


No. 1

**STUDY REPORT
ON
THE PROJECT FOR IMPROVEMENT OF
MEDICAL EQUIPMENT IN GAZA**

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MARCH 1995

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**JAPAN INTERNATIONAL
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MARCH 1995

**JAPAN INTERNATIONAL
COOPERATION AGENCY
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4. Minutes of Discussion

Chapter 1 Background of the Project

1-1 Background of the Request

Up until the First World War, Palestine was part of the special district of Jerusalem within the Ottoman Empire State of Syria, and following the war it became part of British mandatory territory. In the course of the First Middle-East War (war of Israeli independence) from 1944 through to 1949, the West Bank (including eastern Jerusalem) and Gaza were respectively placed under the occupation of Jordan and Egypt. Then in 1950, Jordan annexed the West Bank (including eastern Jerusalem).

Following that, as a result of the Third Middle-East War (Six Day War) in 1967, Israel occupied the West Bank and Gaza and, with respect to eastern Jerusalem, it annexed it by applying Israeli law, administration and judiciary, and in 1980 established a fundamental law confirming a unified Jerusalem as its everlasting capital.

Following the Six Day War, the occupation by Israel continued for 27 years. Then in September 1993, the PLO and Israel come to an agreement with regard to limited self rule, and in May 1995 the Gaza-Jericho Accord (advance self rule accord) was concluded and the PLO established the Palestinian Organization in Gaza and Jericho to act as the self ruling government of that area. The Palestinian Organization is headed by Yasser Arafat and has appointed 18 members (of ministerial rank), and it is currently working to establish a new country.

On September 13, 1993, the Government of Israel and the PLO came to an agreement on the Declaration on the Principle of Palestinian Self Rule, and in May 1994 the two sides concluded the Accord on Palestinian Advance Self Rule. As a result of this, the Israeli army retreated from Gaza and Jericho, Palestinian police were stationed, an advance self rule government was established and agreement was reached on the handing over of administrative authority, and so on. In this manner the chances of both countries coming to cooperate with regard to Gaza and Jericho were heightened. In view of this situation, a project formation study team was dispatched in July 1994 with the aims of uncovering and forming specific projects in the socioeconomic sector. The following November, during the dispatch of the preliminary study team, confirmation was made on the request made by the self ruling government with regard to the project for improvement of medical equipment in the four hospitals located within Gaza.

In 1992 the Palestine Council of Health (PCH), the forerunner to a Ministry of Health, was founded, and this has conducted studies into the current state of public health and medical care, and has carried out coordinating activities aimed at forming a national health plan and implementing intermediate plans for this. According to reports

from the PCH, the infant mortality rate in Palestine is high at 40-45 per 1,000 people, and strengthening of the primary and secondary medical care service sectors is urgently required. In particular, it is forecast that the population of Gaza (with an area of 370 km²) will leap from its present 790,000 people to 1,170,000 in 10 years time and, in order to respond to the higher demand for medical care services that will result from this, the PCH formulated the Project for Improvement of Medical Equipment in the Four Hospitals of Gaza, and requested that the Government of Japan provide assistance in the form of grant aid for the implementation of this.

The request made by the Palestine side was for secondary medical care and investigation equipment in the four hospitals and Central Laboratory in Gaza, however, the application form also included some items of tertiary medical care and high level examination equipment. In response to this, the preliminary study team held consultations with the Palestine side, the result of which was that both sides confirmed that it would be appropriate if the objectives of the Project would be to restore secondary medical care service functions in three of the hospitals except for Shifa, and to restore medical care service functions in Shifa Hospital to a level slightly higher than the secondary but not as high as the tertiary level. In view of the above-mentioned circumstances, JICA dispatched a field survey team to the Project site to confirm whether or not the requested equipment is appropriate and necessary for achieving the objectives of the Project.

Chapter 2 Contents of the Project

2.1 Objectives of the Project

The objectives of the Project are to improve the level of secondary and, in parts, tertiary medical care and so raise the level of public health care for the population of approximately 800,000 in Gaza, by strengthening basic medical equipment in all the medical (except for the dialysis department) and related service departments in all the governmental hospitals (not including the psychiatric hospital) in the said area.

2.2 Extent of Resolution of the Problem Areas

Judging from the infant mortality rate and other health indicators, it is thought that the PCH has achieved a certain level of medical care in Gaza, so the strengthening of secondary medical care should prove extremely effective in further raising the level of public health. However, as the Palestine side stresses, it is the qualitative rather than quantitative improvement of hospitals that is more important. For this reason, the provision of the required equipment would make a great contribution to improving the level of medical care services in the area. In particular, it is considered that prenatalology equipment and equipment to counter infections would be of major significance in solving the current problems.

2.3 Impact of Project Implementation

The long years of occupation have left the public health and medical care services of Gaza in an underdeveloped state. Because the PCH is in a relatively good state, improvements can be expected in the public health situation of local residents providing that backup secondary medical care services are strengthened. If the health of the residents improves, this will lead to an improved labor force and economic strength. Moreover, if the residents are able to feel the benefits of peace in such a direct manner, a contribution will be made to the political and economic stability of the area.

2.4 Outline of the Project

2.4.1 Basic Concept

The four hospitals targeted by the Project are Shifa Hospital (465 beds), Nasr Pediatric Hospital (135 beds), the Ophthalmic Hospital (35 beds) and Nasser Hospital (Khan Younis) (318 beds). It is

intended to achieve the objectives of the Project through strengthening the equipment required by these hospitals to provide secondary medical care services. Put another way, the Project targets medical care services in the diagnostic and treatment areas which the PCH is unable to handle, and it does not target those services which require high level medical technology. However, with regard to Shifa Hospital, in view of the fact that the Project area is isolated from surrounding districts and the fact that Shifa Hospital is the supreme medical organ in Gaza, some of the equipment supplied to it shall be of a level that enables the provision of high level medical care services.

Furthermore, with a view to improving the maintenance setup in the Project facilities and ensuring the effective operation of the supplied equipment, the Project shall include the provision of equipment for strengthening the maintenance functions of the Central Workshop, which conducts the maintenance of all the public hospital facilities and equipment in Gaza.

Finally, with regard to equipment provided by other donors concerned with this Project, coordination shall be carried out with the Palestine side to avoid overlapping and, in cases where overlapping cannot be avoided, the equipment in question shall be excluded from the bounds of the Project.

2.4.2 Design Policies

The criteria for selection of equipment for the Project shall be that the equipment satisfies the following conditions.

- 1) The equipment shall be designed to provide secondary medical care services.
- 2) The equipment shall be that which either requires renewal or is in short supply.
- 3) Regarding quantities of equipment, the minimum amounts required immediately shall be provided.
- 4) With regard to equipment in new areas of diagnosis and treatment, planning shall be performed upon first examining the technical acceptance conditions and necessity and propriety.
- 5) Equipment that is required to raise the capacity for maintaining the medical equipment shall also be included.

2.4.3 Project Sites

The facilities targeted by the Project are as follows.

1) Shifa Hospital (Central Workshop)	General hospital	465 beds
2) Nasr Pediatric Hospital	Pediatric hospital	135 beds
3) Ophthalmic Hospital	Ophthalmic general hospital	35 beds
4) Khan Younis Hospital	General hospital	318 beds

2.5 Implementation Setup for the Project

2.5.1 Responsible Ministry

The Ministry of Health will be the responsible ministry for the Project. As was mentioned earlier, however, the advance self rule government is only provisional and administrative activities have only just started. Consequently, although the aid recipient and implementing agency is the Ministry of Health (MOH), the actual implementing agency at the present point in time is the PCH. The PCH was established in July 1992 as an acting agency with the objectives of compiling the NHP and coordinating the public health and medical care service. The PCH formulated a provisional action plan in readiness for self rule before the start of the limited self rule, and has been active in responding to the current needs of the medical care service. Although the transfer of actual work to the MOH is advancing in Gaza and Jericho, the PCH will remain in existence as an advisory body after the transfer and, if the transfer of authority is expanded throughout the whole of the West Bank, it is anticipated that it will again act as the implementing organ in the establishment of the public health and medical care administration.

The MOH is the health ministry of the Palestinian self ruling government and should essentially be the recipient and implementing agency for the Project. When the transfer of public health and medical care administrative authority is carried out on the West Bank, the MOH will take on full responsibility for the securing of manpower and running of the public health and medical care administration on the West Bank and in Gaza. The PCH has carried out the real work so far, however, the MOH and PCH are moving towards unification in organizational terms, and it is thought that all actual authority will be transferred to the MOH in the future.

2.5.2 Implementing Agency

The MOH will also act as the implementing and operating agency for the Project.

2.5.3 Budget

Data relating to the budget and accounts of the MOH are extremely scarce, however, according to analysis of the medical expenses throughout the whole of Palestine during its occupation, expenditure on medical care by each agency was distributed in the manner shown in Table 3-1. 55% of public health expenditure was devoted to personnel expenses, 4.1% was spent on maintenance and technical expenses, and 4.7% was devoted to medical equipment expenses.

The medical care cost per patient was \$ 103 per day, and the average hospitalization cost per patient was \$ 358. Lacking government income that could not be covered by insurance returns and patient charges was supplemented through regional tax and donations from the national budget.

Table 3-1 Medical Care Expenses in Occupied Palestine

Agency	Expenditure (US \$)	Ratio (%)
Government	63,200,000 (West Bank 59%, Gaza 41%)	49.9
UNRWA	24,200,000 (58% to PCH)	19.1
NGO	37,200,000	29.3
Private sector	25,000,000	19.7
Total	126,700,000	100

Source: MOH 1994 data

Following the start of self rule in May 1994, the PCH distributed survey forms to each medical institution and totaled up actual medical expenses over three months. Based on the obtained figures, it computed the public health budget for 1994/1995, and this is indicated in Table 3-2. This budget does not include any capital investment for the purchase of equipment, and so on.

Table 3-2 Public Health Budget in the Advance Self Rule District (1994/1995)

Item	West Bank	Gaza	Total
Personnel expenses	17,913,000	16,159,000	34,072,000
Overseas medical expenses	4,548,000	3,581,600	8,129,600
Medical supplies and materials	9,765,000	8,008,000	17,773,000
Food expenses	2,313,000	638,000	2,951,000
Maintenance and other expenses	6,468,000	2,169,200	8,637,000
Total	41,007,000	30,555,800	71,562,800

Source: MOH 1994 data

The self ruling government is reliant on assistance for most of its funds and, although assistance from the aid agencies of foreign countries and international aid agencies is increasing, there is currently little evidence to suggest that the self ruling government can secure sufficient sources of funds. The present situation in Palestine can be said to be most peculiar in that, following a long period of occupation in which the state was unable to develop its own capital and organizations, it was suddenly expected to start running things all by itself. In this respect, it is almost inevitable that the state has to rely on assistance for most of its funds. It is hoped that this inability to secure a source of funds does not have any detrimental effect on the immediate implementation of the Project.

2.5.4 Budget Balance Movements and Prospects

Within the provisional action plan for Palestine (including the West Bank and Gaza) prepared by the MOH for the next two years, of the overall budget amount of \$ 313.04 million, only \$ 57.4 million (18.3%) income will be obtained from insurance premiums, patient charges and approved foreign capital, and the remainder is scheduled to be obtained from aid agencies. In order to overcome this huge shortage of funds, reform of the insurance system will first of all be urgently necessary. The current insurance system consists of compulsory insurance for public employees and optional insurance, to which it is estimated that approximately 12% of the population belongs, and insurance premiums range between \$ 24-34 per month. It will also be necessary to introduce different price beds, higher charges for patients receiving high level medical care, and higher income from general taxation. Moreover, upon firmly laying down the MOH and government organization, the establishment of a highly cost efficient public health and medical care service will also be urgently required.

One symbolic example of the state of public health and medical care finances can be seen in the insurance premiums that fail to be collected as a result of insufficient cooperative relations with the Government of Israel. That is to say that, even though the governments of both sides have agreed that the Government of Israel should collect insurance premiums from Palestinians who are working in Israel, the premiums collected by the Israeli Government are not being paid at all. This sort of thing can also be seen within the ministries and departments of the self ruling government, and is hindering the operation and management of medical care services. This, however, is one sign of the confusion that immediately followed the change over to advance limited rule, and it is anticipated that the situation will improve the more the self rule advances in future.

The Palestine side is expecting the population to increase greatly

due to the return of scattered refugees following the start of self rule and, if this population increase does occur, a significantly large increase in insurance premiums can be anticipated within the National Health Plan. Furthermore, an improvement in the health situation will promote industrial development, which will in turn reduce the rate of unemployment (currently said to be 60% in Gaza and 40% on the West Bank) and lead to even greater income.

In contrast to the above, if the refugee medical care currently being conducted by UNRWA is transferred to the Palestine side, it is expected that this will further deteriorate the public health finances. With regard to hospital medical care in particular, it is desirable that qualitative improvements based on rationalization be made rather than quantitative improvements, and that the basic medical care service be expanded through continued cooperation with UNRWA and other NGO for the time being.

2.5.5 Organizational Capacity for Project Implementation

The main organizational capacity required of the Palestine side when the Project goes into the implementation stage will be preparation for the acceptance of the equipment (securing of equipment installation space, etc.). With regard to the power supply, water supply and facilities extensions, etc. required for Project implementation, the Central Workshop has already started examining and carrying out the necessary work, and it is thought that there will be no problems during the execution stage because the Central Workshop will provide assistance.

2.5.6 Organizational Capacity for Operation and Maintenance

The MOH will directly carry out the operation and maintenance of the Project target facilities. However, in the current situation where the economic basis is yet to be established, it is clear that the MOH has problems in securing funds to cover operation and maintenance costs, and it is trying its hardest to establish a setup through obtaining assistance from abroad. Meanwhile, the Palestine side has compiled and is starting to implement plans for the improvement and expansion of facilities, and it is also aiming to secure manpower for and raise the capacity of the Central Workshop, with a view to improving the equipment maintenance capacity. In consideration of this, it is judged that, rather than technical and personnel conditions, it is the securing of a budget which is the biggest stumbling block in the area of operation and maintenance.

2.5.7 Adjustment with Local Technical Levels

One of the features of the medical care sector in Gaza is the high

level of education of the staff, due to the fact that a large number of doctors and nurses have received training in advanced countries. With regard to the equipment, although some high level and innovative items were requested, these have been omitted from the Project, so it is considered that there should be no problems matching the technical levels of the diagnostic and treatment equipment with the local staff skill levels.

2.5.8 Staffing and Staff Loyalty

Staff at each of the hospitals have been increased following the start of self rule, and training bodies for pharmacists, etc. have been improved. With regard to training, there is an advantage in that staff can easily be sent to the cooperating hospitals in Israel. It is thought that there are no major problems in terms of staff numbers, however, because the personnel expenses at UNRWA and private hospitals are higher, there is a risk that staff may wish to move to such facilities. For the time being, however, the currently under construction Kahn Younis UNRWA Hospital is the only large facility, and it is thought that most staff can be expected to stay where they are.

Basically, because no large increases in personnel expenses can be anticipated, it is desirable that secondary medical care be improved upon first restricting any staff increases or budget increases as much as possible. However, due to the fact that the clinical investigation functions of each hospital are to be strengthened, the Ophthalmic Hospital is to receive a new roentgen facility, and a number of new diagnostic and treatment functions are to be added under the Project, increases in staff numbers and budget costs will be indispensable.

Furthermore, as can be seen in the equipment scheduled to be sent this year under the medical equipment provision program of the Government of Spain, there is a strong possibility that high level equipment will be introduced through other donors. For this reason, too, staff and budget increases will become inevitable.

2.5.9 Facility and Equipment Maintenance Conditions

All of the technical maintenance of medical facilities and equipment in Gaza is carried out by the Central Workshop, which is under the supervision of the MOH. The technical levels in the workshop are high, and it is firmly believed that the said workshop's technical maintenance capacity will increase with the procurement of maintenance equipment under the Project.

On the other hand, the attitude towards maintenance of the medical care staff (users of the equipment) cannot be said to be satisfactory, although it was noticed that the people responsible on the Palestine side (especially the MOH) were worrying themselves

over how to improve this situation, and they were striving to improve things at every available opportunity. This attitude among not only medical care staff but all Palestinians is a result of the mental degradation brought about by years of Israeli occupation, and it is guessed that, once that improvements are seen in the national setup and living standards, these mental blocks will be removed.

Chapter 3 Implementation Plan

3-1 Procurement Plan

In reference to the procurement of medical equipment and consumables in Gaza, they import the products made in USA and/or Europe from neighboring countries (Israel, Egypt, Jordan, etc.). Local agents and service agents for repair and maintenance are mainly dealing in these products made in USA and/or Europe.

The Equipment to be supplied under the Project shall have their origin in Japan, USA, Europe by taking into consideration the after-care services after the completion of implementation of the Project.

The contents of the Equipment to be supplied are Medical Equipment and Maintenance Equipment as mentioned below (in reference to detailed contents, refer to Appendix 4 Minutes of Discussion).

1) Medical Equipment for Shifa Hospital	293 items
2) Maintenance Equipment for Workshop	95 items
3) Medical Equipment for Nasr Pediatric Hospital	96 items
4) Medical Equipment for Ophthalmic Hospital	45 items
5) Medical Equipment for Nasser Hospital	158 items
(Khan Younis)	
total	687 item

3-2 Implementation Schedule

The implementation schedule will require about 5 months from the signing of E/N to the conclusion of equipment supply contract and a further 7 months from then to the completion of the work.

The schedule is as indicated below.

Table 3-1 Implementation Schedule of the Project

Gregorian Calendar Months	Year 1995			Fiscal Year 1996													
	2	3	4	5	6	7	8	9	10	11	12	1	2	3			
Total Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14			
Signing of E/N	▼																
Consulting Services Agreement	▼																
Site Survey (Market Research etc.)	■	■															
Detailed Design (D/D)			■	■	■												
Cost Estimation			■	■	■												
Preparation of Tender Documents			■	■	■												
Approval for Tender Documents				■	■												
Tender Notice					▼												
Distribution of Tender Documents					▼												
Tendering					▼												
Evaluation of Tendering					■	■											
Supply Contract						▼											
Order of Equipment Manufacturing						▼											
Equipment Manufacturing							■	■	■	■	■						
Inspection before Shipment									■	■							
Transportation of Equipment											■	■					
Installation of Equipment												■	■	■			
Final Inspection, Hand Over													■	■	▼		

■ Works in overseas
 □ Works in Japan

Chapter 4 Project Evaluation and Recommendation

4.1 Verification of Appropriateness

Gaza is divided into the two districts of Gaza in the north and Kahn Younis in the south, and the Shifa Hospital (465 beds) and Kahn Younis Hospital (318 beds), which are the respective public, general hospitals for these two districts, make a significant contribution to improving the level of medical care of the local residents. Moreover, of the Nasr Pediatric Hospital and the Ophthalmic Hospital, the latter is the only public specialist hospital in the area, and the beneficial effects of medical equipment improvement here would be great. Equipment renewal was not carried out sufficiently in either hospital during the Israeli occupation, meaning that the state of the equipment itself has fallen behind the technical levels within the hospitals. In consideration of the above, it is considered that there is a great necessity for secondary medical care equipment improvement, and that the effect of Project implementation would be significant.

4.2 Project Effect

Judging from the infant mortality rate and other health indicators, it is thought that the PCH has achieved a certain level of medical care in Gaza. In future, it is judged that the strengthening of secondary medical care is important for further raising the level of public health. In particular, it is considered that prenatalology equipment and equipment to counter basic infections would be of major significance in solving the current problems, and the following effects can be expected through the provision of such equipment.

- 1) Each hospital will be able to perform the functions it was meant to perform, and the state of health and medical care for the local residents will improve.
- 2) Bolstering the Central Workshop will improve the maintenance setup for medical equipment and facilities throughout all Gaza.
- 3) Improved health of the citizens will lead to a stronger local work force and economy, which in turn will contribute to the area's political and economic stability.

4.3 Recommendation

Following the return of public health administration throughout the whole West Bank, the public health and medical care service setup over the whole of Palestine will become even more complex and, depending on how it adapts, the hospital medical care setup in Gaza may be strongly influenced. Moreover, if the refugee medical care

currently being conducted by UNRWA is transferred to the Palestine side, it is forecast that the public health finances will be pressurized even more. With respect to hospital medical care in particular, it will be necessary to aim for a qualitative improvement based on rationalization rather than a quantitative improvement, and to expand basic medical care services through cooperating with UNRWA and other NGO.

[Appendices]

1. Member List of the Survey Team
2. Survey Schedule
3. List of Party Concerned in the Recipient Country
4. Minutes of Discussion

1. Member List of the Survey Team

Mr. Toshiyuki OMOTO	Coordinator	Planning & Development Div., General Affairs Dept., Japan International Cooperation System (JICS)
Mr. Isamu NYUI	Facility/ Equipment Planner	Planning & Survey Div., Grant Aid Management Dept., JICS

2. Survey Schedule

	Date	Day	Itinerary	Activities	Place to Stay
1	Jan. 25	Wed	Tokyo→Paris	JL405 11:25→16:00	Paris
2	Jan. 26	Thu	Paris→Tel Aviv	AF1760 13:10→18:45	Tel Aviv
3	Jan. 27	Fri		Courtesy Call on Embassy of Japan	Gaza
4	Jan. 28	Sat		Discussion with the Ministry of Health Site Survey (Shifa Hospital)	Gaza
5	Jan. 29	Sun		Site Survey (Nasr Pediatric Hospital, Central Workshop)	Jerusalem
6	Jan. 30	Mon		Discussion on the requested Equipment	Jerusalem
7	Jan. 31	Tue		Discussion on the requested Equipment	Jerusalem
8	Feb. 1	Wed		Collection of Relevant Data	Jerusalem
9	Feb. 2	Thu		Signing of Minutes of Discussions Report to Embassy of Japan	Tel Aviv
10	Feb. 3	Fri	Tel Aviv→London	BA657 08:05→11:35	London
11	Feb. 4	Sat	London→	JL402 19:00→	On the Plane
12	Feb. 5	Sun	→Tokyo	→15:40	

3. List of Party Concerned in the Recipient Country

Organization	Name	Position
Ministry of Health	Dr. Riyad Zanoun	Minister
	Ms. Maha El Shawwa	International Cooperation Unit, Gaza Coordinator
	Dr. Mohammad Abu Hashish	Health Planning Dep.
Consultant (PCH)	Ms. Ghada M.S.Soufan	General Director
Shifa Hospital	Dr. Yousef Hindi	Director
	Dr. Mohamad Abu Shahla	Deputy Director
Nasr Children Hospital	Dr. Raghda Shawwa	Director
Workshops&Maintenance Dep. (MOH)	Mr. Radwan El Khoudary	Director

MINUTES OF DISCUSSIONS
ON
STUDY ON THE PROJECT
FOR
IMPROVEMENT OF MEDICAL EQUIPMENT IN GAZA

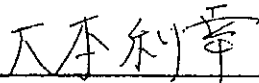
In response to the request from the Palestinian Economic Council for Development and Reconstruction(PECDAR), the Government of Japan decided to conduct a Study on the Project for Improvement of Medical Equipment in Gaza (hereinafter referred to as "the Project") and entrusted the survey to Japan International Cooperation Agency (JICA).

JICA has sent a study team (hereinafter referred to as "the Team") from 27th January to 2nd February, 1995.

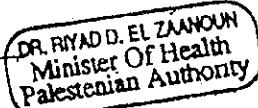
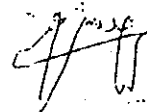
The Team held discussions with the officials concerned of the Palestinian Side conducted field surveys at the study area.

As a result of discussions and field surveys, both sides confirmed the main items described on the attached sheets.

Gaza, 2nd February, 1995



Mr. Toshiyuki OMOTO
Coordinator
Study Team, JICA



DR. RIYAD D. EL ZANOUN
Minister Of Health
Palestinian Authority

Dr. Riyad Zanoun
Minister
Ministry of Health
Palestinian Authority

1. Objective of the Project

The Project contributes to the improvement of the health condition of the population of Gaza by reinforcing Shifa Hospital, Nasr Pediatric Hospital, Ophthalmic Hospital and Nasser Hospital (Khan Younis Hospital).

2. Project sites

The sites of the Project are the above-mentioned four Hospitals.

3. Responsible and Executing Agency of the Project

Responsible and Executing Agency is Ministry of Health

4. Items requested by the Palestinian Side

The final items requested by the Palestinian side after discussions with the Team are shown with priority in ANNEX I. However, the items and the number of them to be included in the Project under Japan's Grant Aid will be decided after review of the study in Japan.

5. Schedule of the study

5-1 The Team will proceed to review the study in Japan.

5-2 JICA will complete the final summary report and send it to the PECJAR around April, 1995.

6. Japan's Grant Aid system

6-1 The Palestinian side has understood the system of Japan's Grant Aid in Annex II as explained by the Team.

6-2 The Palestinian side will take the necessary measures described in ANNEX III for the smooth implementation of the Project on condition that Japan's Grant Aid is extended to the Project.

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7. Other relevant issues

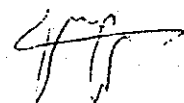
On condition that Japan's Grant Aid is extended to the Project;

7-1 The Palestinian side will allocate the necessary budget and personnel for "Proper Use" of the Project, as defined hereinafter.

7-2 The Palestinian side will prepare the proper equipped rooms at the site in which the equipment will be installed.

7-3 The Palestinian side will prepare the secured warehouse for the equipment to be delivered to the sites.

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ANNEX I

REVISED EQUIPMENT LISTS
FOR
IMPROVEMENT OF MEDICAL EQUIPMENT IN GAZA

JICA STUDY MISSION

2 FEBRUARY, 1995

The equipment lists herewith enclosed indicate the tentative equipment items and quantities that will be included in the Japanese Grant Aid Project: Improvement of Medical Equipment In Gaza, as per the revisions undertaken by the JICA Team in Japan of the preliminary list of 7 December, 1994.

The enclosed revised lists indicate three levels of priorities: Items that are marked in the first column as priority 1 are the basic components of the project, the quantities of which are not likely to change. Items that are marked in the first column as priority 2 are also basic components of the project, but their quantities may be subject to reductions after review of the study in Japan. Items that are marked in the first column as priority 3 are components of the project that may be deleted after review of the study in Japan.

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SHIFA HOSPITAL

PTY	Item	Name of Equipment	Department	QTY	Notes
1	SH-001	Manual Resuscitator for Adult	General Surgery	13	
1	SH-002	Manual Resuscitator for Child	General Surgery	10	
1	SH-003	Laparoscope System for Surgery	General Surgery	1	
1	SH-004	Fiberscope Accessory Set	General Surgery	1	
1	SH-005	Ventilator for Adult / Infant	General Surgery	2	
1	SH-006	Amputation Instruments Set	General Surgery	2	
1	SH-007	Gastrectomy Instruments Set	General Surgery	2	
1	SH-008	Cholecystectomy Instruments Set	General Surgery	4	
1	SH-009	Nephrectomy Instruments Set	General Surgery	2	
1	SH-010	Prostatectomy Instruments Set	General Surgery	2	
1	SH-011	Thyroidectomy Instruments Set	General Surgery	3	
3	SH-012	Instrument Cabinet	General Surgery	5	
1	SH-013	Blood Warmer	O.R.	7	
1	SH-014	Multi-purpose Operating Table	O.R.	3	
1	SH-015	Stretcher for Recovery Room	O.R.	3	
3	SH-016	Standard Mayo Tray	O.R.	10	
1	SH-017	C-Arm Fluoroscopy	O.R.	1	
1	SH-018	Mobile X-Ray Shield	O.R.	1	
3	SH-019	X-Ray Protection Wear	O.R.	1	
1	SH-020	Dental Unit	Oral Surgery	1	
3	SH-021	Instruments Cabinet	Oral Surgery	2	
1	SH-022	Electro-Cautery Apparatus	Oral Surgery	1	
3	SH-023	Ultrasonic Scalar	Oral Surgery	1	
1	SH-024	Diagnostic Instruments Set	Oral Surgery	2	
1	SH-025	Mandibular Instruments Set	Oral Surgery	1	
1	SH-026	Maxillary Instruments Set	Oral Surgery	1	
1	SH-027	Craniofacial Instruments Set	Oral Surgery	1	
1	SH-028	Transbuccal Instruments Set	Oral Surgery	1	
1	SH-029	Teeth Extraction Set	Oral Surgery	1	
1	SH-030	Air Drill	Oral Surgery	1	
1	SH-031	Oral Surgical Small Items Set	Oral Surgery	1	
3	SH-032	Oral Surgical Instrument Sharpner	Oral Surgery	1	
1	SH-033	Neurosurgical Operating Table	Neurosurgery	1	
1	SH-034	Self Retaining Brain Retractor	Neurosurgery	1	
1	SH-035	Craniotome Set	Neurosurgery	1	
2	SH-036	Plastic Surgery Instruments Set	Plastic Surgery	6	
3	SH-037	Whirl Pool	Plastic Surgery	1	
3	SH-038	Lift for Whirl Pool	Plastic Surgery	1	
1	SH-039	Ventilator for Adult / Infant	Plastic Surgery	2	
1	SH-040	Blood Warmer	Plastic Surgery	1	
1	SH-041	Infusion Pump	Plastic Surgery	4	
1	SH-042	Defibrillator with Monitor	Plastic Surgery	1	
1	SH-043	Incubator Intermediate	Pediatric Surgery	3	
1	SH-044	Ventilator Pediatric	Pediatric Surgery	1	
1	SH-045	Ventilator for Neonatal	Pediatric Surgery	1	
1	SH-046	Infusion Pump	Pediatric Surgery	5	
3	SH-047	Warming Mattress	Pediatric Surgery	2	
1	SH-048	Intermittent Negative Suction Unit	Pediatric Surgery	2	
1	SH-049	Basic Pediatric Surgical Instrument Set	Pediatric Surgery	1	
1	SH-050	Basic Infant Surgical Instruments Set	Pediatric Surgery	1	
1	SH-051	Nerve Stimulator	Pediatric Surgery	1	
1	SH-052	Defibrillator with Monitor	Pediatric Surgery	1	
1	SH-053	Vascular Surgical Instruments Set	Pediatric Surgery	3	
1	SH-054	Peripheral Vascular Testing Apparatus	Pediatric Surgery	1	
1	SH-055	Anesthesia Machine	Anesthesia	4	
1	SH-056	Anesthesia Monitor	Anesthesia	6	
1	SH-057	Ventilator for Anesthesia Machine	Anesthesia	7	
1	SH-058	Pulse Oxymeter for Anesthesia Monitor	Anesthesia	7	
1	SH-059	Pulse Oxymeter, Portable	Anesthesia	5	
3	SH-060	Bain System	Anesthesia	10	
3	SH-061	Jackson Rees	Anesthesia	10	
1	SH-062	Portable Ventilator, Adult / Infant	Anesthesia	4	
1	SH-063	Laryngofiberscope for Anesthesia	Anesthesia	2	
1	SH-064	Portable Oxygen Cylinder	Anesthesia	3	
2	SH-065	Double Endotracheal Tube	Anesthesia	10	

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PTY	Item	Name of Equipment	Department	QTY	Notes
1	SH-066	Capnograph	I.C.U.	2	
1	SH-067	Ventilator for Adult/Infant	I.C.U.	2	
1	SH-068	Metabolic Rate Measure	I.C.U.	1	
1	SH-069	Portable Ventilator	I.C.U.	2	
1	SH-070	Infusion Pump	I.C.U.	6	
1	SH-071	Instrument Cabinet	I.C.U.	2	
1	SH-072	Basic X-ray Machine	Radiology	4	
3	SH-073	X-Ray Protection Wear	Radiology	4	
2	SH-074	Automatic X-ray Film Processor	Radiology	2	
1	SH-075	Fluoroscopy	Radiology	1	
1	SH-076	Portable Suction Machine	OBS/GYN	4	
1	SH-077	Laryngoscope	OBS/GYN	2	
1	SH-078	Electro-Cautery Unit for Gynecology	OBS/GYN	2	
1	SH-079	Cryosurgery Unit for Gynecology	OBS/GYN	1	
1	SH-080	General Surgical Table	OBS/GYN	2	
1	SH-081	Colposcope	OBS/GYN	1	
1	SH-082	Vacuum Extractor	OBS/GYN	3	
1	SH-083	Washing & Drying Machine, Domestic	OBS/GYN	1	
1	SH-084	Operating Light, Ceiling Type	OBS/GYN	1	
2	SH-085	Delivery Monitor	OBS/GYN	10	
1	SH-086	Infant Ventilator	OBS/GYN	1	
3	SH-087	Fetal Doppler	OBS/GYN	4	
3	SH-088	Wheel Chair	OBS/GYN	4	
1	SH-089	Mobile X-ray Machine	OBS/GYN	1	
1	SH-090	Mobile X-ray Shield	OBS/GYN	1	
3	SH-091	X-Ray Protection Wear	OBS/GYN	1	
1	SH-092	Resuscitator	OBS/GYN	2	
2	SH-093	Obs/Gyn Instruments Set	OBS/GYN	3	
3	SH-094	Instrument Cabinet	OBS/GYN	3	
1	SH-095	Automatic Tissue Processor	Histopathology	1	
1	SH-096	Automatic Tissue Staining Machine	Histopathology	1	
1	SH-097	Paraffin Oven	Histopathology	2	
1	SH-098	Fume Hood	Histopathology	1	
1	SH-099	Slide Warmer	Histopathology	5	
1	SH-100	Tissue Floating Bath	Histopathology	2	
2	SH-101	Staining Set	Histopathology	10	
1	SH-102	Freezing Microtome	Histopathology	1	
1	SH-103	Microtome Blade Holder	Histopathology	1	
1	SH-104	Microtome Disposable Blade	Histopathology	12	
1	SH-105	Rotary Microtome	Histopathology	1	
2	SH-106	Micro-slide Carrier	Histopathology	50	
2	SH-107	Micro-slide Box	Histopathology	20	
2	SH-108	Color Solution Bottle	Histopathology	100	
1	SH-109	Slide Filing Cabinet	Histopathology	2	
1	SH-110	Block Filing Cabinet	Histopathology	2	
1	SH-111	Microwave Staining Oven	Histopathology	1	
1	SH-112	Diamond Pencil	Histopathology	5	
1	SH-113	Wax Dispenser	Histopathology	1	
1	SH-114	Incubator	Histopathology	1	
1	SH-115	Microscope with 4 Viewer	Histopathology	1	
3	SH-116	Medical Camera	Histopathology	1	
3	SH-117	Refrigerator	Histopathology	1	
1	SH-118	Fluorescent Microscope	Histopathology	1	
1	SH-119	Water Distiller / Deionizer	Histopathology	1	
3	SH-120	Shelf for Carton Box	Histopathology	1	

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PTY	Item	Name of Equipment	Department	QTY	Notes
1	SH-121	Colonofiberscope for Adult	Internal Medicine	1	
1	SH-122	Colonofiberscope for Pediatric	Internal Medicine	1	
1	SH-123	Gastrofiberscope for Adult	Internal Medicine	1	
1	SH-124	Gastrofiberscope for Pediatric	Internal Medicine	1	
1	SH-125	Duodenofiberscope for Adult	Internal Medicine	1	
1	SH-126	Fiberscope Accessory Set	Internal Medicine	1	
1	SH-127	Fiberscope Cabinet	Internal Medicine	1	
1	SH-128	Endoscopy Table	Internal Medicine	1	
1	SH-129	Echo-Doppler for Heart	Internal Medicine	1	
1	SH-130	Echograph	Internal Medicine	1	
2	SH-131	E.C.G. Multi-channel	Internal Medicine	6	
1	SH-132	Infusion Pump	Internal Medicine	6	
1	SH-133	Laryngoscope	Internal Medicine	3	
2	SH-134	Bed-side Monitor for C.C.U.	Internal Medicine	8	
2	SH-135	Portable Suctin Machine	Internal Medicine	8	
1	SH-136	Ventilator For Adult	Internal Medicine	2	
3	SH-137	Warming Blanket	Internal Medicine	2	
3	SH-138	Emergency Trolley	Internal Medicine	3	
1	SH-139	Mobile X-ray Machine	Internal Medicine	1	
1	SH-140	Mobile X-ray Shield	Internal Medicine	1	
3	SH-141	X-Ray Shield Wear	Internal Medicine	1	
1	SH-142	External Pace Maker	Internal Medicine	2	
3	SH-143	Sphygmomanometer, Mobile Type	Internal Medicine	20	
3	SH-144	Stethoscope for Doctor	Internal Medicine	40	
3	SH-145	Stethoscope for Nurse	Internal Medicine	20	
2	SH-146	Weighing Balance	Internal Medicine	10	
2	SH-147	Height Measure	Internal Medicine	10	
1	SH-148	Angio Film Viewer	Internal Medicine	1	
2	SH-149	X-ray Viewer, Wall-mounted	Internal Medicine	10	
2	SH-150	Wheel Chair	Internal Medicine	10	
1	SH-151	Defibrillator	Internal Medicine	2	
1	SH-152	Treadmill	Internal Medicine	1	
1	SH-153	E.C.G. for Treadmill	Internal Medicine	1	
1	SH-154	Electromyograph	Internal Medicine	1	
1	SH-155	Medicine Refrigerator, Large	Pharmacy	1	
1	SH-156	Medicine Refrigerator, Small	Pharmacy	1	
1	SH-157	Mobile Carton Box Lift	Pharmacy	2	
3	SH-158	Air-conditioner	Pharmacy	1	
2	SH-159	Basic Orthopedic Instruments Set	Orthopedic	4	
1	SH-160	Arthrotomy Menisectomy Ins. Set	Orthopedic	2	
1	SH-161	Skull Traction Set	Orthopedic	1	
1	SH-162	Traction Equipment	Orthopedic	1	
2	SH-163	Electric Plaster Saw Set	Orthopedic	8	
1	SH-164	Pneumatic Tourniquet	Orthopedic	2	
1	SH-165	Dynamic Hip Screw Instruments Set	Orthopedic	2	
1	SH-166	Kuntscher Nail Instruments Set	Orthopedic	2	
1	SH-167	Austin Moore's Instruments Set	Orthopedic	1	
1	SH-168	Harrington Fixation Instruments Set	Orthopedic	2	
1	SH-169	Minor Orthopedic Instruments Set	Orthopedic	4	
1	SH-170	Wire Tightener	Orthopedic	2	
1	SH-171	Compression Plate Set	Orthopedic	4	
1	SH-172	Anterior Spinal Instruments Set	Orthopedic	1	
1	SH-173	Hand Surgery Instruments Set	Orthopedic	2	
1	SH-174	Laminectomy Instruments Set	Orthopedic	2	
1	SH-175	Pneumatic Bone Drill	Orthopedic	1	
1	SH-176	Orthopedic Operating Table	Orthopedic	2	
1	SH-177	A.O. Instruments Set	Orthopedic	3	
1	SH-178	External Fixator	Orthopedic	30	
3	SH-179	Instrument Cabinet	Orthopedic	3	

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2TY	Item	Name of Equipment	Department	QTY	Notes
1	SH-180	E.N.T. Unit Single Type	E.N.T.	2	
1	SH-181	E.N.T. Unit Double Type	E.N.T.	1	
1	SH-182	Diagnostic Microscope Wall Type	E.N.T.	1	
1	SH-183	Diagnostic Microscope Mobile Type	E.N.T.	1	
3	SH-184	Skull Model	E.N.T.	2	
3	SH-185	Larynx Model	E.N.T.	2	
3	SH-186	Ear Model	E.N.T.	2	
3	SH-187	Eye Ball Model	E.N.T.	2	
1	SH-188	Oto-ophthalmoscope	E.N.T.	2	
1	SH-189	Tonsillectomy Instruments Set	E.N.T.	3	
1	SH-190	Stapedectomy Instruments Set	E.N.T.	2	
1	SH-191	Tympanoplasty Instruments Set	E.N.T.	2	
1	SH-192	Diagnostic E.N.T. Fiberscope	E.N.T.	1	
1	SH-193	Fiberscope Sterilization Tray	E.N.T.	1	
3	SH-194	Instrument Cabinet	E.N.T.	3	
1	SH-195	Bronchofiberscope for Adult	Chest Medicine	1	
1	SH-196	Bronchofiberscope for Pediatric	Chest Medicine	1	
1	SH-197	Fiberscope Cabinet	Chest Medicine	1	
1	SH-198	Fiberscope Accessory Set	Chest Medicine	1	
1	SH-199	Endoscopy Table	Chest Medicine	1	
1	SH-200	Mobile X-ray Unit	Chest Medicine	1	
1	SH-201	Mobile X-ray Shield	Chest Medicine	1	
3	SH-202	X-Ray Protection Wear	Chest Medicine	1	
1	SH-203	Ventilator for Adult / Infant	Chest Medicine	2	
1	SH-204	Blood Gas Analyzer	Chest Medicine	1	
1	SH-205	Portable Suction	Chest Medicine	1	
1	SH-206	Intermittent Negative Suction Unit	Chest Medicine	1	
1	SH-207	Thoracoscope	Chest Medicine	1	
1	SH-208	Electric Saw for Sternum	Chest Medicine	1	
1	SH-209	Cryotherapy Unit	Dermatology	1	
1	SH-210	Electro-Cautery Unit	Dermatology	1	
1	SH-211	Microscope	Dermatology	1	
1	SH-212	Punch Biopsy Instrument	Dermatology	10	
3	SH-213	Woods Light	Dermatology	1	
1	SH-214	Incubator Large	Bacteriology Lab	3	
1	SH-215	CO2 Incubator	Bacteriology Lab	1	
1	SH-216	Autoclave Large	Bacteriology Lab	1	
1	SH-217	Hot Oven Large	Bacteriology Lab	1	
1	SH-218	Colony Counter	Bacteriology Lab	2	
1	SH-219	Microscope	Bacteriology Lab	2	
1	SH-220	Microscope Stage Warmer	Bacteriology Lab	1	
1	SH-221	Microscope with Discussion Head	Bacteriology Lab	1	
1	SH-222	Anaerobic Jar	Bacteriology Lab	6	
1	SH-223	Water Bath	Bacteriology Lab	2	
1	SH-224	Shaking Water Bath	Bacteriology Lab	1	
1	SH-225	Hot Plate	Bacteriology Lab	2	
1	SH-226	Shaker	Bacteriology Lab	2	
1	SH-227	Slide Staining Set	Bacteriology Lab	2	
1	SH-228	Micro-Sliding Box	Bacteriology Lab	5	
1	SH-229	Gas Burner	Bacteriology Lab	3	
1	SH-230	Medical Refrigerator	Bacteriology Lab	1	
1	SH-231	Analytical Balance	Bacteriology Lab	1	
1	SH-232	PH Meter	Bacteriology Lab	1	
1	SH-233	Fume Hood	Bacteriology Lab	1	
1	SH-234	Water Distiller / Deionizer	Bacteriology Lab	2	
3	SH-235	Instruments Cabinet	Bacteriology Lab	2	
3	SH-236	Small Lab Items Set	Bacteriology Lab	1	
1	SH-237	Microscope	Hematology Lab	1	
1	SH-238	Microscope with Discussion Head	Hematology Lab	1	
1	SH-239	Platelet Aggregator	Hematology Lab	1	
3	SH-240	Instruments Cabinet	Hematology Lab	1	

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PTY	Item	Name of Equipment	Department	QTY	Notes
1	SH-241	Chemistry Auto Analyzer	Chemistry Lab	1	
1	SH-242	Electrolyte Analyzer	Chemistry Lab	1	
1	SH-243	Power Supply for Electrophoresis	Chemistry Lab	1	
1	SH-244	Electrophoresis Densitometer	Chemistry Lab	1	
1	SH-245	Billirubinometer Analyzer	Chemistry Lab	1	
1	SH-246	Refractometer for Urine	Chemistry Lab	1	
1	SH-247	Instruments Cabinet	Chemistry Lab	1	
1	SH-248	Hematology Analyzer	Blood Bank	1	
1	SH-249	Blood Bank Fridge	Blood Bank	1	
1	SH-250	Deep Freezer, Ultra-Low Temperature	Blood Bank	1	
1	SH-251	Deep Freezer, Low Temperature	Blood Bank	1	
1	SH-252	Cell Washing Centrifuge	Blood Bank	1	
1	SH-253	Serofuge for Cross-match	Blood Bank	2	
1	SH-254	Electric Balance and Shaker	Blood Bank	2	
1	SH-255	Water Bath	Blood Bank	1	
1	SH-256	View Box	Blood Bank	1	
1	SH-257	Donor's Chair	Blood Bank	6	
1	SH-258	Incubator	Blood Bank	1	
1	SH-259	Plasma Thawing Bath	Blood Bank	1	
1	SH-260	Rolling Mixer	Blood Bank	2	
1	SH-261	Cystoscope for Child	Urology	1	
1	SH-262	Resectoscope for TUR	Urology	1	
1	SH-263	Fiberscope Accessory Set	Urology	1	
1	SH-264	Ultrasonic Lithotrite Set	Urology	1	
1	SH-265	Electro-Cautery for TUR	Urology	1	
1	SH-266	Electro-Stimulator Unit, Interferential	Physiotherapy	1	
1	SH-267	Transcutaneous Stimulator	Physiotherapy	1	
1	SH-268	Infra-red Therapy Unit	Physiotherapy	1	
2	SH-269	Ultraviolet Therapy Unit	Physiotherapy	2	
1	SH-270	Hot Pack Therapy Unit	Physiotherapy	1	
1	SH-271	Ice Pack Therapy Unit	Physiotherapy	1	
1	SH-272	Hydrotherapy Unit For Arm & Leg	Physiotherapy	1	
2	SH-273	Traction Unit	Physiotherapy	2	
1	SH-274	Exercise Ball	Physiotherapy	1	
1	SH-275	Wheel Chair for Child	Physiotherapy	1	
1	SH-276	Band Waist Set	Physiotherapy	1	
1	SH-277	Intermediate Incubator	Neonatal	4	
2	SH-278	Oxygen Head Box	Neonatal	10	
1	SH-279	Patient Monitor, 6 Parameters	Neonatal	2	
1	SH-280	Patient Monitor, 4 Parameters	Neonatal	4	
1	SH-281	Blood Gas Analyzer	Neonatal	1	
1	SH-282	Infant Ventilator	Neonatal	4	
1	SH-283	Infusion Pump	Neonatal	10	
1	SH-284	Syringe Pump	Neonatal	6	
1	SH-285	Phototherapy Unit	Neonatal	7	
1	SH-286	Pulse Oxymeter	Neonatal	5	
1	SH-287	Oxygen Blender	Neonatal	8	
1	SH-288	Refractometer for Urine	Neonatal	2	
1	SH-289	E.C.G. 1-channel	Neonatal	1	
1	SH-290	Double-Wall Incubator	Neonatal	4	
1	SH-291	Electric Balance	Neonatal	2	
3	SH-292	E.O. Sterilizer	Central Sterilization	1	
1	SH-293	Autopsy Instruments Set	Forensic Medicine	1	
1	SH-294	Autopsy Refrigerator	Forensic Medicine	1	
1	SH-295	Autopsy Refrigerator for Samples	Forensic Medicine	1	
1	SH-296	Post-Mortem Knife Set	Forensic Medicine	1	
1	SH-297	Post-Mortem Forceps Set	Forensic Medicine	1	
1	SH-298	Ambulance	General	1	
3	SH-299	Slide Projector	General	1	
3	SH-300	Overhead Projector	General	1	
3	SH-301	Video & TV System	General	1	
3	SH-302	Screen For Projector	General	1	
1	SH-303	Sterilizer for Medical Disposables	General	1	
1	SH-304	Incinerator for Medical Disposables	General	1	
3	SH-305	Cleaning Instruments Set	General	25	

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CENTRAL WORKSHOP

PTY	Item	Name of Equipment	Department	QTY	Notes
1	WR-001	Small Track With Lift	General	1	
1	WR-002	Box Car For Maintenance Service	General	1	
1	WR-003	Blue Print Machine	General	1	
3	WR-004	Engine Generator Portable	General	2	
1	WR-005	E.C.G. Signal Generator	Electric / Biomedical	1	
1	WR-006	Earth Tester	Electric / Biomedical	2	
1	WR-007	X-Ray Tube Current Meter	Electric / Biomedical	1	
1	WR-008	X-Ray Tube Peak Voltage Meter	Electric / Biomedical	2	
1	WR-009	Dosimeter	Electric / Biomedical	2	
2	WR-010	Digital VOM With Capacitor	Electric / Biomedical	10	
1	WR-011	Phase Meter	Electric / Biomedical	2	
1	WR-012	Insulation Tester	Electric / Biomedical	5	
1	WR-013	Clamp Meter Set	Electric / Biomedical	2	
1	WR-014	DC Power Supply	Electric / Biomedical	2	
1	WR-015	20 MHz Dual Trace Oscilloscope	Electric / Biomedical	1	
1	WR-016	20 MHz Dual Trace Strage Oscillosc.	Electric / Biomedical	1	
1	WR-017	100 MHz Dual Trace Oscilloscope	Electric / Biomedical	1	
1	WR-018	Portable 20 MHz Oscilloscope	Electric / Biomedical	3	
1	WR-019	Universal Frequency Counter	Electric / Biomedical	2	
1	WR-020	Function Generator	Electric / Biomedical	2	
3	WR-021	Equipment Cleaner	Electric / Biomedical	5	
1	WR-022	Digital Temperature Meter	Electric / Biomedical	5	
3	WR-023	Resistor / Capacitor Set	Electric / Biomedical	1	
1	WR-024	Electric Parts Cabinet	Electric / Biomedical	4	
3	WR-025	Protection Wears for X-Ray Repairing	Electric / Biomedical	6	
3	WR-026	Vacuum Cleaner	Electric / Biomedical	1	
1	WR-027	Manuals / Documents Storage Cabinet	Electric / Biomedical	4	
1	WR-028	Equipment Storage Cabinet	Electric / Biomedical	2	
2	WR-029	Electronics Engineer's Tool Set	Electric / Biomedical	15	
1	WR-030	Vibration Drill	Iron Work	4	
1	WR-031	Hammer Drill	Iron Work	2	
1	WR-032	Electric Drill	Iron Work	4	
1	WR-033	Drill Bit Set	Iron Work	1	
1	WR-034	Stationary Drill	Iron Work	3	
1	WR-035	Spot Welding Machine	Iron Work	3	
1	WR-036	Arc Welding Machine	Iron Work	4	
3	WR-037	Welding Rod Drying Cabinet	Iron Work	3	
2	WR-038	Welding Protection Wear Set	Iron Work	10	
1	WR-039	Bench Grinder	Iron Work	3	
1	WR-040	Vice	Iron Work	3	
1	WR-041	Portable Grinder Set	Iron Work	3	
1	WR-042	High Speed Cutter	Iron Work	3	
1	WR-043	Engine Welder	Iron Work	3	
3	WR-044	Tool Storage Cabinet	Iron Work	3	
2	WR-045	Iron Work Engineer's Tool Set	Iron Work	15	
1	WR-046	Digital Multimeter	Mechanic	3	
1	WR-047	Vibration Drill	Mechanic	3	
1	WR-048	Electric Drill	Mechanic	4	
1	WR-049	Drill Bit Set	Mechanic	1	
3	WR-050	Tool Storage Cabinet	Mechanic	3	
1	WR-051	Machinical Work Engineer's Tool Set	Mechanic	5	
1	WR-052	Air Blower	Refrigeration	3	
1	WR-053	Angle Grinder Set	Refrigeration	3	
1	WR-054	Vibration Drill	Refrigeration	3	
1	WR-055	Electric Drill	Refrigeration	4	
1	WR-056	Drill Bit Set	Refrigeration	1	
1	WR-057	Digital Multimeter	Refrigeration	3	
1	WR-058	Digital Thermometer	Refrigeration	3	
1	WR-059	Clamp Meter	Refrigeration	3	
1	WR-060	Vacuum Pump for Refrigerator	Refrigeration	3	
1	WR-061	Zig Saw	Refrigeration	3	
1	WR-062	Water Pressure Cleaner	Refrigeration	2	
1	WR-063	Refrigerator Gas Filling Set	Refrigeration	3	
3	WR-064	Tool Storage Cabinet	Refrigeration	3	
2	WR-065	Refrigeration Work Engineer's Tool Set	Refrigeration	10	

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PTY	Item	Name of Equipment	Department	QTY	Notes
1	WR-066	Band Saw	Wooden Work	3	
1	WR-067	Slide Round Saw	Wooden Work	3	
1	WR-068	Electric Plainer Set	Wooden Work	3	
1	WR-069	Automatic / Manual Plainer	Wooden Work	3	
1	WR-070	Orbital Sander	Wooden Work	3	
1	WR-071	Vibration Drill	Wooden Work	3	
1	WR-072	Electric Drill	Wooden Work	3	
1	WR-073	Dril Bit Set	Wooden Wark	1	
1	WR-074	Ruter Machine	Wooden Work	3	
1	WR-075	Ruter Bit	Wooden Work	3	
1	WR-076	Round Saw With Dust Bag	Wooden Work	3	
1	WR-077	Plainer Blade Sharpener	Wooden Work	1	
1	WR-078	Round Saw Machine	Wooden Work	2	
3	WR-079	Instrument Storage Cabinet	Wooden Work	3	
2	WR-080	Carpenter's Tool Set	Wooden Wark	9	
1	WR-081	Pipe Threading Set	Civil Work	3	
1	WR-082	Pipe Threading Machine	Civil Work	3	
1	WR-083	Hydraulic Pipe Bender	Civil Work	3	
1	WR-084	Angle Grinder	Civil Work	3	
1	WR-085	Vibration Drill	Civil Work	3	
1	WR-086	Hammer Drill	Civil Work	3	
1	WR-087	Electric Drill	Civil Work	3	
1	WR-088	Dril Bit Set	Civil Work	1	
1	WR-089	Aluminium Extension Ladder	Civil Wark	3	
1	WR-090	Electric Recipro Saw	Civil Work	3	
1	WR-091	Surveying Level Instrument	Civil Work	1	
1	WR-092	Theodolite	Civil Work	1	
1	WR-093	Distance Measuring Ultrasound	Civil Work	1	
3	WR-094	Instrument Storage Cabinet	Civil Work	3	
2	WR-095	Plumber's Tool Set	Civil Work	15	

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NASR CHILDREN'S HOSPITAL

PTY	Item	Name of Equipment	Department	QTY	Notes
1	NS-001	Dark Room Equipment Set	Radiology	1	
1	NS-002	X-ray Apparatus with Fluoroscopy	Radiology	1	
1	NS-003	Mobile X-ray Unit	Radiology	1	
1	NS-004	Mobile X-ray Shield	Radiology	1	
3	NS-005	X-ray Protection Wear	Radiology	2	
1	NS-006	E.C.G. with Analyzer	Cardiology	1	
1	NS-007	Defibrillator for Children	Cardiology	1	
1	NS-008	Diagnostic Head Light	Pediatric	2	
1	NS-009	Portable Nebulizer	Pediatric	10	
1	NS-010	Ophthalmoscope	Pediatric	13	
1	NS-011	Otoscope	Pediatric	13	
2	NS-012	Pediatric Balance	Pediatric	10	
3	NS-013	Sphygmomanometer, mobile type	Pediatric	6	
3	NS-014	Sphygmomanometer, wall-hung type	Pediatric	6	
3	NS-015	Stethoscope for Infant	Pediatric	10	
3	NS-016	Stethoscope for Child	Pediatric	10	
3	NS-017	Stethoscope for Adult	Pediatric	10	
3	NS-018	Instruments Trolley	Pediatric	6	
1	NS-019	Medical Instruments Cabinet	Pediatric	6	
1	NS-020	Manual Resuscitator for Child	Pediatric	5	
1	NS-021	Bedside monitor, Multi-Channel	Pediatric	3	
1	NS-022	Air Mattress for Pediatric	Pediatric	3	
1	NS-023	Infant Ventilator	Pediatric	2	
1	NS-024	Manual Resuscitator for Infant	Neonatal	5	
1	NS-025	Phototherapy Unit	Neonatal	6	
1	NS-026	Infant Warmer	Neonatal	6	
1	NS-027	Transport Incubator with Trolley	Neonatal	1	
1	NS-028	Infusion Pump	Neonatal	4	
1	NS-029	Syringe Pump	Neonatal	3	
1	NS-030	Intermediate Incubator	Neonatal	2	
1	NS-031	Blood Warmer	Blood Bank	1	
1	NS-032	Electrolyte Analyzer	Biochemistry Lab	1	
1	NS-033	Large Centrifuge	Biochemistry Lab	1	
1	NS-034	Water Bath Medium	Biochemistry Lab	1	
1	NS-035	Sweat Chloride Analyzer	Biochemistry Lab	1	
1	NS-036	Vortex Mixer	Biochemistry Lab	2	
1	NS-037	Automatic Pipette 2-50 µL	Biochemistry Lab	3	
1	NS-038	Automatic Pipette 40-200 µL	Biochemistry Lab	3	
1	NS-039	Automatic Pipette 100-1000 µL	Biochemistry Lab	3	
3	NS-040	Instrument Cabinet	Biochemistry Lab	2	
1	NS-041	Anaerobic Jar	Microbiology Lab	3	
1	NS-042	Hot Plate with Magnetic Stirrer	Microbiology Lab	2	
1	NS-043	Binocular Microscope	Microbiology Lab	1	
1	NS-044	Binocular Microscope	Parasitology Lab	1	
1	NS-045	Centrifuge Medium	Parasitology Lab	1	
1	NS-046	Microscope with Discussion Head	Hematology Lab	1	
1	NS-047	Hematocrit Centrifuge	Hematology Lab	1	
1	NS-048	Glucometer	Hematology Lab	4	
1	NS-049	Blood Cell Counter	Hematology Lab	1	
1	NS-050	Shaker for Tubes & Slides	Serology Lab	1	
1	NS-051	Serofuge for Cross-match	Serology Lab	1	
1	NS-052	Autoclave, Vertical Type	Sterilization for Lab	1	
1	NS-053	Water Distiller / Deionizer	Sterilization for Lab	1	
1	NS-054	Hot Air Sterilizer	Sterilization for Lab	1	
3	NS-055	Lab Small Items Set	General Lab	1	
3	NS-056	Lab Instrument Cabinet	General Lab	5	
1	NS-057	Lab Refrigerator	General Lab	3	
1	NS-058	Medicine Refrigerator	Pharmacy	1	

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PTY	Item	Name of Equipment	Department	QTY	Notes
3	NS-059	Slide Projector	General	1	
3	NS-060	Overhead Projector	General	1	
3	NS-061	Video & TV System	General	1	
3	NS-062	Screen For Projector	General	1	
3	NS-063	Wheel Chair for Pediatric	General	6	
1	NS-064	Autoclave for Medical Disposables	General	1	
1	NS-065	Incinerator for Medical Disposables	General	1	
3	NS-066	Cleaning Instrument Set	General	1	
3	NS-067	Washing & Drying Machine, Home Size	General	1	
1	NS-068	Milk Bottle Washing Machine	Milk Kitchen	1	
1	NS-069	Bone Saw	Kitchen	2	
1	NS-070	Balance	Kitchen	1	
2	NS-071	Dietic Scale	Kitchen	2	
1	NS-072	Electric Citrus Fruit Squeezer	Kitchen	1	
1	NS-073	Electric Cutter for Meat	Kitchen	2	
2	NS-074	Electric Toaster	Kitchen	2	
1	NS-075	Mixer	Kitchen	1	
1	NS-076	Gas Convection Oven	Kitchen	1	
1	NS-077	Gas Cooker	Kitchen	1	
1	NS-078	Gas Fryer	Kitchen	1	
3	NS-079	Gas Solid Top, Boiling Table	Kitchen	1	
1	NS-080	High Pressure Steamer	Kitchen	1	
1	NS-081	Meat Mincing Machine	Kitchen	1	
1	NS-082	Potato Peeler	Kitchen	1	
1	NS-083	Refrigerator	Kitchen	1	
1	NS-084	Rotating Boiling Tank	Kitchen	1	
1	NS-085	Slicing Machine	Kitchen	1	
1	NS-086	Vegetable Chopping Machine	Kitchen	1	
1	NS-087	Bain Marie Unit with Trolley	Kitchen	1	
2	NS-088	Crockery Stacking Trolley	Kitchen	1	
2	NS-089	Crockery Storage Unit	Kitchen	2	
2	NS-090	Tray for Patients	Kitchen	100	
2	NS-091	Food Trolley	Kitchen	6	
1	NS-092	Mobile Cupboard for Trays	Kitchen	1	
1	NS-093	Mobile Cutlery Stand	Kitchen	1	
1	NS-094	Stainless Steel Platform Trolley	Kitchen	2	
2	NS-095	Stainless Steel Trolley	Kitchen	3	
1	NS-096	Vegetable Rack	Kitchen	2	
3	NS-097	Storage/Service Cabinet	Kitchen	3	

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EYE HOSPITAL

PTY	Item	Name of Equipment	Department	QTY	Notes
1	EY-001	Yag Laser	Laser Room	1	
1	EY-002	Anesthesia Machine	O.R.	1	
1	EY-003	Giant Electric Magnet	O.R.	1	
1	EY-004	Intercom for Theater	O.R.	1	
1	EY-005	Vitrectomy Unit	O.R.	1	
1	EY-006	Phacoemulsification Unit	O.R.	1	
1	EY-007	Microdiamond Knife	O.R.	1	
1	EY-008	Microsurgery Instrument Set	O.R.	3	
1	EY-009	Operating Microscope	O.R.	1	
1	EY-010	Ophthalmic Surgeon Stool	O.R.	3	
1	EY-011	Electro-Cautery Apparatus	O.R.	1	
1	EY-012	Ophthalmic Cryosurgery Apparatus	O.R.	1	
1	EY-013	Instrument Storage Container	O.R.	1	
1	EY-014	Through-door Steam Sterilizer	O.R.	1	
3	EY-015	Instrument Cabinet	O.R.	1	
1	EY-015	Mobile X-ray Apparatus	X-Ray	1	
1	EY-016	Mobile X-ray Shield	X-Ray	1	
1	EY-017	X-ray Protection Wear	X-Ray	2	
1	EY-018	Dark Room Equipment Set	X-Ray	1	
1	EY-019	E.C.G. 1-channel	Ward	1	
1	EY-020	Patient Monitor	Recovery Room	1	
1	EY-021	Portable Ventilator	Recovery Room	1	
1	EY-022	Auto Refractometer	O.P.D.	1	
1	EY-023	Keratometer	O.P.D.	1	
1	EY-024	Chart Projector	O.P.D.	1	
1	EY-025	Slit Lamp	O.P.D.	3	
1	EY-026	Trial Lens Set	O.P.D.	4	
1	EY-027	Examination Chair	O.P.D.	2	
1	EY-028	Electric Tonometer	O.P.D.	1	
1	EY-029	Ophthalmoscope, Indirect Type	O.P.D.	5	
1	EY-030	Ophthalmoscope, Direct Type	O.P.D.	5	
1	EY-031	X-ray Film Viewer	O.P.D.	6	
1	EY-032	Examination Light, Mobile type	O.P.D.	2	
3	EY-033	Instrument Cabinet	O.P.D.	6	
1	EY-034	Water Distiller / Deionizer	Laboratory	1	
3	EY-035	Instrument Cabinet	Laboratory	6	
1	EY-036	Centrifuge	Laboratory	1	
1	EY-037	Water Bath	Laboratory	1	
1	EY-038	Vortex Mixer	Laboratory	1	
1	EY-039	Spectrophotometer System	Laboratory	1	
1	EY-040	Electrolyte Analyzer	Laboratory	1	
1	EY-041	Glucometer	Laboratory	1	
1	EY-042	Blood Cell Counter	Laboratory	1	
1	EY-043	Hematocrit Centrifuge	Laboratory	1	
1	EY-044	Microscope	Laboratory	1	
1	EY-045	Hemacytometer	Laboratory	1	
1	EY-046	ESR system (Rack & Tubes)	Laboratory	1	
1	EY-047	Small Refrigerator	Laboratory	1	
3	EY-048	Air Conditioner for new lab	Laboratory	1	
3	EY-049	Laboratory Table	Laboratory	1	
3	EY-050	Laboratory Small Items Set	Laboratory	1	
1	EY-051	Medical Refrigerator	Pharmacy	1	
3	EY-052	Slide Projector	General	1	
3	EY-053	Overhead Projector	General	1	
3	EY-054	Video & TV System for Medical	General	1	
3	EY-055	Screen for Projectors	General	1	
3	EY-056	Facility Cleaning Equipment	General	4	
1	EY-057	Sterilizer for Medical Disposables	General	1	
1	EY-058	Incinerator for Medical Disposable	General	1	

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KHAN YOUNES HOSPITAL

PTY	Item	Name of Equipment	Department	QTY	Notes
1	KH-001	Mobile X-ray Unit	Radiology	2	
1	KH-002	Mobile X-ray Shield	Radiology	2	
3	KH-003	X-Ray Protection Wear	Radiology	2	
1	KH-004	Ultrasound Apparatus for general	Radiology	1	
1	KH-005	Duodenofiberscope	Medicine	1	
1	KH-006	Fiberscope Accessory Set	Medicine	1	
1	KH-007	Spirometer	Medicine	1	
3	KH-008	Patient Scale	Medicine	2	
2	KH-009	Mobile Suction Apparatus	Pediatric	7	
3	KH-010	Sphygmomanometer for child, mobile	Pediatric	5	
3	KH-011	Sphygmomanometer for child, box	Pediatric	5	
3	KH-012	Stethoscope for child	Pediatric	10	
1	KH-013	Patient Monitor for Pediatric	Pediatric	3	
1	KH-014	Manual Resuscitator for Child	Pediatric	2	
1	KH-015	E.C.G. for Pediatric, 1-channel	Pediatric	1	
1	KH-016	Refrigerator for Milk Kitchen	Pediatric	1	
1	KH-017	E.E.G.	Pediatric	1	
1	KH-018	Portable Nebulizer	Pediatric	5	
1	KH-019	Angio Film Viewer	Cardiology	1	
1	KH-020	Treadmill for Exercise	Cardiology	1	
1	KH-021	E.C.G. for Treadmill	Cardiology	1	
1	KH-022	External Pacemaker with Defibrillator	Cardiology	1	
1	KH-023	External Pacemaker, box type	Cardiology	1	
3	KH-024	Stethoscope for Cardiology	Cardiology	3	
1	KH-025	E.C.G. Multi-Channel	Cardiology	1	
1	KH-026	Ventilator for Adult / Infant	Cardiology	1	
3	KH-027	Sphygmomanometer, mobile type	Cardiology	4	
1	KH-028	Peripheral Vascular Testing Apparatus	Cardiology	1	
1	KH-029	E.N.T. Microscope, Diagnostic	E.N.T.	1	
1	KH-030	E.N.T. Endostroboscope	E.N.T.	1	
1	KH-031	Bronchoscope, Rigid	E.N.T.	1	
1	KH-032	Esoophagoscope, Rigid	E.N.T.	1	
1	KH-033	Nasalscope	E.N.T.	1	
1	KH-034	Fiberscope Accessory Set	E.N.T.	1	
1	KH-035	E.N.T. Adenotonsillectomy Set	E.N.T.	1	
1	KH-036	E.N.T. Foreign Body Removal Set	E.N.T.	1	
1	KH-037	E.N.T. Myringecotomy Set	E.N.T.	1	
1	KH-038	E.N.T. Ear Polyp Excision Set	E.N.T.	1	
1	KH-039	E.N.T. Sybmucous Diathermy Set	E.N.T.	1	
1	KH-040	E.N.T. Nasal Antrostomy Set	E.N.T.	1	
1	KH-041	E.N.T. Nasal Polypectomy Set	E.N.T.	1	
1	KH-042	E.N.T. Cold Well Lucs Set	E.N.T.	1	
1	KH-043	Laryngoscope, Direct	E.N.T.	1	
1	KH-044	Screening Audiometer	E.N.T.	1	
1	KH-045	Screening Tympanometer	E.N.T.	1	
1	KH-046	Autoclave Desk-Top Type	E.N.T.	1	
3	KH-047	Instrument Cabinet	E.N.T.	1	
1	KH-048	Otoscope, Desk-top Type	E.N.T.	1	
1	KH-049	C-Arm Fluoroscopy Apparatus	O.R.	1	
1	KH-050	Mobile X-Ray Shield	O.R.	1	
3	KH-051	X-Ray Protection Wear	O.R.	1	
1	KH-052	Anesthesia Machine with Ventilator	O.R.	1	
1	KH-053	Pediatric Ventilator for Anesthesia	O.R.	1	
1	KH-054	Anesthesia Monitor	O.R.	1	
1	KH-055	Operating Table	O.R.	1	
1	KH-056	Operating Light	O.R.	1	
3	KH-057	Mobile Suction Machine	O.R.	1	
1	KH-058	Pulse Oxymeter for Adult/Pediatric	O.R.	3	
1	KH-059	Ventilator for Adult / Infant	Recovery Room	2	
1	KH-060	Patient Monitor	Recovery Room	1	
1	KH-061	Dental Unit	Dental	1	
1	KH-062	Autoclave	Dental	1	
1	KH-063	Dental X-ray	Dental	1	
1	KH-064	Electro-cautery Apparatus	Dental	1	
1	KH-065	Extraction Instruments Set	Dental	1	

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PTY	Item	Name of Equipment	Department	QTY	Notes
1	KH-066	Mandibular Instruments Set	Oral Surgery	1	
1	KH-067	Maxillary Instruments Set	Oral Surgery	1	
1	KH-068	Transbuccal Instruments Set	Oral Surgery	1	
1	KH-069	Air Drill fo Oral Surgery	Oral Surgery	1	
3	KH-070	Instrument Cabinet	Oral Surgery	2	
3	KH-071	Warming Mattress	Pediatric Surgery	1	
1	KH-072	Intermediate Incubator	Pediatric Surgery	1	
1	KH-073	Oxygen Tent	Pediatric Surgery	1	
3	KH-074	Mobile Suction Machine	General Surgery	2	
1	KH-075	Operating Stapler	General Surgery	2	
1	KH-076	Infusion Pump	General Surgery	2	
3	KH-077	Wheel Chair	General Surgery	2	
1	KH-078	Emergency Stretcher	General Surgery	1	
1	KH-079	Cryosurgery Apparatus for Plastic	Plastic Surgery	1	
1	KH-080	Resectoscope for TUR	Urology	1	
1	KH-081	Urethrotome	Urology	1	
1	KH-082	Stone Punch	Urology	1	
1	KH-083	O.E.S. Forceps	Urology	1	
1	KH-084	Electro-Cautery for TUR	Urology	1	
1	KH-085	Cystoscope for Child	Urology	1	
1	KH-086	Fiberscope Accessory Set	Urology	1	
3	KH-087	Instrument Cabinet	Urology	1	
1	KH-088	Ultrasound with Vaginal Probe	OBS/GYN	1	
1	KH-089	Portable Incubator	OBS/GYN	1	
1	KH-090	Infant Warmer	OBS/GYN	1	
1	KH-091	Vacuum Extractor	OBS/GYN	1	
3	KH-092	Sphygmomanometer, Mobile Type	OBS/GYN	6	
1	KH-093	Infusion Pump	OBS/GYN	6	
1	KH-094	A.O. Fixation System for Upper Limb	Orthopedic	2	
1	KH-095	A.O. Fixation System for Lower Limb	Orthopedic	2	
1	KH-096	Microsurgery Instruments Set	Orthopedic	2	
1	KH-097	Arthroscope for Diagnosis & Surgery	Orthopedic	1	
1	KH-098	Orthopedic Operation Table	Orthopedic	1	
1	KH-099	Air Power System for Operation	Orthopedic	1	
1	KH-100	Electric Drill	Orthopedic	1	
1	KH-101	Electric Saw	Orthopedic	2	
1	KH-102	External Fixator for Arm	Orthopedic	5	
1	KH-103	External Fixator for Finger	Orthopedic	5	
1	KH-104	External Fixator for Femur	Orthopedic	5	
1	KH-105	Bone Lengthening Apparatus	Orthopedic	2	
1	KH-106	Plate & Screw Set	Orthopedic	2	
1	KH-107	Cervical Traction	Orthopedic	2	
1	KH-108	Electric Tourniquet	Orthopedic	1	
1	KH-109	Manual Tourniquet	Orthopedic	2	
1	KH-110	Total Hip Replacement Surgery Set	Orthopedic	1	
1	KH-111	Laminectomy Instrument Set	Orthopedic	1	
3	KH-112	Instrument Cabinet	Orthopedic	2	
1	KH-113	Deep Freezer, Ultra-Low Temperature	Blood Bank	1	
1	KH-114	Plasma Thawing Bath	Blood Bank	1	
1	KH-115	Serofuge for Cross-match	Blood Bank	1	
1	KH-116	Donor's Chair	Blood Bank	3	
1	KH-117	Electro-Balance with Shaker	Blood Bank	1	
1	KH-118	Cell Washer Centrifuge	Blood Bank	1	
1	KH-119	Hematology Analyzer, 5 Parameters	Blood Bank	1	
1	KH-120	View Box	Blood Bank	1	
1	KH-121	Dry Bath for Cross-match	Blood Bank	2	
1	KH-122	Electric Sealer for Blood Bag	Blood Bank	1	
1	KH-123	Anaerobic Jar	Bacteriology Lab	5	
1	KH-124	Colony Counter	Bacteriology Lab	1	
1	KH-125	Hot Oven, Medium	Bacteriology Lab	1	
1	KH-126	Microscope with Discussion Head	Bacteriology Lab	1	
1	KH-127	Fume Hood	Bacteriology Lab	1	
1	KH-128	Electrophoresis Apparatus	Hematology Lab	1	
1	KH-129	Densitometer	Hematology Lab	1	
1	KH-130	Hematocrit Centrifuge	Hematology Lab.	1	

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PTY	Item	Name of Equipment	Department	QTY	Notes
1	KH-131	Refrigerated Biological Centrifuge	Chemistry Lab	1	
1	KH-132	UV Spectrophotometer	Chemistry Lab	1	
1	KH-133	Chemistry Auto Analyzer	Chemistry Lab	1	
1	KH-134	Hot Air Sterilizer	Lab Sterilization	1	
1	KH-135	Water Distiller / Deionizer	Lab Sterilization	1	
3	KH-136	Sphygmomanometer, Wall type	Emergency	6	
3	KH-137	Sphygmomanometer, Mobile type	Emergency	2	
1	KH-138	E.C.G. 1-channel	Emergency	1	
3	KH-132	Mobile Suction Machine	Emergency	2	
1	KH-133	Manual Resuscitator for Adult	Emergency	1	
1	KH-134	Ultrasound Therapy Unit	Physiotherapy	1	
1	KH-135	Lumber Traction Bed	Physiotherapy	1	
1	KH-136	Cervical Traction Unit	Physiotherapy	1	
1	KH-137	Ultraviolet Therapy Unit	Physiotherapy	1	
2	KH-138	Infra-red Lamp	Physiotherapy	1	
1	KH-139	Electro-stimulator Unit, Interferential	Physiotherapy	1	
1	KH-140	Whirl Pool	Physiotherapy	2	
1	KH-141	Microwave Therapy Unit	Physiotherapy	1	
1	KH-142	Pulley System	Physiotherapy	1	
1	KH-143	Parallel Bar	Physiotherapy	1	
1	KH-144	Band Waist Set	Physiotherapy	1	
1	KH-145	Stationary Bicycle	Physiotherapy	1	
1	KH-146	Wheel Chair	Physiotherapy	2	
1	KH-147	Ice Pack Therapy Unit	Physiotherapy	1	
1	KH-148	Hydrocolator	Physiotherapy	2	
1	KH-150	Meat Mincing Machine	Kitchen	1	
1	KH-151	Vegetable Chopping Machine	Kitchen	1	
1	KH-152	Vegetable Slicing Machine	Kitchen	1	
1	KH-153	Food Mixer	Kitchen	1	
1	KH-154	Electric Oven	Kitchen	1	
1	KH-155	Balance	Kitchen	1	
1	KH-156	Cheese Slicer	Kitchen	1	
1	KH-157	Food Distribution Trolley	Kitchen	7	
1	KH-158	Food Tray for Patients	Kitchen	300	
1	KH-159	Pan For Cooking	Kitchen	6	
1	KH-160	Exhaust Fan	Kitchen	3	
3	KH-161	Slide Projector	General	1	
3	KH-162	Overhead Projector	General	1	
3	KH-163	Video & TV System	General	1	
3	KH-164	Screen For Projector	General	1	
1	KH-165	Ambulance	General	1	
1	KH-166	Autoclave for Medical Disposables	General	1	
1	KH-167	Incinerator for Medical Disposables	General	1	
3	KH-168	Cleaning Instruments Set	General	8	

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ANNEX II

Japan's Grant Aid Scheme

1. Grant Aid Procedures

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

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)
Determination of Implementation	(The Notes exchanged between the Governments of Japan and the recipient country)

2) Firstly, 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.

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

Thirdly, 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.

Fourthly, the Project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the Project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

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2. Basic Design Study

1) Contents 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:

- a) 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.
- b) Evaluation of the appropriateness of the project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the project.
- d) Preparation of a basic design of the Project
- e) 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.

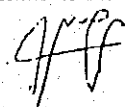
The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations in 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) firms(s) based on proposals submitted by interested firms. The firm(s) selected carry (ies) out the 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 the project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

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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, equipments 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.

2) Exchange of Notes (E/N)

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

3) "The period of the Grant Aid" means the one fiscal year in which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final 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) Under the Grant, 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, the 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.)

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5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

6) Undertakings required of the Government of the 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 to 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 sites.
- (3) To secure buildings prior to the procurement in case the installation of the equipment.
- (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 the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered by the Grant Aid.

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8) "Re-export"

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

9) Banking Arrangements (B/A)

- a) The Government of the recipient country or its designated authority should open an account in the name of the 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.
- b) The payments 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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ANNEX III

Necessary measures to be taken in principles by the Government of the recipient country on condition that Japan's Grant Aid is extended;

1. To secure and clear the site necessary for construction of the Project facilities prior to commencement of the Project
2. To provide the warehouse and stock yard in the vicinity of recipient facilities during the implementation of the Project
3. To provide facilities for the Project site such as distribution of electricity and other incidental facilities
4. To exempt taxes and to take the necessary measures for customs clearance of the equipment brought for the Project at the port of disembarkation
5. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of products and services under the verified contracts.
6. To accord Japanese Nationals, whose services may be required in connection with the supply of products and the services under the verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the duration of their work.
7. To use and maintain properly and effectively all the equipment purchased under the Grant.
8. To bear all the expenses other than those to be borne by the Grant.
9. To bear the commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement.

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