BASIC DESIGN STUDY REPORT

ON

MINISTRY OF HEALTH

PALESTINE

BASIC DESIGN

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WEST BANK IN DALESTINE

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THE PROJECT FOR IMPROVEMENT OF MEDICAL EQUIPMENT FOR THE HOSPITALS IN WEST BANK

PALESTINE

IN

FEBRUARY, 1998

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JAPAN INTERNATIONAL COOPERATION AGENCY

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FEBRUARY, 1998

JAPAN INTERNATIONAL COOPERATION AGENCY BINKO LTD.



PREFACE

In response to a request from the Palestinian Interim Self Government Authority, the Government of Japan decided to conduct a basic design study on the project for Improvement of Medical Equipment for the Hospitals in West Bank in Palestine and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent a study team to Palestine from September 16 to October 20, 1997.

The team held discussions with the officials concerned of Palestinian Authority, and conducted a field study at the study area. After the team returned to Japan, further studies were made. Then, a mission was sent to Palestine in order to discuss a draft basic design, and as this result, the present report was finalized.

I hope that this report will contribute to the promotion of the project and to the enhancement of friendly relations between our two countries.

I wish to express my sincere appreciation to the officials concerned of the Palestinian Interim Self Government Authority for their close cooperation extended to the teams.

February, 1998

Finto

Kimio Fujita President Japan International Cooperation Agency

February, 1998

Letter of Transmittal

We are pleased to submit to you the basic design study report on the project for Improvement of Medical Equipment for the Hospitals in West Bank in Palestine.

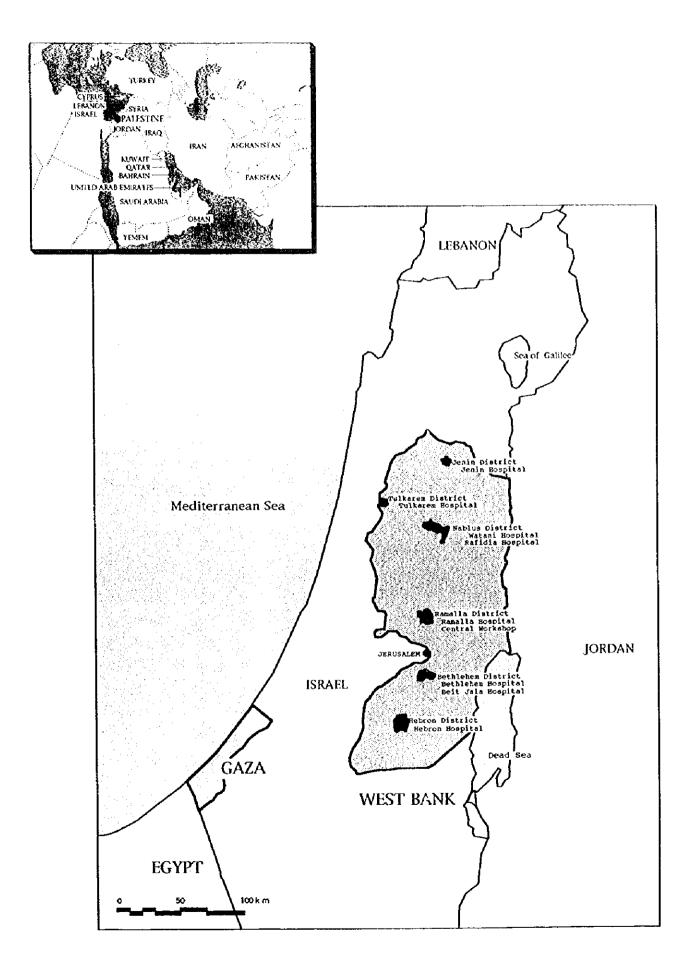
This study was conducted by Binko Ltd., under a contract to JICA, during the period from August 11, 1997 to March 23, 1998. In conducting the study, we have examined the feasibility and rationale of the project with due consideration to the present situation of Palestine, and formulated the most appropriate basic design for the project under Japan's grant aid scheme.

Finally, we hope that this report will contribute to further promotion of the project.

Very truly yours,

中的雪乃

Tatsuro Nakajima Project Manager Basic Design Study Team on the Project for Improvement of Medical Equipment for the Hospitals in West Bank in Palestine Binko Ltd.



Abbreviations

B/D	Basic Design
CCU	Coronary Care Unit
CSSD	Central Supply Sterilized Department
E/N	Exchange of Notes
ECG	Electrocardiogram
EEG	Electroencephalograph
ICU	Intensive Care Unit
JICA	Japan International Cooperation Agency
мон	Ministry of Health
MOPIC	Ministry of Planning and International Cooperation
NGO	Non-governmental Organization
NHP	National Health Plan
ODA	Official Development Assistance
РСН	Palestinian Council of Health
PHC	Primary Health Care
PLO	Palestine Liberation Organization
UNDP	United Nations Development Programme
UNICEF	United Nations International Children's Emergency Fund
UNRWA	United Nations Relief and Works Agency for Palestine Refugees
WHO	World Health Organization
kva	kilo Volt Ampere
MHz	Megahertz
r.p.m.	Revolutions per minute
VA	Volt Ampere

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CHAPTER 1. BACKGROUND OF REQUEST

CHAPTER 1. BACKGROUND OF REQUEST

1. Details of request

Based on Provisional Palestinian Authority Agreement (Oslo Agreement) jointly made between the Israeli Government and Palestine Liberation Organization (PLO) in September, 1993, Gaza-Jericho Agreement was concluded in May, 1994. As a result, Palestinian Authority (PA) started provisional autonomy in Gaza Strip and Jericho. In September, 1995, as a second-stage of the autonomy, the area was extended to West Bank. Then, an agreement to expand the provisional autonomy was concluded to conduct an election of the Palestinian Council, a legislative organ. After the election was implemented in January, 1996, the Palestinian Interim Self-Government Authority was established.

Authoritative power of health care was transferred from Israel to Palestine at an early stage, and the ministry and government-related agencies in charge of health care administration were set up. Palestinian Council of Health (PCH) had gradually been dissolved and Ministry of Health (MOH) was established instead. Public hospitals controlled by MOH have lowered their functions because maintenance services had not been done satisfactorily at the time of Israeli Occupation. Therefore, they cannot offer sufficient medical services on account of obsolete facilities and medical equipment.

Under these circumstances, PA has been making efforts to improve functions of designated medical facilities: eight public hospitals and the Central Workshop which are expected to play a key role in medical services in each area of West Bank.

2. Summary of request

To summarize request made by PA, the Authority is purposing to procure medical equipment for eight public hospitals and the Central Workshop, providing medical services in each city of West Bank along the Jordan River, which need urgent improvement. Contents of requested medical equipment were examined through a series of discussions with the Palestinian side at the time of investigation of the basic design, and were analyzed in Japan. Requested equipment are essential and urgently needed equipment for the medical activities. The requested medical equipment are as follows:

HOSPITAL	TYPE OF EQUIPMENT	NAME OF EQUIPMENT
JENIN	(QUANTITY) 49 (64)	Autoclave, Gastroscope, Obstetric Delivery table,
HOSPITAL		E.C.G. , Defibrirator, Chemistry Analyzer,
		Transport Incubator, Operating Ceiling Lamps,
		Anesthesia Machine, Operating Table, Mobile X-ray,
		Ultrasonic Equipment, Electric Surgery Unit
TULKAREM	57 (74)	Autoclave, Gastroscope, Colonoscope, Obstetric
HOSPITAL		Delivery table, E.C.G. , Defibrirator , Kitchen
NUSPITAG		
		Equipment set, Chemistry Analyzer, Transport
		Incubator, Electric Surgery Unit, Operating Table,
		X-ray for General Purpose (Bucky), Mobile X-ray,
		Ultrasonic Equipment, Operating Ceiling Lamps
WATANI	41 (54)	Holter Analyzer, Gastroscope, Sigmoidoscope,
HOSPITAL		Electroencephalograph (EEG), Central Monitoring
		System, E.C.G., Chemistry Analyzer, Blood Gas
		Analyzer, Transport Incubator, Ultrasonic
		Equipment, Echocardiography machine, Hemodialysis
		Machine
RAFIDIA	91 (118)	Autoclave, Laparoscope, Gastroscope, Colonoscope,
HOSPITAL		Obstetric Delivery table, E.C.G., Defibrirator,
		Blood Gas Analyzer, Laundry set, Electric Surgery
		Unit, Anesthesia Machine, Operating Table, X-ray
:		Fluoroscopy, CT Scanner, Ultrasonic Equipment
RAMALLAH	89 (136)	Holter Analyzer, Autoclave, Laparoscope, Obstetric
HOSPITAL		Delivery table, Central Monitoring System, E.C.G.,
		Defibrirator, Blood Gas Analyzer, Refrigerated
		Centrifuge, Transport Incubator, X-ray
		Fluoroscopy, X-ray for General Purpose (Bucky),
		Mobile X-ray, Ultrasonic Equipment,
		Echocardiography machine, Operating Ceiling Lamps,
		Anesthesia Machine, Hemodialysis Machine
BEIT JALA	51 (76)	Obstetric Delivery table, Defibrirator, Chemistry
HOSPITAL		Analyzer, Transport Incubator, Electric Surgery
		Unit, X-ray Fluoroscopy, Mobile X-ray, Ultrasonic
		Equipment, Autoclave, E.C.G.
BETHLEHEM	4 (4)	Electroencephalograph (EEG), E.C.G., Defibrirator
HOSPITAL		breetvencepharograph (BEG), E.C.G., Deribritator
HEBRON	62 (96)	Holter Analyzer, Laparoscope, Blood Gas Analyzer,
HOSPITAL		Refrigerated Centrifuge, Electric Surgery Unit,

Main Requested Equipment

		X-ray Fluoroscopy, X-ray for General Purpose (Bucky), CT Scanner, Mobile X-ray, Ultrasonic Equipment, E.C.G., Operating Table, Operating Ceiling Lamps, Anesthesia Machine, Hemodialysis Machine
CENTRAL WORKSHOP	15 (46)	ECG simulator, Defibrillator tester, Electro surgical unit tester, Oscilloscope
TOTAL	459 (668)	

3. The present condition of medical services in Palestine, and its problems

(1) The present condition of medical activities

There are various problems in social and environmental aspects in Palestine due to falling behind in economic development and worsening of sanitary condition. Basically, Palestinian cultural standards are high and technical level in medical services is above average, therefore necessary conditions to promote enlightenment of medical and sanitary awareness have been already arranged. Health care network in West Bank also consists of a system which can offer primary, secondary, and a part of tertiary medical services.

As for disease condition in West Bank, infectious diseases of the respiratory organs for infants and diseases of the digestive system have mainly been reported, however, diseases distinctive in developing countries such as malnutrition and diarrhea are not shown. Apparently, the primary health care (PHC) system is securely established in this area and vaccinations and sanitary events attended by the population have been well implemented. On the other hand, although health indexes are higher than that of Gaza Strip, they are lower than that of Jordan, the neighboring country; especially, the mortality rate of infants which indicates 40 to 50 per 1,000 persons is twice as many as Jordan. Diabetes and high blood pressure are main diseases for adults. Main causes of death are heart and circulatory ailments and tumors, which shows a typical disease pattern of an advanced country. Average life span of Palestine is low as 62 years old, therefore, a lot of things should be done in order to improve the medical environment.

Although PA started self-support efforts including introduction of medical insurance system, there is limitation of fund available. Meanwhile, public hospitals controlled by MOH had sharply lowered their functions under the occupation by Israel, and they cannot offer sufficient medical services on account of obsolete facilities and medical equipment under these circumstances.

As the provisional autonomy was started in Gaza and Jericho prior to other areas, procurement of medical equipment and construction of hospitals have been implemented in these areas by several donors including Japan to improve medical services. However, since the provisional autonomy started in West Bank except Jericho in September, 1995, the improvement of public hospitals in West Bank has only started.

(2) Problems

Since the Palestinian medical field had been influenced by the Occupation under special circumstances, there are problems such as local differentials, imbalance of technical level, limitation of services, and shortage of medical specialists. However, in general, it is systematically well arranged from PHC and the secondary health care to the referral system of a part of the tertiary health care. The PHC and the tertiary health care are supported by such aid institutions as UNRWA, NGO and governments to offer better medical services. However, although the secondary health care is the key of local health care and the referral system, there are differences between hospitals in quality. Upon considering these circumstances, the following things should be considered in order to reinforce the health care service system as a whole:

- 1. The secondary health care as the key of local medical services and the referral system should be strengthened.
- 2. Medical technique should be standardized in order to solve the regional differentials and the difference of technical level of

medical personnel.

- 3. Financial condition should be kept securely in order to offer good medical services continuously.
- 4. Obsolete facilities and equipment should be improved.

The most important thing of the health care policies is that public hospitals offer sufficient medical services to the residents. Therefore, it is necessary to expand functions of the public hospitals and to establish a system which enables them to be financially independent to operate. CHAPTER 2. CONTENTS OF PROJECT

CHAPTER 2. CONTENTS OF PROJECT

2-1 Objectives of the Project

2-1-1 Objectives of the Project

By acquiring the autonomy, the right of self-government in the health care field was transferred to Palestine in May, 1994. Since then, in order to establish a comprehensive health care service system in Palestine, the Ministry of Health (MOH) has been strengthening its medical service system by revitalizing the existing outdated medical facilities, expanding medical facilities and equipment, and reinforcing medical personnel.

Prior to the transfer of autonomy, Palestinian Authority came up with the National Health Plan (NHP) for the Palestinian people in 1993, stating that one of prior matters of health care administration is the establishment of the medical care service system in the Authority and the important subject is to reinforce public hospitals in each district urgently.

Designated hospitals of this project should be the center of the medical care system in each district of West Bank along the Jordan River. However, they have weakened their function due to overage medical facilities and equipment because management and maintenance of the facilities and the equipment had not been done sufficiently during the time of Israeli Occupation. Under such circumstances, the hospitals have not played their roles as the desired medical facilities.

Under such circumstances, Palestinian Authority is expected to play a key role of the health care services in the cities of West Bank. The Authority came up with a medical equipment arrangement plan for eight public hospitals and the Central Workshop (controlled by MOH) which should be improved urgently and has asked the Government of Japan for the grant aid in order to implement the plan.

2-1-2 Outline of Designated Facilities of the Project

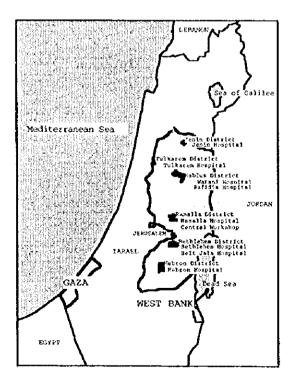
The designated medical facilities are following eight public hospitals offering health care services as a core hospital in each district of West Bank and the Central Workshop:

- Jenin Hospital (A local hospital in the Jenin District, northern tip of the West Bank)
- Tulkarem Hospital (A local hospital in the Tulkarem District, northwest of West Bank)
- Watani Hospital (A hospital in Nablus City, north of West Bank)
- Rafidia Hospital (A hospital specializing in surgery in Nablus City, north of West Bank)
- Ramallah Hospital (Top referral hospital of West Bank, locating in the central area)
- Beit Jala Hospital (A local hospital in the Bethlehem, south of West Bank)
- Bethlehem Mental Hospital (The sole mental hospital in West Bank,

locating in Bethlehem City)

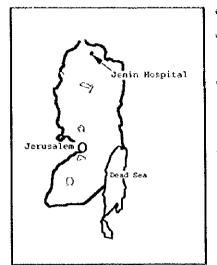
- Hebron Hospital (A local hospital in the Hebron District, south of West Bank)
- Central Workshop (A core facility handling maintenance services for hospitals and equipment, situated in Ramallah)

A map of the designated hospitals is as follows:



(1) Jenin Hospital

1) Outline of Jenin District



* Location: Northern part of West Bank
* Population (1996): 209,697
(9.2% of total Palestinian population)
* Number of medical facilities: 55
PHC: 54 (Public: 29, NGO: 20, UNRWA: 5)
Hospital: 1 (Public: 1)
* Public health indexes:
Birthrate 36.6 per 1,000
Mortality 3.8 per 1,000
Number of doctors 3.2 per 10,000
Number of nurses 4.2 per 10,000

2) Summary of Jenin Hospital

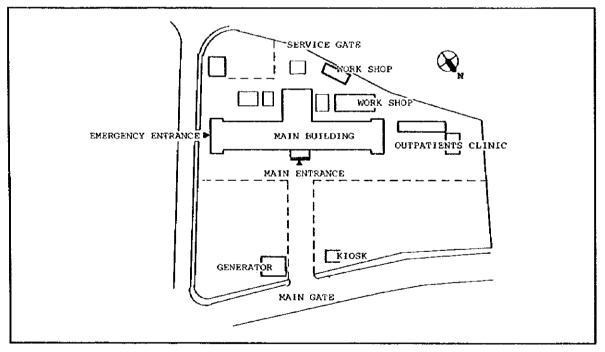
Jenin Hospital, located in the northern tip of West Bank along the Jordan River, offers the secondary medical services. Since it was established in 1960, the building has been getting too old and facility area has been narrowing. In order to serve increasing number of patients, a temporary prefab clinic for outpatients was built in haste. MOH approved extension work of the third floor of the existing building, which was completed in the end of 1997. Furthermore, considering the increasing number of patients, Arab funds will be used for constructing new facilities such as emergency room, operating room, and department of radiology.

Top referral hospitals which cover higher medical services for this hospital are two hospitals in Nablus: Rafidia Hospital for surgery, Watani Hospital for internal care including the kidney hemodialysis. Transfer is done frequently to these referral hospitals.

	1995	1996			
Number of beds (official number)	86 (55)				
Types of examination		Internal, surgery, pediatrics, maternity, neonatal, plastic surgery, emergency, radiology			
Outpatient	25,034	44,763			
Inpatient	11,610	12,435			
Beds occupancy rate	75.0%	76.3%			
Average number of admission days	2.0 days	1.9 days			
Annual number of operations	2,401	2,657			
Annual number of X-ray Examination	25,600	28,101			
Annual number of clinical tests	115,600	138,713			
Number of delivery	2,563	4,583			

Major activities of Jenin Hospital

3) A sketch map of Jenin Hospital



(2) Tulkarem Hospital

1) Outline of Tulkarem District



¥	Location: Northwest of West Bank
¥	Population (1996): 113,625
	(5.0% of total Palestinian population)
*	Number of medical facilities: 72
	PHC: 70 (Public: 42, NGO: 23, UNRWA: 5)
	Hospital: 2 (Public: 1, UNRWA: 1)
¥	Public health indexes:
	Birthrate 34.3 per 1,000
	Mortality 4.4 per 1,000
	Number of doctors 7.3 per 10,000
	Number of nurses 10.2 per 10,000

2) Summary of Tulkarem Hospital

This hospital is located in the northwest of West Bank, close to the boundary of Israel, and in the east approximately 30 km from the Maifa International Seaport. This city is covered by greenery and called "Grapes' Hill." Tulkarem Hospital was built in 1950, and the building has been getting too old. As the UNDP has implemented construction of a new building by funds from Japan, MOH has enough money to build the two-story hospital. Size of the construction will be twice the existing area, increasing the number of beds to 134 from the current 88. Related part to the project is installation places of equipment for the kitchen and the central material room (for autoclaves, etc.).

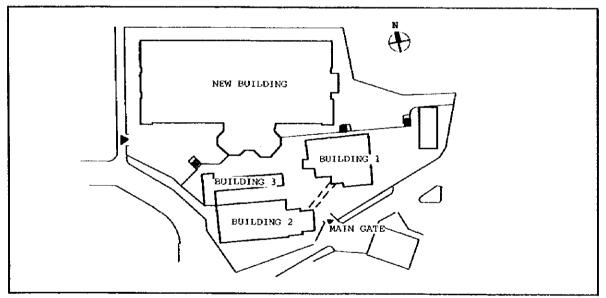
Since this hospital is expected to treat residents living in Qalqilia District and neighboring refugees camps in the future, the construction has been done hurriedly.

	1995	1996		
Number of beds (official number)	67 (64)			
Types of examination		Internal, surgery, pediatrics, maternity, neonatal, radiology, emergency		
Outpatient	35,976	41,040		
Inpatient	7,176	9,228		
Beds occupancy rate	65.0%	80.38		
Average number of admission days	2.2 days	2.2 days		
Annual number of operations	1,290	1,336		
Annual number of X-ray Examination	31,500	32,400		
Annual number of clinical tests	95,530	108,980		
Number of delivery	1,690	1,929		

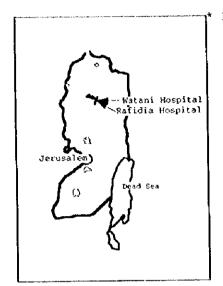
Major activities of Tulkarem Hospital

3) A sketch map of Tulkarem Hospital

.



(3) Watani Hospital and Rafidia Hospital1) Outline of Nablus District



Location: Northern part of West Bank * Population (1996): 217,935 (9.6% of total Palestinian population) * Number of medical facilities: 55 PHC: 51 (Public: 28, NGO: 19, UNRWA: 4) Hospital: 4 (Public: 2, NGO: 2) * Public health indexes: Birthrate 37.3 per 1,000 Mortality 3.7 per 1,000 Number of doctors 3.4 per 10,000 Number of nurses 4.9 per 10,000

2) Summary of Watani Hospital and Rafidia Hospital

Nablus is the central city of northern part of West Bank along the Jordan River, where an affiliated office of MOH administers health care services in eight districts of West Bank.

Watani Hospital (internal care) and Rafidia Hospital (surgery) are in charge of the secondary and a part of the tertiary (cardiac consultation, hemodialysis, etc.) health care services for local residents in the Nablus District.

() Watani Hospital

This hospital is situated on the slope. Due to several extension work, there is no further capacity with complicated internal layout. Therefore, a new building in a wider location is required. Although MOH is making a construction plan of a new Nablus Hospital comprising Watani and Rafidia Hospitals, it has not yet taken shape.

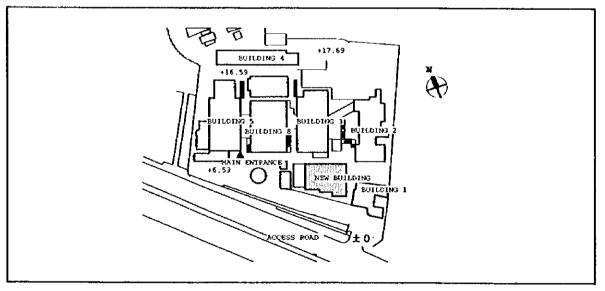
As characteristics of this hospital, it emphasizes treatment of the

heart disease and the kidney disease because of the increasing number of patients, and needs to arrange equipment for ICU/CCU (Coronary Care Unit) immediately. Procurement of central patient monitors, echo cardiographs and artificial hemodialysis machines will be planned in this project.

	1995	1996
Number of beds (official number)	122 (86)	
Types of examination	Internal, neurology, hemodialysis, oncolo endocrinology, pedia	gy, blood dyscrasia,
Outpatient	34,685	47,191
Inpatient	7,155	7,340
Beds occupancy rate	69.0%	69.5%
Average number of admission days	3.0 days	3.0 days
Annual number of X-ray Examination	8,600	11,700
Annual number of clinical tests	125,943	179,919

Major activities of Watani Hospital

3) A sketch map of Watani Hospital



Rafidia Hospital

Besides the internal care facility of the above Watani Hospital, Rafidia Hospital specializing in surgery (including partly the tertiary care) is also the referral hospital. It has around 40 surgeons and 4 operating rooms with full operation.

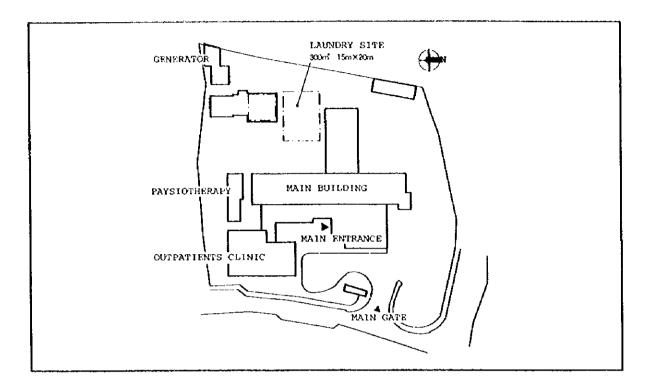
After a CT scanner was given by Ramallah Hospital in 1992, it has contributed to diagnosis of the heart disease and the brain disease. However, because maintenance costs are high due to the outdated equipment, urgent renewal is required.

In this project, it is planned to set a laundry facility in this hospital, which will handle for about 600 beds in total in the northern and central medical facilities of West Bank. The reasons why the laundry facility will be established in this hospital are: it is accessible to five designated hospitals locating in northern and central parts of West Bank, power supply such as a boiler and a compressor are available and it is not necessary to buy new ones.

	1995	1996		
Number of beds (official number)	144 (138)			
Types of examination	Surgery, burns & scalds, maternity, neonatal, otolaryngology, plastic surgery, physicaltherapy			
Outpatient	36,304	41,375		
Inpatient	18,461	17,791		
Beds occupancy rate	92.0%	82.5%		
Average number of admission days	2.5 days	2.5 days		
Annual number of operation	4,060	4,131		
Annual number of X-ray Examination	28,316	32,271		
Annual number of clinical tests	111,939	139,924		
Number of delivery	6,300	7,863		

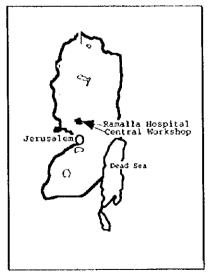
Major activities of Rafidia Hospital

3) A sketch map of Rafidia Hospital



(4) Ramallah Hospital

1) Outline of Ramallah District



- * Location: Central part of West Bank
- * Population (1996): 234,390
 - (10.3% of total Palestinian population)
- * Number of medical facilities: PHC: 83 (Public: 28, NGO: 51, UNRWA: 4)
 - * Public health indexes:

Birthrate	29.0 per 1,000
Mortality	3.3 per 1,000
Number of doctors	3.9 per 10,000
Number of nurses	4.52 per 10,000

2) Summary of Ramallah Hospital

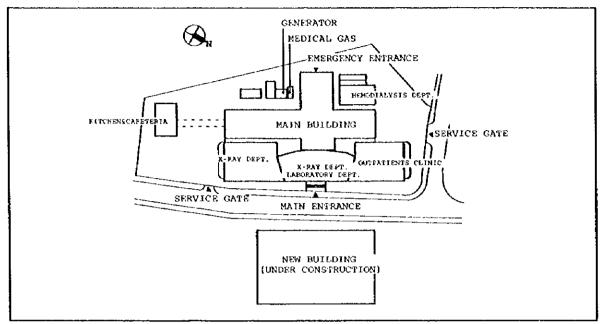
This is the top referral hospital in West Bank. Especially for cardiac and brain surgery, it possesses a cardiac laboratory and necessary equipment like the CT scanner. It offers the secondary and a part of tertiary health care services including high-level medical treatment (cardiac surgery, cerebral surgery, hemodialysis, etc.) by doctors who have trained at medical schools in Europe or in the U.S.

About 20% of the patients are transferred from lower referral hospitals, and the beds occupancy rate always exceeds 80%. In order to serve the increasing number of patients, an emergency center with 20 beds is being built by donation of local residents, which will be completed in 1998.

	1995	1996
Number of beds (official number)	159 (142)	
Types of examination	Internal, maternity, pediatrics, plastic surgery, otolaryngology, physicaltherapy, kidney hemodialysis, ophthalmology, urology, neonatal, cardiac surgery, cerebral surgery	
Outpatient	98,000	103,465
Inpatient	12,000	11,501 83.3% 3.8 days 6,211
Beds occupancy rate	89.0%	
Average number of admission days	3.8 days	
Annual number of operation	6,315	
Annual number of X-ray Examination	51,500	52,677
Annual number of clinical tests	258,500	266,931
Number of delivery	1,800	2,581

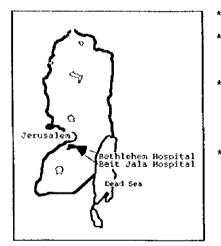
Major activities of Ramallah Hospital

3) A sketch map of Ramallah Hospital



(5) Beit Jala Hospital and Bethlehem Hospital

1) Outline of Bethlehem District



ł	Location: Southern part of West Bank
ŀ	Population (1996): 113,013
	(5.0% of total Palestinian population)
ł	Number of medical facilities: 36
	PHC: 32 (Public: 14, NGO: 16, UNRWA: 2)
	Hospital: 4 (Public: 2, NGO: 2)
*	Public health indexes:
	Birthrate 41.0 per 1,000
	Mortality 4.2 per 1,000
	Number of doctors 5.4 per 10,000
	Number of nurses 4.8 per 10,000

2) Summary of Beit Jala Hospital and Bethlehem Hospital

Bethlehem District is located in the south 20 km from Jerusalem, the Holy Land, known as the Christ's birthplace. Beit Jala Hospital handles the secondary and a part of tertiary medical care, while Bethlehem Hospital is the sole mental hospital in West Bank.

(1). Beit Jala Hospital

This hospital, located in Beit Jala City, Bethlehem, is a polyhospital with.6-story building. With the acquisition of autonomy, 3-story annex has been constructed in the east, which will be completed in August, 1998.

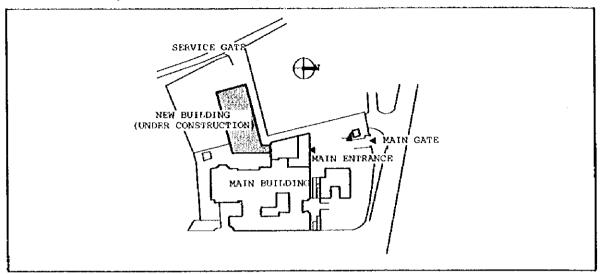
In order to function as the heart disease care center in the southern part of West Bank, repair work of the CCU/ICU room had been constructed and was completed in 1997. This means there will be three heart disease care centers in West Bank: Watani Hospital in the north, Ramallah Hospital in the central area, and Beit Jala Hospital in the south.

This hospital also emphasizes the treatment of cancers, therefore visiting patients of cancers have been increasing in the southern part of West Bank. Most of the treatment at the Oncology Department are done by medicines, but not by radiotherapy or nuclear medicine.

	1995	1996	
Number of beds (official number)	92 (70)		
Types of examination	Internal, surgery, neonatal, maternity, oncology, otolaryngology, plastic surgery, urology, neurology, heart diseases, radiotherapy		
Outpatient	69,743	66,745	
Inpatient	5,870	6,390	
Beds occupancy rate	76.8%	82.3%	
Average number of admission days	3.3 days	3.3 days	
Annual number of operation	1,130	1,840	
Annual number of X-ray Examination	1,840	20,161	
Annual number of clinical tests	185,000	179,621	
Number of delivery	1,756	1,831	

Major activities of Beit Jala Hospital

3) A sketch map of Beit Jala Hospital



② Bethlehem Hospital

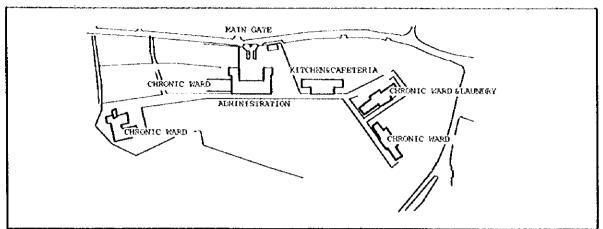
Bethlehem Hospital, established in 1898, is the sole mental hospital in West Bank with capacity of 320 beds.

Due to the prolonged problem of the Middle East, local residents have been burdened with mental pressure heavily. Therefore, morbidity of mental disease is estimated high.

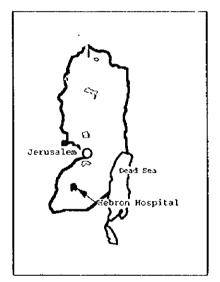
	1995	1996	
Number of beds (official number)	320 (320)		
Types of examination	Psychiatry		
Outpatient	3,150	3,366	
Inpatient	521	571	
Beds occupancy rate	101.0%	109.1%	
Average number of admission days	224 days	223 days	

Major activities of Bethlehem Hospital

3) A sketch map of Bethlehem Hospital



- 6) Hebron Hospital
- 1) Outline of Hebron District



*	Location: Southern tip of West Bank	
*	Population (1996): 294,116	
	(13.0% of total Palestinian population)	
¥	Number of medical facilities: 68	
	PHC: 65 (Public: 33, NGO: 25, UNRWA: 7)	
	Hospital: 3 (Public: 2, NGO: 1)	
*	Public health indexes:	
	Birthrate 55.2 per 1,000	
	Mortality 3.2 per 1,000	
	Number of doctors 2.2 per 10,000)
	Number of nurses 3.4 per 10,000)

2) Summary of Hebron Hospital

This hospital is located in Hebron, the center city of the south in West Bank, and handles the secondary (partly tertiary) medical care. There is a construction plan of a new building in the north in accordance with the NHP, but it has not been yet taken shape.

Eight hemodialysis machines for kidney diseases have been installed, contributing to the local medical services. The natural population

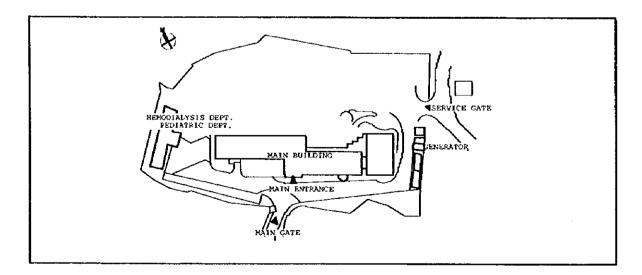
increase rate is 5.3 per 100 persons, showing the highest rate as 5 times as much as other districts.

As one of procured equipment in this project, CT scans are required. This signifies availability of treatment by the CT scan in all areas of West Bank: Rafidia Hospital in the north, Ramallah Hospital in the central area, and Hebron in the south.

	1995	1996	
Number of beds (official number)	169 (103)		
Types of examination	Internal, surgery, neonatal, maternity, plastic surgery, otolaryngology, kidney hemodialysis, urology, radiotherapy		
Outpatient	103,747	111,907	
Inpatient	14,197	16,804	
Beds occupancy rate	88.0%	101.9%	
Average number of admission days	2.3 days	2.3 days	
Annual number of operation	3,723	4,406	
Annual number of X-ray Examination	27,813	30,000	
Number of delivery	4,650	5,435	

Maior	activities	of	Hebron	Hospital
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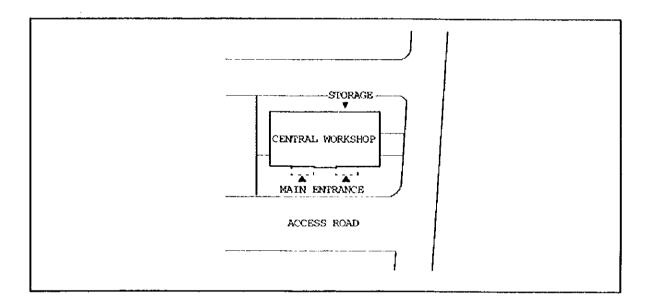
3) A sketch map of Hebron Hospital



(7) Central Workshop

This facility, directly controlled by the Maintenance Department of MOH, is situated in the city of Ramallah of West Bank. Since it is located in the center of West Bank, it can be accessible to each medical facility within two hours. This workshop handles maintenance services for all hospitals in West Bank, and it will be maintaining procured equipment of the project. It also manages the maintenance department of each hospital and dispatches engineers to each department.

In order to utilize the equipment installed at the hospitals effectively for a long period, equipment for maintenance will be procured in the project.



A sketch map of the Central Workshop is as follows:

2-2 Basic Concept of the Project

This project is the medical equipment improvement plan in order to reinforce the public health care facilities in districts of West Bank.

So far, the tertiary medical care has been done by NGO-operated hospitals and referral hospitals in the neighboring countries such as Israel, Jordan and Egypt. After the transfer of the autonomy, MOH has been making efforts to establish its individual medical care service system as the selfgovernment, to reduce huge costs of referral treatment, and to be able to handle not only the current secondary medical care but also a part of the tertiary medical care including high-level medical treatment (CCU, cerebral surgery, intensive care of the heart disease).

Therefore, MOH assigned a part of the tertiary medical care including neurology, cardiac surgery, intensive care of the heart disease and hemodialysis to Ramallah Hospital as the top referral hospital, Rafidia, Watani, Hebron and Beit Jala Hospitals.

For the implementation of this project based upon the above concept, we have investigated functions of the hospitals needed for achievement of the project and selected equipment applicable to the grant-aid framework.

2-2-1 Confirmation of the Contents of Request

(1) Confirmation of project site

It is confirmed that this project will cover the following eight public hospitals which offer health care services in each district of West Bank and the Central Workshop. Summary of the designated hospitals is in Figure 2-2-1, annexed table.

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Table 2-2-1 outline of the Designated Hospitals

ame of Facility	JENIN HOSPITAL	TULKAREM HOSPITAL	
ocation	Jenin	Tulkarem	Nablus
	General Hospital (Public)	General Hospital (Public)	Professional of I
		Secondary medical care facility	Secondary medical
eneficiaries' Population	Secondary medical care facility	Secondary moderness and	
_		114,000	220,000
	210,000	114,000	220,000
in 1996) umber of Beds (Official)	86 beds (55 beds)	67 beds (64 beds)	122 beds(86 beds)
in 1997)	Internal medicine: 15, Surgery: 15, Pediatric: 25	Internal medicine: 15, Surgery: 19, Pediatric: 15,	Internal medicine
	Obstetrics & Gynecology: 20, Neonatal: 8, ICU:3	Obstetrics & Gynecology: 14 Neonatal: 4	Neonatal: 8, IC
			CAPD: 2, Oncolog
umber of Those Engaged n Medical Care		153 persons	193 persons
	182 persons	Doctor: 28, Nurse: 54, Midwives: 8,	Doctor: 35, Nurse
in 1997)	Doctor: 31, Nurse: 30, Midwives:15 Radiologist:5, Laboratory technician: 8,	Radiologist: 6, Laboratory technician: 8,	Laboratory: 10, 1
	Pharmacists: 4, Dietitian: 1, Engineers of ME: 1	Pharmacists: 3, Dietitian: 1,	Engineers of ME:
	Administrative: 18, Technician of Anesthesia: 2,	Engineers of ME: 1, Administrative: 28,	Others: 19
	Others: 67	Technician of Anesthesia: 2, Others: 19	_
Facility Utilization			
(per year) Number of Outpatients	44,763	41,040	47,191
Number of Inpatients	12,435	9,228	7,340
Bed Operability Rate (%)	76.30%	80.3%	69.5%
Average Admission Days	1,9	2.2	3.0
		Internal medicine, Surgery, Pediatric,	Internal medicing
Main Clinical Departments	Internal medicine, Surgery, Pediatric, Obstetric & Gynecology, Orthopedic, X-ray department	Obstetric & Gynecology, Orthopedic, Radiology,	Oncology, Hematol
	Neonatal, Emergency department	Neonatal, Emergency department	Emergency Dept.,
	Neonatur, Emergency depurchent		
		Located in Tulkarem City, northeastern part of the West	Located at Nablus
State of Activity	It is located in Jenin City at Northern West bank.	Bank. New building is being constructed by UNDP through the	bocacea ac nabra
	New 3 stories building is under construction.	Japanese Government fund.	Secondary medica
	Emergency, Operating room and radiology department	The first stage of the construction was	Hospital, specia
	building will be constructed by private fund.	finished in 1997.	
	Refer to Rafidia Hospital in Nablus.	2nd stage (including Radiology, Outpatient	There are both W
		and Laboratory) is not under construction,	Nablus. Those h
	There is Outpatient Department beside the main building, due to treating		medical care and
	a lot of patients daily.	but a fund for this construction will be offered by the Japanese Government.	care services fo
		by the babanese dovernment.	
State of Activity of the	Main equipment of CSSD, Laboratory, Radiation Dept., Operating and	Lack of CSSD and ICU medical equipment.	There are no ope
Existing Equipment	Neonatal rooms have been used for more than 10 years.		
			Endoscopy are ma
	Replacement period of main medical equipment is coming.	Replacement period of main medical equipment is coming.	Equipment of ICU Hemodialysis: T
	Most of existing medical equipment manufacturers are European and American.	Most of manufacturers of the existing medical equipment are European and American.	Equipment are ma
	Aser Ican.	are baropean and merican	for over 13 year
			Laboratory equip
	Secondary medical care equipment: (CSSD, Endoscopy, Obstetrics, ICU ,	Secondary medical care equipment: (CSSD, Endoscopy,	Secondary medica
	Laboratory, Operation room, Radiology equipment)	Obstetrics, ICU, Laboratory, Operation room, Radiology equipment)	Radiology depart
		edulbwene)	
Equipment to be Procured		Others: Kitchen equipment	Tertiary medical
for Each Department		ochers: Kitchen egarpment	Hemodialysis)
			neoururyoroy
	Details are as per attached sheets.	Details are as per attached sheets.	*Details are as
State of Facility Number of Floor	2-story	2-story	3-story
Number of Floor Structure	2-story Reinforced concrete	Reinforced concrete	Built of stone ,
Voltage	216 - 218V	214 - 217V	219V
Electric Capacity	400KVA	630KVA	700KVA
Water Supply	City water	City water	City water
Drainage	City sewer pipe	City sewer pipe	City sewer pipe Segregated colle
Medical Waste	Segregated collection	Segregated collection	Expansion plan d
Extension Work	3rd Ploor (under construction)	New building is under construction.	Townston brun t

WATANI HOSPITAL -----Internal medicine Hospital al care(part of tertiary medical care) facility _____ s) ne: 50, Hematology: 6, Pediatric:32, ICU: 4 Hemodialysis: 8, ogy: 6, se: 78ÅARadiologist: 3, Pharmacists: 5, Dietitian: 1, 1, Administrative: 44, ne, Neurology, Hemodialysis, ology, Pediatric, Neonatal, ., Cardiology lus City in West bank. cal care (parts of tertiary medical careÅj ializing in internal medicine. Watani and Rafidia hospitals in hospitals provide the secondary nd a part of the tertiary medical for the residents. perating room and Obstetrics & Gynecology dept. made in Japan. CU are made in Europe and America There are 8 dialysis machines in the room. made in Europe and America, which have been used ars. ipment are made in America and Japan. cal care equipment: (ICU, Laboratory, Pediatric, rtment) al care equipment {Cardiology, is per attached sheets. , Reinforced concrete e lection of outpatient building

Table 2-2-1 outline of the Designated Hospitals

lame of Facility	RAFIDIA HOSPITAL	RAMALLAH HOSPITAL	
ocation	Nablus	Ramallah P.O. Box 1100	Bethlehem P.O.Box
ank	Professional Surgical Hospital	Top referral hospital in West Bank Secondary medical care(part of tertiary medical care) facility	General Hospital (Secondary medical care) facility
Beneficiaries' Population	220 000	1,400,000(Population in West Bank)	113,000
in 1996)	220,000		
	144 beds (138 beds) Surgery: 32, Burin: 6, Obstetrics & Gynecology: 49, Neonatal: 14, ICU: 3, ENT: 10 Orthopedic: 20, Urology: 10	159 beds (142 beds) Surgery: 42, Internal medicine: 28, Pediatric: 31, Obstetrics & Gynecology: 27, Neonatal: 12, ICU: 6, Hemodialysis: ÇVÅAOrthopedic: 8, Urology: 4	92beds (70 beds) Internal medicine: Obstetrics & Gynecolog ENT: 2, Orthopedic
Number of Those Engaged			
in Medical Care (in 1997)	289 Persons Doctor: 42, Nurse: 114, Radiologist: 10, Laboratory: 16, Pharmacists: 5, Dietitian: 1, Engineers of ME: 1, Anesthetist: 2, Administrative: 70, Physiotherapy: CS, Midwives: 21, Others: 19	<pre>313 persons Doctor: 70, Nurse: 122, Radiologist: 11, Laboratory: 19, Pharmacists: 5, Dietitian: 1, Engineering of ME: 2, Anesthetist: 2, Administrative: 75, Midwives: 21, Others: 6</pre>	174 Person Doctor: 20, Nurse: Radiology: 6, Labo Dietitians: 1, Eng Administrative: 49
Facility Utilization			
(per year) Number of Outpatients	41, 375	103,465	66,745
Number of Inpatients	17,791	11,501	6,390
Bed Operability Rate (%) Average Admission Days	82.5% 2.5	83.3% 3.8	82.3% 3.3
Main Clinical Departments	Surgery, Burn, Obstetric & Gynecology, Neonatal, B.N.T, Orthopedic, Physiotherapy, Radiology, Emergency Dept.	International medicine, Surgery, Pediatric, Obstetrics & Gynecology, ENT, Physiotherapy, Emergency Dept., Ophthalmology, Pediatric, Cardiac surgery, Brain surgery	Internal medicine, Obstetrics & Gyneo Emergency Dept., F Neurology, Cardiol
State of Activity	Located at Nablus City in West bank.	Top referral hospital at Ramallah City in West Bank.	Hospital at Bethle
	Secondary medical care (a part of tertiary medical carea) Hospital, specializing in surgery.	Secondary medical care (a part of tertiary medical care) hospital. It is well known for open-heart surgery in West Bank.	the secondary and services to the re
		Emergency department building is under construction (20 beds) now.	It will be function in southern part of
State of Activity of the Existing Equipment	All of the existing medical equipment have been used for more than 10 years, especially, equipment for Radiology have been used for over 13 years.	open-heart surgery dept. and CSSD have been used for	Equipment of CSSD , more than 12 years
	Computed tomograph is available.	over 15 years.	CSSD, Pediatric, (will remove to a Shortage of medica
Equipment to be Procured	Secondary medical care equipment(CSSD, Endoscopy, ICU, Laboratory, Operation room, Obstetric & Gynecology, Pediatric, Pediatric surgery, Radiology)	Secondary medical care equipment (CSSD, Endoscopy, Obstetrics & Gynecology, ICU, Laboratory, Operating room, Pediatric, Radiology,)	Secondary medical Obstetrics & Gyne room, Pediatric,
for Each Department	Tertiary medical care equipment (Autopsy, Orthopedic, Plastic Surgery, CT), Others: Laundry equipment. *Details are as per attached sheets.	Tertiary medical care equipment: (Open-heart surgery, Hemodialysis, Orthopedic, Plastic surgery) *Details are as per attached sheets.	*Details are as p
State of Facility			
Number of Floor	Basement 1, 4-story	3-story and 4-story	5-story
Structure	Reinforced concrete	Reinforced concrete	Reinforced concre
Voltage	230- 224V	212-216V	233-236V 2000KVA
Electric Capacity	630KVA City water	SOOKVA City water	City water
Water Supply Drainage	City sewer pipe	City sewer pipe	City sewer pipe
Medical Waste	Segregated collection	Segregated collection	Segregated collec
Extension Work	Expansion plane of laundry building	Emergency building is under construction	Under constructio

BEIT JALA HOSPITAL
67
(Public)
care(a part of tertiary medical
e: 10, Surgery: 14, Pediatric: 6,
ogy: 14, Hematology & Oncology: 16, c: 4, Urology: 12, Neurology: 14,
e: 41, Obstetrics & Gynecology: 12,
poratory: 12, Pharmacists: 4, ngineer for ME: 1,
9, Anesthetist: 2, Others: 26
e, Surgery, Neonatal,
ecology, Orthopedic, Radiology,
Hematology, ENT, Urology,
blogy
lehem in West Bank, which offers
d a part of tertiary medical care
residents.
ioned as the center of cardiology
of West Bank.
D and Padiology have been used for
rs.
Obstetrics and Gynecology Dept.
new building. cal equipment in CSSD.
car cycles in 1000.
l care equipment (CSSD, Endoscopy, ecology, ICU, Laboratory, Operating
Radiology)
per attached sheets.
ete
ction
on of new building
_ 25

Table 2-2-1 outline of the Designated Hospitals

	BETHLEHEM HOSPITAL	HEBRON HOSPITAL	Central worksh
ocation	Bethlehem	Hebron P.O. Box 18	Ramallah city
ank	The sole mental care hospital in West Bank	General Hospital (Public) Secondary medical care(a part of tertiary medical care) facility	Maintenance center control
eneficiaries' Population			
in 1996)	1,400,000 (Population in West Bank)	300,000	All public hospitals in th
umber of Beds (Official)	320 beds (320 beds)	162 beds(169 beds)	
in 1997)	Mental care: 320	Internal medicine: 30, Surgery: 24, Pediatric: 30, Obstetrics & Gynecology: 30, Neonatal: 10, ICU: 7, Hemodialysis: 10, ENT: 4, Orthopedic: 10, Urology: 7	
umber of Those Engaged			
in Medical Care	139 Person	230 Person	
in 1997)	Doctor: 21, Nurse: 71, Pharmacists: 1, Dietitians: 1, Engineer for ME: 5, Administrative: 11, Anesthetist: 1, Others: 29	Doctor: 43, Nurse: 102, Midwives: 11, Radiologist: 5, Laboratory technician: 16, Pharmacist: 5, Pharmacist: 5, Dietitian: 1, Engineer for ME: 1, Administrative: 36, Anesthetist: 2, Physiotherapy: 1, Others: 26	
Facility Utilization			
(per year) Number of Outpatients	3,366	111,907	
Number of Inpatients	571	16,804	
Bed Operability Rate (%)	109.18	101.9%	
Average Admission Days	223	2.3	
Main Clinical Departments	Mental care	Internal medicine, Surgery, Neonatal, Obstetrics & Gynecology, Orthopedic, Radiology, Emergency Dept., ENT, Hemodialysis, Urology, Cardiology	Maintenance for medical e facilities at public hosp Purchase and distribution and consumable goods.
State of Activity	Hospital at Bethlehem in West Bank.	Hospital at Hebron in West Bank.	The only maintenance cent
	It is only one mental care hospital in West Bank.	Secondary medical care (a part of tertiary medical careÅjhospital, specializing in surgery.	It dispatches engineers t maintenance department of
		It will be functioned as the center of cardiology and Hemodialysis in southern part of West Bank.	
State of Activity of the	EEG and ECG being used at present have been used for	Existing equipment of ICU and Laboratory are not enough. Ultrasonic cleaner and tube washing machine in CSSD.	Although equipment used f well-arranged, medical eq
Destablish Destablish	more than 10 years.	offrasonic creater and cube washing machine in coop.	supply since the repairing
Existing Equipment			newly established.
Existing Equipment		Existing radiology equipment have been used for over 14 years.	
Existing Equipment	Electroencephalograph, Electrocardiograph, Defibrillator		
	Defibrillator	14 years. Secondary medical care equipment (Endoscopy, ICU,	
Existing Equipment Equipment to be Procured for Each Department	Defibrillator	14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology,	newły established. Defibrillator tester, Ele
Equipment to be Procured	Defibrillator	14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.)	newly established. Defibrillator tester, Ele
Equipment to be Procured	Defibrillator	14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Remodialysis, Orthopedic, CT)	newły established. Defibrillator tester, Ele unit tester, Analog IC te
Equipment to be Procured for Each Department	Defibrillator *Details are as per attached sheets. 2-storyÅ@	<pre>14 years. 14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Hemodialysis, Orthopedic, CT) *Details are as per attached sheets. 3-story</pre>	newły established. Defibrillator tester, Ele unit tester, Analog IC te 4-story
Equipment to be Procured for Each Department State of Facility Number of Floor Structure	Defibrillator *Details are as per attached sheets. 2-storyÅ@ Built of stone, Reinforced concrete	<pre>14 years. 14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Hemodialysis, Orthopedic, CT) *Details are as per attached sheets. 3-story Reinforced concrete</pre>	newły established. Defibrillator tester, Ele unit tester, Analog IC te 4-story Reinforced concrete
Equipment to be Procured for Each Department State of Facility Number of Floor Structure Voltage	Defibrillator *Details are as per attached sheets. 2-storyÅ@ Built of stone, Reinforced concrete 222-224V	<pre>14 years. 14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Hemodialysis, Orthopedic, CT) *Details are as per attached sheets. 3-story Reinforced concrete 227-230V</pre>	newły established. Defibrillator tester, Ele unit tester, Analog IC te 4-story
Equipment to be Procured for Each Department State of Facility Number of Floor Structure Voltage Electric Capacity	Defibrillator *Details are as per attached sheets. 2-storyÅ@ Built of stone, Reinforced concrete 222-224V 200KVA	<pre>14 years. 14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Hemodialysis, Orthopedic, CT) *Details are as per attached sheets. 3-story Reinforced concrete 227-230V 500KVA</pre>	newły established. Defibrillator tester, Ele unit tester, Analog IC te 4-story Reinforced concrete 227-230V
Equipment to be Procured for Each Department State of Facility Number of Floor Structure Voltage Electric Capacity Water Supply	Defibrillator *Details are as per attached sheets. 2-storyÅ@ Built of stone, Reinforced concrete 222-224V 200KVA City water	<pre>14 years. 14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Hemodialysis, Orthopedic, CT) *Details are as per attached sheets. 3-story Reinforced concrete 227-230V 500KVA City water</pre>	newły established. Defibrillator tester, Ele unit tester, Analog IC te 4-story Reinforced concrete 227-230V City water
Equipment to be Procured for Each Department State of Facility Number of Floor Structure Voltage Electric Capacity	Defibrillator *Details are as per attached sheets. 2-storyÅ@ Built of stone, Reinforced concrete 222-224V 200KVA	<pre>14 years. 14 years. Secondary medical care equipment (Endoscopy, ICU, Laboratory, Operating room, Pediatric, Radiology.) Tertiary medical care equipment (Cardiology, Hemodialysis, Orthopedic, CT) *Details are as per attached sheets. 3-story Reinforced concrete 227-230V 500KVA</pre>	newły established. Defibrillator tester, Ele unit tester, Analog IC te 4-story Reinforced concrete 227-230V

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l equipment and ospitals.
ion of spare parts
enter in West Bank. s to the of each hospital.
d for repairing are equipment are in short ring department has been
Electro-surgical tester, etc.

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Hospitals	Number of beds	Number of treatment	Number of death	vamb.	Number of operation	Number of delivery	Number of daycare	Bed occupancy rate	Average admission days	Number of outpatients
				Serious operation	Small operation					
West Bank										
Jenin	55	12,435	180	1,575	1,082	4,583	23,667	117.60	1.90	44,763
Tulkarem	64	8,418	159	928	408	1,929	18,800	80.30	2.20	45,866
Al Watani	86	7,340	361	N/A	N/A	N/A	21,867	69.50	3.00	47,191
Rafidia	138	16,573	138	2,855	1,276	7,863	41,678	82.50	2.50	78,352
Ramallah	142		304	4,562	1,649	2,581	43,301	83.30	3.80	103,465
Beit Jala	70	6,390	115	1,029	811	1,830	21,085	82.30	3.30	66,745
Jericho	50				381	557	9,001	49.20	2.90	33,124
Hebron	103		182	2,236	2,170	5,435	38,401	101.90	2.30	111,907
Bethlehem Mental			4	N/A	N/A	N/A	127,823	109.10	223.90	3,366
Gaza District										
Shifa	402	36,743	848	3,907	7,744	9,811	121,591	82.90	3.30	148,368
Khan Younis	213	24,182	336	6,931	2,989	6,073	65,200	83.70	2.70	001,62
Gaza Pediatric	302	10,393	307	N/A	N/A	N/A	31,926	83.30	3.10	8,219
Gaza Ophthalmic	31	1,751	0	10,301	1,091	N/A	6,990	61.80	4.00	67,667
Caza Mental	34	602	0	N/A	N/A	N/A	10,140	81.70	16.80	24.922

Present Conditions of Medical Activities at the Designated Hospitals in 1996 Table 2-2-1 (2)

Source: "The 1997 Annual Report," Ministry of Health

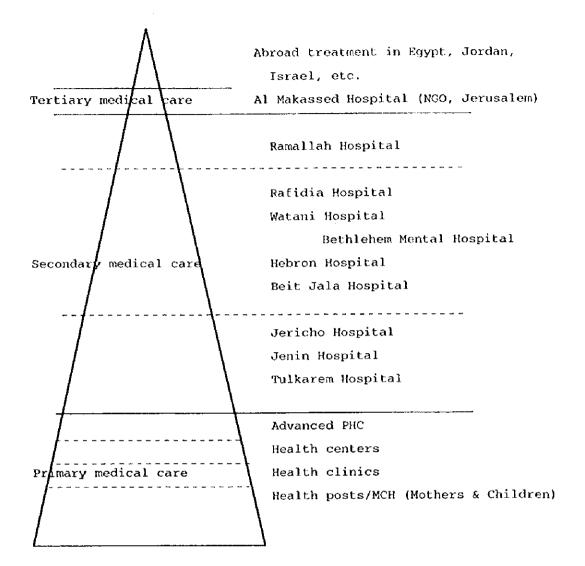
	DISTRICT		DESIGNATED HOSPITALS
1.	Jenin City	Jenin Hospital	Secondary medical care, local hospital in the northern tip
2.	Tulkarem City	Tulkarem Hospital	Secondary medical care, local hospital in the northwest
3.	Nablus City	Watani Hospital	Secondary (partly tertiary) medical care, specializing in internal care
4.	Nablus City	Rafidia Hospital	Secondary (partly tertiary) medical care, specializing in surgery
5.	Ramallah City	Ramallah Hospital	Top referral hospital of West Bank, excellent in cardiac surgery
6.	Bethlehem City	Bethlehem Hospital	The sole mental hospital in West Bank with 320 beds
η.	Bethlehem City	Beit Jala Hospital	Secondary (partly tertiary) medical care with CCU/ICU facilities
8.	Hebron City	Hebron Hospital	Secondary (partly tertiary) medical care, referral hospital in the south
9.	Ramallah City	Central Workshop	Maintenance services

1) Public health care system in West Bank

The public health care system has been implemented by dividing into three divisions: northern, central, and southern areas.

Northern area : Jenin, Tulkarem and Nablus administrative area Central area : Ramallah, Jerusalem and Jericho administrative area Southern area : Bethlehem and Hebron administrative area

All the designated hospitals are referral hospitals to offer health care services in West Bank. The referral organization chart is as follows:



2) Summary of designated hospitals and facilities

Please refer to Table 2-2-1 "Outline of the Designated Hospitals" and Table 2-2-1-2) "Present Conditions of Medical Activities at the Designated Hospitals in 1996."

(1) In order for the designated hospitals to function well according to its position and expected roles under the public health care system set by MOH, we came up with the improvement plan of the medical facilities as well as we conducted a survey on their architectural structures and infrastructures such as electricity and drainage. At present, several construction work such as repair work for overage hospitals, extension work and new construction work have been done at the designated facilities. Actually all the designated hospitals are operated on a daily basis, therefore, there will be no obstacle to install the procured equipment in terms of places for installation and infrastructures.

Extension and reconstruction work of facilities which are related to installation of the equipment for the project have started at Tulkarem Hospital, Rafidia Hospital and Hebron Hospital, while a new building for the laundry should be constructed at the Rafidia Hospital. Since the construction work will be completed within 1998, it can be judged that this will not conflict with the project.

- ② Watani Hospital is utilizing a building on the steep slope which was built about 100 years ago. During the Jordanian and the Israeli Occupation, extension work and remodeling of the building had been done several times, and there is no further capacity on the site. Besides, more refugees have returned to their homeland because of the transfer of the autonomy. Therefore, the medical facility should be improved in order to correspond to the increasing number of patients.
- (3) Although this project is the medical equipment improvement plan for the public hospitals in the West Bank; Jericho Hospital, one of the public medical facilities for the secondary health care, is excluded from this project. For this hospital, the facility and medical equipment improvement project was implemented in 1993 through the "Urgent Aid for Disasters" by the Red Cross of Japan. Besides, the New Jericho Hospital Construction Project under the 1996 grant-aid plan of the Government of Japan has been implemented, for which medical equipment also has been renewed.
- (1) In order to utilize the procured equipment of this project effectively for a long term, improvement of equipment for the Central Workshop (controlled by MOH) in Ramallah will be included in this project. The Central Workshop is functioning as the maintenance center for the public hospitals; it instructs and

supervises them in cooperation with the maintenance department of each hospital.

- (2) Contents of requested equipment
- 1) List of requested equipment

Based upon the final list of requested equipment proposed by MOH in September, 1997, equipment to be procured were confirmed by both MOH and designated hospitals at the time of research on the basic design. And the equipment were divided into four phases by priority, that was written in the minutes.

Main requested equipment are in Figure 2-2-1, annexed table.

Hospital	Final l		Attached		Ord	er of	Prior	ity
	reque		the B/D	Minutes				
	equip	ment				Pie	ece	
	Туре	Piece	Туре	Piece	<u>A</u>	B+	В	C
Jenin	64	105	66	108	56	0	6	46
Tulkarem	57	92	59	94	51	1	3	39
Watani	49	108	50	110	43	0	4	63
Rafidia	93	178	97	189	98	1	4	86
Ramallah	100	237	103	235	113	0	18	104
Beit Jala	65	128	65	129	66	0	12	51
Bethlehem	24	28	34	38	4	0	6	28
Hebron	70	154	74	146	73	4	16	53
Central Workshop	5	7	6	8	0	0	1	7
TOTAL	527	1,037	554	1,057	504	6	70	477

Note) As for equipment for the kitchen and the laundry, a piece of equipment was selected respectively because details of them were unknown. Total number of types of equipment is cumulative figures per hospital.

In preparing the list of equipment attached to the Minutes (including the order of priority), the research group set up the standards of selection by position of the designated hospitals. According to the standards, the group made up an alternative plan to discuss with the Palestinian side. Upon the discussion, 554 types of equipment and 1,057 pieces of equipment were confirmed and written in the Minutes. And the list stating the order of priority by four phases was made up.

Four phased priorities:

- A: TOP PRIORITY (a must for the hospitals)
- B+: HIGHER MEDIUM PRIORITY (necessary for hospital activities)
- B: LOWER MEDIUM PRIORITY (necessary, but lower priority)
- C: LOW PRIORITY (not included in the project)

Table 2-2-1-(2) Major Equipment

Department	Description
JENIN HOSPITAL	Autoclave, Gastroscope, Obstetric Delivery table, E.C.G. , Defibrirator, Chemistry Analyzer, Transport Incubator, Operating Ceiling Lamps, Anesthesia Machine, Operating Table, Mobile X-ray, Ultrasonic Equipment, Electric Surgery Unit
TULKAREM HOSPITAL	Autoclave, Gastroscope, Colonoscope, Obstetric Delivery table, E.C.G. , Defibrirator , Kitchen Equipment set, Chemistry Analyzer, Transport Incubator, Electric Surgery Unit, Operating Table, X-ray for General Purpose (Bucky), Mobile X-ray, Ultrasonic Equipment, Operating Ceiling Lamps
WATANI HOSPITAL	Holter Analyzer, Gastroscope, Sigmoidoscope, Electroencephalograph (EEG), Central Monitoring System, E.C.G., Chemistry Analyzer, Blood Gas Analyzer, Transport Incubator, Ultrasonic Equipment, Echocardiography machine, Hemodialysis Machine
RAFIDIA HOSPITAL	Autoclave, Laparoscope, Gastroscope, Colonoscope, Obstetric Delivery table, E.C.G., Defibrirator, Blood Gas Analyzer, Laundry set, Electric Surgery Unit, Anesthesia Machine, Operating Table, X-ray Fluoroscopy, CT Scanner, Ultrasonic Equipment
RAMALLAH HOSPITAL	Holter Analyzer, Autoclave, Laparoscope, Obstetric Delivery table, Central Monitoring System, E.C.G., Defibrirator, Blood Gas Analyzer, Refrigerated Centrifuge, Transport Incubator, X-ray Fluoroscopy, X-ray for General Purpose (Bucky), Mobile X-ray, Ultrasonic Equipment, Echocardiography machine, Operating Ceiling Lamps, Anesthesia Machine, Hemodialysis Machine
BEIT JALA HOSPITAL	Obstetric Delivery table, Defibrirator, Chemistry Analyzer, Transport Incubator, Electric Surgery Unit, X-ray Fluoroscopy, Mobile X-ray, Ultrasonic Equipment, Autoclave, E.C.G.
BETHLEHEN HOSPITAL	Electroencephalograph (EEG), E.C.G. , Defibrirator
HEBRON HOSPITAL	Holter Analyzer, Laparoscope, Blood Gas Analyzer, Refrigerated Centrifuge, Electric Surgery Unit, X-ray Fluoroscopy, X-ray for General Purpose (Bucky), CT Scanner, Mobile X-ray, Ultrasonic E.C.G., Operating Table, Operating Celling Lamps, Anesthesia Machine, Hemodialysis Machine
CENTRAL WORKSHOP	ECG simulator, Defibrillator tester, Electro surgical unit tester, Oscilloscope

2) Selection of equipment

In selecting the equipment, we checked each hospital's functions and roles, and effectiveness produced by this project. After the discussion, we made up the list of designated equipment with four phased priorities which was attached to the September 28, 1997, Minutes.

Priority standards

(1) Equipment basically and essentially needed for hospital activities.

- (2) Renewal of the existing equipment
- (3) Equipment which meet the requirements of the hospitals by level of medical care service
- (4) Equipment with which demand (the number of patients and specimens) in diagnosing and curing activities can be confirmed fully.
- (5) Equipment of which operation and maintenance are possible technically.
- (6) Equipment of which maintenance are affordable, including purchase of consumables and replacement parts.
- (7) For installation of the equipment, infrastructures are available

Deletion standards

(1) Equipment which need introduction of new staff and new technologies.

- (2) Equipment of which installation is impossible judging from infrastructures situations (instruments which require additional construction and major improvement of facility).
- (3) Equipment of low cost performance (low demand despite expensive prices).
- (4) Equipment overlapped with the list of requested equipment, existing facilities or other aid organizations.
- (5) Equipment which may violate rules on treatment of wastes and radioactive substances.
- (6) Equipment of which maintenance is difficult technically or financially.

2-2-2 Investigation of Requested Contents

As regards the requested medical care equipment, their priority orders, quantities and grades were investigated in detail according to the aforementioned "Basic concept of equipment plan" and "Evaluation standards for equipment selection." In carrying out the investigation, the contents of agreement with the Palestinian side on the equipment selection are as follows, and the agreements were taken into consideration for the final selection of objective equipment:

1) Coherence between the existing equipment and requested equipment

We investigated the existing equipment of the eight designated hospitals and discussed specifications of the requested equipment with doctors, nurses and paramedical staff of the hospitals, while we checked the infrastructures on sites such as electricity, water supply, drainage, etc. which are related to installation of the equipment.

2) Equipment procured by a third country

Based upon the research on situations of the designated hospitals, most of the existing equipment are made in Europe, USA or Israel. Therefore, it is necessary to consider procurement of equipment from a third country, for which it should be fully investigated whether 1) staff are familiar with operating equipment, 2) delivery routes of consumables and replacement parts are established, 3) an agent is available on sites.

 Avoidance of overlapped equipment with grant-aid programs from other donation

According to the transfer of the autonomy to West Bank in 1995, grantaid projects from other countries such as France and Spain have been implemented. We have checked equipment granted by these countries thoroughly so that the equipment procured by this project will not overlap them.

4) Maintenance of the equipment

(1). Maintenance system of MOH

The Central Maintenance Department of MOH in Ramallah is handling a maintenance system of public hospitals and medical equipment in West Bank. Its roles include staff assignment, purchase of equipment (procurement of replacement parts) and budget plans for each hospital.

Specifically, there are workshops at the hospitals where maintenance staff such as mechanical engineers work on a regular basis and machine tools are available for daily maintenance and easy repairs.

For the implementation of the project, the maintenance system should be well-planned and systematic for daily, monthly and regular inspections. Therefore, the system should be improved in terms of a maintenance contract of high-priced equipment (CT scans, ultrasonic diagnosis machines, hemodialysis machines, central patient monitors, etc.) with an agent/agents in Palestine, and training of maintenance staff.

MON announced that the Palestinian Authority concluded the official contract with the Italian Government with regard to establishment of Polytechnic College. Its curriculums include a paramedical training course for 20 to 30 students. As MON will employ graduates in this course on a regular basis, it will help to make a staff plan.

②. Conditions of Palestinian agents handling medical equipment

In terms of advanced equipment such as CT scans, ultrasonic diagnosis machines, hemodialysis machines, central patient monitors, etc., equipment which can be maintained by the Palestinian agents should be selected. At least, it should designate manufacturers who have its official agent in the Middle East, for example in Egypt or Jordan, and cover the whole areas of Palestine.

- 5) Contents of request for main equipment
 - (1). CT scans (for Rafidia and Hebron Hospitals)

Medical treatment system for heart and brain diseases will be established in three areas: Rafidia Hospital in the north, Ramallah Hospital in the central area, and Hebron Hospital in the south. Medical personnel engaging in this are well-trained after completing a training course at Ramallah Hospital. Rafidia Hospital has used the CT scan which was bought about 15 years ago and transferred from Ramallah Hospital. Since it takes huge maintenance costs due to the overage equipment, a new one is required.

At present, only Ramallah Hospital has main equipment such as CT scans and echo cardiographs as well as medical specialists of this field.

(2). X-ray units of fluorescent type (for Ramallah and Hebron Hospitals)

The designated hospitals have used X-ray units made in Israel (Elsint) for years, which have been getting too old. Because Israeli products are difficult to obtain maintenance service, it is requisite to select equipment which can be maintained by Palestinian agents.

③. Central patient monitors (for Watani and Ramallah Hospitals)

In order to strengthen functions of ICU and CCU, hospitals offering the secondary and a part of the tertiary health care services (Ramallah, Rafidia, Watani, Beit Jala and Hebron Hospitals) requested the central patient monitors. Reviewing the current situations based on the on-site research, it was judged that Watani and Ramallah Hospitals should be the designated hospitals. (f). Color Doppler ultrasonic diagnosis machines or echo cardiographs (for Watani and Ramallah Hospitals)

As well as the above CT scans, in order to treat the heart disease in three areas, Watani (in the north), Ramallah (in the central area) and Beit Jala (in the south) Hospitals requested the equipment. The existing equipment used at Ramallah Hospital will be transferred to Beit Jala Hospital, therefore, two pieces of equipment were selected for Watani and Ramallah Hospitals.

(5). Hemodialysis machines (for Watani, Ramallah and Hebron Hospitals)

In order to tackle the increasing number of patients of chronic diseases, especially of kidney diseases, treatment conditions should be improved urgently. 18 hemodialysis machines will be installed at three hospitals: Watani, Ramallah, and Hebron Hospitals. 2-2-2 (3) List of Investigation of Requested Equipment

As for "<u>Priority of standards</u>" and "<u>Deletion standards</u>," please refer to "Selection of equipment" on Page 34.

<u>Total evaluation</u>

- A: Equipment which should be procured
- B: Equipment which are not included in this project
- C: Equipment which were turned down at the time of discussion on the draft report with the hospitals

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132 Radiology Mobile X-ray 133 Radiology Ultrasound Equipment, Ob/Cyn 1 1 134 Radiology Ultrasound Equipment, Ob/Cyn 1 1 1 135 Radiology Ultrasound Equipment, Ob/Cyn 1 1 1 1 135 Radiology Ultrasound Equipment, Portable 1 1 1 1 136 Radiology Ultrasonc Equipment, Portable 1 1 1 1 137 Radiology Automatic Film Processor 5 5 0 137 Radiology Protection Gown 5 5 0 157 Others Ambulance 1 1 1 1	X-ray for General Purpose (BUCKy)				+				4	1
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TK-	140	Cardiology	Treadmill machine		_	-		- +	_					Δ.	.
TK-	6	CSSD	Autoclave, 250 L w/ steam generator				<u> </u>	0	0		-1			¢	-
TK-	10	CSSD	Ultrasonic cleaner unit	1	-		<u> </u>		0		-	_		A	-
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TK-	2	CSSD	Tube Washing Machine	-1	1				0				~	A	-1
TK-	13	CSSD	Sealing Machine				0		0					A	
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TK-	44	Emergency	Patient Trolley	5		5						-	0	£	
TK-	23	Endoscopy	Laparoscope	-			<u> </u> _				0	1 1		23	I
TX-	1	Endoscopy	Gastroscope				1	0	0					A	1
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ž	Г	Gvn. Obst	Vacuum Extractor	~1	-		0	0	0					A	-
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TK.	75	Laboratory & B Bank	Water Distiller (automatic) 4L/h	2	1	1		0	0		_			A	r-1
ĩĶ.	76	Laboratory & B. Bank	Blood Donor's Chair	· •		-							0	ß	1
TK.	44	Laboratory & B Bank	Hematology (Blood) Cell Counter			-		0	0	•				A	1
Υ.	62	Laboratory & B Bank	Centrifuge up to 12000rpm	1	- - -			0	0		:			A	Ч
.IK	1	Laboratory & B Bank	Binocular Microscope	1	1	7	0	0	0		_			A	-4
11 L	₽	Laboratory & B Bank	Blood Gas Analyzer			- 1							0	ß	1
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TX.	150	Laboratory & B Bank	Blood bank Refingerator	_	-			0	· 0					¥	1
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TK.	78(B)	Laboratory & B Bank	Spectrophotometer	- 1	-		_	0	0					A	1
TK	4S(A)	ICU	Respirator for newborn	_	. 		Ļ	_					0	£	1
Ϋ́	112	Operating Room	Elec: Surgery Unit	c 3	-			0	0				-	A	1
, ¥	11		Operating Cerling Lurips, Satellite 8x4	2	2			0	0					Y	2
TK-	115		Anaesthesia Machine with Ventulator, with Monitor	63		5						••••	0	ы	1
TK-	911		Operating Table, Electric Hydraulic		1			0	0					A	1
TK-	105	Pediatric	Infant Incubator. Double Wall	6	4		_	0	0			_		Ł	4

Tulkarem Hospital

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Description			Transport Incubator	Apnea Alarm	Ovumen Monitor		Phototherapy Unit	Warming Mattress	Basic Pediatric Surgical Inst. set	X-ray for General Purpose (Bucky)	Mobile X-ray	Ultrasound Equipment, Ob/Gyn	Ultrasound Equipment, General Use w/probe	Ultrasonic Equipment, Portable	Automatic Film Processor	Protection Gown	Ambulance	Transport Van
Department			Pediatric	107 Pediatric	0.4.460	100 roman	109 Pednatric	124 Pediatric Surgery	125 Pediatric Surgery	130 Radiology	132 Radiology	133 Radiology	134 Radiology	135 Radiology	136 Radiology	137 Radiology	157 Others	158 Others
ltem No			106	101	2	2	8	5	5	50	132	133	7	135	136	5	6.1	<u>8</u>
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Watani Hospital

Item No	Department	Description	Required	Require	Required Priority		Criteria For Priority		Criteria Fc	Criteria For Deletion	Evaluation	Result of Quantity
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WT. 7	Cardiology	Holter Monitor		╞	}		0				A	-1
	Cardiology	Holter Analyzer						<u> </u>			۷	
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		water Softener for Scenitzer	•		` ` 						pi l	
WT- 144		Patient Trolley					-+))		ŀ
WT- 24	Endoscopy	Gastroscope	1	-		0	_				ł	,
WT 26		Sigmoidoscope		1			0				×	-
	1	E.C.G. One Channel	r1	(1				_	-		A	5
		Suction Mohil	[r4							0	8	1
5			-			+					ŝ	1
		E.M.C. (Electro myograph)	- -			<u> </u>	+	4				-
WT- 172	General	Electroencephalograph (EEG) 7 channel					-					, , ,
WT- 42	ICU	ICU Bed	4	3		0					₹ 	, r,
WT- 43	licu	Electrocardiograph, 3 channels	64	1	-	0					A	- 1
	1	Ultrasonic Nebulizer	4		4				_	0	<u>м</u>	1
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			6		10					0	ណ 	I
	Т		<u> </u>							C	a	
WT- 50	ICU	Blood Gas Analyzer				-[+					
WT- 51	ICU	External Pacemaker	-4		-		0					+
WT- 52	licu	Pulse Oximeter	4		4					-	ра —	1
i -	ł	Blood Pressure Meter, Automanc/Electric measures	6	_	3					0	2	1
- i	1-	Central Monitoring system for 6 beds									A	1
		Question for Adult/child	2	2			í C C				¥	63
- F	Videou Unitediation	Monodialusis Machina						<u> </u>			A	2
Т			-	c							A	2
		Hemodualysis Chair	2	•			+-			(: [1]	
WT- 50		Kitchen equipment set	I				+			- 		,
WT- 75	Laboratory, B.Bank	Water Disuller (automatic) 4L/h	7				0					
VT. 77	Laboratory, B.Bank	Hematology (Blood) Cell Counter		1	•						×	
64 -TW		Centrifuge up to 12000rpm	7	1	1		0 0		_		¥	
WT. 80	1	Binocular Microscope	61	1		0	0				A	-4
WT- 81	1	Blood Gas Analyzer	~-	-			00				A	~
¥. TM	+	Tissue Processor	-					0			а —	1
	+	Embedding Machine	- 					0			B	1
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- 1	-	Aprea Alam				╈						-
		Oxygen Monitor	-				-					
WT- 109	Podiatric	Phototherapy Unit		2								7

Watani Hospital

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124Rediatine SurgeryWarming MattressABCI234567123456134RadiologyUltrasound Equipment, General Use111111000	Item No	Department	Description	Required	Required Priority	Criteria For Priority	Criteria For Deletion	Evaluation	Quantity
124Fediante SurgeryWarmung Mattress134RadiologyUltrasound Equipment, General Use222135RadiologyUltrasound Equipment, General Use1110136RadiologyUltrasound Equipment, Portable1111137RadiologyAutomatte FullProtection Gown55500137OthersAnbulance111100137Others1111000137Others1111000		•				1 2 3 4 5 6 7	5		
124 Pediatric Surgery Warrung Mattress 134 Radiology Ultrasound Equipment, General Use 1 1 1 1 0 0 135 Radiology Ultrasonic Equipment, Contral Use 1 1 1 0 0 0 136 Radiology Ultrasonic Equipment, Portable 1 1 1 0 0 0 137 Radiology Automatic Film Processor 1 1 1 0 0 0 137 Radiology Protection Gown 5 5 0 0 0 0 157 Others Anbulance 1 1 1 1 0 0 0 158 Others Transport Van 1 1 1 0 0 0					, ,			A	~
134RadiologyUltrasound Equipment, General Use111100135RadiologyUltrasone Equipment, Portable1111000136RadiologyAutomatic Fulm Processor11110000137RadiologyAutomatic Fulm Processor555000000137RadiologyProtection Gown5550000001157OthersAmbulance111110000000158OthersTransport Van111110000000		Pediatric Surgery	Warning Mattress	7	~				
134 Kautovogy Uttrasonic Equipment, Portable 1 1 1 0 0 135 Radiology Uttrasonic Equipment, Portable 1 1 1 0 0 136 Radiology Automatic Fulm Processor 1 1 1 1 0 137 Radiology Automatic Fulm Processor 5 5 0 0 0 137 Radiology Protection Gown 1 1 1 0 0 137 Others Ambulance 1 1 1 0 0		0-41-1-	1 Heven ad Exment Coners! [les	1			C C	9	
135 Radiology Ultraconic Equipment. Portable 1 1 1 136 Radiology Automatic Full Processor 1 1 1 0 137 Radiology Protection Gown 5 1 1 0 137 Radiology Protection Gown 5 5 0 0 157 Others Ambulance 1 1 0 0 158 Others 1 1 1 0		Kautotogy						4	
136 Radiology Automatic Film Processor 1 1 1 137 Radiology Protection Gown 5 1 5 0 137 Radiology Protection Gown 5 1 1 0 137 Radiology Protection Gown 5 1 1 0 138 Others Ambulance 1 1 0 0		Radiology	Ultrasonic Equipment, Portable	1					-
137 Radiology Protection Cown 5 5 6 137 Radiology Protection Cown 1 0 157 Others Ambulance 1 0 158 Others Transport Van 1 0		Dedicion	Automatic Film Processor			000			1
137 Radiology Protection Cown 157 Others Ambulance 1 158 Others Transport Van 1	0CT -T M	Valuery		ľ				201	1
157 Others Ambulance 158 Others Transport Van 1 0 1 0	WT- 137	Radiology	Protection Cown					ď	1
158 Others		Others	Ambulance	-					
		Others	Transport Van					- Q	

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6.	Autopsy	Post-Mortem Knife set		1		0					Ą	
RF- 4		Post-Mortern Forceps set		1		0	0				A	1
RF- 5	Autopsy	Autopsy Refrigerator for Samples	ľ	1	[0		ല	I
RF- 6		Autopsy Instrument set		-		0	0				Å	-1
RF. 9		Autoclave, (400 L)		-		0	-				A	г
RF- 10) CSSD	Ultrasonic cleaner unit		1		0	0				A	e-1
RF- 11		Drying machine			-	╞		 	0		В	I
RF- 12		Tube Washing Machine		1		0	0				A	1
RF- 13		Sealing Machine	-	-		0	0				A	
RF- 14		Water Softener for Sterilizer	-		-				0		Я	1
RF- 144		Patient Trolley	S		s				0		ര	1
RF- 23	Endoscopy :	Laparoscope		1		0		· ~ _ ·			A	
RF- 24		Castroscope		1		0				_	A	-4
RF- 25	1.5	Esophagoscope	-	1		0	00				A	
RF- 28	Endoscopy	Thoracoscope(Rigid type)	1		1			ō		•	മ	1
RF- 148	8 Endoscopy	Pediatric rigid bronchoscope	1	1		0	00				A	F-4
RF- 26(A	26(A) Endoscopy	Sigmoidoscope	1		1			0			£	1
RF- 26(B)	B) Endoscopy	Colonoscope	I	1		0	0				A	
RF- 27(A)	A) Endoscopy	Arthroscope, rigid type	1	1					0	·	ပ	1
RF- 27(E	27(B) Endoscopy	Urethroscope	1	1		0	0				A	-1
34	General	Suction Mobil	3		3				<u>0</u> 		В	1
RF- 36	General	Instrument cabinet	4	-	4				0		Ю	1
RF- 38	Gyn. Obst.	Vacuum Extractor	3	2	1	<u>0</u>	\square	_			Å	~
RF- 39		Fetal Monitor(Tococardiograph)	2	2		0					A	2
RF- 40	Gyn. Obst.	Obstetric Delivery table	2	1	1	0					A	* 1
RF- 42	ICU	ICU Bed	5		5				0		τŋ	1
RF- 43	ICU	Electrocardiograph. 3 channels	5	1	1	0					A	-4
RF- 44		Ultrasonic Nebulizer	1	1		0					Ą	-4
RF- 45	Icu.	Infusion Pump	12	7	5	0					A	2
RF- 46	īcu	Syringe Pump	20	5	3	0			-		A	ŝ
RF- 47	Icu	Respirator for Adult	(1)		2				0		В	1
RF- 49	ICU	Defibrillator	1	1		0					Å	ч
RF- 50	ICU	Blood Gas Analyzer	1		1			-	0		ୟ	I
RF- 51	licu	External Pacemaker	1	1		0	0				A	-4
RF- 52	ICU	Pulse Öximeter	4	4		0	0				A	4
RF- 53	licu	Blood Pressure Meter. Automatic/Electric measures	3		3				0	_	р	1
	41(B) ICU	Patient Monitor. A @ Bedside type	5		5				0		മ	I
RF- 48(B												ſ.

Item No	°Z	Department	Description	Required	Requ	Required Priority		Ŝ	Criteria For Priority	Criteria For Deletion	ion Evaluation		Result Of Quantity
				Contract	A	B+ B	0	1	3 4 5 6 7	1 2 3 4 5	9		
25	5	Kitchen	Kitchen Eduitment set	-			-			0	ല 	_	1
		I aboratory B Bank	Water Distiller (automatic) 41/b		61			0	0		Υ		\$
	1	I aboratory R Bank	Blood Donor's Chair	5				0	ō		Y I		1
	-T	Laboratory, B.Bank	Hematology (Blood) Cell Counter	5	-		-	0	0		~		. 1
		Laboratory, B.Bank	Centrifuce up to 12000rpm	63			 	0	0		¥		•
		Laboratory, B.Bank	Binocular Microscope	2	-			0	0		Ч 		
		Laboratory, B.Bank	Blood Gas Analyzer					0	0		4		-1
	1	Laboratory, B.Bank	Retrigerated Centrifuge							0	21 		1
RF.	Г	Laboratory, B.Bank	Platelet Shaker		-			0	0				, , , , , , , , , , , , , , , , , , ,
RF.	2	Laboratory, B.Bank	Tissue Processor	1				0	0				
RF.	85	Laboratory, B.Bank	Embedding Machine	• 7	-			0	0		< _		
RF-	Τ	Laboratory, B.Bank	Microtome, Freeze Type		1			0	0		4	-	-4
RF-	8	Laboratory, B.Bank	Water Bath	_				0	0		& 		
RF.	38	Laboratory, B.Bank	Cryotome	1	- 1			0	0	-	¥		-1
RF-		Laboratory, B.Bank	Fume Hood	I				0			<		
RF-		Laboratory, B.Bank	Multi-heads Microscope, with camera					0	0		¥	-	
RF	1	Laboratory, B.Bank	Knife Sharpener	1				0	0		V	_	
E E		Laboratory, B.Bank	Cystospin	-	-		<u> </u>	0	0		×		1
RF-		Laboratory, B.Bank	Billirubinometer	3			61	0			<	-	
RF	T	Laboratory, B.Bank	Blood bank Refrigerator	2			-	0			¢,		*t
RF-		Laboratory, B.Bank		64				0	0		۲. ۲	_	۰ ،
		Laboratory, B.Bank	1	-	-		<u> </u>	0	0		4.	_	- 4
	T	Laboratory, B.Bank	1	5			-			0	ם 		
		Laboratory, B.Bank	Electrophoresis machine		-		\vdash	0	0		~		
1			Spectrophotometer	1		1				0	ш —	_	t
	5	Laundry	Laundry Equipment Set					0	0				1
RF.	걸	Maintenance	Workshop Tool							0	Ω		1
RF- 4	48(A)	ICU	Respirator for newborn	2		 	6			0			•
RF-	112	Operating Room	Elec. Surgery Unit	3	1		2	0					_
RF.	114	Operating Room	Operating Ceiling Lamps, Satellite 8x4	4	2		2	0			4		, 1
RF-	115	Operating Room	Anaesthesia Machine with Ventilator, with Monitor	17	1		-	0					
RF-	116	Operating Room	Operating Table, Electric Hydraulic	1	1			0	0				
RF-	113	Operating Room	Central in condition unit (Chiller 250 tone)	1						0			ţ
RF	117	Orthopedic	Preumatic Tourniquet	1	1			<u>0</u>	0				- 1
RF-	118	Orthopedic	Total Hip Replacement surgery set	-1	1					0			1
RF.	119	Orthopedic	Kuntscher Nail Instrument set	1	1		-	0					
RF-	120	Orthopedic	Austin Moor's Instrument set	7	1			0			≪		
RF.	121	Orthopedic	Wire Tightener				=	믜			¢.		,

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n Result Of Quantity			1	4	1	ت ه	-1	~	ŝ	r-1	r -4			7	1	1	1		r 1	1	1	1	1		
Evaluation		A	A	Å	ព្	A	R	A	A	A	A	A	A	A	ပ	A	n	Ą	۲	Ą	ណ	۵ <u>م</u>	р		
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Required Priority	B+							-							-	• • •									
Reg	┥	1		4		4		6	3		1	1							-1	1				86	
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Required Quantity			٦	9	-	V	-	ŝ	ę	6	61	7	1			-	1	1	2	1	10	1	-1		
Description		1		[a]]						it. set	iet		set		(Bucky)	laser Imager	Gyn	seral Use w/probes	able					TOTAL	
Desc		Laminectony Instrument set	Pneumatic Bone Drill	Infant Incubator, Double Wall	Transport Incubator	Apnca Alarm	Oxygen Monitor	Phototherapy Unit	Warming Mattress	Basic Pediatric Surgical Inst. set	Basic Infant Surgical Inst. set	Vascular Surgical Inst. set	Plastic Surgery Instruments set	X-ray Fluoroscopy	X-ray for General Purpose (Bucky)	CT Scanner (Continuous), Laser Imager	Ultrasound Equipment, Ob/Gyn	Ultrasound Equipment, General Use w/probes	Ultrasonic Equipment, Portable	Automatic Film Processor	Protection Gown	Ambulance	Transport Van		
Department		Orthopedic	Orthopedic	Pediatric	Pediatric	Pediatric	Pediatric	Pediatric	Pediatric Surgery	Pediatric Surgery	Pediatric Surgery	Pediatric Surgery	Plasllo Surgery	Radiology	Radiology	Radiology	Radiology	Radiology	Radiology	Radiology	Radiology	Others	Others		
		122	123	105	8	107	108	109	124	12	126	-	I	T	130	131	133	134	135	136	137	157	158		
ltem No		l≓	12	I=	۱¥	١۲	۲,	IΞ	12	12	12	l∺	ŀ≓	12	HH.	-	14	12	H-	~	-	1	12		

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Item No	Department	Description	Required	Required Priority	5	Criteria For Priority	Critena For Deletion	Evaluation	Result Of Quantity
			,	A B+ B C	1 2		1 2 3 4 5 6		
RM- 138	Cardiac surgery	Coronary Bypass surgical set	1			0		4	
	T	Holter Monitor		1	0			A	
RM- 8	Cardiology	Holter Analyzer			0	0		A	-1
	T	Echocardiography machine	-		0			A	
	1	Autoclave, (400 L)			0			×	Fri
		Ultrasonic cleaner unit		1	0	0		A	r-1
		Drving machine	-				0	<u>а</u>	1
		Tube Washing Machine		1	0	0		A	
		Scaling Machine	-			0		A	-1
	Т	Water Softener for Sterilizer	_	1	0	0		Ł	r-4
		Patient Trolley	10	01			0	ß	I
		Laparoscope	-	1	0			Å	
RM- 24	1	Gastroscope	-	1	0			Å.	
I.	T	Esophaguscope	-	1			0	m	
I.		Thoracoscope	-	1	0			A	
RM- 148	1	Pediatric rigid bronchoscope	-		0	0		A	
		Sigmoidoscope	_	-	0			A	-1
	27(A) Endoscopy	Arthroscope, ngid type		1			0	ပ ပ	I
1	General	Oxygen Generator					0	<u>د</u> م	1
	1	Suction Mobil	0	3 3			0	m	ł
RM- 35	Г	Spirometer			0			K	H
		Instrument cabinet	4	4			0	m	1
		Vacuum Extractor			0			K	
	Г	Fetal Monitor(Tococardiograph)	5	5	0			¢	~
RM- 40	1-	Obsterric Delivery table			0	0		4	
RM- 42	T	ICU Bed	5	5	_	_	0	21	
RM- 43	•	Electrocardiograph, 3 channels	-	1				A	
RM- 44	ICU	Ultrasonic Nebulizer	3	1 2	0	0		K	
RM- 45	ICU	Infusion Pump	12	7 5	0			۲	7
		Syringe Pump	20	5	0			Ŕ	5
RM- 49	ICU	Defibrillator	ю	1 2	0	00		۲	-1
RM- 50	ICU	Blood Gas Analyzer	_				0	ы	!
RM- 51	Icu	External Pacemaker	1				0	<u>р</u>	1
RM- 52	ICU	Pulse Oximeter	5	5 1 1	0	0		K	10
RM- 53	Icu	Blood Pressure Meter, Automatic/Electric measures	\$	3 2		-		4	m
RM- 41(A	41(A) [CU	Central Monitoring System for 5 beds	-4	1	<u>0</u>			A	-1

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Additional ICU RM- 48(B) ICU RM- 55 Kidney RM- 55 Kidney RM- 55 Laborate RM- 75 Laborate RM- 77 Laborate RM- 79 Laborate RM- 80 Laborate	ICU ICU Kidney Hemodiatysis		Quantity	A B+ B C	B C	~~		1			Cuantity
tional 48(B) 54 55 55 56 75 76 77 76 77 80	s ney Hemodiatysis			+	ĥ	-		-			
48(B) 48(B) 55 55 56 56 75 76 77 77 79 80	ncy Hemodiatysis		4	4		-(4 0 0	A	ų
48(B) 55 56 75 76 77 77 79 80	ncy Hemodiatysis	r autour Eritor Source cart	,		ŀ		_				, c
5 4 5 5 5 5 7 5 7 7 7 7 7 9 8 0	ncy Hemodiatysis	Respirator for Adult/child	ю	64		-				K	N
55 56 75 76 77 79 80		Hemodialysis Machine	10	8	2	1	00	-		V	x
56 75 77 79 80	Kidney Hemodiatysis	Hemodialysis Chair	10	4	6					۲	4
75 76 77 79 80	then	Kitchen Equipment set	1	-					0	ณ	ł
76 77 79 80	Laboratory, B.Bank	Water Distiller (automatic)4L/h	ĥ	17		Ē	00			A	2
77 79 80	Laboratory, B.Bank	Blood Donor's Chair	2	-		Ĺ	00			A	Ч
79 80	Laboratory, B.Bank	Hematology (Blood) Cell Counter	-	_		É	00			۲	-1
80	Laboratory, B.Bank	Centrifuge up to 12000rpm	2	-		0	0			Å	Ч
	Laboratory, B.Bank	Binocular Microscope	2			0	0			A	, - 1
RM- 81 Lab	Laboratory, B.Bank	Blood Gas Analyzer	-			Ĺ				A	r4
82	Laboratory, B.Bank	Refingerated Centrifuge	-			Ĕ	00			A	1
T	Laboratory, B.Bank	Platelet Shaker	 _	-		Ĕ	00			A	1
RM- 86 (Lab	Laboratory, B.Bank	Microtome	1		-				0	83 83	1
RM- 87 Lab	Laboratory, B.Bank	Water Bath					• • • • •		0	<u>ຄ</u>	ł
RM- 88 Lab	Laboratory, B.Bank	Cryotome	I			L			0	<u>ຄ</u>	
RM- 89 Lab	Laboratory, B.Bank	Fume Hood	1						0	â	
RM- 90 Lab	Laboratory, B.Bank	Multi-heads Microscope, with camera	-			<u> </u>			0	Я)
RM- 91 Lab	Laboratory, B.Bank	Knife Sharpener	Ţ						0	ង	1
RM- 92 Lab	Laboratory, B.Bank	Cystospin	1		1				0	മ	1
RM- 149 Lab	Laboratory, B.Bank	Billirubinometer	3		ŝ				ō	д	1
RM- 150 Lab	Laboratory, B.Bank	Blood bank Refrigerator	ł	1					-	Ą	Ч
RM- 151 Lab	Laboratory, B.Bank	Cell Washer Centrifuge	1	1					-	Å	٣٩
RM- 153 Lab	Laboratory, B.Bank	Blood bag pack (Bio Scaler)		1						A	
RM- 154 Lab	Laboratory, B.Bank	Deep Freezer -35°C	2		5				0	ñ	I
RM- 155 Lab	Laboratory, B.Bank	Electrophoresis machine	1	1						A	r-1
RM- 78(A) Lab	Laboratory, B.Bank	Chemistry Analyzer	1		1				0	n	;
RM- 93 Lab	Laboratory, Histology	Paraffin oven	••••		П				0	R	1
RM- 94 Lab	Laboratory, Histology	Paraffin Warmer	1		-				0	е П	I
RM- 95 Lab	Laboratory, Histology	Staining set	1		7				0	В	I
RM- 96 Lab	Laboratory, Histology	Rotary Microtome	_						0	В	1
RM- 97 Laundry	Vdry	Laundry Equipment Set	1						0	ណ	1
RM- 104 Mai	Maintenance	Workshop Tool	1		7				0	ß	-
RM- 110 Neur	Neuro-Surgery	Craniotomy set	П	1	-		0			A	1
KM- 170 ICU		Pulse Oximeter	3		3				0	2 2	1
RM- 48(A) ICU		Respirator for newborn	1							¢	r-1

			8						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Item No	9	Department	Description	Required	Required Priority	Criteri	Criteria For Priority	Criteria For Deletion	Evaluation	Result Of Quantity
		4			A B+ B C	1 2 3	4 5 6 7	2 3 4 5	0	
TWQ	=	Oversting Room	Oxvren concentrator	6	و 			0	ດ 	
		Operating Room	Elec. Surgery Unit	1		00			~	
		Onerating Room	Operating Ceiling Lamps, Satellite 8x4	9	5	00			R	.> (
		Commune Room	Anserhesia Machine with Ventilator, with Monitor	3	2	0			ď	2
		Operating Room	Operating Table, Electric Hydraulic	-	-	00			A	r 4
	- I	Operating Poor	Central in condition unit (Chillier 250 tone)	9	و. 			0	8	
						C C			A	-1
		Urthopeatc						0	v	I
	-1	Orthopedic	I otal Hip Replacement surgery set	- -					A	FR
RM- 1	119	Orthopedic	Kuntscher Nail Instrument set	-						
RM-	120	Orthopedic	Austin Moor's Instrument set			_			< <	
RM-	121	Orthopedic	Wire Tightener	1	1	-				ŀ
	Т	Orthopedic	Laminectony Instrument set	1	1				e e	
		Orthonedic	Preumatic Bone Drill		1	00			R	-
Т		Dadiateic	Infant Incubator Double Wall	10	6	00			A	٥
		Podiotic	Transport from hator -	-		0	0		A	٣٦
		r culau lu	AJ unit provide a second and a second		((0			Ł	0
	- 1	Pediatric	Apnea Alatta	, .						-1
RM-	108	Pediatric	Oxygen Monitor	-		1				e co
RM-	66]	Pediatric	Phototherapy Unit	~	~					
RM-	124	Pediatric Surgery	Warming Mattress	e,	с.	5				, r
RM-	51	Pediatric Surgery	Basic Pediatric Surgical Inst. set	2	1		0		<	4 8
RM.	126	Pediatric Surgery	Basic Infant Surgical Inst. set	5	1					-
	1	Pediatric Surgery	Vascular Surgical Inst. set	2	1 1				<	4
	1	Pediatric Surgery	OEsaptageal dilators set	7	1 1		0		×	
	T		Plastic Surgery Instruments set	1	1	— ł			7	-
RM-	129	Radiology	X-ray Fluoroscopy	1	1				×,	- ,
RM-		Radiology	X-ray for General Purpose (Bucky)	1	1		0		A I	
		Radiology	Mobile X-ray ::	2	1	ŏ	0		41	-
RM-	133	Radiology	Ultrasound Equipment, Ob/Gyn	1	1			5	n	ı ,
	134	Radiology	Ultrasound Equipment, General Use w/probes	7		00	0		K	
	135	Radiology	Ultrasonic Equipment, Portable	7	1				A	-4
	9	Radiology	Automatic Film Processor	-	1	0	0		Ą	
		Radiology	Protection Gown	10	10			0	£	
		Athene (Ambulasce					0	ណ	1
		Othere	Transcort Van					ō	B	1
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Ramallah Hospital

Item No BJ- 7 BJ- 9 BJ- 139 BJ- 139 BJ- 10 BJ- 11 BJ- 11	Department	Description	Required	Required Prionity	Priority	ι 			5	Criteria For Deletion	Evaluation	Result Of
		-	Quantity		_	,	ntena r	Criteria For Priority				Summy .
		£		A 8+	B C	1	e.	4 5 6	2 1 2	3 4 5	6	
	Cardiology	Holter Monitor	-	1					0		3	1
	Cardiology	Holter Analyzer	-		1				0		63	1
	t -	Echocardiography machine			-				0		B	1
		Autoclave, 250 L w/ steam generator	~*	7		0	0				A	7
	CSSD	Ultrasonic cleaner unit	-	_		õ	0				Ą	1
	CSSD	Drying machine	-		-					0	B	1
	CSSD	Tube Washing Machine				0	0				A	1
	CSSD	Sealing Machine	1			0	-				A	F1
BJ- 14	CSSD	Water Softener for Sterilizer			-					0	B	1
BJ- 144	Emergency	Patient Trolley	s		v					0	ង	
BJ- 24	Endoscopy	Gastroscope	~							0	В	}
BJ- 25		Esophagoscope								0	c	•
BJ- 145	Endoscopy -	Ureteroscope & Systoscope with surgical set	1		1	0	00				A	
BJ- 146	Endoscopy	Cystoscope	1		1					0	<u>ค</u>	
BJ- 147	1	Resectoscope -	-1						0		е П	1
BJ- 159	Endoscopy	Laparoscope Surgical instrument set	_							0	<u>е</u> р	1
BJ- 26(A)	26(A) Endoscopy	Sigmoidoscope	1	1			0	0			¥	F1
BJ- 33	General	E.C.G. One Channel	1		1					0	M ا	!
BJ- 34	General	Suction Mobil	2	2		0	00				A	0
BJ- 36	General	Instrument cabinet	2		2	-				0	<u>р</u>	1
B)- 38	Gyn. Obst.	Vacuum Extractor	7	11	1	0	00				A	P:1
BJ- 39	Cyn. Obst.	Fetal Monitor(Tococardiograph)	2	c1		0					۲	61
BJ- 40	Gyn. Obst.	Obstetric Delivery table	1	1		0	0				A	+-1
BJ- 42	ICU	ICU Bed	9	4	61	0	0				4	4
BJ- 43	ICU	Electrocardiograph. 3 channels	2	2			0	0			A	5
BJ- 44	ICU	Ultrasonic Nebulizer	1	1		0	0				<	
BJ- 45	licu	Infusion Pump	12	4	30	ō	0				ĸ	4
BJ- 46	ICU	Synage Pump	4	2	2	0	0				A	61
BJ- 49	ICU	Defibrillator	4	1	3	õ	0				A	-1
81- 50	ICU	Blood Gas Analyzer	1	-	1					0	В	1
BJ- 51	ICU	External Pacemaker		1					0		A	
BJ- 52	ICU	Pulse Oximeter	4	5	11	0	0				Y	63
BJ- 53	licu	Blood Pressure Meter, Automatic/Electric measures	5	2	- 3	0	0				¥	0
BJ- 41(C)	41(C) ICU	Patient Monitor. A @ Bedside type	ş	4	2		0	0	-		٩	4 4
BJ- 48(B)	48(B) ICU	Respirator for Adult/child	63	5	:		ō	0			A	5
BJ- 56	Kitchen	Kitchen Equipment set	· · 1	_	1			 		0	<u>م</u>	1
BJ- 75	Laboratory, B.Bank	Water Distiller (automatic) 4L/h	61	2		0	0				A	5

Beit Jala Hospital

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No Department Description Required freenty Curran For Priority Curran For Priority Endination 7 Laboratory, B Bank Hermology (Spicofial) 1	Result Of Quantity		1	-					~	- 1 1	1	1	7	-1	44	•-4	27		χ ο (Ν,	-	•			- 1			7		1	1	1	~
Description Required Required Priority Critera For Priority Recention 2 1 2 4 5 6 7 1 2 3 4 5 Biolocd Denor's Chair 1 1 1 1 2 3 4 5 Biolocd Denor's Chair 2 1	Evaluation		m	A	A	: p	a (η	<	4	A	ω	Ą	۲	۲	۲	A	A	~	Ą.	A	щ	R	J	<	ы	A	¢.	×	m	m	62	
Description Required Quantity Required Required Critera For Phonity Hernatology (Bioed) Cetif 1 1 1 0 0 1 1 Hernatology (Bioed) Cetif Cameringe 1 1 1 0 0 1 1 Hernatology (Bioed) Cetif Cameringe 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1	eletion									_	-		_			-	_																
Description Required Quantity Required Required Critera For Phonity Hernatology (Bioed) Cetif 1 1 1 0 0 1 1 Hernatology (Bioed) Cetif Cameringe 1 1 1 0 0 1 1 Hernatology (Bioed) Cetif Cameringe 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1	ria For D	3 4			ł		24	C L	-			0								-				<u> </u>		с Г				0	0		
Description Required Quantity Required Finantial A Required B C 1 C 3 4 6 6 Blood Demor's Chair 1 1 1 1 0 0 1 5 4 5 6 Blood Demor's Chair 1 1 1 1 0	Cute	-										_										0										0	_
Description Required Required Priority Blood Donor's Chair 1 1 1 Eleved Donor's Chair 2 1 1 Blood Donor's Chair 2 1 1 Camerityer 2 1 1 Damatology (Blood) Cell Counter 2 1 1 Camerityer 2 1 1 1 Damatology (Blood) Cell Counter 2 1 1 1 Damatology (Blood) Cell Counter 2 1 1 1 Blood Gas Analyzer 2 1 1 1 1 Blood Bask Refragerator, small type 1 1 1 1 1 Blood Bask Refragerator, small type 1 1 1 1 1 Blood Donoret 2 1 1 1 1 1 Donoret 2 2 2 2 2	ionty	6			╞				_		_								_					-			-						
Description Required Required Priority Blood Donor's Chair 1 1 1 Eleved Donor's Chair 2 1 1 Blood Donor's Chair 2 1 1 Camerityer 2 1 1 Damatology (Blood) Cell Counter 2 1 1 Camerityer 2 1 1 1 Damatology (Blood) Cell Counter 2 1 1 1 Damatology (Blood) Cell Counter 2 1 1 1 Blood Gas Analyzer 2 1 1 1 1 Blood Bask Refragerator, small type 1 1 1 1 1 Blood Bask Refragerator, small type 1 1 1 1 1 Blood Donoret 2 1 1 1 1 1 Donoret 2 2 2 2 2	ria For Pr	4		C					0	0	0		0	ō	Õ	0	0	0	0	0	0		0		 0		0	0	0				
Description Required Quantity Required Required Priority Blood Denor's Chair A B+ B C Blood Denor's Chair 1 A B+ B C Hermatology (Blood) Cell Counter 2 1 1 1 1 Hermatology (Blood) Cell Counter 2 1	Crite	1 2	4	-	-	-+-		-																	-		_	_					129
Description Required Quantity Blood Donor's Chair Required Quantity Blood Donor's Chair 1 Hematology (Blood) Cell Counter 2 Centritige up to 12000pm 2 Blood Gas Analyzet 2 Blood Bank Refrigerator, small type 1 Blood bank Refrigerator, standi type 1 Blood bank Refrigerator, Scientinge 1 Cell Washer Centritige 1 Deep Freezer -35°C 1 Deep Freezer -35°C 1 Apnea Alarm 2 Apnea Alarm 2 Apnea Alarm 2 Photothemptor 1 Infrant Incubator 1 Infrant Incubator 2 Apnea Alarm 2 Oxygen Monitor 2 Spectrophotometer 1 Nortrasoud Equipriment, Ob/Cyn 1	nonty	H	+	-	ŀ		-1	-	1			1			(1								-			-				5	-	1	51
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Description Blood Donor's Chair Blood Donor's Chair Hemanology (Blood) Cell Counter Hemanology (Blood) Cell Counter Hemanology (Blood) Cell Counter Eliotod Gas Analyzer Blinobunometer Blood Gas Analyzer Cell Washer Centringe Varming Mattress Basic Infant Surgeal Inst. set Basic Infant Surgeal Inst. set Basic Infant Surgeal Inst. set Varay for General Van Ultrasound Equipment, Portable Vandoric Equipment, Portable Automatic Film Processor Protection Gown Ambulance Transport Van<				- (r		*	17		2	1	1		-	1					_		1	1	1	1	-	. [1	1	1	5		1	
Description Blood Donor's Chair Blood Donor's Chair Hematology (Blood) Cell Counter Cantrifuge up to 12000pm Billurobunometer Blood Gas Analyzer Blood Gas Vall Ploop Deep Freezer Sectrophotometer Elec. Surgery Unit Infant Includer Apnea Alarm Oxygen Montor Phototherapy Unit Warming Mattress Basic Peduatric Surgical Inst. set X-ray Fluoroscopy Wohit X-ray Ultrasound Equipment, Portable Ultrasound Equipment, Portable Automatic Film Processor Protection Gown Ambulance Transport Van	\$Ĉ]_	+	-		-																											LAL
																																	10
Department aboratory, B.Bank aboratory, B.Bank	E					mqr				small type					e Wall						cal Inst. set	al Inst. set		Purpose (Bucky)		ment, Ob/Gyn	ent, General Use	nt, Portable	essor				
	Descriptic		Blood Donor's Chair		Linematorogy (Drood)	Centruge up to 1200	Binocular Microscope	Blood Gas Analyzer	Billimbinometer	Blood bank Refrigerator,	Cell Washer Centriuge	Deen Freezer -35°C	Spectrophotometer	Elec. Surgery Unit	Infant Incubator. Doubl	Transport Incubator	Apnea Alamo	Oxygen Monitor	Phototherapy Unit	Warming Mattress	Basic Pediatric Surgi	Basic Infant Surgic	X-ray Fluoroscopy	X-ray for General	Mobile X-ray	Ultrasound Equip	Ultrasound Equipm	Ultrasonic Equipme	Automatic Film Proc	Protection Gown	Ambulance	Transport Van	
tem No BJ- 76 BJ- 77 BJ- 77 BJ- 77 BJ- 77 BJ- 151 BJ- 151 BJ- 154 BJ- 154 BJ- 154 BJ- 154 BJ- 154 BJ- 154 BJ- 154 BJ- 154 BJ- 154 BJ- 156 BJ-				T																Surgery		Pediatric Surgery Basic Infant Surgic			Radiology Mobile X-ray	Radiology Ultrasound Equip	Radiology Ultrasound Equipm		Radiology Automatic Film Proc				

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Item No	Department	Description	Required	Required Priority	ين يزر	Criteria For Priority	Criter	Criteria For Deletion	Evaluation	Result Of Quantity
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BM- I	Autopsy	Autopsy Operating Table					0		ស	1
BM- 2	Autopsy	Autopsy Refingerator, 4 bodies	-				0	-	6J	+
BM- 3	Autopsy	Post-Mortem Knife set	1	1			0		ណ	1
BM- 4	Autopsy	Post-Mortem Forceps set		1			0		ណ	ļ
BM- 5	Autopsy	Autopsy Refrigerator for Samples		-			0		ណ	1
BM- 6	Autopsy	Autopsy Instrument set					0		ល	•
BM- 30	General	Standby Generator, 150kW	-					0	ന	1
BM- 31	General	Electroencephalograph (EEG)		1		00			۲	- 4
BM- 33	General	E.C.G. One Channel	2	1	1	00			A	-1
BM- 37	General	E.M.G. (Electro myograph)			1		0		മ	
	ICU	Electrocardiograph, 3 channels		1		00			Ł	r 1
BM- 49	ICU	Defibrillator	1	1		00		i i	¥.	r≺
BM- 169	ICU	Ultrasonic Nebulizer	1				0		д	ł
	Kitchen	Kitchen Equipment Set						0	മ	1
BM- 160	T	Spectrophotometer	-		-		0	· ·	Д	
BM- 161		Balance	1		-		0		В	1
BM- 162		Water bath					0		۵ ۵	I
	1	Microscope			-		Õ		ß	1
BM- 164	17	Centrifuge			-		0		ក	1
BM- 165		Drug analysis					0		ណ	
BM- 166	1	HLC centrifuge	-		-		0		ណ	1
BM- 167		Shaker for tubes			-		0		ω	1
BM- 168	1	Distillator			1		0		ŝ	,
BM- 149		Billiubinometer	2		61		0		M	
BM- 150	1	Blood bank Refrigerator	1				0		ല	ş
BM- 151	Laboratory, B.Bank	Cell Washer Centrifuge	1		~ 1		0		U)	I
BM- 154	<u> </u>	Deep Freezer -35°C			I		õ		R	1
BM- 93	Laboratory, Histopathology	Paraffin oven	1		1		ō		ព	l
BM- 94	Laboratory, Histopathology	Paraffin Warmer	1		-		0		m	!
BM- 95	Laboratory, Histopathology	Staining set	3		3		0		р С	
BM- 96	Laboratory, Histopathology	Rotary Microtome	1		1		0		<u>д</u>	1
BM- 97	Laundry	Laundry Equipment Set	1		1			0	8	
BM- 157	Others	Ambulance	1					0	ព	1
BM- 158	Others	Transport Van	1				0		ព	1
				4 0 6	22	38				

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				┨	0					۲	-1
Cardiology	HOLIGE MONITOR				0	0	-			۲	~
Cardiology	Holter Analyzer	-		ŀ				0	•••	β	1
Cardiology	Echocardiography machine	4							0	<u>м</u>	*
CSSD	Autoclave, 250 L w/stearn generator	-+ - -					Ī) C	<u>а</u>	1
CSSD	Drying machine				+		1			M	
CSSD	Tube Washing Machine			-			Ţ			<u>_</u>	1
CSSD	Sealing Machine									n ci	1
0.550	Water Softener for Sterilizer	1	_	_	-		Î			90	
areancy.	Patient Trolley	9		6			Ī		2	۹.	
Emergency						0	_	-		Ţ	-
Endoscopy	Lapacopc					_			0	2	}
Endoscopy	Cantoscope		╀╴ ┥	Î		C				¥ 	1
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General		(1		~					0	2	
General	Succoon twoolt			~					õ	മ	1
General	Instrument cabinet	1		Ī	¢		Ī			A	2
icn	Electrocardiograph. 3 channels	╶╋		Ŧ	╉					A	1
ICU	Ultrasonic Nebulizer						ł			A	¢-
icu	Infusion Pump	۲ ۲		-	5					a	
ICU	Blood Gas Analyzer		_		_						
	External Pacentaker	I				0	-				• •
	Dulse Oximeter	64	63		0	0	_			₹ (7
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ICU	raucin invition . Deuxice 17 pc	0) x	64	0	0				4	0
VICTICY LICTIOULITY AND		6		-	Ĉ	0				A	n
Kidney Hemodiatysis	Hemoquarysis Count		-	-					Õ	ឝ	٩
Kitchen	Kutchen Equipment Set	- (,		•	C	 		-		4	63
Laboratory, B.Bank	Water Displier (automatic) 4L/h		•	Ţ						A	
Laboratory, B.Bank	Blood Donor's Chair	7	-		30						
Laboratory, B.Bank	Hematology (Blood) Cell Counter	1		-	5(
Laboratory, B.Bank	Centrifuge up to 12000rpm	6		. 1	2	D D					
Laboratory, B. Bank	Binocular Microscope	2	1	- 1	0	0					,
Charlen Baak	Blood Cas Analyzer	-			0	0	_		-		
Labourdy, Dubank	Dillinikinomatar	"		0	0	0				×	-
DOFEULY, D.D.L.	Direct body Date associate	~			0	- 0				A	
Laboratory, B. Bank	DIOOU DAIN NCILISCIAIN			•	C	C				¢	-
Laboratory, B.Bank	Cell Washer Contrituge				<u>}</u>					V {	1
Laboratory, B.Bank	Automatic Stainer		-						C	и П	1
Laboratory, B.Bank	Blood bag pack (Bio Sealer)			-						ά	
Laboratory, B. Bank	Deen Frexer -35°C	1	_	•1			-				
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Criteria For Deletion	1 2 3						0					0																							0	
Criteria For Priority	4 5 6 7	0			-															-							0							1		
Criteria I		0		-		00		0	00	00	00		0	0	0	0	0	0			00	00	00	00	0	0	0	00	00	00	00					1 42
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Required Req Quantity	A	1		1		3 1	1	c.	3 3	61 61	1 1	1	1	1 1	1	1 1	1	ð 4			1	3		2 1	1 1		1 1	1 1	1 1	2	1 1	\$	П	-	_	÷
Description		Refrigerated Centrifuge	Platelet Shaker	Spectrophotometer	Workshop Tool	Elec. Surgery Unit	Central in condition unit (Chiller 250 tone)	Operating Ceiling Lamps, SateUite 8x4	Anaesthesia Machine with Ventilator, with Monitor	Operating Table, Electric Hydraulic	Preumatic Tourniquet	Total Hip Replacement surgery set	Kuntscher Nail Instrument set	Austin Moor's Instrument set	Wire Tightener	Laminectony Instrument set	Pheumatic Bone Drill	Infant Incubator, Double Wall	Transport Incubator	Арлеа Аlarтл	Oxygen Montot	Photocherapy Unit	Warrung Mattress	Basic Podiatric Surgical Inst. set	X-ray Fluoroscopy	X-ray for General Purpose (Bucky)	CT Scanner (Spiral), Laser Imager	Mobile X-tay	Ultrasound Equipment, General Use	Ultrasonic Equipment, Portable	Automatic Film Processor	Protection Gown	Ambulance	Transport Van	Lithofripsy	
Department		Laboratory, B.Bank	Laboratory, B.Bank		Maintenance	Operating Room	Operating Room	Operating Room	Operating Room	Operating Room	Orthopedic	Orthopedic	Orthopedic	Orthopedic	Orthopedic	Orthopedic	Orthopedic	Pediatric	Pechatne	Pediatric	Pediatric	Pechatric	Pediatric Surgery	Pediatric Surgery	Radiology	Radiology	Radiology	Radiology	Radiology	Radiology	Radiology	Radiology	Others	Others	Others	
ltern No		161	163	78(B)	8	112	113	114	115	116	117	118	119	120	121	122	12		Г			<u>8</u>	12	125	I -	130	1	132		135	136	137		L	171	
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141 Central workshop Truck 8t 1 142 Central workshop Truck with lift 8t 1 143 Central workshop Fork- lift 2.5t 1 157 MOH Ambulance 2 158 MOH Transport Van 2 104 Central workshop Equipment for Central Maintenance 1	Item No		Department	Description	Required Ouantity	Required Priority	Criteria For Priority	Criteria For Deletion	Evalua- tion	Result Of Quantity
141 Central workshop Truck 8t 1 142 Central workshop Truck with lift 8t 1 143 Central workshop Fork- lift 2.5t 1 157 MOH Ambulance 2 158 MOH Transport Van 2 104 Central workshop Equipment for Central Maintenance 1						A RA B	1 2 3 4 5 6 7	1 2 3 4 5 6		
142 Central workshop 143 Central workshop 157 MOH 158 MOH 158 MOH 104 Central workshop	CE. 17	0 17		Thick &t	1			0	B	1
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104 Central workshop		N N	DH	Transport Van	• • •	2		0	8	1
		<u>। उ</u> : इ	entral workshop	Equipment for Central Maintenance	-		C		¥	Ι