	an an traite and the first state of the stat	te trata de la construction de la tra

To be added Existing from July 1984

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1

3. Other Medical Personnel

Auxiliary Health Workers Laboratory Technologist Laboratory Technicians X-ray Technicians Physiotherapy Medical Record Officers

The maintenance manpower existing, consists of an Electrician/plumber. Since the Tribhuvan University Teaching Hospital is next door it is hoped that co-operation between the two hospitals can result in us being able to utilise the services of the engineer/electrician and the radiographer who have been trained in Japan.

List of Existing Medical Equipments

This is barely enough to provide the most basic service.

Medical Department

Suction machines 2 Oxygen Cylinders 15 Incubator 1

Surgical Department

One single Operation Theatre unit with a set of basic general surgical instruments but without any Paediatric and Neonatal Equipments or instruments.

Anaesthetic Department

Basic Boyles Apparatus but no Paediatric or Neonatal accessories. There are no cardiac monitors and no ventilators.

Laboratory

Equipment at present can only provide investigation of very basic nature on blood, urine, stool and CSF.

Dental Department

One X-ray machine which can only do the most basic radiological investigations.

Physiotherapy

Equipment at present not suitable for use on children.

Level of Medical Care

As the Kanti Children's Hospital is one of the specialist hospitals in the country (others being eye, maternity), it means that the level of care provided should be of the highest level corresponding to tertiary care. As this is the only children's hospital of the country, not only do patients come on their own accord but are referred here by doctors and paediatricians from different parts of the country. Limited manpower, financial constraints and lack of equipment (Men, Money and Material) have been the main set back, but with the functioning of the present Hospital Development Board as the governing authority, we are hopeful that some if not all the problems will be solved.

Maintenance System

The budget given by the government has some provision of funds for maintenance of buildings and equipment. The repair and the maintenance is done as and when required. There is, as already stated, an electrician/ plumber on the hospital payroll. As far as maintenance of the equipment is concerned we hope that some sort of arrangement will be made with Tribhuvan University Teaching Hospital to utilise the services of their personnel already trained to maintain their equipment.

 $p \in \mathcal{L}^{n} \to \mathbb{R}^{n}$

Total Hospital Income

Grant from Government for 2041/42	- Regular 16,00,000 Development 30,00,000	
Income for Financial Year 2040/41	- Out-patient tickets From Paying Beds From X-ray From Laboratory Total Income	- Rs 55,016 - Rs 49,281
	TOTAL INCOME	
Total Hospital Running Cost (2040-41)		- 1 ⁴
Total Budget- Rs. 14,4For Personnel Pay- Rs. 7,2Benefits- Rs. 1,7Food and Milk- Rs. 1,7Medicine and Equipment- Rs. 2,00	7,342 2,223 8,000	
Medícine a		na sense a service de la companya d La companya de la comp
Equipmen	t Food and Milk	
Personnel Benefits	+Others & 169.915	
Personnel Pay		ana ang bang bang Tagang bang bang pa

Hospital Future Plan

Services will be started as soon as possible so that the whole Hospital functions. Once the Anaesthetic Department is established then the Accident and Emergency Department will function properly. Plans are underway to a 'Kuruwa Char' for the parents of sick children whose homes are at a distance from the hospital. This will have cooking, washing and toilet

Director-General of Health Services Representative of Nepal Paediatric Children Coordination Committee Head, Department of Child Health Hon'ble Ram Shanker Shrestha Specialists from hospital Medical Superintendent Institute of Medicine HOSPITAL MANAGEMENT COMMITTEE Member Secretary Member Secretary Society CHAIRMAN MEMBERS ADMINISTRATION DEPARTMENT ----2 9 . ຕ 4 'n KANTI CHILDREN'S HOSPITAL MEDICAL SUPERINTENDENT DEPARTMENT OF HEALTH MINISTRY OF HEALTH DEVELOPMENT BOARD ; NURSING DEPARTMENT

SPECIAL CARE

DEPARTMENT SURGICAL DEPARTNENT NEDICAL

DEPARTMENT

X-RAY

PHYSIOTHERAPY

LABORATORY PATHOLOGY

CASUALTY

THERAPY UNIT REHYDRATION

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facilities. The other departments to be fully operational once the extra manpower and equipment arrives are Neonatal Intensive Care and Maintenance Department.

A Master Plan is being prepared for the hospital's expansion in the next twenty-five years by which the hospital is expected to have 250 beds. The master plan will have building programme for the following:

A private wing consisting of 50 beds Operation Suite Out-patient Unit Accident and Emergency Unit Administrative Block Laboratory Unit New X-ray and Ultra Sound Unit Auditorium Canteen

Medical	Demand	•	Existing,	Potential	and	Future	Trends
---------	--------	---	-----------	-----------	-----	--------	--------

•					·			
		2031	2032	2033	2034	2035	2039	2040*
	Out-Patients	16,866	17,466	17,995	17,713	17,914	20,172	26,932
	Admissions	2,422	2,473	2,663	2,454	2,672	3,319	4,485

As is well known at present, when the official capacity of the hospital was 50, it was running to almost 100 beds. Even with the increase to 150 beds, the demand for services will increase and it will not be unusual to see extra beds even then so that the hospital possible has about 200 beds running. It is expected that once the Tribhuvan University Teaching Hospital is fully operational, then the effect of this will be felt at the Kanti Children's Hospital. People coming to that hospital will be directed towards Kanti Children Hospital for the care of the children. Furthermore once the Kanti Children's Hospital facilities increase e.g. as with this help from the Japanese Government, then more children patients will not only be referred here but will come on their own accord. The fact that the Nepal Paediatric Society is based at Kanti is another contirbuting factor in this, for all paediatricians being members of it have most likely worked at Kanti Children's Hospital or are aware of its existence.

Medical Industry

Production of Medical equipment can be said to be non-existant. All have to be brought in from out of the country. As is prevalent elsewhere, the trend is gradually to use some dispossible materials such as syringes, giving sets etc.

Medical drugs are produced by a couple of drug firms e.g. Royal Drugs Ltd., Chemi Drug Industries. These two concerns supply a maximum of 13-14% of the country's drug requirement. The full range of products is also not available.

* 2040 = April 1983 to March 1984.

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Because of lack of medical equipment supplies on a large scale, the maintenance service as provided elsewhere is almost negligible. However, with the increased volume of equipment being supplied it is hoped that this type of after-sales service will be provided.

General Information

The population of Nepal is just over 15 million with an Annual Growth Rate of 2.66%. It has been estimated that at present the birth rate and death rate are 42 and 19 per thousand. Average life expectancy of the Nepalese is 45 years. When compared to other developing countries both birth rate and death rate are very high and average life expectancy is very low. Maternal Mortality Rate is 8.5 per thousand and total fertility rate is 5.9 per thousand. The standard of health in Nepal is considered to be very poor. Majority of the people do not have access to basic health services, malnutrition is common and infectious diseases are still widespread. The existing health services is the country is as follows:

Hospitals -	83
Hospital beds -	3321
Health Centres -	26
Health Posts -	744
Ayurvedic Clinic -	113
FP/MCH clinics -	210

It may be stated that there is a general shortage of manpower, though as far as Kanti Children's Hospital is concerned it may be said that the shortage that is most felt is that of nurses. Even with the increased number of posts that will be available as from this financial year, the nursing personnel will still be in short supply. It is hoped that the Hospital Board will, as it is doing now, appoint some extra personnel.

Regarding the training of health personnel, the Institute of Medicine is responsible for training some of the basic levels, all of the middle level and all of the higher level of health manpower.

Basic Level	-	Assistant Nurse Midwife
		Community Medicine Auxillary
Middle Level		Health Assistant
		Ayurvedic Assistant
tar in a	(1,1,1,1)	Nurses
		Laboratory Technicians
a the property		Pharmacy Assistant
allela e de la Co	8 - 1 - 2 - 1 1	Radiographer
		Physiotherapist
Higher Level		Medical Graduate - MBBS Doctor
	· . ·	Nursing Graduate - Bachelors
an tha an an an an Anna Anna Anna An 1976 an tha an Anna Anna Anna Anna Anna Anna Anna		- Midwifery
	$\mathcal{A}_{i}^{(i)} = \mathcal{A}_{i}^{(i)}$	- Adult Medical/Surgical
and the second		= $=$ Community
		- Paediatric

Post Graduate - Generalist i.e. Family Practitioner.

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The middle level manpower such as health assistants, ayurvedic assistants, nurses of Mahaboudha Nursing Campus do their practical training at Kanti Children's Hospital. The Graduate courses for MBBS and Bachelor Nursing as also the Post-graduate Generalist course also have their practical training at the Kanti Children's Hospital. However with the starting of the 2-year Bachelor Nursing (Paediatrics) from this year, an increasing amount of nursing training will take place at Kanti.

The number of Health Personnel currently available is as follows:

Doctors ~	801
Dentists -	18
Nurses -	500
Assistant Nurse Midwife -	1284
Health Assistant/Senior AHW -	770
Rural Health Worker -	1600

Medical Practice in this country was regulated by a law known as 'On Medical Practise' in the Law of the Land. (Elaz Garne Ko in Mulki Ain). Following this the Nepal Medical Council Act 2020 was passed and this governs medical practise in this country. It is necessary for doctors who practise in this country to be registered with the Nepal Medical Council. Besides this, the other relevant acts are as follows:

Infectious Diseases Act	_	2020
Smallpox Control Act		2020
Nepal Medical Council Bye-Laws		2024
Drug Control Act	-	2033
Medicine Act		2035

Utilities and Other Services

Electric Power:

The Nepal Electricity Corporations 11 KV overhead line runs along the eastern side of the Institute of Medicine classroom block which is situated on the eastern side of Kanti Children's hospital. A line has been brought from there to a point by the side of the present out patients block.

1. Voltage

- Primary voltage 11 KV 3 phases 3 wires 50 Hz
- Secondary voltage 400 V/230 V 3 phases 4 wires 50 Hz

However voltage fluctuation is likely to during peak periods such as 5.00pm to 7.30pm, power failures do occur and can be due to scheduled maintenance of lines or due to failures and lightening strikes.

City Water Supply:

The present supply is from the main water mains which follow the electric supply lines along the main road. The present supply is very limited but the Water Supply and Sewerage Board is improving the water supply very soon by way of augumentation to the existing source through deep wells which are being bored in various parts of Kathmandu Valley. In the hospital, electricity is mainly used for cooking. Problem can arise when the power break down occurs for long period. The back-up service is by use of kerosene heaters and cookers.

Local Conditions and Access to the Hospital ...

The main metalled road is about 100 metres from the hospital gates. This intervening road is presently gravelled but is expected to be asphalted within this current fiscal year. The hospital itself is close to the Institute of Medicine building. It is hoped that the triangular area in front of the hospital will be developed into a park with the collaboration of the Institute of Medicine and Kathmandu Nagar Panchayat (Municipal Authority).

Survey of Costs

The cost of building materials tends to be going up most of the time but it is generally accepted that the annual inflation rate is about 10%. The cost of building materials and labour costs is as given below:

Bricks per thousand -	Rs. 480
Cement 50 kg. bag -	Rs. 130
Wages of mason/carpenter -	Rs. 45 per day
Wages of labourer -	Rs. 20 per day

General Information

1.

To improve the Health of the Nation, the Ministry of Health of His Majesty's Government has prepared a Long-Term Health Plan for the period 1975-1990. Some policies accepted to bring this about are:

Establishment of health posts in the rural areas to provide general curative and preventive services.

 To establish at least one 15-beded hospital in each of the 75 districts of the kingdom.

- 3. To curb the growth of population.
- 4. To increase the supply of health technicians by utilising and improving the existing facilities.
- 5. To increase the production of medicines in the country and to achieve self-sufficiency.

A large number of diseases occur as a result of the poor water supply. The municipal water supply reaches only 11% of the total population. Of this 83% of the urban population and 6.4% of the rural population have access to such facilities. The target of the 6th Plan is to provide piped water to 87.2% and 25.8% of the urbau and rural population respectively.

Except for life insurance no system exists for general insurance for health. Some institutions and business firms provide some cover for their employees.

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As stated already the Kanti Children's Hospital is one of the specialist Hospitals in the country. As outlined, it is a referal centre and also a place where paediatric teaching for a substantial number of health personnel takes place. Almost all paediatricians in the country have worked here prior to going to other areas of the country. What must be noted is the fact that though this hospital is in the capital, it is becoming increasingly accessible to Nepalese living in different parts of the country because of the available air connections and also the East-West, North-South network of roads. The argument that Kanti Children's Hospital just caters to the needs of children in the valley of Kathmandu is no longer ture.

Nepal faces a number of problems and the problem of health for its children is one of the major ones. Children under 15 constitute 40% of the population. It has been accepted that population control is essential if Nepal is to progress. Family Planning will only become successful when people are convinced that their children are likely to survive and that large families are not desirable in the national interest when the country is trying to effect some population control. The existence of a good children's hospital, as is envisaged with this improvement project will help in attaining that by being a model on which the Children's Department of the various Zonal Hospital can be based and in which the personnel can be trained. The fact that the future doctors and nurses of this country are being trained here is no small factor. The investment in this project will therefore have much more far reaching effects than what is initially apparent.

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Telo, ; NATBOARD, New Delhi

Phone: 6,61794



NATIONAL BOARD OF EXAMINATIONS

ANSARI NAGAR, RING ROAD, POST BOX No. 4931, NEW DELHI - 110029.

Ref No. 12-(32)/ACC/I/N/81-NBE/ 8956

Dated_March 28, 198 3

The Administrator, Nepal Paed., Society, Kanti Children's Hospital, Maharajganj, G.P.O., Box No. 2668, Kathmandu, <u>NEPAL.</u>

Subject: Recognition of Kanti Children's Hospital, Maharajganj, Kathmandu, Nepal.

Dear Sir,

I write to inform you that on the recommendations of the Accreditation Committee, the National Board of Examinations at its meeting held on 21st March, 1983 approved the recognition of Kanti Children's Hospital, Maharajganj, Kathmandu, Nepal for training of candidates appearing in the Examination conducted by the Board in the following speciality:

Paediatrics

2 candidates per year.

The recognition will be valid for a period of 5 years to be renewed only after reinspection or reconsideration of the Institution/ Hospitals.

It has been observed that your hospital has not yet paid the Inspection Fee amounting to R.5000/-(Rupees Five Thousand only). It may please be understood that recognition should be provisional until the Inspection Fee is paid. It shall be withdrawn if the Inspection Fee is not paid. You are, therefore requested to remit it immediately.

Observations/suggestions of Inspectors:

The following observations of the Inspectors may please be noted for necessary action:

'The one lacuna found was lack of adequate library facilities. The hospital should have more books and should subscribe to many more journals. Medical record keeping is also in its infancy'.

The action taken on the observations of the Inspectors may please be reported to this office for further necessary action.

I am also enclosing herewith a copy of Rules & Regulations relating to general information regarding the Examinations and syllabus for the speciality.

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Yours faithfully, IM 9393 (DR. I.B. GAUR) SECRETARY-CUM-REGISTRAP

presiden of Hycin Papers and Articles

INep. Mod. Ass. 1971 9, 1-2

TOP TWELVE IN PAEDIATRICS IN NEPAL

Dr. P.L. RAJBHANDARI, M.B.B.S., D.P.H., D.C.H. (LONDON) Senior Peadiatrician and Medical Superintendens, Kanti Hospital

by

Dr. D.L. SINGH, M.B.B.S., M.R.C.P., D.C.H. Peadiatrician, Kauti Hospital

and

This article is based on an analysis of approximately 17,000 cases seen in the Gildren's Outpatient Clinics of Kanti Hospital and Bir Hospital for a period of one year back case, from December 1969 to November 1970. The main purpose of this exercise blo secretain the leading diseases with which children are commonly brought to the Mipatient clinics here. The result of our analysis as tabulated below has shown that the blowing twelve diseases form the top twelve diseases since they constitute about Mper cent of the total mathematical seens-

hieases Parasala and an	Total No, of Cases	Percentage	1.4
L. Diarrhoeas	6129	36,15 per cent	. N
II. Upper Respiratory Tract Infections	3089	18.22 per cent	
W Bronchitis, Bronchopauemonia and Poset	olaila 2875	16.96 per cent	
V. Pertussis	562	3.32 per cent	en Alta
Tuberculosis	369	2.81 per cont	
1. Skin Infections	367	2.17 per cent	
14. Urinary Tract Infections	328	1.93 per cent	
III Hys and Ear Infections	227	1.34 per cent	÷.,
W. Rickets	139	0.32 per cont	
¹ . Rhaumatic fever	102	0.62 per ceat	
¹ P.U.O.	61	0.41 per cent	` :
4. Meningitis and concussions	59	0.31 per cent	
Total	14307.	84.40 per cent	

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A SHORT REF IN

mentero of Distan 22 This can be visualised by the following, which show (Fig 1):

RESPIRATORY DISEASES (336) 48%

1 Pacemonias	(228) 67.8%	5. Pleurisy	171	5 AS.
(a) Bronchoneumonia (b) Lobar Pneumonia	213 10	5. Other Respiratory	(13)	2.08% 3.86%
(c) Segmental pneumonia		(a) P. Eosinophilia (b) Lung Absoers	. 5 . 3	
2. Urti 3. T. R. Langs	(31) 9.23% (31) 9.23%	(c) Bronchial Asthma (d) Empytma	2	
4. Brouenitis (a) Asthmatic	(26) 7.73% 10	(c) Bronchiolitis	1	
(b) Simple	16 ee 17 19 ee 18	y el teleforget a l'arte a el co les al constructions de la construction	•	

ALIMENTARY DISORDERS (177) 25.3%

I. Gașteroenteritis &			4. T. B. Abdomen (15)	8.47
Euteric Disorders	(67)	37.86%		
2. Malnutrition	(47)-	26.56%		
3. Liver Diseases	(20)	11.29%	(a) Worms	8.
· · · · · · · · · · ·			(b) Dysentery group	4
(a) infective Hepatitis	6	e sa pega	(c) Intestinal Obstruction	6
(b) Amoebic Hepatitle	9		(d) Pain Abdomen? cause	. 4
(c) Cirrhosis Liver	2		(e) Failure to Thrive	4
(d) Splenohepatomegaly	2		(f) Feeding difficulty	- 1 -
(e) Biliary Atresia	1.1		(g) Rectal polyp	

Ш

NEUROLOGICAL DISORD. (59) 8.43%

1. Meningitle	(26) 44.07%	(d) Muscular Dystrophy	1
(a) Tubercular	14	(Duchenne)	
(b) Non-tubercular	12	(e) Infantile Hemiplegia (f) C.S. Thrombosis	1
2. Convulsion	(15) 25.43%	4. Cerebral Palsy	(2) 3.55%
3. Other Can Disorder	(12) 20.34%	5. Psychological	(4) 6.75%
 (a) Pollomyclitis (b) Infective Polyneuritis (c) Herpes Zoster 	2	 (a) Enurosis (b) Habit Spasm (c) Hysterical Pala Abdoman 	2 1 1 1

INDEX REPORT

URINARY TRACT DISORDERS (30)4. 23% 1 Urinary Tractiufection (11.) 36.67% 3. Nephritis (8.) 26.67% 3. Nephrytic Syndrome (11.) 36.67% 4. T.B. Kidney 1.

BLOOD DISEASES (17) 2.43% (1) Hypochromic anaemia (1) I. T. P. (2) Leukaemia (3) Aplastic Anaemia (4) Aplastic Anaemia (5) (c) ? Haemophilia (6) Leukaemia VI

INFECTIOUS DISEASES (17) 2.43%

(a) Pertusis	an an San San San San San San San San Sa	6	$\{x_i,y_i\} \in \{1,\dots,n\}$	(c) Measles	
(b) Diphtheria		2		(c) ? Neonata	1 Tetanus
		- 4 ^{- 1} - 1			and a second
and the second	化化学机能 医小脑下颌	1. 1. 1. 1.	VII VII		A. 1994

CARDIO-VASCULAR DISEASES (9) 1.3%

(a) Rheumatic Carditis	1	(c) ? V.S.D.
(b) Double Mitral	2	(f) C. C. F.
(c) Dextrocardia	1	
a state of the second	an an an an an Ar	VIII. A CARACTERIA SUBSCIED

(b) Rheumatic Feer 4 (c): Rheumatoid arthritis (b) Scleroderma 2 IX

(a) Cleft palate (b) , lip (c) Achondroplasia (b) , lip (c) Achondroplasia (c) Ac

Diabetes mellitus 2 XI NETENCE DISEASES (3) 0.43%

(a) Rickets (b) Vit. A Deficiency.

TUBERCULOSIS (2) 4.3%

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XIII OTHERS (32) 4.57%

Pyrexia of Unktiows Origin Poisoning. Skin discusses, etc. 23

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Prepared by: Dr.H.Dixit Dr.R.Adhikari

Course for Child Health

(For the Diploma of General & Community Medicine)

- The course in Child Health will enable students to:
- 1. Acquire the skill & develop attitudes to look after the health of shild in
- different settings.
- 2. Supervise subordinate staff.
- 3. Develop attitudes to work as a member of health care team.
- 4. Develop skill to plan & implant school health programme & under five clinics. The course itself has been divided into two parts, the first part will be taken up during the 5th semester & the second part in the 6th semester. The following are the contents & course objectives for the fifth semester.

Course Objectives

1.General Paediatrics

Contents

(General Principles in child health)

At the end of the course the students will be able to:

- 1. Take complete history from children,
- parents or guardians, including antenatal & postnatal, diet & development history.
- 2. Develop skill to examine child of any age.
- 3. Assess the nutritional & developmental status of the child.
- 4. Recognise signs & symptoms of illness.
- 5. Suggest appropriate test on blood, stools urine & radiological investigations & skin tests.
- Repognise & differentiate between normal & abnormal growth and development.
 - Rate of growth
 - Patterns of gain in weight, height, head circumfrence

- Dentition

- 7. Recognise nutritional deficiency diseases, plan & advise on nutritional requirements of child of any age.
- 8. Develop immunisation schedule.
- 9. Develop skills & attitudes to organise under five clinics.
- 10. Recognise course, signs & symptoms of diarrhoeal diseases & acquire skill to manage such cases,

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<u>Contents</u>	<u>Course Objectives</u>
2. Paediatric Emergencies.	1. Learn to recognise & institute appropriate
	managements in common poisonings like
	kerosine, Aspirin, Iron.
	2. Learn to recognise & institute appropriate
	management in :
	Hypovolaemio shock.
	Electric shock.
	Anaplylactic shock
	With respect to the following diseases the
	students will :
	1. Recognise signs, symptoms produced in
	common infective diseases of respiratory
	system & in common skin disorders, allergic
en en fan de ferste fan de Referense fan de ferste fan	& immunologic disorders.
3. A. Infections disease B. Respiratory diseases	2 Relate cause & pathophysiology to clinical symptoms.
C.Skin disorders	3. Develop skill to manage such cases.
D.Allergio & Immunologic disorders.	4. Understand the appropriate prophylactic
	neasures available & be able to explain it
	to the patients and or their relatives.
	5. Recognise appropriate case for referal
A. Infections 1. Viral	-Small Pox
	Chickenpox
	Measle
	Mumps
	Polionyelitis
II. Basterial	-Pertussis, Diphtheria
	-Typhoid, Tuberculosis
	piratory tract injection
ii. Comaon EV	
	, Bronchopneumonia
	tasis, lung asoess.
. The second se	
vi, Phonmoth	
viii. Respirat	ory Failure
C. <u>Skin diseases</u> i. Leprosy	
ii. Impetigo	
iii. Celluliti	es, Furunculosts

- iv. Candidiasis, Ringworm
- v. Fediculoses, Scabies, 162 -

Surriculum

General Objective

This course is the second part of curriculum in child health for Diplome in General and Community Medicine, liter completion of the course the student with acquire knowledge; will and settitude to disgnose and manage common predistriat problems and develop programme for school health and under five clinics.

Course content.

Specific Objective

- 1. Haenatologic Disessesse
- At the end of course the student will be this
- a) Disgnuse blood dyscrecia.
- b) Recognise sign and symptoms of blood disordert
 - Leukaemia
 - Hessorrh gic disorder
 - Congenital ha soglobinopethies
 - iotrogenic disorders
 - Hacmolytic anaomias

e) Plan short and long term therapy in causes of

- haematological disorders
- d) Develop skill to plan for investigation of such cases
- e) Plan for safe blood transfusion and recognize hazards of transfusion.
- Recognise sign symptoms and pathophysiology
 - and learn the principle of samegment in
 - Hyperbilirubinsenia
 - Infustive hepetitis
 - Biliary stresia
 - Infenatile cirrhosins
 - Portal hypertension

a) Recognize sign, sympton, pathophysiology of the

following conditions and learn to institute

- emergency treatment in
 - Cona
 - Convulsions / Sits
 - Meningitis of bacterial, viral she fungei
 - erigin

- 163 --

~ Inconalitis

b) Tumours-retinoblasiona

Recognis dymotic and use sympatic disease and learn to institute energinery treatment in a) - Cyarothi spells

- Congestive heart failurs in small inforts and young chilren.

Develop skill and sttitude for councailing permiss.

Liver disordars

3. Misease of CNS

Cerdiovascular disease

Contents

D. Allergic &

- Immunologio disorders.
- 4. Nuonatology:

- Course Objectives
- i. Bronchial Asthma
- ii. Rheumatic Fover
- The students will :
- 1. Develop skills to examine the neonates.
- 2. Elicit neonatal reflexes & recognise their
- significance.
- 3. Detect malformations.
- 4. Recognise & learn skill to manage appropriate therapy in High-risk neonates like: Neonatal
 - a) Birth trauma
 - b) Birth asphysia
 - c) Low birth weight
 - d) Difficult labour or caesarean
 - section babies. Infant of Diabetic mother.
 - e) Hypoglycaemia
 - f) Hypethermia

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g) Respiratory distress.

5. Urinary Tract disease

6. Endocrine di sease

7. Con init di malformation

8. Chromosowal disorder

9. The child with diabilities

a) Recognize sign symptom, pathophysiology of common urinary trant diseases in shildrin and learn to manage

- Uninary tract infection

- Acute glomerulonephritis

- Benal failure - soute, chronis

- Nephrotic syndrcus calculi of univery tract

- Luce ronel Callure

Neoplasm - wilms turnour

Recognise the signs, symptoms, pathophysiolo of the following condition and learn the ma management of

- Cretinism

- Goiter

- Dwarfism

Recognise and institute initial therapy and advise and refer to appropriate authority for treatment of

- Cleft lip, cleft palate

- Tracheooesophageel fistula

- Inperforate Lus

- Diaphragnatic hornia

- Congunital pyloric stenosis

Recognise, investigate and give appropriate advise in causes of

- Down's syndrome

- Tumers syndrome

Recognise the significance of child hood disabilities specially with reference to the following conditions

Orthopaedic problems

Hearing problems

Visual problems

Mental problems

Caldiac problem etc.

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PAY SCALE FOR GOVERNMENT SERVANTS, HMG, NEPAL.

Non-Gazetted (Technical)

1. Class Four	520-9(10)-610 E.B. 11(10)-720		
2. Class Three	600-11(10)-710 E.B. 12(10)-830		
3. Class Two	715-13(10)-845 E.B. 15(10)-995		
4. Additional Scale	875-16(16)-1131		
5. Class One	895-16(10)-1055 E.B. 18(10)-1235		
6. Additional Scale	1095-20(16)-1415		

Gazetted (Technical)

8. Assistant Secretary

11. Additional Secretary

12. Special Class

7. Class Three

9. Class Two 10. Class One

1430-40(9)-1790	Е.В.	45(8)-2150
1610-45(8)-1970	E.B.	50(7)-2320
1825-50(8)-2225	E.B.	55(6)- 2555
2320-70(10)-3020)	
2675-80(5)-3075	. · .	
3075-100(4)-3475	5	-

Gezetted Class One - Senior Paediatrician, Medical Superintendent,

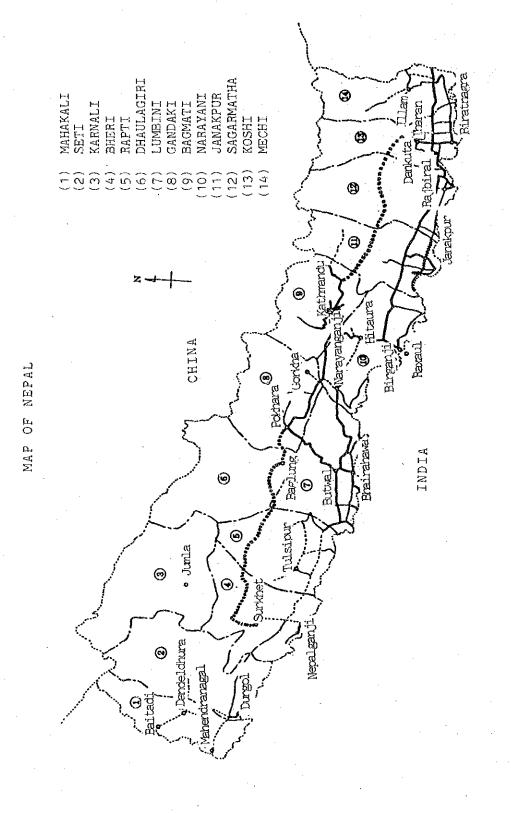
Gazetted Class Two - Paediatrician, Natron, Medical Technologist, Radiologist.

Gezetted Class Three - Medical Officers, Sisters, Administrative Officer. Non-Gazetted Class One - Staff Nurses, Senior Auxillary Health Workers,

> Health Assistants, Dietition, Laboratory Technicians, X-Ray technicians, Assistant Physiotherspist.

Non-Gezetted Class Two - Assistant Nurse Midwives, Assistant Laboratory Technician, Dark Room Assistant, House Keeper, Auxillary Health Workers, Electrician cum Plumber.

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(2) - 6)

