

## **Appendices**



## Appendices -1. Member List of Survey Team

Mr. Kazunori MIURA Leader

Deputy Director

First Basic Design Study Div.,

Grant Aid Study & Design Dept., JICA

Dr. Shuzo KANAGAWA, M.D., PhD Chief, Section of .

Expert Service Division,

Bureau of International Cooperation,

International Medical Center of Japan

Ministry of Health and Welfare

Government of Japan

Ms. Junko TSUDA Project Manager, Operation & Maintenance

DAIICHI HEALTH CARE FACILITY CONSULTANTS, INC.

Mr. Norito NAITOH Equipment Planner

DAIICHI HEALTH CARE FACILITY CONSULTANTS, INC.

Mr. Norio ISHIOKA Facility Planner

DAIICHI HEALTH CARE FACILITY CONSULTANTS, INC.

Mr. Masanori ABE Cost & Procurement Planner

DAIICHI HEALTH CARE FACILITY

CONSULTANTS, INC.

## Appendices - 2. Survey Schedule

### 1. Site Survey (Aug. 29 to Sept. 27, 1996)

Date	Movement	Accommodation	Activity
Aug. 29(Thu)	Arrive to New Delhi via Bangkok		
30(Fri)	Embassy of Japan/JICA India Office and Ministry of Health & Family Welfare(MHFW)  Ministry of Finance/World Bank	Delhi	Courtesy call and meeting
31(Sat)	Move to Madras	Madras	General meeting
Sep. 1(Sun)	Meeting within the study team	Madras	
2(Mon)	Madras Consulate  Department of Health & Family Welfare (DHFV)  Institute of Child Health & Hospital for Children(ICH)	Madras	Courtesy call and meeting  Courtesy call and meeting  Discussions and survey
3(Tue)	ICH  Primary Health Centers & other related facilities	Madras	Site survey  Observation and survey
4(Wed)	ICH	Madras	Discussions on the Minutes of Discussions
5(Thu)	(National Holiday)	Madras	Study on collected information
6(Fri)	Japanese Consulate  ICH	Madras	Reporting  Discussions/meeting
7(Sat)	Meeting within the study team	Madras	Documentation
8(Sun)	Move to Delhi	Delhi	(Mr.Miura/Dr.Kanagawa)
	Meeting within the study team	Madras	Documentation
9(Mon)	Ministry of Finance  Embassy of Japan/JICA India Office	Delhi	Reporting  Reporting  Signing of Minutes of Discussions  (Mr. Miura/Dr. Kanagawa)
	ICH  Survey on local market	Madras	Meeting/Discussions  Market Research
10(Tue)	Lv. Delhi for Narita	Delhi	(Mr. Miura/Dr. Kanagawa)
	ICH  Survey on Local Market	Madras	Meeting/Discussions  Market Research
11(Wed)	ICH	Madras	Meeting/Discussions

Date	Movement	Accommodation	Activity
12(Thu)	ICH	Madras	Meeting/Discussions
13(Fri)	ICH	Madras	Meeting/Discussions
14(Sat)	ICH Survey on local market	Madras	Meeting/Discussions Market Research
15(Sun)	Meeting within the study team	Madras	Intermediate reporting
	Survey on Local Market		Market Research
	Move to Delhi	Delhi	(Mr. Ishioka/Mr. Abe)
16(Mon)	ICH	Madras	Meeting/Discussions
	Survey on Local Market	Delhi	(Mr. Ishioka/Mr. Abe)
17(Tue)	ICH	Madras	Meeting
	Leave Delhi for Narita		(Mr. Ishioka/Mr. Abe)
18(Wed)	ICH	Madras	Meeting/Discussions
	Survey on Local Market		Market Research
	Survey of other facilities		Observation and survey
19(Thu)	ICH	Madras	Meeting/Discussions
	Survey on Local Market		Market Research
20(Fri)	ICH	Madras	Meeting/Discussions
	Survey on Local Market		Market Research
21(Sat)	ICH	Madras	Meeting/Discussions
	Survey on Local Market		Market Research
22(Sun)	Meeting within the study team	Madras	Documentation
23((Mon)	ICH/DHFW	Madras	Meeting/Discussions
	Survey of Local Market		Market Research
24(Tue)	DHFW/ICH	Madras	Discussions/Reporting
25(Wed)	Move to Delhi	Delhi	
26(Thu)	Embassy of Japan/JICA India Office	Delhi	Reporting
	MHFW/MOF		Reporting
27(Fri)	Lv. Delhi for Narita		

## 1. Consultation on Draft Report(Dec.12 to Dec.20, 1996)

Date	Movement	Accommodation	Activity
Dec. 12 (Thu)	Arrive to New Delhi	Delhi	
13(Fri)	Embassy of Japan/JICA India Office and Ministry of Health & Family Welfare(MHFW)	Delhi	Courtesy call and meeting
	Ministry of Finance Move to Madras(Consultant Team) Meeting with ICH and DHFW	Madras	Discussions
14(Sat)	Move to Madras (Mr. Miura/Dr. Kanagawa)	Madras	General meeting
15(Sun)	Meeting within the study team	Madras	General meeting
16(Mon)	Meeting with ICH	Madras	Discussions
	Madras Consulate		Reporting
17(Tue)	Meeting with ICH	Madras	Discussion
	Discussions on Minutes of Discussions		Discussions
18(Wed)	Meeting with DHFW	Delhi	Discussions
	Move to Delhi		
19(Thu)	Meeting with DEA	Delhi	Discussions on the Minutes of Discussions
	Leave Delhi for Narita (Ms. Tsuda/Mr. Naito)		
20(Fri)	Meeting with Kalawati Saran Children's Hospital	Delhi	Discussions on Monitoring
21(Sun)	Leave Delhi for Narita		

### **Appendices - 3. List of Party Concerned in the Recipient Country**

#### **MINISTRY OF HEALTH & FAMILY WELFARE (Delhi)**

- |                         |                 |
|-------------------------|-----------------|
| 1) Mr. Ashok Mehta      | Under Secretary |
| 2) Mr. Nair, Consultant | Internal Health |

#### **MINISTRY OF FINANCE (Delhi)**

- |                            |                 |
|----------------------------|-----------------|
| 1) Mr. Gurdev Singh Grewal | Under Secretary |
|----------------------------|-----------------|

#### **WORLD BANK (Delhi)**

- |                                 |                    |
|---------------------------------|--------------------|
| 1) Dr. Anthony Measham, Adviser | Health, Population |
|---------------------------------|--------------------|

#### **EMBASSY OF JAPAN (Delhi)**

- |                   |                 |
|-------------------|-----------------|
| Mr. Michio Hirose | First Secretary |
|-------------------|-----------------|

#### **JICA India Office (Delhi)**

- |                    |                                   |
|--------------------|-----------------------------------|
| 1) Mr. S. Kumano   | Resident Representative           |
| 2) Mr. T. Tanaka   | Deputy Resident Representative    |
| 3) Mr. T. Inoue    | Assistant Resident Representative |
| 4) Mr. Y.R. Rahman | Deputy Director                   |

#### **HEALTH & FAMILY WELFARE DEPARTMENT**

##### **GOVERNMENT OF TAMIL NADU (Madras)**

- |                        |                               |
|------------------------|-------------------------------|
| 1) Mr. R. Poornalingam | Secretary                     |
| 2) Mr. Arauddin        | Additional Secretary          |
| 3) Dr. Rajappa         | Director of Medical Education |

#### **FINANCE DEPARTMENT**

##### **GOVERNMENT OF TAMIL NADU (Madras)**

- |                    |                  |
|--------------------|------------------|
| 1) Mr. S. Krishnan | Deputy Secretary |
|--------------------|------------------|

#### **TAMIL NADE STATE AIDS CONTROL SOCIETY (Madras)**

- |                      |             |
|----------------------|-------------|
| 1) Dr. Usha Raghavan | NGO Advisor |
|----------------------|-------------|

## MADRAS MEDICAL COLLEGE (Madras)

Dr. V.P. Narayanan

Dean

## INSTITUTE OF CHILD HEALTH & HOSPITAL FOR CHILDREN (Madras)

- 1) Dr. Merlyn C. Joseph Professor (Cardiology)  
Director & Superintendent
- 2) Dr. Kaliyaperumal Professor (Pediatrics)  
Director in charge
- 3) Dr. P.S. Sreemathi Addl. Professor (Cardiothoracic Surgery)
- 4) Dr. K. Sanjeevi Addl. Professor (Pediatrics)
- 5) Dr. M.V. Srinivasan (Pediatrics)
- 6) Dr. D. Darmaras (Pediatrics)
- 7) Dr. E. John, Professor (Radiology)
- 8) Dr. N. Radhakrishnan Professor (ENT)
- 9) Dr. Pacifica Simon (ENT)
- 10) Dr. Arun P. Chittaranjan Asst. Surgeon (Dental)
- 11) Dr. S.V. Malini Asst. Surgeon (School Health)
- 12) Dr. M. Venkatesikar Civil Surgeon (Hematology)
- 13) Dr. V. Tamilarasi Professor (Nephrology)
- 14) Dr. G. Kumaresan Professor (Neurology)
- 15) Dr. N. Somu Professor (Pulmonology)
- 16) Dr. A. Parthasarathy Professor (Medical New Born)
- 17) Dr. C.K. Annamalai Professor (Pediatrics)
- 18) Dr. K. Subramaniam (Pediatrics)
- 19) Dr. Dr. Desai (Pediatrics)
- 20) Dr. A. K. Mrunalini Professor (Anesthesia)
- 21) Dr. A. Rajagowri Professor (Biochemistry)
- 22) Dr. C.T. Mannar Professor (Orthopedic)
- 23) Dr. C.K. Annamalai Professor (Pediatric Surgery)
- 24) Dr. P.S. Srimathy (Pediatric Surgery)
- 25) Dr. A. Parthasarathy (Pediatric Surgery)
- 26) Dr. M. N. Hussein (Pediatric Surgery)
- 27) Dr. D. Vijayasekaran (Pediatric Surgery)
- 28) Dr. K. Saravanabhavan Asst. Surgeon (New Born Surgery)
- 29) Dr. A. Senthamarai Professor (Pathology)
- 30) Mrs. Lalitha Raghavan Administrative Officer
- 31) Dr. Saradha Suresh (Neonatology)
- 32) Dr. R. Manjula (Microbiology)



- 33) Dr. K. Dvrvshothaman (Pathology)  
34) Dr. Elizabeth John (Radiology)

**INSTITUTE OF OBSTETRICS AND GYNECOLOGY (Madras)**

Dr. Shanmuga Priya Director

**PERAMBAKKAN - Primary Health Center**

- 1) Dr. Ilyas Mahmood Senior Civil Surgeon  
2) Dr. Arvl Selvi Asst. Suegeon

**TRIVELLORE HOSPITAL (Madras)**

- 1) Dr. G. Suryanarama Civil Surgeon

**KODY ELCOT LTD. (Madras)**

A JOINT SECTOR UNDERTAKING OF GOVERNMENT OF TAMIL NADU

Mr. Ramachandran Director

**PUBLIC WORKS DEPARTMENT**

**GOVERNMENT OF TAMIL NADU (Madras)**

- 1) Mr. A.Jeyapaul Executive Engineer  
2) Mr. D. Jivalingam Assistant Executive Engineer (civil)  
3) Mr. K. Mohanraj Assistant Engineer (civil)  
4) Mr. M. Govin Param Work Inspector (civil)  
5) Ms. A. Jesu Rethna Bai Assistant Engineer (electrical)  
6) Mr. N. Manickarajan H.T. Operator (electrical)  
7) Mr. U. Chella Purai H.T. Operator (electrical)  
8) Mr. A. Marinu Tho Junior Mechanical Engineer (mechanical)

**Consulate of Japan**

- 1) Mr. Y. Kaku
- 2) Mr. K. Ibara
- 3) Mr. H. Hkamoto
- 4) Mr. Y. Kinoshita
- 5) Mr. H. Isomichi
- 6) Ms. R. Tushima

Consul General of Japan

Consul

Vice Consul

Vice Consul

Vice Consul

## Appendices - 4. Minutes of of Discussions

MINUTES OF DISCUSSIONS  
BASIC DESIGN STUDY  
ON  
THE PROJECT FOR THE IMPROVEMENT OF MEDICAL EQUIPMENT  
FOR THE INSTITUTE OF CHILD HEALTH AND HOSPITAL FOR CHILDREN  
IN INDIA

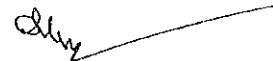
In response to a request of the Government of India, the Government of Japan decided to conduct a Basic Design Study on THE PROJECT FOR THE IMPROVEMENT OF MEDICAL EQUIPMENT IN THE INSTITUTE OF CHILD HEALTH AND HOSPITAL FOR CHILDREN IN INDIA ( hereinafter referred to as "the Project" ), and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to India a study team, headed by Mr. Kazunori MIURA, First Project Study Division, Grant Aid Project Study Department, JICA from August 29 to September 10, 1996.

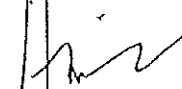
The Team held discussions with the officials concerned of the Government of India and conducted field surveys at the study area.

In the course of discussions and field survey, both parties have confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

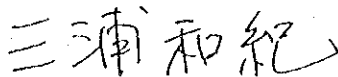
Delhi, September 9, 1996



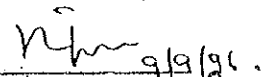
Mr. Alauddin  
Additional Secretary  
Department of Health and  
Family Welfare  
Government of Tamil Nadu



Mr. Amarjit Singh  
Director  
Ministry of Health and  
Family Welfare  
Government of India



Mr. Kazunori Miura  
Leader  
Basic Design Study Team  
JICA



D.V. Nagesimha Raju  
Deputy Secretary  
Department of Economic Affairs  
Ministry of Finance  
Government of India

## ATTACHMENT

### 1. Objective

The objective of the Project is to improve the essential function in the Institute of Child Health and Hospital for Children through procurement of essential equipment.

### 2. Project site

Institute of Child Health and Hospital for Children in Tamil Nadu.

### 3. Responsible and Executing Agency

Responsible Agency : Health & Family Welfare Dept.,  
Government of Tamil Nadu

Executing Agency: Institute of Child Health and Hospital for Children

### 4. Items requested by the Government of India

After discussions with the Basic Design Study Team, the following items were finally requested by the Indian side.

Procurement of medical equipment described in Annex I

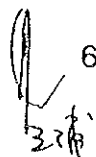
( Note : A = 1st priority, B = 2nd priority, C = 3rd priority)

However the final components of the Project will be decided after further studies.

### 5. Criteria to select the Equipment is summarised as follows;

A. . Equipment to be given high priority in the Project is;

- 1) equipment to be utilised with ordinal and already established technique,
- 2) equipment utilised without O/M cost,
- 3) equipment whose O/M cost can be covered by the Hospital,
- 4) basic equipment to be utilised for diagnosis/treatment of the patients,
- 5) equipment whose cost effectiveness is higher,
- 6) equipment to be replaced with the existing equipment,

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7) equipment required in accordance with the hospital function and the level of the health care services of the Hospital,

8) equipment technically/ordinary utilised with the existing/related apparatus,

9) equipment to be utilised within the present manpower resources.

B. While, the equipment to be given low priority in the Project is,

10) equipment whose operation requires materials such as freon gas and causes environmental problems accordingly,

11) equipment which may be contradictory to the regulations on the waste water/medical wastes treatment and radiation,

12) equipment whose purpose is advanced research activities,

13) equipment by which maintenance difficulties arises as financial problem,

14) equipment requires installation difficulties such as modification and/or additional facility change,

15) equipment requires special technology transfer for operation/utilisation,

16) equipment available locally from the Hospital recurrent cost,

17) equipment requested in duplicate from the different departments which could be utilised and managed commonly,

18) equipment already acquired or to be procured through the Hospital budget after the Request,

19) equipment also requested to other external assistance agencies,

20) equipment without local agent which causes difficulties on its utilisation/maintenance,

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

## 6. Japan's Grant Aid Program

(1) The Government of India and the Government of Tamil Nadu have understood

the system of Japanese Grant Aid explained by the team. The details are described in Annex II.

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(2) The Government of India and the Government of Tamil Nadu will take necessary measures described in Annex III, for smooth implementation of the Project on condition that the Grant Aid by the Government of Japan is extended to the Project.

7. Schedule of the study

(1) The consultants will proceed to further studies in India until September 27, 1996.

(2) JICA will prepare the draft report in English and dispatch a mission in order to explain the contents of the report around November 1996.

(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 March 1997.

8. Other relevant issues

(1) Health & Family Welfare Dept., Government of Tamil Nadu will allocate necessary budget (including counterpart funds) and personnel for the Project.

(2) Expenditure/Finance Committee's clearance is not applicable for the Project. Whereas clearances required at the State Level will be obtained promptly

(3) The Indian side requested for internal transportation cost of the products may also be covered under Grant Aid. The Study team took note of the request and agreed to convey it to the Government of Japan for consideration.

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ANNEX I

Requested Equipment List			Request
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
1	<b>NEONATOLOGY</b>		
1	Neonatal Intensive Care Incubator, Servo & Manual	15	A
2	Neonatal Open Care System (Trolley, Phototherapy Warmer & Emergency Kit)	20	B
3	Infant Warmer (Servo with trolley)	10	A
4	Phototherapy Unit	15	A
5	Infusion Pump (10, 20, 50, 60ML) Syringe type	10	A
6	NIBP, ECG & Respiratory Monitor	2	A
7	Pulse Oxymeter	4	A
8	Neonatal Ventilator with Patient Trigger	5	A
9	Resuscitation Bag with laryngoscope with Mask 1 & 2	4	A
10	Neonatal Monitor with HR/ECG/BP/Respiratory rate	4	A
11	Neonatal Defibrillator	2	B
12	Ultrasonic Nebuliser	2	C
13	Irrigating stand with Twin Hanger	6	C
14	Instrument Cart	4	C
15	Instrument Cabinet	2	C
16	Oxygen Hood	10	A
17	Blood Gas Analyzer	1	A
18	Room Heater	3	A
19	Bilirubin Analyzer	2	A
20	Transport Incubator	3	A
21	Portable Ultra Sound	1	A
22	Microscope	2	A
23	Neonatal Ophthalmoscope	3	A
24	Capnograph	1	B
*25	Infusion Pump	20	B
*26	Incubator for Specimen	1	B
2	<b>RADIOLOGY DEPARTMENT</b>		
1	1000mA X-ray Unit with Image Intensifier (hand crisp, foot crisp etc. with automatic cassette changes)	1	A
2	Ultrasound Equipment with phased array sector probes and Doppler (probes size 3.5, 5, 7.5MHz)	1	A

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
3	Ultrasound Portable Equipment with 3.5 and 5 Mhz Probes	1	A
4	CT. Whole Body Scanner	1	C
5	GOM. A. Mobile X-ray Unit	4	B
6	100K. A. X-ray Unit with C Arm and Image Intensifier	1	C
7	Dark Room Accessories		C
A.	a: Developer Tank (Stainless Steel)	1	
	b: Fixer Tank	1	
	c: Rinsing Tank	1	
	d: Washing Tank	1	
B.	Automatic Film Processor (necessary for CT. Scanner)	2	A
C.	Steel Cupboard for storing X-ray files and chemicals	2	C
D.	Lead Line Film Box	2	C
E.	X-ray Film Cabinets	2	C
F.	Instrument Cabinets	2	C
G.	X-ray Cassettes and Intensifying Screens		C
	a: 15" x 12"	4	C
	b: 12" x 10"	20	C
	c: 10" x 8"	20	C
	d: 6 1/2" x 8 1/2"	20	C
	Steel Hangers		C
	a: 15" x 12"	10	C
	b: 12" x 10"	25	C
	c: 10" x 8"	25	C
	d: 6 1/2" x 8 1/2"	25	C
	Clips (Stainless Steel) for drying	200	C
	Safe Lights	4	C
	Name Printing Box	2	C
8	Lead Protection Screens (size 6x3 with lead glass)	2	A
9	Chest Stands	2	A
10	Lead Aprons	10	A
11	Lead Rubber Gloves	20	A
12	X-ray Film viewer with facility to mount 10 films at a time	4	C
13	Single Film Viewing Lobby	75	C



Requested Equipment List			Request
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
14	Lead Divider for Cutter	2	B
15	Lead Markers (R) and (L)	12	
16	Store Room Accessories		
	a: Steel films cupboard for storage of unused X-ray films and chemicals	3	C
	b: Dispatch room Steel racks for filling used films	5	C
	c: Aluminum Ladder broad based with square top	1	C
*17	Digital Radiographic System with Laser Imager	1	B
<b>3 MICROBIOLOGY DEPARTMENT</b>			
3	Incubator	1	A
4	Water Bath	1	A
5	Medical Refrigerator	2	A
6	Mixer for Test Tubes	1	A
7	Electronic Balance	1	B
10	CO2 Incubator	1	B
11	Vacuum Cleaner	1	B
<b>4 ANESTHESIOLOGY DEPARTMENT</b>			
1	Operating Table	6	A
2	Suction Units (Electrical)	12	A
3	Automatic IV Infusion Pumps	10	A
4	Automatic Syringe Infusion Pumps	10	A
5	Operating Lights with TV Monitor	5	B
6	Operating Lights	3	A
7	Operating Lights with focused spot light (Ortho)	8	A
8	Anesthesia Machine with Ventilator and Monitor	6	A
9	Defibrillators	3	A
10	Film Illuminator (hanging)	6	B
11	Multi Channel Patient M.c.	13	A
12	Laryngoscope Fiberoptic	2	B
13	Portable Light	13	A
14	Irrigating Stand	6	B

Requested Equipment List			Request	
NO.	DESCRIPTION	Q' TY	P	R
			O <td>R </td>	R
			I <td>T </td>	T
			T <td>Y </td>	Y
15	Instrument Trolley Table	26	A	
16	Instrument Cart with Tray	6	B	
17	Instrument Cabinet	6	B	
18	Operating Instrument Set	6	A	
19	Patient Warming System	13	A	
20	Oxygen Blood Gas Analyzer	2	B	
21	Stretchers	12	C	
22	Recovery Stretchers	6	C	
23	Handwashing Sink Unit	6	B	
24	Refrigerator	3	C	
25	Pulse Oxymeter with Capnograph	10	A	
*26	Electro Cautery	12	B	
*27	Air Conditioner	8	B	
*28	Vacuum Cleaner	3	B	
*29	Operating Loop	4	B	
*30	Emergency Light	12	B	
*31	Infant Warmer	3	B	
*32	Silicone Resusci Bag	5	B	
*33	Foot Operated Suction Apparatus	4	B	
5	<b>PEDIATRIC HEMATOLOGY AND ONCOLOGY AND IMMUNOHAEMATOLOGY</b>			
2	Binocular Microscope with teaching adapter with camera	1	A	
3	Binocular Microscope with 6 teaching adapters	1	A	
4	Projecting Microscope	1	A	
5	Binocular Microscope with Video	1	A	
6	Hand Tally Counter	1	A	
7	Spectrophotometer	1	A	
8	Centrifuge	1	C	
9	Autoclave	1	C	
10	Immunoelectrophoresis Apparatus	1	A	
12	Infusion Pumps	10	A	
13	Good Computers with Printout machine	2	A	

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
14	Slide Projector	1	B
15	One Computer with 2 remote printout machine	1	A
*16	Syringe Infusion Pump	10	B
*17	Microwave Food Sterilizer	1	B
*18	Voltage Stabilizer	2	B
*19	Refrigerator	2	B
6	<b>PEDIATRIC SURGERY</b>		
2	Examination Table	4	C
3	Suction Apparatus	4	C
4	Examination Light	2	C
5	Film Illuminator	2	C
6	Infant Warmer	8	A
7	Infusion Pump	20	A
8	Infant Ventilator (Neonatal)	6	C
9	Infant Ventilator	4	C
10	Phototherapy Unit	2	A
11	Syringe Infusion Pump	20	A
12	Bedside Multichannel Monitor	10	C
13	Colonoscope	1	B
*14	Laparoscope with Video	1	C
*15	Incubator, Servo & Manual	10	B
*16	Open Care System	4	B
*17	Pulse Oximeter	10	B
*18	Resuscitation Kit	6	B
*19	Portable Focus lamp	6	B
*20	Emergency Light	6	B
*21	Flexible Cystoscope	1	B
*22	Resectoscope	1	B
*23	Apnea Monitor	3	B
*24	Multichannel Urodynamic Study Equipment with Video Monitor	1	B
7	<b>PEDIATRIC NEPHROLOGY</b>		

Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
1	Haemodialysis Unit and Cot	2	A
4	Peritoneal Dialysis Disposable Pediatric Catheters	300	A
*5	Peritoneal Dialysis Cycler	3	B
*6	Biopsy Gun for Renal Biopsy	1	B
*7	Patient Cots with Weighing Machine	4	B
*8	Binocular Microscope	1	B
*9	Multichannel Monitor, 4-ch	2	B
8	<b>PEDIATRIC PATHOLOGY</b>		
1	Binocular Microscope	1	A
2	Water Bath	1	A
3	pH Meter	1	A
4	Haematocrit Centrifuge	1	A
5	Hand Tally Counter	3	A
6	Centrifuge	2	A
*7	Fully Automated Photomicrographic Equipment with camera/fluorescent with Camera/Fluorescent Microscopy	1	A
*8	Automated Blood Cell Counter	1	A
*9	Cytocentrifuge	1	B
*10	Slide Projector	1	A
9	<b>BIOCHEMISTRY DEPARTMENT</b>		
1	Medical Refrigerator	2	C
2	pH Meter	1	A
3	Flame Photometer	2	A
4	Calorie Meter	4	A
5	Aminoacid Analyzer	1	B
*6	Autoanalyzer	1	B
10	<b>HOSPITAL ADMINISTRATION</b>		
1	Personal Computer with Laser Printer and Monitor	2	B
2	Photocopy Machine	1	A
*3	Cyclostyle Machine	1	B

Requested Equipment List			Request	
NO.	DESCRIPTION	Q' TY	P	R
			O	R
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<b>11</b>	<b>MEDICAL REGISTER - TEACHING</b>			
1	Slide Projector with screen	2	A	
2	Overhead Projector	5	A	
*3	Public Addressing System	10	A	
<b>12</b>	<b>MEDICAL RECORDS DEPARTMENT</b>			
1	Personal Computer	1	A	
2	Photocopy Machine	1	A	
*4	Automatic Numbering Machine	2	B	
*5	Air Conditioning Machine	6	B	
<b>13</b>	<b>PEDIATRIC PULMONOLOGY</b>			
1	Bronchi Spirometer	2	B	
2	Fiber Optic Bronchoscope with video system. 4-8mm, 2mm, 2.5mm Ultra	1	A	
3	Pulse Oxymeter	2	A	
4	Nebulisers	10	A	
*5	Sweat Chloride Analyzer	1	B	
<b>14</b>	<b>PEDIATRIC NEUROLOGY</b>			
1	EEG	1	A	
2	EMG	1	A	
<b>15</b>	<b>PHYSICAL MEDICINE AND REHABILITATION</b>			
1	Microwave Therapy Apparatus	1	A	
2	Paraffin Bath	1	A	
3	Dumbbell Set	1	A	
4	Laser Therapy Unit	1	A	
<b>16</b>	<b>PEDIATRIC ORTHOPEDICS</b>			
1	Electrical Surgical Saw	1	A	
2	Spinal Surgical Set	1	A	
3	Nerve Stimulator System	1	A	

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
4	Bone Plate Set	1	A
5	Bone Screw Set	1	A
17	<b>SCHOOL HEALTH CELL - PREVENTIVE AND SOCIAL - HEALTH EDUCATION DEPT.</b>		
1	Van	1	A
2	Refrigerator	1	A
3	Weighing Machine	2	A
4	Public Address System	1	A
18	<b>PARENT CRAFT CENTRE</b>		
*1	Exhibition Display System	30	B
*2	Exhibition Display Kit	5	B
*3	Combination Board Magnetic Cum Felt, size 600x800, 900x1200mm	12	B
*4	Weighing Machine Electronic, Infant	2	A
*5	Mixer	1	B
*6	Refrigerator	1	A
*7	Computer with Printer	1	A
8	Mobile Van, Community Health and Nutrition	1	B
*9	Cordless Mike with Speaker and Amplifier	2	A
10	Public Address System with 20 box type of Speaker	1	A
11	Close Circuit TV	1	A
*12	V. C. R.	1	A
*13	Video Camera	1	A
*14	Epidioscope OHP	1	A
*15	Slide Projector	1	A
*16	Still Camera	1	A
*17	Xerox Machine	1	A
*18	Tape Recorder	1	A
19	Model Human System, Disease Organs	1	A
19	<b>GASTROENTEROLOGY DEPARTMENT</b>		
1	Pediatric Crosby Jejunal Mucosal Biopsy Set	1	A

Requested Equipment List			Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y	
2	Microscope	2	A	
4	Esophageal pH Meter	1	A	
5	Pediatric Upper Gastro Intestinal Endoscope	1	A	
20	<b>EMERGENCY CASUALTY OP.</b>			
1	Medicine Refrigerator	1	A	
2	Refrigerator	1	A	
3	Nebulizer (ultrasonic)	4	A	
4	Stretcher attached with O2 and IV Set	3	A	
5	Wheel Chair	3	A	
6	Suction Apparatus	3	A	
7	Emergency Lights	6	A	
8	Boiler Apparatus	1	A	
9	Incubator	2	C	
10	ECG. one channel	2	C	
11	ECG. 3 channel	2	C	
12	Portable X-ray	1	C	
13	Warmer New Born	2	A	
14	Emergency Communication System	2sets	A	
15	Ventilator	1	C	
16	Defibrillator	1	A	
17	Laryngoscope	2	A	
18	Emergency power Unit	2	A	
19	Doctors Examination Table	10	C	
20	Examination Unit	10	B	
21	Examination Light	5	A	
22	Diagnostic Sets	2	A	
23	Medicine Cabinet	4	C	
24	Instrument Cabinet	5	C	
25	Dressing cart with drawers	1	C	
26	Instrument cart with 3 trays	1	C	
27	Chair for patients (100)		C	
28	Clothes basket	2	C	

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
29	Treatment Bed	2	C
21	<b>ENT DEPARTMENT</b>		
1	Otorhinolaryngological Examination Table	3	A
2	Mobile Operating Light	1	A
3	Optical Fiber Light source for E.N.T.	2	A
4	Micro surgery Instrument for Ear & Throat	1	A
5	Pediatric Hearing Tester	1	A
6	Otorhinolaryngologn Treatment Unit with Compressor	1	A
7	Instrument set for Otorhino Laryngological examination	5	A
9	Otorhinolaryngoscope	3	A
10	Laryngeal Fiber Scope	2	A
11	Ear Drum Fiber Scope	3	A
12	Fiber Scope Light Source	2	A
13	Head Mirror	6	A
14	ENT Examination Instrument Set	6	A
15	Instrument Cabinet	1	C
16	Phinomanometer	1	B
17	Electrocholeography	1	A
18	Sterilizer Hot Air	1	C
19	Deep Freezer	1	B
20	ENT Operating Microscope with still and Video Camera	1set	B
	Video and collar Monitor (Indian made)		
21	Micro Motor with straight and conrtangle hand piece and 70um Burrs Assorted Tungsten Carbide. Diamond for Micro Ear Surgery	1set	B
22	Fiber Optic Flexible bronchoscope and	1set	A
22	Oesophagoscope with video and still camera and adopter		
23	Horkin model 0 and 30 sinus Endoscope	1set	A
24	Fiber optic flexible light carrier	1set	A
25	Telescopic F.B. forceps to be used with Bronchoscope	1	A
25	size No. 3.5		
26	Impedance Audiometer	1	A

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
*27	Dental Chair, Electrical	2	A
*28	Dental Unit including Light, 3-way syringe, Airtor, Airmotor.	2	A
*29	Low & High Power Suction for 4 handed Dentistry, Spittoon, Compressor		
*29	Ultrasonic Scaler	1	A
*30	Light Cure Apparatus	1	A
*31	Intra Oral X-ray Unit	1	A
*32	Cephalogram, Tomogram & Orthopantomogram Unit	1	A
*33	Dark Room Equipment	1set	A
*34	Welding & Soldering Equipment	1	A
*35	Hand Instruments	1set	A
*36	Camera Equipment	1set	A
*37	Hot Air Sterilizer	1	A
*38	Lab Equipment	1set	A
22	<b>GENERAL PEDIATRIC MEDICAL WARDS 7 UNITS</b>		
27	Lever Type Weighing Machine	7nos	A
28	Infant Weighing Machine	7nos	A
29	Static Meter	7nos	A
30	Infantmeter	7nos	A
31	Microscope	7nos	A
32	White writing board-7	7nos	C
33	AC machine	7nos	C
34	IV Infusion Pump	14nos	A
35	Chair for Doctors - 6x7	42nos	C
36	Chair for patients	70nos	C
37	Ophthalmoscope	7nos	B
38	Pulse Oximeter	7nos	A
39	Electronic BP Apparatus	7nos	C
40	Fixograph	7nos	C
41	Patient bed 20x7	140nos	C
42	Drug Refrigerator	7	C
43	Conventional Refrigerator	7	C
44	Oxygen tent 2x7 (Pediatric)	14	C

Requested Equipment List			Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y	
45	Overhead Table 1x7	7	C	
46	Suction Unit 2x7	14	C	
47	Silicon Resuscitator 2x7	14	C	
48	Stretcher	14	C	
49	Diagnostic Set	7	C	
50	Chart film cot	7	C	
51	Instrument Cabinet	14	C	
52	Examining cot with 3 trays	7	C	
53	Examining Light	7	A	
54	Dressing Cot with Drawers	7	C	
55	Medicine Cabinet	7	C	
56	Vacuum Cleaner	7	C	
57	Radiant Warmer	7	C	
58	Wheel Chair	7	C	
23	BLOOD BANK			
59	Refrigerated Centrifuge (for component therapy)	1	A	
60	Laminar Flow Bench	1	B	
61	Weighing Machine (Kitchen type) for weighing blood	3	A	
62	Domestic Refrigerator 300 Little	1	A	
63	Plasma Extractor	1	A	
64	Air conditioners 2 Tons	2	C	
65	Emergency Lamps	2	A	
66	Laboratory Incubator (35 Degree C to 57 Degree C)	1	A	
67	Water Bath (35 Degree C to 57 Degree C)	1	A	
68	Hand Sealer	1	A	
69	Electrical Sealer	1	A	
24	INTENSIVE MEDICAL CARE UNIT			
70	Automatic IV. Infusion Pump	10	A	
71	Defibrillator with Cardiometer	1	B	
72	Cardiac Monitor (Pediatric and New Born Paddles)	4	B	
73	Pulse Oxymeter	2	A	

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
74	Warmer	3	B
75	Adult Ventilator	2	A
76	Infant Ventilator	2	A
77	Glucometer	1	C
78	Nebuliser Ultrasonic	2	A
79	Microscope	2	B
80	Capnograph with Accessories	1	B
81	C.V.P. Monitor	5	B
82	Bilirubinmeter	1	B
83	Ophthalmoscope	1	B
84	Mobile Ultrasonogram	1	B
86	Trans. Intravenous PO2/PCO2 Monitor	2	B
87	Bilirubin Analyzer	1	B
88	Apnea Alarm	2	B
89	Instrument cot with three trays	3	B
90	Instrument Tray	3	B
91	Syringe Infusion Pump	10	A
92	Multichannel Monitor	3	A
93	Electrolytes and Glucose Analyzer	1	A
94	Neonatal Monitor	2	B
95	Vacuum Cleaner	1	C
96	Medicine Cabinet	1	C
97	Examining Light	1	B
98	Stretcher Trolley	1	B
99	Wheel Chairs	2	C
100	Refrigerator (Automatic defrosting 300 l)	1	A
101	Computer with Software	1	A
25	ALTOPSY ROOM		
102	Autopsy table with shower	1	B
103	Shadowless Light 5000 lux.	1	B
104	Morgue refrigerator. two bodies	1	B
105	Photographic unit with camera	1	B

Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
106	Autopsy instrument	2	B
26	PEDIATRIC CARDIOLOGY AND CARDIOTHORACIC SURGERY		
11	Nebulizer	3	A
13	Anesthesia Apparatus	2	A
15	Horizontal Sterilizer	1	A
19	Warmer	3	A
20	Oxygen Hood	3	A
23	Electrocardiogram 6-ch	2	A
24	Ventilator		
	Infant	2	B
	Older Children	2	B
25	Pulse Oxymeter	4	B
27	Open Care System	1	A
34	Syringe Infusion Pump	5	A
35	Intravenous Infusion Pump	10	A
37	Heart Lung Machine	4	C
38	Hypothermia Machine	8	A
39	Pressures Recorder 6 Channels	18	A
40	Pressures Monitors 4 Channels	10	A
41	Transport Monitors	5	A
42	Defibrillator with Internal Paddles	6	A
43	Surgical Diathermy	6	A
46	Portable Echo Machines	2	A
47	Overhead Light for Operating Tables with TV Monitor	6	A
48	Operating Tables	6	A
49	Anesthetic Apparatus with Accessories & Anesthetic Ventilator	6	A
50	Centrifugal Pump with ECMO (Post oppressively after any major surgical procedure for ventilation)	4	A
51	Hemochron	6	A
53	Fiberoptic Laryngoscope	2	A
54	Tagarno	2	A
55	Ethylene Oxide Sterilizer	1	A

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Requested Equipment List		Request	
NO.	DESCRIPTION	Q' TY	P R I O R I T Y
56	Table Top Sterilizer	6	A
63	Doppler Flow Meter	1	A
64	Thoracoscope with Accessories	1	A
65	Fiberoptic Bronchoscope Neonates, Infants Children	1	A
72	AV. Sequential pacemaker	9	A
73	Demand Pacemaker	6	A
78	Nitric Oxide Equipment	1	A
82	Blood Gas Analyzer	2	A
90	Color Doppler Echocardiogram	2	A
95	X-ray Unit with Image facilities	1	C
27	HOSPITAL		
1	Generator	2	B

Remarks: No. attached with \* mark is New Equipment requested.

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## Annex II

### Japan's Grant Aid

#### 1. Japan's Grand 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:

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- 1) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the 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 organisation in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organisation 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

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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.

(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 during which the Japanese Cabinet approves the Project. 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, the 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 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:

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- 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 of the installation of the equipment.
- 4) To meet all the expenses and ensure 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 authorised 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.

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2) The payment will be made when payment requests are presented by the Bank to the Government of Japan under an authorisation to pay issued by the government of the recipient country or its designated authority.

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Annex III

Necessary measures to be taken by the Government of India and the Government of Tamil Nadu in case Japan's Grant Aid is executed.

1. To provide the land for temporary site office, warehouse and stock yard during the implementation period.
2. To exempt taxes and to take necessary measures for customs clearance of the materials and equipment brought for the Project at port of disembarkation.
3. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contract such facilities as may be necessary for their entry in India and stay therein for the performance of their work.
4. To maintain and use properly and effectively that the facilities constructed and equipment purchased under the Grant.
5. To bear all the expenses other than those to be borne by the Grant.
6. To bear commissions to the Japanese foreign exchange bank for the banking services based on Banking arrangement.

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MINUTES OF DISCUSSIONS  
BASIC DESIGN STUDY  
ON  
THE PROJECT FOR THE IMPROVEMENT OF MEDICAL EQUIPMENT  
FOR THE INSTITUTE OF CHILD HEALTH AND HOSPITAL FOR CHILDREN  
IN INDIA  
(CONSULTATION ON DRAFT REPORT)


In August and September 1996, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study Team on THE PROJECT FOR THE IMPROVEMENT OF MEDICAL EQUIPMENT FOR THE INSTITUTE OF CHILD HEALTH AND HOSPITAL FOR CHILDREN IN INDIA ( hereinafter referred to as "the Project" ), and through discussions, field surveys, and technical examination of the results in Japan, has prepared the Draft Report of the study.

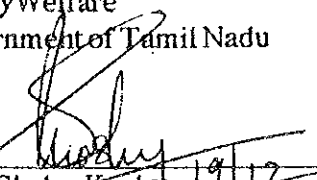
In order to explain and to consult with the Indian side on the components of the Draft Report, JICA sent to India a study team (hereinafter referred to as "the Team"), headed by Mr. Kazunori MIURA, First Project Study Division, Grant Aid Project Study Department, JICA which was scheduled to stay in the country from December 12 to December 20, 1996 .

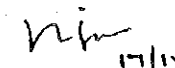
As a results of discussions, both parties confirmed the main items described on the attached sheets.

Delhi, December 19, 1996

  
Mr. Kazunori Miura  
Leader  
Basic Design Study Team  
JICA

  
Mr. Allaudin  
Additional Secretary  
Department of Health and  
Family Welfare  
Government of Tamil Nadu

  
Mrs. Shoba Koshy 19/12  
Director  
Department of Health and  
Family Welfare  
Government of India

  
Mr. D.N. Narasimha Raju  
Deputy Secretary  
Department of Economic Affairs  
Ministry of Finance  
Government of India

## ATTACHMENT

### 1. Components of draft report.

The Government of India has agreed and accepted in principle the components of the Draft Report proposed by the Team.

### 2. Japan's Grant Aid System

(1) The Government of India & the Government of Tamil Nadu have understood the Japanese Grant Aid System explained by the Team.

(2) The Government of India & the Government of Tamil Nadu will take necessary measures described in ANNEX-II for the smooth implementation of the Project in case Japan's grant aid is extended to the Project.

### 3. Items requested by the Government of India

The procurement of the Equipment described in ANNEX-I has been finally requested by the Government of India for the consideration by the Government of Japan to be provided under the Grant Aid.

### 4. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the Government of India around March, 1997.

### 5. Monitoring

(1) Health & Family Welfare Dept. of the Government of Tamil Nadu and the Institute of Child Health and Hospital for Children in Madras have responsibility to conduct periodical monitoring and evaluation of the progress of all phases of the Project such as allocation of funds and distribution, quality control, maintenance and utilization of the equipment, manpower development, training based upon the indicators given in ANNEX-III and reporting it to the Embassy of Japan and JICA India Office annually through the Health & Family Welfare Dept. of the Government of Tamil Nadu. A coordination committee will be organized by the Hospital for this purpose. This will have two advantages:

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

It will also help the implementing agency day to day monitoring of the various activities under the Project.

(2) The coordination committee will work out the details for monitoring indicators for each unit. A baseline survey of the service levels 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 to carry out the task of monitoring and evaluation of certain defined units. The committee will meet once in a quarter to monitor the progress of the various activities under the Project.

(3) The committee will finalize questionnaire on Monitoring/Evaluation Indicators which was proposed in the ANNEX-III, and submit to the Embassy of Japan and JICA Office through the Health & Family Welfare Dept. of the Government of Tamil Nadu after Japan's grant aid is committed.

(4) The committee will submit annual report to the Embassy of Japan and JICA Office by the first quarter of the subsequent year through the Health & Family Welfare Dept. of the Government of Tamil Nadu.

6. Other Relevant Issues

- (1) Health & Family Welfare, Dept. of the Government of Tamil Nadu will allocate necessary budget and personnel for the Project.
- (2) Health & Family Welfare, Dept. of the Government of Tamil Nadu will get various internal clearances, as applicable.

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## ANNEX-1

## EQUIPMENT LIST

NO.	ITEM	PLANNED Q'TY
1	<b>NEONATOLOGY</b>	
1-1	Infant Incubator	5
1-2	Open Care System	2
1-3	Infant Warmer	5
1-4	Phototherapy Unit	8
1-5	Syringe Infusion Pump	5
1-7	Pulse Oxymeter	2
1-8	Neonatal Ventilator	1
1-9	Resuscitation Bag with laryngoscope	3
1-10	Neonatal Monitor (HR,ECCG,RR)	5
1-16	Oxygen Hood	10
1-19	Bilirubin Analyzer	1
1-20	Transport Incubator	1
1-22	Microscope	1
1-23	Ophthalmoscope	3
1-25	Infusion Pump	7
2	<b>RADIOLOGY DEPARTMENT</b>	
2-1	500mA X-ray TV Unit with Image Intensifier	1
2-2	Ultrasound Scanner with Color Doppler	1
2-3	Ultrasound Scanner	1
2-4	Whole Body CT Scanner	1
2-5	Mobile X-ray Unit	2
2-6	X-ray Unit with C Arm	1
2-7	Dark Room Accessories	1
3	<b>MICROBIOLOGY</b>	
3-3	Incubator	1
3-4	Water Bath	1
3-5	Medical Refrigerator	2
3-6	Mixer for Test Tube	1
4	<b>ANESTHESIOLOGY DEPARTMENT</b>	
4-1	Operating Table	6
4-2	Suction Unit	10
4-3	Infusion Pump	5
4-4	Syringe Infusion Pump	5
4-5	Operating Light with TV Monitor	1
4-6	Operating Light	6
4-7	Operating Light	2
4-8	Anesthesia Machine with Ventilator and Monitor	6
4-9	Defibrillator	2
4-11	Multi Channel Patient Monitor	13

## EQUIPMENT LIST

NO.	ITEM	PLANNED Q'TY
4-13	Portable Light	6
4-15	Instrument Trolley Table	26
4-17	Instrument Cabinet	6
4-18	Operating Instrument Set	6
4-19	Patient Temperature Control Machine	6
4-20	Blood Gas Analyzer	1
4-23	Handwashing Sink Unit	6
4-25	Pulse Oxymeter	6
4-26	Electro Cautery	6
4-31	Infant Warmer	2
<b>5</b>	<b>PEDIATRIC HEMATOLOGY AND ONCOLOGY</b>	
5-2	Binocular Microscope with Camera	1
5-3	Binocular Microscope with 3 Teaching Adapter	1
5-6	Hand Tally Counter	1
5-12	Infusion Pump	10
5-14	Slide Projector	1
5-16	Syringe Infusion Pump	5
<b>6</b>	<b>PEDIATRIC SURGERY</b>	
6-6	Infant Warmer	4
6-7	Infusion Pump	10
6-8	Ventilator, Infant	1
6-9	Ventilator, Pediatric	1
6-10	Phototherapy Unit	2
6-11	Syringe Infusion Pump	5
6-12	Multichannel Patient Monitor	2
6-15	Infant Incubator	2
6-16	Open Care System	2
6-17	Pulse Oxymeter	4
<b>7</b>	<b>PEDIATRIC NEPHROLOGY</b>	
7-7	Patient Cot with Weighing Machine	2
7-8	Binocular Microscope	1
<b>8</b>	<b>PEDIATRIC PATHOLOGY</b>	
8-1	Binocular Microscope	4
8-2	Water Bath	1
8-3	pH Meter	1
8-4	Haematocrit Centrifuge	1
8-5	Hand Tally Counter	3
8-6	Centrifuge	2



## EQUIPMENT LIST

NO.	ITEM	PLANNED Q'TY
8-7	Fluorescent Microscopy with Photomicrographic App.	1
8-8	Automated Blood Cell Counter	1
8-10	Slide Projector	1
<b>9</b>	<b>BIOCHEMISTRY DEPARTMENT</b>	
9-2	pH Meter	1
9-3	Flame Photometer	1
9-4	Calorie Meter	2
<b>10</b>	<b>HOSPITAL ADMINISTRATION</b>	
10-1	Personal Computer with Printer Machine	2
10-2	Photostat Equipment	1
10-3	Cyclostyle Machine	1
<b>11</b>	<b>MEDICAL REGISTER - TEACHING</b>	
11-1	Slide Projector	2
11-2	Overhead Projector	2
<b>12</b>	<b>MEDICAL RECORDS DEPARTMENT</b>	
12-1	Personal Computer	1
12-2	Photocopy Machine	1
<b>13</b>	<b>PEDIATRIC PULMONOLOGY</b>	
13-1	Spirometer	1
13-2	Fiber Bronchoscope with TV	1
13-3	Pulse Oxymeter	1
13-4	Nebuliser	5
<b>14</b>	<b>PEDIATRIC NEUROLOGY</b>	
14-1	EEG	1
14-2	EMG with Echo Probe	1
<b>15</b>	<b>PHYSICAL MEDICINE AND REHABILITATION</b>	
15-1	Microwave Therapy Apparatus	1
15-2	Paraffin Bath	1
15-3	Dumbbell Set	1
15-4	Laser Therapy Unit	1
<b>16</b>	<b>PEDIATRIC ORTHOPEDICS</b>	
16-1	Electrical Surgical Saw	1
16-2	Spinal Surgical Set	1
16-3	Nerve Stimulator System	1

**EQUIPMENT LIST**

NO.	ITEM	PLANNED Q'TY
16-6	Orthopedic Bed	5
16-7	Traction Unit	5
17	<b>SCHOOL HEALTH CELL - PREVENTIVE AND SOCIAL-HEALTH EDUCATION DEPT.</b>	
17-1	Van	1
17-2	Refrigerator	1
17-3	Weighing Machine	2
18	<b>PARENT CRAFT CENTRE</b>	
18-1	Exhibition Display System	10
18-2	Exhibition Display Kit	2
18-3	Combination Board Magnetic Cum Felt, size 600x800, 900x1200mm	4
18-4	Infant Weighing Machine	2
18-11	Close Circuit TV	1
18-12	V.C.R.	1
18-13	Video Camera	1
18-14	Epidiascope OHP	1
18-15	Slide Projector	1
18-17	Photocopy Machine	1
18-18	Tape Recorder	1
18-19	Model Human System	1
19	<b>GASTROENTEROLOGY DEPARTMENT</b>	
19-1	Pediatric Crosby Jejunal Mucosal Biopsy Set	1
19-2	Microscope	1
19-5	Pediatric Upper Gastro Intestinal Endoscope with Video	1
20	<b>EMERGENCY CASUALTY OP.</b>	
20-1	Medicine Refrigerator	1
20-2	Refrigerator	1
20-3	Ultrasonic Nebulizer	4
20-4	Stretcher	3
20-5	Wheel Chair	3
20-6	Suction Apparatus	3
20-8	Anesthesia Machine	1
20-10	ECG 1-ch	2
20-13	Infant Warmer	2
20-16	Defibrillator	1
20-17	Laryngoscope	2
20-21	Examination Light	3
20-22	Diagnostic Set	3

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## EQUIPMENT LIST

NO.	ITEM	PLANNED QTY
21	<b>ENT DEPARTMENT</b>	
21-1	Otorhinolaryngological Examination Table	3
21-2	Mobile Operating Light	1
21-3	Optical Fiber Light source for ENT.	1
21-4	Micro surgery Instrument for Ear & Throat	1
21-5	Pediatric Hearing Tester	1
21-6	Otorhinolaryngological Treatment Unit with Compressor	1
21-7	Instrument Set for Otorhinolaryngological Examination	5
21-9	Otorhinolaryngoscope	3
21-13	Head Mirror	5
21-19	Deep Freezer	1
21-20	ENT Operating Microscope with TV Set	1
21-25	Telescopic F.B. Forceps No.3.5	1
21-26	Impedance Audiometer	1
21-27	Dental Chair	1
21-28	Dental Unit	1
21-29	Ultrasonic Scaler	1
21-30	Light Cure Apparatus	1
21-31	Intra Oral X-ray Unit	1
21-33	Dark Room Equipment	1
21-35	Hand Instrument	1
21-37	Hot Air Sterilizer	1
22	<b>GENERAL PEDIATRIC MEDICAL WARDS 7 UNITS</b>	
22-27	Weighing Machine	9
22-28	Infant Weighing Machine	9
22-29	Static Meter	9
22-30	Infantmeter	9
22-34	Infusion Pump	18
22-37	Ophthalmoscope	9
22-38	Pulse Oxymeter	3
22-44	Oxygen Tent	18
22-47	Resuscitation Bag	18
22-53	Examining Light	9
23	<b>BLOOD BANK</b>	
23-59	Refrigerated Centrifuge	1
23-66	Laboratory Incubator (35 Degree C to 57 Degree C)	1
23-67	Water Bath (35 Degree C to 57 Degree C)	1
24	<b>INTENSIVE MEDICAL CARE UNIT</b>	
24-70	Infusion Pump	10
24-71	Defibrillator	1

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# EQUIPMENT LIST

NO.	ITEM	PLANNED Q'TY
24-73	Pulse Oxymeter	2
24-74	Warmer	3
24-75	Ventilator, Pediatric	1
24-76	Infant Ventilator	1
24-78	Nebuliser Ultrasonic	2
24-79	Microscope	1
24-80	Capnograph	1
24-82	Bilirubin Meter	1
24-83	Ophthalmoscope	3
24-91	Syringe Infusion Pump	5
24-92	Multichannel Monitor	2
24-93	Electrolyte Analyzer	1
24-97	Examining Light	1
24-98	Stretcher Trolley	1
25	AUTOPSY ROOM	
24-104	Morgue Refrigerator, Two Bodies	1
26	PEDIATRIC CARDIOLOGY AND CARDIOTHORACIC SURGERY	
26-11	Nebulizer	3
26-15	Horizontal Sterilizer	1
26-19	Infant Warmer	3
26-20	Oxygen Hood	3
26-23	Electrocardiogram, 3-ch	1
26-24	Ventilator Infant	1
26-24	Ventilator, Pediatric	1
26-25	Pulse Oxymeter	2
26-34	Syringe Infusion Pump	5
26-35	Infusion Pump	5
26-37	Heart Lung Machine	1
26-38	Hypothermia Machine	1
26-39	Pressures Recorder 6 Channels	1
26-40	Pressures Monitors 4 Channels	4
26-42	Defibrillator	1
26-43	Surgical Diathermy	2
26-46	Portable Echo Machines	1
26-47	Operating Light with TV Monitor	1
26-47	Operating Light	2
26-48	Operating Tables	2
26-49	Anesthetic Machine with Ventilator & Monitor	2
26-50	Centrifugal Pump with ECMO (Post compressively after	1
26-51	Hemochron (of immense use in the bleeding post	1
26-53	Fiber Optic Laryngoscope	2

# EQUIPMENT LIST

NO.	ITEM	PLANNED Q'TY
26-54	Tagarno	1
26-66	Ethylene Oxide Gas Sterilizer	1
26-56	Table Top Sterilizer	6
26-63	Doppler Flow Meter	1
26-72	AV. Sequential pacemaker	2
26-73	Demand Pacemaker	2
26-82	Blood Gas Analyzer	1
26-90	Color Doppler Ultrasound Scanner	1
27	HOSPITAL (FACILITY)	
1	Generator	1
2	PB. Box	1

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## ANNEX-II

Necessary measures to be taken by the Government of India and the Government of Tamil Nadu in case Japan's Grant Aid is executed.

1. To provide the land for temporary site office, warehouse and stock yard during the implementation period.
2. To exempt taxes and to take necessary measures for customs clearance of the materials and equipment purchased for the Project at port of disembarkation.
3. 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.
4. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contract such facilities as may be necessary for their entry in India and stay therein for the performance of their work.
5. To maintain and use properly and effectively the equipment purchased under the Grant.
6. To bear all the expenses other than those to be borne by the Grant, necessary in connection with the implementation of the Project..
7. To bear commissions to the Japanese foreign exchange bank for the banking services based on Banking arrangement.

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ANNEX-III

Monitoring of the Project

It is proposed that Monitoring and Evaluation be in-built in the Project right at the planning stage. The following indicators will be required to be monitored to evaluate the progress of the Project in terms of the inputs from the Government of India and the Government of Tamil Nadu.

A. WHOLE HOSPITAL:

(1) Funds allocated, released, utilized for;

- i. Operation Cost
- ii. Maintenance Cost
- iii. Other Cost such as consumption of electricity / water etc.

(2) Human Resources allocation;

- i. Number of Doctors
- ii. Number of Nurses
- iii. Number of Technicians

(3) Hospital Services

- i. No. of Patients in each Department / year
- ii. No. of Operations performed / year
- iii. No. of Laboratory Tests conducted / year

B EQUIPMENT

Following major equipment inclusive of the one whose O/M cost is higher, to be monitored quantitatively in accordance with each element.

No	Name of Equipment	Operation Cost for supplies/reagents etc.	Annual Maintenance Cost charged	Frequency of Operation /day	Frequency of Breakdown /month	Number of trainees attended
1	CT Whole Body Scanner					

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2	X-ray TV Unit					
3	Ventilator					
4	Patient Monitor					
5	Heart Lung Machine					
6	Hypothermia Machine					
7	Pressure Recorder 6ch					
8	Overhead Light for Operating Tables with TV Monitor					
9	Centrifugal Pump with ECMO					
10	Hemochron					
11	Tagarno					
12	Doppler Flow Meter					
13	AV Sequential Pacemaker					
14	Demand Pacemaker					
15	Van, School Health Cell					

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