

4. 討議議事録

(1) 現地調査時

MINUTES OF DISCUSSIONS
ON
THE BASIC DESIGN STUDY ON THE PROJECT FOR
THE IMPROVEMENT OF KALAWATI SARAN CHILDREN'S HOSPITAL
IN
INDIA

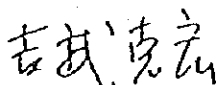
Based on the results of preliminary Study, the Japan International Cooperation Agency (JICA) has decided to conduct a Basic Design Study on The Project for The Improvement of KALAWATI SARAN CHILDREN'S HOSPITAL (hereinafter referred to as "the Study")

JICA has sent to India a Study Team headed by Dr. Katsuhiko YOSHITAKE Sr. Consultant Pediatrician Chief, MCH Section Sr. Coordinator, Expert Service Division, Bureau of International Cooperation, International Medical Center of Japan, Ministry of Health and Welfare, from November 27 to December 31, 1994.

The Team had a series of discussions with the officials concerned of India and conducted a field survey at the study area.

As a result of discussions and field survey, both sides have confirmed the concept of the Project described in the attached sheets. The Team will proceed to further works and prepare the Basic Design Study report.

New Delhi, December 7, 1994



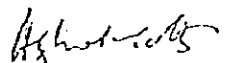
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Leader
Basic Design Study Team
JICA



Mr. D.N. Narasimha RAJU
Deputy Secretary
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Prof. Chandrama ANAND
Principal
Lady Hardinge Medical College



Mr. Ashok MEHTA
Under Secretary
Ministry of Health & Family
Welfare

ATTACHMENT

1. Definition
 - 1)Project
"Project" is defined as the inputs from Japanese side under Japan's grant aid.
 - 2)Programme
"Programme" is defined as the entire scheme for the target which is formulated and to be operated by Indian side.
 - 3)Primary Medical Service
"Primary medical service" is defined as the medical service for common diseases at the first stage as well as preventive medical service.
 - 4)Secondary Medical Service
"Secondary medical service" is defined as the medical service for common diseases which requires technique and equipment and to some extent skills in a institution.
2. Background of the Request
The Government of India, in its 8th National Development Plan, formulated the programme towards the reduction of infant mortality and morbidity due to the common infectious and contagious diseases in India and requested the Government of Japan to implement the Project.
3. Concept of the Programme
Overall Goal, Purpose, Outputs and Activities of the Programme were summarized and confirmed in the Programme Design Matrix on the Minutes of Discussions between Japanese and Indian side on July 15, 1994.
4. Objectives of the Project
The Project contributes the reinforcement of primary and secondary medical service at the Kalawati Saran Children's Hospital (hereinafter referred to as "K.S.C.H.") of Lady Hardinge Medical College (hereinafter referred to as "L.H.M.C.")
5. Project Sites
The Project sites are located in L.H.M.C. and related Primary Health Centers (Palam, Najafgarh and Kalyanpuri).
(Note: The equipment and facilities for these centers will be supervised and maintained by L.H.M.C.)
6. Responsible Ministry and Executing Agency
Responsible Ministry: Ministry of Health and Family Welfare
Executing Agency: Lady Hardinge Medical College

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7. Items requested by the Indian side

After discussions with The Basic Design Study Team , items described in Annex I were finally requested by the Indian side.

However, the final component will be decided after further studies.

8. Comments by the Japanese side on the items in 7. above

1) The Japanese side will analyze the requested items on Annex I -1) based on the following criteria :

a) Department which needs rationalization.

b) Department which requires healthy space for installation of equipment.

c) Department which needs reinforcement for primary or secondary medical service.

2) The Japanese side will analyze the requested items on Annex I -2) based on the following criteria :

a. The equipment to be included in the project is;

1) the equipment to be utilized for treatment of the common diseases.

2) the equipment to replace the existing equipment which is already deteriorated.

3) the essential equipment for primary health care identified by the World Bank, WHO, UNICEF etc.

b. While, the equipment to be excluded from the Project is;

1) the equipment not required for health care services such as diagnosis treatment and prevention.

2) the simple equipment/furniture available locally.

3) the most advanced equipment to be utilized for research activities.

4) the equipment with some difficulties on installation / infrastructure conditions,

5) The expensive equipment less utilized because of small number of testing/less number of patients,

6) the equipment hazardous to environmental control,

7) the equipment only utilized with exclusive reagent kit available from the specific manufacturer, and

8) the equipment with financial/marketing difficulties on the procurement of consumable and spare parts etc.

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9. Japan's Grant Aid system

- 1) The Indian side understands the outline of the system of Japan's Grant Aid as explained by the team.
- 2) The Indian side will take necessary measures, as described in Annex II for the smooth implementation of the Project on the condition that the Grant Aid by the Government of Japan is extended to the Government of India.

10. Monitoring the achievement of the Programme

- 1) Ministry of Health and Family Welfare and L.H.M.C. have the responsibility of monitoring progress of all phases of the Project like funds allocated utilized, infrastructural development, equipment purchase, distribution, quality control, maintenance, manpower development, training etc. based on the indicators given in Annex III and reporting it to the Embassy of Japan and JICA India Office annually through Department of Economic Affairs, Ministry of Finance, after the completion of the Project.
- 2) L.H.M.C. will make inventory list on the equipment included in the Project. After the completion of the Project, L.H.M.C. will submit annual report on the condition of the Project through Ministry of Health and Family Welfare to the Embassy of Japan & JICA India Office.

11. Schedule of the Study

- 1) The consultants will continue to make further studies in India until December 31st, 1994.
- 2) JICA will prepare the draft report and dispatch a mission in order to finalize the contents of the report around April 1995
- 3) In case the contents of the report is accepted in principle by the Indian side, JICA will complete the final report and send it to the Government of India by June, 1995.

12. Other relevant issues

- 1) L.H.M.C. will complete and submit the detailed action plan of the Programme and the reply of the Questionnaire until December 20, 1994.
- 2) The Ministry of Health and Family Welfare will allocate the necessary budget (including counter part funds) and personnel for the Project.
- 3) The Ministry of Health and Family Welfare will get various internal clearance of the Government of India, as applicable, including expenditure / financial clearance.

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A. S. Choudhary
K. A. Choudhary

ANNEX-1-1)

1) Expansion or reinforcement of following functions

a) O. P. D.

- Reception (6 Cubicle)	1
- Examination & Treatment Rm	16
- Physical Medicine & Rehabilitation Rm	2
- Occupation Therapy Rm	1
- General Paediatric Rm	6
- Surgical Rm	2
- Orthopaedic Rm	2
- Dressing Rm	1
- Plaster Rm	1
- Eye OPD	1
- ENT OPD (with Soundproof Rm)	1
- Skin OPD	1
- Central Injection Rm	1
- Deputy Nurse Supt. Rm	1
- Assit. Nurse Supt. Rm	1
- Pharmacy/Dispensary	1
- Store (General & Medicine)	2
- Specimen Collection Rm	1
- Stretcher Rm	1

b) Radiology

- Reception	1
- X-Ray Rm	4
- Dark Rm	1
- Radiographer's Rm	1
- Ultrasound Rm	1
- Waiting Rm for Ultrasound Rm	1
- Radiologist Rm	2
- Technician's Rm	1

c) Laboratory

- Chemical Biochemistry Lab.	1
- Auto Analyser Rm	1
- Store for Biochemistry	1
- Common Lab. for Bacteriology & Parasitology	1
- Office Rm for Common Lab.	1

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- Technician's Rm for Common Lab.	2
- Store for Common Lab.	2
- Common Lab. for Hematology Lab. & Histopathology Lab.	1
- Immuno Hematology Lab.	1
- Office Rm	1
- ECG Rm	1
- ENG Rm	1
- EEG Rm	1
- Officer's Rm	1
- Doctor's Rm	1
- Store	1
d) Operation Theater	
- Reception	1
- Waiting Rm	1
- Operation Theater (1 Large, 2 Small)	3
- Changing Rm	2
- Scrubbing Rm	1
- Surgical ICU	1
- Recovery Rm	1
- Doctor's Rm	1
- OT Nurse' Rm	1
- Pre & Post Operation Rm (12 Bed)	1
- Store	1
- Central Supply & Sterilisation Rm	1
e) Emergency & ICU	
- Reception	1
- Treatment Rm	1
- Examination Rm	1
- Nurse Station	1
- Doctor's Rm	2
- Police Post Rm	1
f) ICU	
- Treatment Rm	1
- Examination Rm	1
- Nurse Station	1
- Isolation Rm	1
- Medical ICU (Glass Partition, 15 Bdx2)	2
- Laboratory	1

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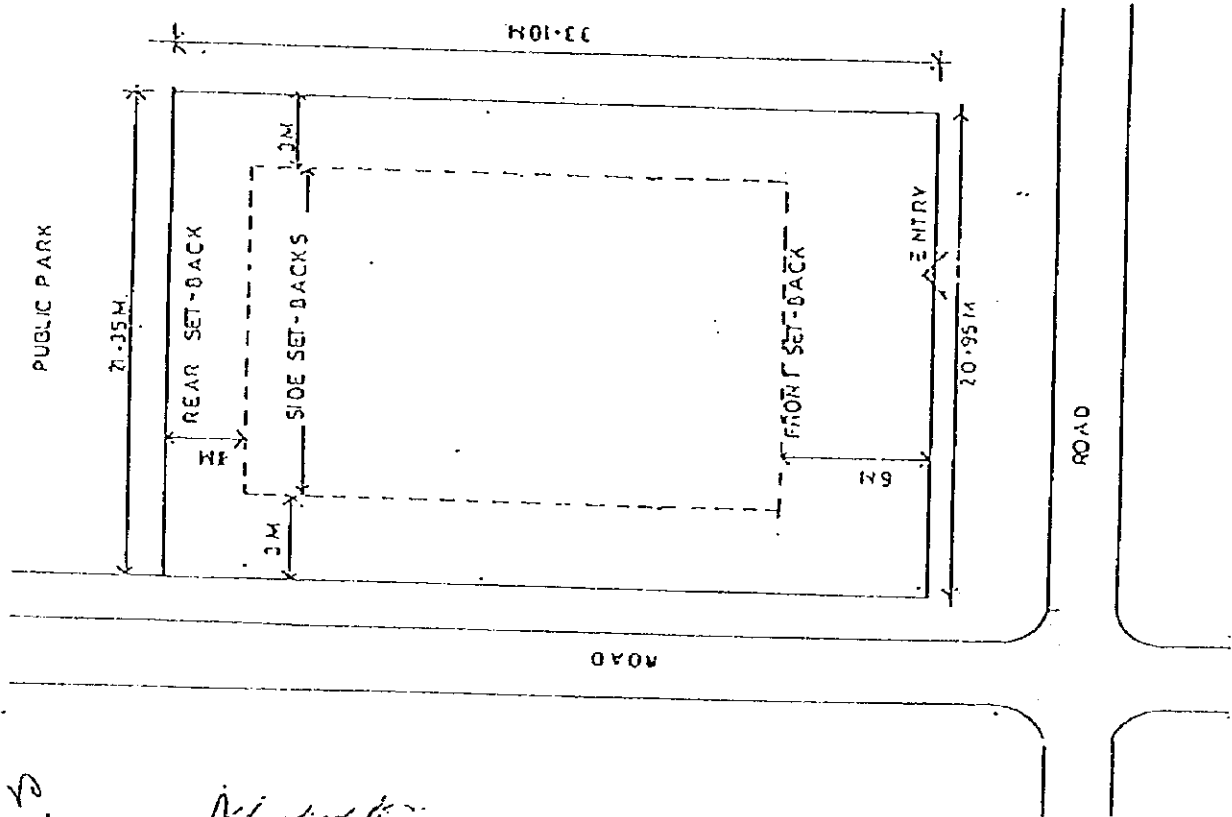
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- Doctor's Rm	2
- Store	1
g) Preventive & Social Medicine	
- Reception & Resistration Hall	1
- Immunization Rm	1
- Nutrition Councelling & Growth Monitoring	1
- Child Guidance Clinic (Large & Small)	2
- High Risk Clinic with soundproof Rm	1
- Malaria Clinic	1
- Family Welfare	1
- Medical Social Services	2
- Doctor's Rm	1
- Store	
h) DTTU	
- Doctor's Rm	1
- Treatment Rm	1
- Children' sitting Rm	1
- Health Education Rm	1
i) Others	
- Telephone Exchane Rm	1
- Laundry	
- Electric Power Substation	
- Manifold Rm Augmentation	
- Lift	2
j) Kalyanpuri Urban Health Center	
- Consultation Rm	4
- Medical Social Worker's Rm	1
- Health Education(Seminar Rm for 25-30)	1
- Minor OT	1
- Observation Rm	1
- Laboratory	1
- Injection Rm	1
- Dressing Rm	1
- Pharmacy/Dispensary	1
- Store (General & Medicine)	1
- Guard Rm	1
k) Rehabilitation of Palam PHC (Deep Tube Well)	
- Water supply up to newly provided high tank	

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PLANNING DATA AND NORMS :

- LAND AREA 700.07 Sq. M.
- PERMISSIBLE GROUND COVERAGE 33 1/3% OF PLOT AREA
- PERMISSIBLE F. A. R. 100
- PERMISSIBLE TOTAL COVERED ON ALL FLOORS 700.07 Sq. M.
- WIDTH OF STAIR CASE 1.25M.
- TREAD WIDTH 0.3M
- RISER 0.15M.
- LACK OF DRAINAGE SYSTEM, SO SEPTIC TANK
- LACK OF SUFFICIENT WATER SUPPLY SO BOREWELL WATER SUPPLY REQUIREMENT

KALYANPURI URBAN HEALTH CENTER
D E L H I

ANNEX 1-2) Requested Equipment List

DESCRIPTION	Q'TY	PRIORITY
1. RADIOLOGY		
1. X-RAY TV MONITOR, COMPATIBLE DOUBLE TUBE	1	1
2. COLOR DOPPLER ULTRASOUND SCANNER	1	1
3. DIAGNOSTIC X-RAY	1	3
4. MOBILE X-RAY UNIT	6	4
5. SERIAL FILM CHANGER	2	3
6. CONTRAST MEDIA PRESSURE INJECTOR	2	3
7. DARK ROOM EQUIPMENT	2	1
8. X-RAY PROTECTION WEARS	5	1
9. WEAR HANGER	5	4
10. X-RAY FILM CABINET	3	4
11. INSTRUMENT CABINET	3	4
12. PORTABLE ULTRASONIC DIAGNOSTIC APPARATUS	1	1
13. FILM VIEWER	5	4
2. OUTPATIENT		
1. EXAMINATING TABLE	8	3
2. EXAMINATING UNIT	8	3
3. STETHOSCOPE FOR DOCTOR	20	3
4. STETHOSCOPE FOR NURSE	20	3
5. HEMOGLOBIN METER	10	3
6. CLINICAL THERMOMETER	50	4
7. ULTRASONIC NEBULIZER	8	1(4)
8. SUCTION UNIT	8	1(4)
9. EXAMINING LIGHT	4	1
10. ELECTRO CARADIOGRAPH	4	1
11. DIAGNOSTIC SET	8	2
12. DOCTOR DESK	8	2
13. DOCTOR CHAIR	8	2
14. PATIENT CHAIR	8	2
15. FILM ILLUMINATOR, TWO HANGING TYPE	4	3
16. WEIGHING SCALE	4	3
17. HEIGHT MEASURING SCALE	4	3
18. EXAMINING INSTRUMENTS SET	12	1
19. SPHYGMOMANOMETER	4	3
20. MEDICINE CABINET	4	3
21. INSTRUMENT CABINET	4	3
22. DRESSING CART WITH DRAWERS	10	2
23. INSTRUMENT CART WITH 3 TRAYS	4	2
24. CRYOSURGICAL UNIT	2	2

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DESCRIPTION	Q'TY	PRIORITY
25. DIGESTIVE SYSTEM ULTRASOUND SCANNER	2	1
26. CHAIR FOR PATIENTS	8	3
27. EXAMINING BED	8	3
28. CLOTH BASKET	4	3
29. X-RAY FILM VIEWER	4	3
30. WASH BASIN STAND	8	3
31. TREATMENT BED	4	1
32. INJECTION STAND	8	2
33. INSTRUMENT TROLLEY	4	2
34. MEDICAL REFRIGERATOR	8	2
35. EXAMINATION BED	12	2
36. SPHYGMOMANOMETER	8	3
37. STETHOSCOPE	8	4
38. HIGHT/WEIGHING SCALE	4	4
39. KICK BUCKET	8	4
40. ELECTRO MYOGRAPH	1	1
3. ISOLATED ROOM		
1. INFANT INCUBATOR	12	1(6)
2. INFANT WARMER	12	1(6)
3. AUTOMATIC RESUSCITATOR	4	1
4. AUTOMATIC INFUSION PUMP	12	1(6)
5. IRRIGATING STAND, TWIN HANGER	8	2
6. INFANT BASSINET WITH MOBILE STAND	8	2
7. ULTRASONIC NEBULIZER	4	1
8. NEONATAL MONITOR	4	1
9. INFANT VENTILATOR	2	1
10. INSTRUMENT CART	4	2
11. INSTRUMENT CABINET	4	2
12. PHOTOTHERAPY UNIT	4	2
4. OPERATION ROOM		
1. OPERATING TABLE	4	1
2. SUCTION UNIT	8	1(4)
3. AUTOMATIC INFUSION PUMP	4	1
4. OPERATING LIGHT	4	1
5. ANESTHESIA MAC. WITH MONITORING SYS. & VENTILATOR	4	1
6. AUTOMATIC RESUSCITATOR	4	1(2)
7. DEFIBRILLATOR	4	1(2)
8. FILM ILLUMINATOR, TWO HUNGING	4	2
9. MULTI CHANNEL PATIENT MONITOR	4	1(2)

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Guard Asst. - 10 (16)
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DESCRIPTION	Q'TY	PRIORITY
10. FIBER OPTIC LARYNGOSCOPES	3	1(4)
11. NON-INVASIVE B.P. MONITOR	4	1(2)
12. ELECTRO CAUTERY	4	1
13. TABLE TOP STERILISER ELECTRIC	2	1
14. TABLE TOP E.O.G. STERILISER	1	1
15. PORTABLE LIGHTS	8	1(4)
16. EMERGENCY POWER UNIT	4	1
17. IRRIGATING STAND	8	2
18. INSTRUMENT TRAY TABLE	8	1(4)
19. INSTRUMENT CART WITH 3 TRAYS	8	1(4)
20. INSTRUMENT CABINET	4	1(2)
21. OPERATING INSTRUMENT SET	4	1
22. PATIENT WARMING SYSTEM	4	1(2)
23. OXYGEN TENT	4	1
24. ULTRASONIC NEBULISER	4	1
25. OXYGEN ANALYSER	4	1
26. SLIDING STRETCHER	4	1
27. RECOVERY STRETCHER	4	1
5. NEWBORN BABY ROOM		
1. BABY BASSINET WITH MOBILE STAND	4	1
2. INFANT EXAMINING/DRESSING TABLE	4	1
3. DIGITAL BABY SCALE	2	1
4. ULTRASONIC NEBULIZER	4	1
5. SUCTION UNIT, DIAPHRAGH TYPE	4	1
6. INFANT RESUSCITATOR	4	1
7. NURSING BOTTLE WARMER	4	3
6. PREMATURE BABY ROOM		
1. INFANT INCUBATOR	8	1(4)
2. INTENSIVE CARE INCUBATOR	4	1(2)
3. PHOTOTHERAPY UNIT	4	1(2)
4. APNEA ALARM	4	1(2)
5. AUTOMATIC INFUSION PUMP	4	1
6. NEONATAL MONITOR	4	1(2)
7. OXYGEN ANALYZER	4	1(2)
8. INFANT RESUSCITATOR	2	1
9. INFANT CARE CENTER	4	1
10. SYRINGE INFUSION PUMP	4	2
11. INFANT VENTILATOR	4	1(2)

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DESCRIPTION	Q'TY	PRIORITY
12. TRANSCUTANEOUS PO2/PCO2 MONITOR	2	1
13. SUCTION UNIT, DIAPHRAGM TYPE	4	1
14. BILIRUBIN ANALYZER	1	2
15. HEMATOCRIT CENTRIFUGE	1	1
16. ULTRASONIC NEBULIZER	2	1
17. INSTRUMENT CART	4	2
18. INSTRUMENT CART WITH 3 TRAYS	4	2
19. PORTABLE INFANT INCUBATOR	4	1(2)
20. OXYGEN TENT	4	1
21. OXYGEN HEAD BOX	4	1
7. WARD		
1. PATIENT BED	150	2
2. BEDSIDE CABINET	150	2
3. OVERBED TABLE	150	4
4. DOPPLER FETUS DETECTOR	4	1
5. OXYGEN TENT	10	1(6)
6. AUTOMATIC INFUSION PUMP	8	1(4)
7. SUCTION UNIT	12	1(6)
8. OXYGEN ANALYZER	8	1(4)
9. ULTRASONIC NEBULIZER	8	1(4)
10. SILICONE RESUSCITATOR	12	1(6)
11. OXYGEN INHALATION SET	6	2
12. FILM ILLUMINATOR	4	4
13. STRETCHER TROLLEY	4	1
14. HI-LO STRETCHER TROLLEY	4	1
15. DIAGNOSTIC SET	4	2
16. CHART FILM CART	4	2
17. INSTRUMENT CABINET	4	2
18. INSTRUMENT CART WITH 3 TRAYS	4	2
19. EXAMINING LIGHT	4	1
20. DRESSING CART WITH DRAWERS	4	1
21. MEDICINE CABINET	4	2
22. LAUNDRY BAG WITH CART	8	4
23. IRRIGATING STAND, TWIN HANGER	20	4
24. VACUUM CLEANERS	4	1
8. FEEDING, BATH AND MILK KITCHEN ROOM		
1. BREAST PUMP	4	1
2. NURSING BOTTLE STERILIZER	2	1

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DESCRIPTION	Q'TY	PRIORITY
3. NURSING BOTTLE WARMER	1	1
4. INFANT WARMER	2	1
5. DIGITAL BABY SCALE	2	1
6. INFANT LENGTH SCALE	2	2
7. INFANT STRETCHER	2	2
8. REFRIGERATOR	2	2
9. DRESSING CART	2	2
10. INFANT EXAMINATION DRESSING TABLE	2	1
9. CENTRAL OXYGEN SUPPLY		
1. AUGMENTATION TO EXISTING MANIFOLD AND PIPELINE FOR O2, NO2, AND SUCTION	1	1
10. EMERGENCY SERVICES		
1. PAGING SYSTEM	2	1
2. INCINERATOR (SMALL TO MEDIUM SIZE)	4	1(2)
11. TRANSPORT		
1. AMBULANCE WITH RESUSCITATIVE MEASURES 4WHEELER (DIESEL)	4	1
2. MINI BUS (15 SEATER)	2	1
3. 4 WHEELER (JEEP)/ PICKUP	1	1
12. AUTOPSY ROOM		
1. AUTOPSY TABLE WITH SHOWER	2	1
2. SHADOWLESS LIGHT, 5000 LUX	2	1
3. MORGUE REFRIGERATOR, TWO BODIES	2	1
4. PHOTOGRAPHIC UNIT WITH CAMERA	2	1
5. AUTOPSY INSTRUMENT SET	2	1
13. CENTRAL LABORATORIES		
A. CHEMICAL BIOCHEMISTRY		
1. BLOOD CELL COUNTER H	4	1
2. REERACTOMETER	1	1
3. BINOCULAR MICROSCOPE	2	1
4. PRECISION INVERTED MICROSCOPE	2	1
5. INCUBATOR, 150L	1	1
6. DRYING OVEN, 150L	1	1
7. VERTICAL STERILIZER, 50L	1	1
8. WATER BATH	2	1
9. MEDICAL REFRIGERATOR, 500L	2	2

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DESCRIPTION	Q'TY	PRIORITY
10. BLOOD BANK REFRIGERATOR. 480L	2	2
11. FREEZER, -45 DEG. C	1	1
12. STIRRER, DIA. 120cm/cm	1	1
13. MIXER FOR TEST TUBE	2	2
14. PH METER	2	3
15. TABLE TOP CENTRIFUGE	1	1
16. HEMATOCRIT CENTRIFUGE	1	1
17. REFRIGERATED CENTRIFUGE	1	1
18. ELECTRONIC BALANCE, 200g	1	2
19. DISTILLING APPARATUS, 5L/h	1	2
20. LABORATORY INSTRUMENT SET	2	2
21. SPECTRO PHOTOMETER	1	1
22. CELLULOSE ACETATE ELECTROPHORESIS APP.	1	1
23. IMMUNO AND AGAR ELECTROPHORESIS APPARATUS	1	1
24. ISOELECTRIC FOCUSING DISK GEL ELECTROPHORESIS APPARATUS	1	1
25. PH METER	2	1
26. THIN-LAYER CHROMATOGRAPHIC APPRATUS	1	4
27. HANDY URINE S.G. REFRACTOMETER	1	4
28. HANDY SERUM PROTEIN REFRACTOMETER	1	4
29. GLASSWARE FOR CLINICAL CHEMISTRY	1	1
30. SMALL ITEMS FOR CLINICAL CHEMISTRY	1	1
B. BACTERIOLOGY SECTION		
1. INCUBATOR	2	1
2. REFRIGERATOR	2	1
3. CO2 INCUBATOR	2	1
4. BOILING STERILIZER	2	1
5. MICROSCOPE	4	1
6. COLONY COUNTER	8	2
7. TABLE TOP CENTRIFUGE	2	1
C. PARASITOLOGY		
1. BINOCULAR MICROSCOPE	4	1
2. CENTRIFUGE	2	1
3. STAINING JAR	4	1
4. STAINING JAR STAND	4	1
5. STAINING BASKET	4	2
6. GLASSWARE FOR STAINING PREPARATION	8	2

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DESCRIPTION	Q'TY	PRIORITY
D. HEMATOLOGY SECTION		
1. HANDY TALLY COUNTER	4	1
2. MICROSCOPE	4	1
3. ELECTROPHORESIS APPARATUS	1	1
4. SPECTROPHOTOMETER	1	1
5. CENTRIFUGE	2	1
6. WATER DISTILLER	2	1
7. HOT AIR STERILIZER	1	1
8. AUTOCLAVE	2	1
9. SHAKER	2	1
10. COAGULOMETER	2	2
11. BLOOD GLUCOSE METER	4	2
12. STANDARD HEMOMETER	4	2
13. BLOOD SPREADDER	4	2
14. BLOOD SEDIMENTATOR	4	2
15. BILIRUBIN COLORIMETER	2	1
16. AUTOLET	1	2
17. COLONY COUNTER	4	1
18. DESICCATOR	2	1
19. LABORATORY SMALL INSTRUMENTS	2	1
20. GLASSWARE SET	4	1
21. PH METER	4	1
22. WATER BATH	4	3
23. BLOOD GLUCOSE METER	4	2
24. ULTRASONIC CLEANER	4	1
25. DONOR BED	2	2
26. BLOOD BANK REFRIGERATOR	4	1
27. INSTRUMENT CABINET	2	3
28. AUTO CELL COUNTER	2	1
29. HEMATOCRIT CENTRIFUGE	2	1
30. INSTRUMENT CABINET	4	2
31. ELISA SYSTEM	4	2
E. HISTOPATHOLOGY SECTION		
1. MICROSCOPE	8	1
2. SMALL ROTARY MICROTOM	2	1
3. SMALL SLIDING MICROTOM	2	1
4. FREEZING MICROTOM	2	1
5. PARAFFIN BATH	4	1
6. PARAFFIN SPREADING APPARATUS	12	1



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DESCRIPTION	Q'TY	PRIORITY
7. PARAFFIN VACUUM DRYING APPARATUS	12	1
8. PARAFFIN BURYING FRAMES	24	1
9. PARAFFIN BURYING DISHES	24	1
10. PARAFFIN PAN	4	1
11. PARAFFIN CUTTING AND SHOOthing IRON	12	1
12. PARAFFIN MOULDS	24	1
13. PARAFFIN BURYING CUTTER	2	1
14. BURYING BASKET	2	2
15. HISTOFUME HOOD	2	2
16. DETECTION STAND	4	2
17. BLOCK ADJUSTING BOXES	4	3
18. SPECIMEN BOXES	48	2
19. CARD FILING BOXES	48	2
20. TISSUE INFILTRATOR	12	2
21. HISTOLOGICAL DISSECTING APPARATUS	12	2
22. HOMOGENIZER	24	2
23. STAINING JAR	48	2
24. SLIDE BASKET	48	2
25. STAINING JAR HOLDER	48	2
26. VDRL SET	4	2
27. SERUM REACTION SLIDE	24	2
28. SERUM PIPETTES	48	2
29. TEST TUBE STAND	48	2
30. VIEW BOX	4	4
31. INCUBATOR	4	2
32. WATER BATH	4	2
33. MAGNETIC STIRRER	4	2
34. MINI MIXER	4	2
35. ELECTRONIC BALANCE	2	2
36. TIMER	12	1
37. SPECIMEN MODEL SET	24	2
38. HEMACYTOMETER	24	2
39. PIPETTE WASHER	24	2
40. PIPETTE WASH AND DRYER	12	2
41. BLOOD PIPETTE SHAKER	12	2
42. TEST TUBE HOLDER	24	2
F. IMMUNO HEMATOLOGY SECTION		
1. IMMUNO ELECTROPHORESIS APPARATUS	1	1
2. CENTRIFUGE	2	1
3. INCUBATOR	2	1
4. WATER BATH	2	2
5. MICROSCOPE	1	1
6. VDRL SET	3	3
7. FLOURESCENT HISCROSCOPE	1	1
8. PIPETTE WASHER	1	1

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DESCRIPTION	Q'TY	PRIORITY
G. COMMON USE		
1. SPECTROPHOTOMETER	1	1
2. FLAME PHOTOMETER	1	1
3. REFRIGERATOR	6	2
4. FREEZER DEEP	2	2
5. AUTOCLAVE	2	1
6. WATER DISTILLER	12	1
7. MEDICAL WASTE STERILIZER	2	3
14. I.C.U.		
1. PEDIATRIC VENTILATORS (NEONATAL)	2	1
2. VENTILATORS FOR OLDER CHILDREN	4	1
3. INCUBATORS	8	1(4)
4. BED SIDE MULTICHANNEL MONITORS	8	1(4)
5. OPEN CARE SYSTEM	4	1(2)
15. KIDNEY		
1. HEMODIALYSIS SYSTEM (FOR EMERGENCY)	4	1(4)
16. PHYSIOTHERAPY & REHABILITATION		
1. MICROWAVE THERAPY UNIT	1	1
2. ULTRASOUND THERAPY UNIT	1	1
3. AIR MASSAGER	1	1
4. WHIRL POOL BATH	1	1
5. TRACTION UNIT	2	2
6. MICROWAVE THERAPY APPARATUS	1	2
7. LOW FREQUENCY SIMULATOR	1	2
8. INFRARED RAY LAMP	2	2
9. ULTRAVIOLET LAMP	2	2
10. PARAFFIN BATH	1	2
11. SHOULDER WHEEL	1	2
12. WRIST ROLL MACHINE	1	2
13. BICYCLE EXERCISER	1	2
14. ROWING MACHINE	1	2
15. WALL STALL BARS	1	2

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DESCRIPTION	Q'TY	PRIORITY
16. WHEEL CHAIR	2	2
17. WALKER	2	2
18. PARALLEL BARS	2	2
19. EXERCISE STAIRS	2	2
20. DUMBELL SET	2	2
17. CENTRAL SUPPLY AND STERILIZATION		
1. HIGH PRESSURE STERILIZER	2	1
2. ULTRASONIC EQUIPMENT CLEANER	2	1
3. DRYER/STERILIZER	2	1
4. WASHER/DRYER FOR SURGICAL GLOVES	2	1
5. POWDER SPRAYER FOR SURGICAL GLOVES	4	1
6. ROOM PARTITION SYSTEM (FOR LINEN)	2	2
7. TRANSFER CART	4	1
8. STORAGE CABINET	4	1
9. DRESSING JAR	2	1
10. SINK UNIT	2	1
11. DRYING CABINET	6	1
12. TUBE WASHER	4	1
13. TUBE DRYING CABINET	4	1
18. ORAL HEALTH (DENTAL)		
1. ODONTOLOGICAL TREATMENTS UNIT WITH COMPRESSOR	4	1
2. ODONTOLOGICAL APPARATUS SET WITH CABINET	4	1
3. APPARATUS SET FOR DENTAL TECHNICIAN'S ROOM	4	1
4. HIGH SPEED STERILIZER (AUTOCLAVE)	2	1
5. OODONTOLOGICAL X-RAY SYSTEM WITH DEVELOPER	1	1
6. PORTABLE DENTAL UNIT FOR COMMUNITY DENTISTRY	1	1
7. GLASS BEAD STERILISERS	1	2
8. AMALGAMATORS	1	2
9. SUCTION MACHINES	4	2
10. DENTAL INSTRUMENT CABINET	2	2
11. DARKROOM EQUIPMENT SET	1	2
12. ULTRASONIC SCALER	4	2
13. PULP TESTER	1	2
14. DIAGNOSTIC KITS	1	2
15. INSTRUMENT SET FOR DENTISTRY	2	2
16. STRAIGHT ELEVATOR SET	2	2
17. CURVED ELEVATOR SET	2	2
18. ROOT ELEVATOR SET	2	2

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DESCRIPTION	Q'TY	PRIORITY
19. UPPER MOLAR FORCEPS	1set	1
20. UPPER PRE-MOLAR FORCEPS	1set	1
21. UPPER ANTERIOR FORCEPS	1set	1
22. UPPER ROOT FORCEPS	1set	1
23. LOWER MOLAR FORCEPS	1set	1
24. LOWER ANTERIOR FORCEPS	1set	1
25. HAND SCALER	1	1
26. PLASTIC INSTRUMENTS FOR RESTORATIVE TREATMENT	1	1
27. ENDODONTIC PLASTIC INSTRUMENTS	1	1
28. ENDODONTIC REAMER	1	1
29. MINOR ORAL SURGERY INSTRUMENTS	1set	1
19. PEDIATRIC ORTHOPAEDICS		
1. PEDIATRIC ORTHO. TABLE	1	1
2. SURGICAL APPARATUS SET FOR ORTHO. SURGERY	1	1
3. BONE FRACTURE ORTHO. APPARATUS	1	1
4. KNSCHER INTERMEDULLARY NAIL APPARATUS SET	12	2
5. ORTHOPEDIC LARGE FRAGMENT PLATE & SCREW SET SMALL FRAGMENT PLATE AND SCREW SET	12	2
6. STEEL WIRE TRACTION INSTRUMENT SET	12	2
7. ARTHROSCOPE APPARATUS SET - FOR SHOULDER/KNEE - FOR SMALL JOINTS - WRIST	1	2
8. ELECTRIC DRILL SET	1	2
9. ELECTRIC SURGICAL SAW	2	1
10. SPINAL SURGERY SET	4	1
11. NERVE STIMULATOR SYSTEM	2	1
12. BED FOR PARAPLEGIA STRYKER TYPE	4	1
13. AUTO TRANSFUSION MACHINE/FILTERS	2	2
14. COAGULATOR	2	2
15. ELECTRIC BONE DRILL SET	2	2
16. AIR PRESSURE SURGICAL OPERATION SET	4	1
17. WIRE TRACTION INSTRUMENT SET	4	1
18. HAND DRILL	2	1
19. FIXATION NAIL SET	4	1
20. BONE PLATE SET (SMALL MINI FRAGMENT)	4	1
21. BONE SCREW SET (SMALL MINI FRAGMENT)	4	1
22. BONE FRACTURE SET	4	1
23. FINGER BONE INSTRUMENT SET	4	2
24. ORTHOPEDIC OPERATING TABLE	1	2
25. PLASTER TABLE	1	1
26. GYPSUM CUTTER	1	1

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DESCRIPTION	Q'TY	PRIORITY
27. PNEUMATIC TOURNIQUETS WITH PRESSURE MONITOR (FULLY AUTOMATIC)	2	1
28. C-ARM T.V. SYSTEM	1	2
29. ELECTRIC DERMATOME WITH BLADES	2	2
20. OTORHINOLARYNGOLOGY DEPT. (E.N.T.)		
1. OTORHINOLARYNGOLOGY TREATMENT TABLE	1	1
2. MOBILE OPERATING LAMP	1	1
3. OPTICAL FIBER LIGHT SOURCE, FOR ENT	2	1
4. SURGICAL MICROSCOPE FOR ENT, PERIS, DISCUS. TYPE	1	1
5. ENDOSCOPIC SURGICAL APPARATUS FOR ENT	1	1
6. MICROSURGERY APPARATUS FOR EAR & THROAT	1	1
7. PEDIATORIC HEARING TESTER	1	2
8. OTORHINOLARYNGOLOGICAL TREATMENT UNIT WITH COMPRESSOR	1	2
9. INSTRUMENT SET FOR OTORHINOLARYNGOLOGY	2	2
10. AUDIOMETER	1	2
11. OTORHINOLARYNGOSCOPE	1	2
12. LARYNGEAL FIBERSCOPE	1	2
13. EARDRUM FIBERSCOPE	1	2
14. FIBERSCOPE LIGHT SOURCE	1	1
15. HEAD MIRROR	6	1
16. INSTRUMENT SET FOR ORL	1	1
17. INSTRUMENT CABINET	2	2
18. CRYOSURGERY UNIT	1	2
19. ENDOSCOPIC SINUS SURGERY UNIT WITH COLD LIGHT SYSTEM WITH VIDEO MONITOR & CTV	1	2
20. RHINOMANOMETER	1	2
21. ELECTRO COCHLEOGRAPHY	1	2
22. STERILIZER (HOT AIR)	1	2
23. DEEP FREEZER FOR STORAGE OF GRAFT MATERIALS	1	3
21. OPHTHALMOLOGY		
1. CRYOSURGERY UNIT	1	1
2. SLIT LAMP WITH CAMERA	1	1
3. PROJECTION PERIMETER	1	2
4. OPHTHALMOMETER OF JAVAL	1	2
5. SYNOPTOSCOPE	1	1
6. DIATHERMY UNIT FULL SYSTEM	2	1
7. AUTOREFRACTOMETER	1	1
8. CO-ORDINATOR	1	2
9. CATARACT SET MICROSURGERY	12	1

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DESCRIPTION	Q'TY	PRIORITY
10. GLAUCOMA SURGERY SET	2	1
11. RETINAL DETACHMENT SURGERY SET	2	1
12. IRIS HOOK AND LENS MANIPULATOR	2	1
13. KERATOPLASTY SET	2	1
14. INTRA OCULAR LENS FORCEPS	2	1
15. FORCEPS CORNEAL SUTURING	2	1
16. SCISSOR IRIS	12	1
17. SCISSOR CORNEAL VANNAS	12	1
18. INSTRUMENT SET FOR OPHTHALMOLOGY	1	1
19. ASPIRATION IRIGATION UNIT SIMCOE	2	1
20. INDIRECT OPHTHALMOSCOPE	2	1
21. OPHTHALMOSCOPE	2	2
22. THREE MIRROR UNIVERSAL CONTACT LENS	12	1
23. TONOMETER	2	1
24. FUNDUS CAMERA	1	1
25. OPHTHALMOMETER	1	1
26. SYNOPTOSCOPE	1	1
27. SLIT LAMP	1	1
28. PERIMETER	1	1
29. RETINOSCOPE	1	1
30. OPHTHALMIC INSTRUMENT FOR CRYOSURGERY	1	1
31. TRIAL LENS SET	1	2
32. JEST TYPE OBJECT CHART ILLUMINATING UNIT	1	3
33. INSTRUMENT STERILIZER	1	2
34. INSTRUMENT CABINET	2	4
35. REFRACTING UNIT (COMPLETE) WITH MOTORIZED CHAIR	1	2
36. PEDIATRIC TRIAL FRAMES	1	3
37. FOCIMETER OR VERTEXMETER	1	3
38. AUTOTONOGRAPHY INSTRUMENT	1	2
39. ECHO-SCAN (ULTRASONOGRAPHY A & B SCAN)	1	1
40. HAND HELD FUNDUS CAMERA ALONG WITH ACCESSORIES	1	2
41. OPHTHALMIC YAG LASER	1	1
42. ARGON LASER PHOTOCOAGULATOR WITH INDIRECT OPHTHALMOSCOPE DELIVERY & ENDOLASER	1	1
43. OPERATING MICROSCOPE WITH CO-OBSERVER TUBE WITH FOOTSWITCH OPERATION AND X-Y TRANSLATOR AND RECENTING DEVICE AND CLOSED CIRCUIT COLOURED TELEVISION FACILITY	1	1
44. VITREOUS-INFUSION, SUCTION CUTTER FOR VITRECTOMY, TENSECTOMY	2	1
45. STREAK RETINOSCOPE	2	1
46. PERKIN'S HAND HELD TONOMETER	2	2
47. COMPUTER WITH FACILITY FOR IMAGENET FOR ANALYSING FLUORESCENT ANGIOGRAPHY PICTURES	1	2

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DESCRIPTION	Q'TY	PRIORITY
48. ULTRASONOGRAPHIC CLEANER FOR MICROSURGICAL INSTRUMENTS	1	1
49. SINGLE MIRROR CONTACT LENS	1	1
50. PANFUNDOSCOPIC LENS	1	1
51. INDIRECT LENS	1	1
52. ABRAMS LENS	1	1
53. PHACOEMLSIFIER	1	1
22. DEPARTMENT OF MAINTENANCE - CENTRAL WORKSHOP		
A. SECTION OF IRONWORKS		
1. WELDING MACHINE FOR THEIR SHEETS	1	1
2. ARC WELDING MACHINE	1	1
3. SPOT WELDING MACHINE	1	1
4. DRILLING MACHINE	1	1
5. BENCH GRINDER	1	1
6. DRILL	1	1
7. PORTABLE CUTTER	2	1
8. DISC GRINDER	1	2
9. PIPE THREADING TOOL SET	2	2
10. PIPE BIAS (1/8 2") WITH STAND	2	3
11. PIPE CUTTER	2	2
12. GAS WELDING/CUTTING SET	1	2
13. CORD REEL	1	3
14. INSTRUMENT SHELF	1	3
15. IRON WORK TOOLS	2	3
16. TOOL CABINET	2	3
B. SECTION OF WOODEN WORKS		
1. PLANER-JOINTER	2	1
2. TABLE SAW	1	1
3. POWER PLANER	1	2
4. MORTISER	1	2
5. ROUTER	1	2
6. ZIG SAW	1	2
7. CURCULAR SAW	1	1
8. FINISHING SANDER	2	1
9. CORD REEL	1	2
10. INSTRUMENT SHELF	2	2
11. TOOL CABINET	2	2
12. GROOVE CUTTER	1	2
13. ANGLE CLAMP SET	1	2
14. HAND CLAMP SET	1	2
15. PLANER SET	1	2

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DESCRIPTION	Q'TY	PRIORITY
C. ELECTRIC SECTION		
1. MOTOR ROTOR BALANCE CONTROLLER	1	1
2. VARNISH DRYER (CABINET TYPE)	1	1
3. AUTOMATIC WINDING MACHINE	1	1
4. PHASE TESTER	1	2
5. MULTI TESTER	1	2
6. CLUMP TESTER	1	2
7. PHASE DETECTOR	1	2
8. MEG-OHM TESTER	1	2
9. SOLDERING IRON	1	2
10. CRAMPING PLYER	1	3
11. PIPE SCREW CUTTER	1	3
12. PIPE BIAS (1/8 2") WITH STAND	1	3
13. PIPE CUTTER	1	3
14. PORTABLE CUTTER	2	2
15. WIRE STRIPPER	2	3
16. CORD REEL	1	3
17. INSTRUMENT SHELF	2	3
18. TOOL CABINET	2	3
19. ELECTRIC WORK TOOL SET	2	3
D. SECTION OF ELECTRONIC WORK		
1. OSCILLOSCOPE 50-100 MHZ	1	1
2. LCR METER	1	1
3. DC POWER SUPPLY	2	2
4. DIGITAL MULTIMETER	1	1
5. MEG-OHM TESTER	1	2
6. SLIDE RESISTOR	1	3
7. THYRISTOR VOLTAGE REGULATOR	2	2
8. PORTABLE AC CURRENT METER	1	2
9. PORTABLE AC VOLTAGE METER	1	2
10. PORTABLE DC CURRENT METER	1	2
11. PORTABLE DC VOLTAGE METER	1	2
12. TRANSISTER TESTER	1	3
13. TEMPERATURE METER	2	3
14. CIRCUIT TESTER	1	3
15. TOOL SET	1	3
16. INSTRUMENT SHELF	2	3
17. BIOMEDICAL ENGINEERING EQUIPMENT	1	1

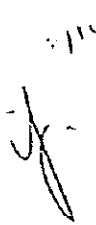
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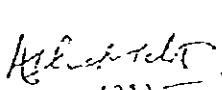
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DESCRIPTION	Q'TY	PRIORITY
E. PAINTING		
1. COMPRESSOR FOR PAINTING	2	1
2. SPRAYER FOR PAINTING	2	1
3. BRASS SET	1	2
4. SCRAPERS	1	2
5. VACUUM CLEANER	2	1
6. SMALL ITEMS FOR PAINTING WORKS	1	3
23. PAEDIATRIC DERMATOLOGY		
1. CRYOTHERAPY	1	1
2. DERMATOLOGICAL LASER FOR VASCULAR NAEVI	1	1
3. UVR THERAPY UNIT	1	1
4. WOOD'S LAMP	1	3
5. MICROSCOPE WITH PHOTOGRAPHY ATTACHMENT	1	1
6. SKIN BIOPSY PUNCHES (3mm, 4mm, 5mm)	1x3	2
7. AUTOMATIC SLIDE PROJECTOR	1	1
8. OVERHEAD PROJECTOR	1	1
9. MAGNIFYING LENSES	2	1
10. EXAMINATION BED	2	2
11. BIOPSY TRAYS	2	3
24. LAUNDRY		
1. WASHING MACHINE	4	1
2. DRYING TUMBLER	4	1
3. ROLL PRESS MACHINE	2	1
4. PRESS MACHINE	2	1
25. ENDOSCOPY		
1. PANENDOSCOPE	1	2
2. BRONCHOSCOPE	1	1
3. ESOPHAGOSCOPE	1	1
4. DUGDENOSCOPE	1	1
5. COLONOSCOPE	1	1
6. LAPAROSCOPE	1	1
7. ARTHROSCOPE	1	1
8. ENDOSCOPIC LIGHT SUPPLY	2	1
26. MEDICAL RECORD SECTION		
1. COMPUTER	4	1
2. REVOLVING LADDER	2	2
3. ELECTRONIC STAPLER	2	2

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DESCRIPTION	Q'TY	PRIORITY
4. ELECTROSTAT MACHINE	2	2
5. SHELF SEPARATOR	2	3
6. PATIENT RECORD SHELF	4	3
27. PREVENTIVE AND SOCIAL MEDICINE DEPARTMENT		
1. PERSONAL COMPUTER SYSTEMS	1	1
* C.P.U.s (80486 INTEL OR EQUIVALENT)		
* C.R.T.s (COLOUR SVGA)		
* PRINTERS a) HEAVY DUTY DOT MATRIX		
b) LASER JET		
2. U.P.S.	1	1
3. DATA STORAGE CABINET	1	1
4. COMPUTER SOFTWARE	1	1
WORD PROCESSOR		
STATISTICAL ANALYSIS PACKAGE		
GRAPHICS PACKAGE		
SCAN SOFTWARE		
5. PHOTOCOPY MACHINE	1	1
6. COMPUTER DESK & CHAIR	1	1
7. FLOPPIES	40	1
8. COMPUTER PAPERS	100	1
9. PHOTOSTAT PAPERS	100	1
10. DISK STORAGE CABINET	10	1
11. PRINTER RIBBONS	40	1
12. HARD DISK DRIVES	1	1
13. CARTRIDGE TAPE DRIVE	20	1
14. CARTRIDGE TAPES AND SOFTWARE FOR BACKUP	50	1
15. NET WORKING & RELEVANT OPERATING SYSTEM	1	1
16. MODEM (HIGH SPEED WITH CORRECTION SOFTWARE)	1	2
17. PORTABLE GENERATOR	2	1
18. SLIDE PROJECTORS	2	1
19. OVERHEAD PROJECTORS	2	1
20. PORTABLE VIDEO MONITOR	2	1
21. PORTABLE PA SYSTEM	2	1
22. VIDEO CAMERA SYSTEM	1	1
23. CAMERA WITH ZOOM LENS	2	1



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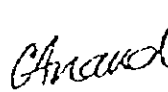
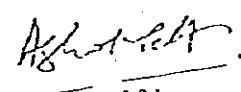
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DESCRIPTION	Q'TY	PRIORITY
28. PRIMARY HEALTH CENTERS		
A. EQUIPMENT		
1. STERILIZER TABLE MODEL	4	1
2. LABORATORY SMALL EQUIPMENT	4	2
3. SUCTION APPARATUS - NEONATAL (FOOT OPERATED)	4	1
4. OXYGEN CYLINDER WITH 2 REGULATORS WITH KEY STAND AND TUBING	4	1
5. PORTABLE RESUSCITATION SET	4	1
6. PORTABLE OXYGEN CONCENTRATOR	4	1
7. INCINERATOR	3	1
8. MINOR SURGICAL KIT	9	1
9. EXAMINATION TABLE	8	1
B. ADDITIONAL OBSTETRIC/PAEDIATRIC EQUIPMENTS		
1. OBSTETRIC TABLE	4	1
2. BLOWER	4	1
3. MINI LAP KIT (TUBECTOMY KIT)	4	1
4. MCH KIT	4	1
5. NEONATAL CARE KIT	4	1
6. FAMILY WELFARE KIT	4	1
7. EPISIOTOMY SCISSORS	4	1
8. NEEDLE HOLDER	4	1
9. DISSECTING FORCEPS TOOTH	4	1
10. DISSECTING FORCEPS NONTTOOTH	4	1
11. OBSTETRIC FORCEPS WRIGHLEY'S OUTLET	4	1
12. E.B. CURRETTE	4	1
13. SKIN RETRACTOR	4	1
14. DETACHABLE SCALPEL BLADE HANDLE	4	1
15. CAUTERY MACHINE	4	1
16. TOWEL CLIPS	4	1
C. HIGH RISK PREGNANCIES KIT		
1. OBSTETRIC TABLE	8	1
2. ARTERY FORCEPS (CURVED AND STRAIGHT)	48	2
3. SPONGE HOLDING FORCEPS	12	1
4. DISSECTING FORCEPS (TOOTH AND NON-TOOTH)	14	1
5. UTERINE SOUND	4set	1
6. SCALPEL BLADE HANDLE	2	1
7. UMBILICAL CLAMP	2	1
8. MOSQUITO FORCEPS (STRAIGHT AND CURVED)	48	1
9. DOYEN'S RETRACTOR	8	1

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DESCRIPTION	Q'TY	PRIORITY
10. KOCHER'S FORCEPS (STRAIGHT AND CURVED)	20	1
11. MATERNITY CRADLE	12	4
12. STERILIZER (SMALL) TABLE MODEL	1	1
13. STERILIZER (MEDIUM)	1	1
14. OBSTETRIC FORCEPS (SIMPSON'S AND WRIGLEY'S)	4	1
15. ABDOMINAL RETRACTOR	4	1
16. SHADOWLESS LAMP (PEDESTAL)	6	1
17. INSTRUMENT TROLLEY	4	2
18. WEIGHING MACHINE (NEWBORN)	4	1
19. PORTABLE RESUSSITATION SET	4	1
20. METAL CATHETER	1	1
21. CERVICAL PUNCH BIOPSY	12	1
22. EB CURRETTE	4	1
23. CAUTERY MACHINE	2	2
24. RUBBIN'S CANNULA	12	2
25. GREEN ARMYTAGE CLAMP	4	2
26. SUCTION APPARATUS (HIGH VACUUM)	4	2
29. ADMINISTRATION - HOSPITAL		
1. PERSONAL COMPUTER WITH LASER PRINTER AND MONITOR	2	1
2. PHOTOSTAT EQUIPMENT	4	1(2)
3. PUBLIC ADDRESS SYSTEM	3	1
4. AIR*CONDITIONER FOR ABOVE SOFTWARE	2	1
5. FILING RACKS	8	1
6. AUTOHATIC STENCIL MACHINE	2	1
7. CALCULATOR MACHINE	4	1
8. STAPLAR MACHINE BIG SIZE	4	1
9. WEIGHING MACHINE FOR DESPATCH OF MAIL	2	1
10. TYPEWRITER BILINGUAL (ENGLISH & HINDI)	4	12
11. VACUUM CLEANER	2	1
30. PHOTOGRAPHIC SECTION (COMMON)		
1. CAMERA WITH ZOOM LENS AND ACCESSORIES FOR TAKING PHOTOGRAPHS OF CHARTS, DIAGRAMS, SPECIMENS	3	1



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Japan's Grant Aid

1. Japan's Grant Aid Procedures

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

- (1) Application (Request made by a recipient country)
- Study (Basic Design Study conducted by JICA)
- Appraisal & Approval (Appraisal by the Government of Japan and approval by Cabinet.)
- Implementation (The Notes exchanged between the Government of Japan and the recipient country.)

(2) At the First step, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid.

If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

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

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

At the fourth step, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Government of Japan and the recipient country.

2. Basic Design Study

(1) Content of the study

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

- 1) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the

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- recipient country necessary for the Project's implementation.
- 2) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid scheme from a technical, social and economic point of view.
 - 3) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
 - 4) Preparation of a basic design of the Project
 - 5) Estimation of costs of the Project

The contents of the original request are not necessarily approved in their initial form as the contents of the grant aid project. The basic design of the Project is confirmed considering the guidelines of Japan's Grant Aid scheme.

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

(2) Selection of Consultants

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

The consulting firm(s) used for the Study is (are) recommended by JICA to the recipient country to also work on Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also avoid any undue delay in implementation should the selection process be repeated.

3. Japan's Grant Aid Scheme

(1) What is Grant Aid ?

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

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(2) Exchange of Note (E/N)

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

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

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

(4) The Grant is used properly and exclusively for the purchase of products. Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

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

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

(5) Necessity of the "Verification".

The government of the recipient country or its designated authority will conclude contracts in Japanese yen with Japanese nationals.

Those contracts shall be verified by the Government of Japan. The "verification" is deemed necessary to secure accountability to Japanese taxpayers.

(6) Undertaking required of the Government of recipient country.

In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the following:

- 1) To secure land necessary for the sites of the Project and clear, level and reclaim the land prior to commencement of the construction.
- 2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the site.
- 3) To secure buildings prior to the procurement in case the installation of the equipment.

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- 4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- 5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- 6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) "Proper Use"

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

(8) " Re-Export "

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

(9) Banking Arrangement (B/A)

- 1) The government of the recipient country or its designated authority should open an account in the name of Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank") The Government of Japan will execute the Grant Aid by making payments in Japanese Yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.
- 2) The payment will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the government of the recipient country or its designated authority.

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MONITORING AND EVALUATION OF THE PROJECT

It is proposed that Monitoring and Evaluation be inbuilt in the project right at the planning stage. Initially the focus will be to monitor the progress of the project in terms of inputs from the Government of Japan and Government of India. Major components of the project to be monitored will be :

INPUTS

Government of Japan

Government of India

- 1) Funds allocated According to time frame
Funds released
Funds utilized For the purpose funds allocated
- 2) Infrastructural Building * Time frame
development e.g. Operation * Quality
Theatres
Labs.
Year Wise 1995-96 1996-97 --- 98-99 99-2000

3) Equipment

- * Funds allocated (date) Amount
- * Equipment Supplied " "
- Purchased " "
- * Method of quality control

Is there a system to check the supplies in terms of quality/quantity/specifications.

- * Time gap in supply and installation.
- * Training of the manpower handling equipment

Category of staff training

Duration of training

Place of training

Are the people trained - satisfied with training in relation to

- knowledge
- skills how to use the equipment
- have they developed confidence to use the equipment
- Was this training only theoretical by lectures and demonstration slides etc. or it was on the job?

- Is the trainee confident to use the items independently.
- Are the job aids available.
- Is the log book being maintained ?
- Who is responsible for maintaining log book - how often it is to be checked by technical staff.
- Is there a maintenance contract for a particular equipment ?
- Is the telephone number and address available to all the staff members using it
- When was the last breakdown noticed.
- What was the action taken ?
- What was the interval between breakdown and repairs.
- What is the number of investigations done during the last one year
- Is this investigation facility available to all the patients ?
- Any money charged for investigations ?
- Has the equipment been lying idle for want of - Staff, - accessories
If yes : what action is taken.

4) Manpower development

- Are any new jobs created for _____ section.
- Has the staff been employed.
- Is there any plan for pre-service + Inservice training.
- In case the existing staff is handling the equipment - has this person given sufficient training to handle the equipment/carry out procedures.

5) Training

- Funds allocated
- What is the proportion to total budget allocation for training.
- Funds utilised for training out of the total allocation for the previous year.
- How many persons are trained category wise to handle a particular equipment ?
- What is the arrangement during the absence/leave of technical staff
- to carry out the procedure/handle equipment.

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MEASURE OF

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IMPACT

- | | | |
|--|--|---|
| <ul style="list-style-type: none">• Baseline data
1994-95 97-98• Physical Infrastructure• Staffing• Staff presence• Availability of drugs• Supervision• Basic knowledge
Skills• Imm. coverage• Regularity of staff
Meetings• Availability of transport• Job Aids available• Regular continuous
Supportive services<ul style="list-style-type: none">- Water supply- Electricity- Oxygen supply- Voluntary Blood
donation- Regularity of staff/
Board meetings | <ul style="list-style-type: none">- duration of stay- outcome of admission- case fatality
LAMA- admissions- No. referred cases- Improved attendance.
in OPD- Improved patient
satisfaction- Improved attendance in
follow up clinics. | <ul style="list-style-type: none">- Cost of treatment- Case fatality- Complications- Health services
utilization- CHPC- ANC- Arrange change in
utilization rates. |
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(2) ドラフト・レポート現地説明時

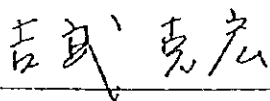
MINUTES OF DISCUSSIONS
ON
THE BASIC DESIGN STUDY ON THE PROJECT FOR
THE IMPROVEMENT OF KALAWATI SARAN CHILDREN'S HOSPITAL
IN
INDIA
(CONSULTATION ON THE DRAFT REPORT)

In November and December 1994, the Japan International Cooperation Agency (JICA) dispatched Basic Design Study Team on the Project for the Improvement of Kalawati Saran Children's Hospital (hereinafter referred to as "the Project") and through discussions, field surveys, and technical examination of the results in Japan, JICA has prepared the draft report of the study.

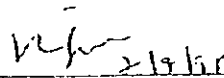
In order to explain and to consult with the concerned of the Government of India on the components of the draft report, JICA sent to India a study team (hereinafter referred to as "the Team"), which is headed by Dr. Katsubiro YOSHITAKE, Sr. Consultant Pediatrician, Chief, MCH Section, Sr. Coordinator, Expert Service Division, Bureau of International Cooperation, International Medical Centre of Japan, Ministry of Health & Welfare, and is scheduled to study in the country from 2nd to 11th April 1995.

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

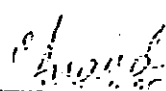
Dellu, 7th April, 1995



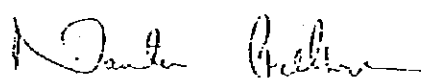
Dr. Katsubiro YOSHITAKE
Leader
Basic Design Study
Draft Report Explanation Team
Japan International Cooperation Agency
(JICA)



Mr. D. N. Narasimha RAJU
Deputy Secretary
Ministry of Finance
Department of Economic Affairs



Director Prof. Chandrama ANAND
Principal and Medical Superintendent
Lady Hardinge Medical College
(L.H.M.C.)



Mrs. Namita Pradhan
Director
International Health Dept. of Health
Ministry of Health & Family Welfare

ATTACHMENT

1. COMPONENTS OF THE DRAFT REPORT

The Indian side has agreed and accepted in principle the components of the draft report including the tentative schedule of implementation which were proposed by the Team.

2. JAPAN'S GRANT AID SYSTEM

2-1 The Indian side has understood Japan's grant aid system explained by the Team.

2-2 The Indian side will take necessary measures described in ANNEX I and the draft report for the smooth implementation of the Project in case Japan's grant aid is extended.

3. TENTATIVE SCHEDULE OF IMPLEMENTATION OF THE PROJECT

3-1 According to the tentative schedule of implementation proposed by the Team, to which the Indian side has agreed, the Project will be divided into two phases. Therefore, two separate Exchange of Notes (E/N) will be necessary to be signed between the two countries for each phase of the Project in case Japan's grant aid is extended.

3-2 The Indian side will take necessary measures in order to get the approval for implementation of the Project from Expenditure/Finance Committee (EFC) and to allocate enough budget for the counterpart fund for the Project, prior to the commencement of each phase of the Project without any delay based on the tentative schedule of implementation.

3-3 The Indian side has stated that they will get the approval of second phase of the Project from EFC immediately after getting that of first phase.

4. FURTHER SCHEDULE OF THE BASIC DESIGN STUDY

4-1 The Team will continue the supplemental studies up to 11th April.

4-2 JICA will make the final report in accordance with the confirmed items, and send it to the Government of India around June, 1995.

5. MONITORING & EVALUATION

5-1 Ministry of Health & Family Welfare and L.H.M.C. have the responsibility to conduct monitoring and evaluation periodically. A coordination committee will be constituted by Principal and Medical Superintendent (PMS) of L.H.M.C. as described

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in ANNEX II. This will have two advantage:

(a) An up-date information of the yearly performance will be readily available to be passed on to both the Government of India and the Government of Japan to show the results of the Project inputs.

(b) It will also help the implementing agency in day to day monitoring of various activities.

5-2 The coordination committee will work out the details for monitoring indicators for each unit. A baseline survey will be carried out before the completion of the Project in order to see the progress over a time period. The committee will have a few sub-committees who will be assigned the task of monitoring and evaluation of certain defined units. The committee will meet once in a quarter to monitor the progress of various activities.

5-3 The committee will finalize Questionnaire on Monitoring/Evaluation Indicators which was proposed in the draft report, and submit to the Embassy of Japan and the JICA Office through Ministry of Health & Family Welfare and Department of Economic Affairs around May, 1995.

5-4 The committee will submit annual report to the Embassy of Japan and the JICA Office in the first quarter of the subsequent year through Ministry of Health & Family Welfare and Department of Economic Affairs.

6. OTHER RELEVANT ISSUES

6-1 Ministry of Health & Family Welfare will allocate proper amount of budget and to assign personnel in order to maintain as well as to use properly and effectively the physical facilities and equipment procured under the Project.

6-2 The Indian side has stated that they will submit official request for the project type technical cooperation, especially annual implementation of staff training in Japan and experts dispatch from Japan, in order to execute the Project most effectively and to help assess the Project.

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ANNEX I
NECESSARY MEASURES TO BE TAKEN BY THE GOVERNMENT OF
INDIA IN CASE JAPAN'S GRANT AID IS EXTENDED:

1. To provide the Japanese side with the data and information necessary for the implementation of the Project.
2. To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities.
3. To secure the land necessary for the execution of the Project and provide enough space for construction of such items as temporary site office, warehouse and storage yard for equipment and materials during the implementation period.
4. To demolish or remove and relocate any existing utilities, facilities that may interfere the works and area of the Project.
5. To clear and level the site prior to the commencement of the Project.
6. To provide electric power (11kV, 100kVA), telephone (6lines) and water supply for construction of work prior to the commencement of the Project.
7. To undertake incidental external works such as gardening, fencing, and making gates within and around the sites.
8. To bear advising commissions of the Authorization to Pay (A/P) and payment commission to the Japanese foreign exchange bank for the banking services based on the Banking Arrangement (B/A).
9. To assist prompt unloading by ensuring customs duties exemption and customs clearance of the equipment and materials for the Project at the port of disembarkation.
10. To accord Japanese nationals, whose services may be required in connection with the supply of the products and the services under the verified contracts, such facilities as may be necessary for their entry into India and stay therein for the performance of their work.
11. To exempt Japanese nationals involved in the Project from customs duties, internal taxes including sales tax and other fiscal levies which may be imposed in India with respect to the supply of the products and the services under the verified contracts.
12. To bear all the expenses other than those to be borne by the grant, necessary in connection with the implementation of the Project.

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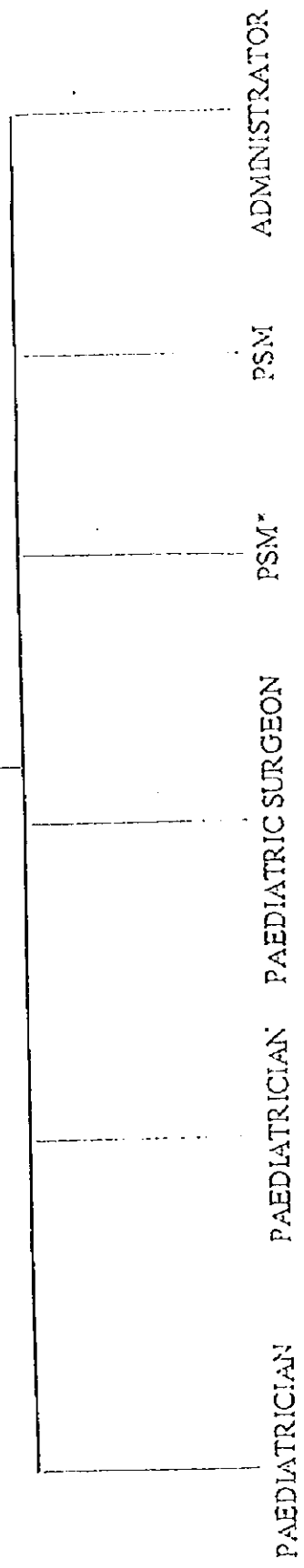
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ANNEX II
ORGANIZATION OF COORDINATION COMMITTEE OF MONITORING AND EVALUATION

CHARMAN
PRINCIPAL/VICE PRINCIPAL



*PSM: Preventive Social Medicine

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5. 地質調査結果

(1) カラワティサラン国立小児病院

SOIL PROFILE		Kalawati Saran Hospital - Project at LHM Campus.		S.H. No. 2		Table No. 2a.								
		Co-ordinates		Termination Depth 20.00m		Water Table 6.10m		Job No. 94216-A						
N-Value	Depth (Meters)	Sample No.	SOIL DESCRIPTION	Grain Size Analysis					Triaxial Test					
				Gravel%	Sand%	Silt%	Clay%	Liquid% Plastic%	Natural Density gms/cc	Moisture Content%	Confining Pressure Kg/cm ²	Angle of Internal Friction		
5	0.50	DS1	FILL: Loose light brown sandy silt brick bats and boulders (3.0m)	0	22	68	10	31.1	21.1					
	1.00	SPT1												
10	1.50	DS2	Loose light brown sandy silt with gravel, low plastic (5.6m)	8	40	44	8	27.5	19.5					
	1.95	SPT2												
9	2.25	DS2	Loose light brown sandy silt with gravel, low plastic (5.6m)	2	31	54	13	30.0	20.5					
	2.55	SPT3												
14	3.00	DS2	Stiff brown clayey silt with traces of, gravel, medium plastic (MI)	11	18	54	17	34.0	23.5	1.83	18.7	1,2,3 (UUT)	0.70	12°
	3.45	DS2												
15	4.50	SPT4	Stiff brown clayey silt with traces of, gravel, medium plastic (MI)	2	12	61	25	39.5	27.7	1.90	20.3	1,2,3 (UUT)	0.75	10°
	4.95	SPT5												
14	5.25	SPT6	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)	UUT:	Unconsolidated	Undrained Triaxial Shear Test.								
	5.55	SPT6												
20	6.00	DS2	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)											
	6.45	DS2												
	7.50	SPT7	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)											
	7.95	SPT7												
	8.25	DS2	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)											
	8.55	DS2												
	9.00	SPT7	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)											
	9.45	SPT7												
	9.50	DS2	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)											
	9.75	DS2												
	10.50	SPT7	Medium dense light brown sandy silt with traces of gravel, low plastic (ML) (10.m)											
	10.95	SPT7												



SOIL PROFILE

Project: Kalawati Saran Hospi-
fai at LHM Campus.
Co-ordinates: Termination Depth
20.00m


B. H. No. 2b (Contd.)
Water Table
6.10

Table No. 2b
Job No. 94216-A

N-Value	Depth (Meters)	Sample No.	SOIL DESCRIPTION	Grain Size Analysis				Limits			Triaxial Test			
				Gravel%	Sand%	Silt%	Clay%	Liquid%	Plastic%	Natural Density g/mcc	Moisture Content%	Confining Pressure Kg/cm ²	C	Angle of Internal Friction
	11.25	UDS4	- with traces of gravel, 10.0 to 11.6m.	3	29	55	13	31.8	22.0	1.95	21.7	1,2,3 (UUT)	0.65	13°
	11.55			0	21	65	14	33.0	23.0					
22	12.00	SPT8												
	12.45													
	13.50	SPT9												
	13.95													
	13.50	DS3		0	30	60	10	29.2	20.3					
	13.70													
	14.25	UDS5		0	27	56	17	33.4	23.6	2.01	22.5	1,2,3 (UUT)	0.7	13°
	14.55													
21	15.00	SPT10												
	15.45													
24	16.50	SPT11		3	29	55	13	30.8	21.2					
	16.95													
	17.25	DS4		0	38	52	10	27.4	19.0					
	17.50													
21	18.00	SPT12	- with traces of gravel, below 18.0m	2	30	54	14	21.3	21.6					
	18.45													
24	19.55	SPT13	(20.0m)											
	20.00													

UUT: Unconsolidation Undrained Triaxial Shear Test.

(2) カリヤンブリアーバンヘルスセンター

		SOIL PROFILE		Project: Urban Health Centre Kalyanpuri, New Delhi		B. H. No. 2		Table No. 2							
				Co-ordinates		Termination Depth 10.00m		Water Table 3.50m		Job No. 94216-B					
N-Value	Depth (Meters)	Sample No.	SOIL DESCRIPTION	Grain Size Analysis				Limits			Triaxial Test				
				Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Natural Density g/m ³	Moisture Content %	Confining Pressure Kg/cm ²	C	Angle of Internal Friction	
	0.10	OS1	10cm Thick PCC Pavement (0.1m)												
	0.40		FILL: Loose light brown sandy silt mixed with clay, gravels & brick bats (0.4m)												
	0.50	DS2	Loose light brown sandy silt with traces of gravel, low plastic (ML)					31.2	22.1						
	1.00														
10	1.50	SPT1	Firm brown clayey silt, medium plastic (MI)	0	6	54	40	43.2	29.7						
	1.95														
	2.25	UDS1		0	5	58	37	41.4	28.4	1.79	16.0	1,2,3 (UUT)	0.70	13°	
	2.55														
7	3.00	SPT2						40.0	27.5						
	3.45														
9	4.50	SPT3	Medium dense light brown fine sand with mica particles (SP-SM)	0	92	8	0								
	4.95														
	5.25	UDC?		0	93	7	0			1.89	20.0	0.5, 1.0, 1.5 (DS)	0	33°	
	5.55														
14	6.00	SPT4	Medium dense light brown fine sand with mica particles (SP)	0	95	5	0								
	6.45														
16	7.50	SPT5		0	95	5	0								
	7.95														
	8.50	DS3		0	96	4	0								
	9.55	SPT6		0	96	4	0								
19	10.00														

国名	インド	*1
	India	

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一般指標					
政体	連邦共和制	*1	首都	ニューデリー	*1
元首	President Shankar SHARMA	*1	主要都市名	ボンバイ、デリー、マドラス	*1
独立年月日	1947年8月15日	*1	経済活動可人口	398,000千人 (1995年)	*4
人種(部族)構成	インド・アーリア族72%、ドラヴィダ族	*1	義務教育年数	8年間 (1996年)	*5
	25%		初等教育就学率	% (年)	*5
言語・公用語	ヒンズー語、英語、他20余言語	*1	初等教育終了率	% (年)	*6
宗教	ヒンズー教80%、回教14%	*1	識字率	51.2 % (1994年)	*7
国連加盟	1945年10月	*2	人口密度	314.99人/Km ² (1995年)	*1
世銀加盟	1945年12月	*3	人口増加率	1.8 % (1995年)	*1
IMF加盟	1994年08月	*3	平均寿命	平均 59.04 男 58.5 女 59.61	*1
面積	3,287.59千Km ²	*1	5歳児未満死亡率	115/1000 (1995年)	*7
人口	936,545.800千人 (1995年)	*1	カロリー供給量	2,395.0 cal/日/人 (1992年)	*7

経済指標					
通貨単位	ルピー	*1	貿易量	(1996年)	*8
為替(IUSS)	1USS=35.71 (1997年07月)	*8	輸入	33,054.0 百万ドル	*8
会計年度	4月~3月	*1	輸出	37,375.0 百万ドル	*8
国家予算	(1995年)	*9	輸入カバー率	5.2月 (1995年)	*10
歳入	44,533.9 百万ドル	*9	主要輸出品目	宝石、衣服、工業製品 (1995年)	*1
歳出	53,757.7 百万ドル	*9	主要輸入品目	原油、石油製品、肥料 (1995年)	*1
国際収支	-731.00 百万ドル (1995年)	*9	日本への輸出	2,843.4 百万ドル (1996年)	*11
ODA受取額	1,738.00 百万ドル (1995年)	*7	日本からの輸入	2,433.4 百万ドル (1996年)	*11
国内総生産(GDP)	324,082.00 百万ドル (1995年)	*4			
一人当たりGNP	340.0 百万ドル (1995年)	*4	外貨準備総額	26,348.0 百万ドル (1997年7月)	*8
GDP産業別構成	農業 29.0 % (1995年)	*4	対外債務残高	13,123.0 百万ドル (1995年)	*10
	鉱工業 29.0 % (1995年)		対外債務返済率	28.2 % (1995年)	*10
	サービス業 41.0 % (1995年)		インフレ率	8.1 % (1993年)	*7
産業別雇用	農業 64.0 % (1990年)	*7			
	鉱工業 16.0 % (1990年)				
	サービス業 20.0 % (1990年)		国家開発計画	第8次開発5ヵ年計画 92/93~97/98	*12
経済成長率	4.6 % (1995年)	*4			

気象(~ 年平均)		場所: Delhi											(標高 218 m)
月	1	2	3	4	5	6	7	8	9	10	11	12	平均/計
最高気温	21.0	24.0	31.0	36.0	41.0	39.0	36.0	34.0	34.0	34.0	29.0	23.0	31.8℃
最低気温	7.0	9.0	14.0	20.0	26.0	28.0	27.0	26.0	24.0	18.0	11.0	8.0	18.2℃
平均気温													℃
降水量	23.0	18.0	13.0	8.0	13.0	74.0	180.0	173.0	117.0	10.0	3.0	10.0	642.0mm
雨期乾期													

*1 CIA World Fact Book 1996-1997

*2 States Members of United Nations

*3 International Financial Statistics Yearbook 1996

*4 World Development Report 1997

*5 UNESCO Statistical Yearbook 1996

*6 Status and Trends 1997

*7 Human Development Report 1997

*8 International Financial Statistics September 1997

*9 International Financial Statistics Yearbook 1997

*10 Global Development Finance 1997

*11 世界の国一覧表 1997年版

*12 最新世界各国要覧 97年版

*13 The Times Book World Weather Guide, Update Edition

*14 理科年表, 国立天文台(1996)

国名	インド	*1
	India	

1997.11 2/2

*15

項目	年度	1992	1993	1994	1995
技術協力		2,699.97	2,892.93	3,087.67	2,796.65
無償資金協力		2,194.95	2,244.22	2,456.48	3,256.28
有償資金協力		5,852.05	3,939.97	4,352.21	3,878.11
総額		10,746.97	9,077.12	9,896.36	9,931.04

*15

項目	年度	1992	1993	1994	1995
技術協力		16.62	17.73	23.61	25.39
無償資金協力		23.94	31.03	34.64	37.41
有償資金協力		384.64	247.18	828.28	443.62
総額		425.20	295.94	886.53	506.42

*16

	贈与 (1)	有償資金協力 (2)	政府開発援助 (ODA) (1)+(2)=(3)	その他政府資金 及び 民間資金 (4)	経済協力総額 (3)+(4)
二国間援助 (主要供与国)	779.00	272.20	1,051.20		1,051.20
1. 日本	62.80	443.60	506.40		506.40
2. ドイツ	114.50	53.50	168.00		168.00
3. イギリス	140.80	1.40	142.20		142.20
4. オランダ	137.20	-55.40	81.80		81.80
多国間援助 (主要援助機関)	215.60	504.00	719.60		719.60
1. IDA					
2. CEC					
その他	0.10	-27.00	-26.90		-26.90
合計	994.70	749.20	1,743.90		1,743.90

*17

技術	関係局中央政府→大蔵省
無償	
協力隊	

*15 Japan's ODA Annual Report 1996

*16 Geographical Distribution of Financial Flows to Aid Recipients 1991-1995

*17 国別協力情報(JICA)

SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

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TEST CERTIFICATE



Issued to:
The Addl. Medical Superdt.,
Kalawati Saran,
Children's Hospital
Bangla Sahib Marg,
New Delhi

No.	1596 9	412-040-0706-
Date:		2532 28.12.94

sr

Sample Particulars:

One sample of water collected by our representative on 15/12/94 from bio chemistry lab was received.

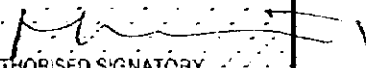
Your Ref. No.: ---

Date: ---

TEST RESULTS

1.	Nitrate Nitrogen as N, mg/L	: 10
2.	Chloride as Cl, mg/L	: 274
3.	Potassium permanganate value, mg/L	: 0.1
4.	Total colonies per 100 ml	: Not detected
5.	Coliform group	: Not detected
6.	Cyanide as CN, mg/L	: Not detected
7.	Mercury as Hg, mg/L	: Not detected
8.	Phosphate as P, mg/L	: Not detected
9.	Copper as Cu, mg/L	: Less than 0.01
10.	Iron as Fe, mg/L	: 0.1
11.	Manganese as Mn, mg/L	: Less than 0.01
12.	Zinc as Zn, mg/L	: 0.05
13.	Lead as Pb, mg/L	: Less than 0.01
14.	Chromium (VI) as Cr, mg/L	: Less than 0.01
15.	Cadmium as Cd, mg/L	: Less than 0.01
16.	Arsenic as As, mg/L	: Less than 0.01
17.	Fluoride as F, mg/L	: 0.6
18.	Total Hardness as CaCO ₃ , mg/L	: 450

Continued to report No.159610


AUTHORISED SIGNATORY

- NOTE
1. The result listed refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
 2. Total liability of our Institute is limited to the invoiced amount.
 3. Samples will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
 4. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the Court of Law and should not be

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Issued to :



TEST CERTIFICATE

No. **159610**

Date :

Sample Particulars :

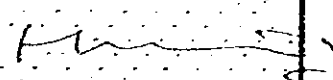
Your Ref. No.:

Date:

Continued from report No. 159609

TEST RESULTS

19.	Total residue at 180°C mg/L	: 1125
20.	Phenols, mg/l	: Nil
21.	Surface active agents (MBAS), mg/L	: Not detected
22.	pH	: 7.9
23.	Odour	: Unobjectionable
24.	Colour (Hazen Units)	: Less than 5
25.	Turbidity NTU	: 1.4
26.	Ammoniacal Nitrogen as N	: 0.1


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