

添付資料

1. 署名ミニッツ
2. 詳細協議議事録
3. 要請機材リスト(及び機材の妥当性の検討結果)
4. 収集資料リスト

1. 署名ミニッツ

**MINUTES OF DISCUSSIONS
ON THE PRELIMINARY STUDY
ON THE PROJECT FOR IMPROVEMENT OF EQUIPMENT RELATED TO
CENTRAL FUNCTIONS OF REGIONAL AND COMMUNITY HOSPITALS
IN THE STATE OF ERITREA**

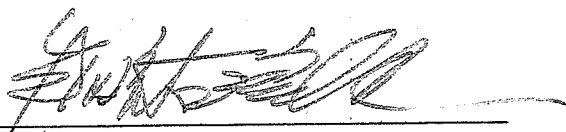
In response to a request from the Government of the State of Eritrea (hereinafter referred to as "Eritrea"), the Government of Japan decided to conduct a Preliminary Study on the Project for Improvement of Equipment Related to Central Functions of Regional and Community Hospitals (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent a Preliminary Study Team (hereinafter referred to as "the Team") to Eritrea, which is headed by Dr. Yujiro Handa, Project Formulation Advisor, JICA Regional Support Office for Eastern and Southern Africa, JICA, and is scheduled to stay in the country from July 29th to August 23rd.

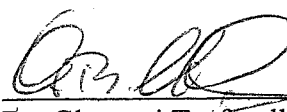
The Team held discussions with the officials concerned of the Government of Eritrea and conducted field surveys.

As a result of the discussions and field surveys, both parties confirmed the main items described in the attached documents. On condition that the Government of Japan approves the implementation of Basic Design Study on the Project, JICA will conduct a Basic Design Study on the Project.

Asmara, August 9th, 2006



Dr. Yujiro HANDA
Leader
Preliminary Study Team
Japan International Cooperation Agency



Dr. Ghermai Tesfasellasi
Director
International Cooperation Office
Ministry of Health
Eritrea



Dr. Woldaj Futur
Minister
Ministry of National Development
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ATTACHMENT

1. Objective of the Project

The objective of the Project is to improve service related to central functions of the targeted hospitals and to improve maintenance service of the Biomedical Maintenance Workshop, through procurement of equipment.

2. Project site

The candidate project sites are Halibet Hospital, Agordat Hospital, Massawa Hospital, Villagio Ginio Hospital and Biomedical Maintenance Workshop as shown in Annex-1.

3. Responsible and Implementing Agency

3-1. The Responsible Agency is the Ministry of Health. The organization chart is shown in Annex-2(A). Distribution of health facilities in Eritrea is as shown in Annex-2(B).

3-2. The Implementing Agencies are Halibet Hospital, Agordat Hospital, Massawa Hospital, Villagio Ginio Hospital and Biomedical Maintenance Workshop, if these facilities are finally selected as targets of the Project. The organization charts are shown in Annex-2(C), 2(D), 2(E), 2(F), and 2(G).

4. Items requested by the Government of Eritrea

After discussions among the Team and related Eritrean officials, equipment itemized in Annex-3 was finally requested by the Government of Eritrea. JICA will assess the appropriateness of the request and report the findings to the Government of Japan.

5. Japan's Grant Aid Scheme

5-1. The Government of Eritrea understood the procedures and contents of Japan's Grant Aid Scheme, described in Annex-4, after explanation by the Team.

5-2. The Government of Eritrea will take necessary measures, as described in Annex-5, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

6. Schedule of the Study

6-1. Consultant members of the Team will make additional in-depth studies related to the Project in Eritrea until August 23rd, 2006.

6-2. If the Project is found feasible in the appraisal process after this Preliminary Study, JICA will send a Basic Design Study Team around January 2007.

7. Other relevant issues

7-1. Selection of Target Facilities

The Government of Eritrea explained their priority among the five requested facilities as follows:

1st Priority: Biomedical Maintenance Workshop

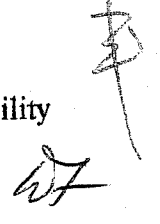

2nd Priority: Halibet Hospital

3rd Priority: Agordat Hospital

4th Priority: Massawa Hospital

5th Priority: Villagio Ginio Hospital

Both sides understood that priority should be set on facilities where 1) condition of physical facility



(building) and utilities such as water and electricity is relevant, 2) enough staff is allocated, 3) there is high utilization of services by the clients, and 4) there is high disease burden in the catchment population. It was fully acknowledged by both sides that additional in-depth studies will be made for the selection of target facilities.

7-2. Selection Criteria for Equipment

Both sides agreed on the selection criteria for equipment to be procured under the Project as mentioned in Annex-6. Both sides understood that additional in-depth studies will be made for the selection of equipment to be procured under the Project.

7-3. Operation and Maintenance of Equipment

Medical director and administrator of the respective facility will be responsible for operation and sound maintenance practices of the equipment procured under the Project. The Government of Eritrea is responsible to secure and allocate sufficient recurrent fund necessary for sound operation and continuing maintenance of the equipment procured under the Project, as a condition for the Project to be implemented.

7-4. Staff Allocation to the Requested Facilities

The Government of Eritrea will allocate necessary number of staff to the requested facilities, particularly to the newly opening Villagio Ginio Hospital as mentioned in Annex-7. The Government of Eritrea understood that staffing to meet the planned service of the requested facilities will be a condition for the implementation of the Project.

7-5. Potential Collaboration with Technical Cooperation Project

The Government of Eritrea expressed their expectation for a technical cooperation project to make further improvement on medical equipment maintenance service provided by the Biomedical Maintenance Workshop as well as management practice at hospitals in relation to equipment maintenance, through dispatch of Japanese technical and/or management expert(s). The Government of Eritrea will submit an official request for technical cooperation to the Embassy of Japan in Kenya before August 23rd, 2006. Both sides expect synergy effects of the Grant Aid Project and the Technical Cooperation Project for uplifting the standard of fundamental health services provided by the requested health facilities.

7-6. Masterplan for Renovation of Halibet Hospital and Relocation of Massawa Hospital

The Government of Eritrea explained the existence of a plan to renovate Halibet Hospital and to relocate Massawa Hospital. The Government of Eritrea will submit the masterplans to Mr. Sasaki, JICA expert for aid coordination positioned in the Ministry of National Development, by December 2006.

7-7. Avoiding Duplication of Support

The Government of Eritrea confirmed that there is no duplication in inputs among other donors regarding the request.

7-8. Tax Exemption

If the Project would be implemented, the Government of Eritrea is responsible for exempting all

Japanese nationals who will be engaged in the Project from all duties and related fiscal charges including VAT, which may be imposed in Eritrea with respect to the import of equipment, materials and services supplied under the verified contract.

Annex-1: Project site

Annex-2(A): Organization Chart of Ministry of Health

Annex-2(B): Distribution of Health Facilities in Eritrea

Annex-2(C): Organization Chart of Halibet Hospital

Annex-2(D): Organization Chart of Agordat Hospital

Annex-2(E): Organization Chart of Massawa Hospital

Annex-2(F): Organization Chart of Villagio Ginio Hospital

Annex-2(G): Organization Chart of Biomedical Maintenance Workshop

Annex-3: Items Requested by the Government of Eritrea

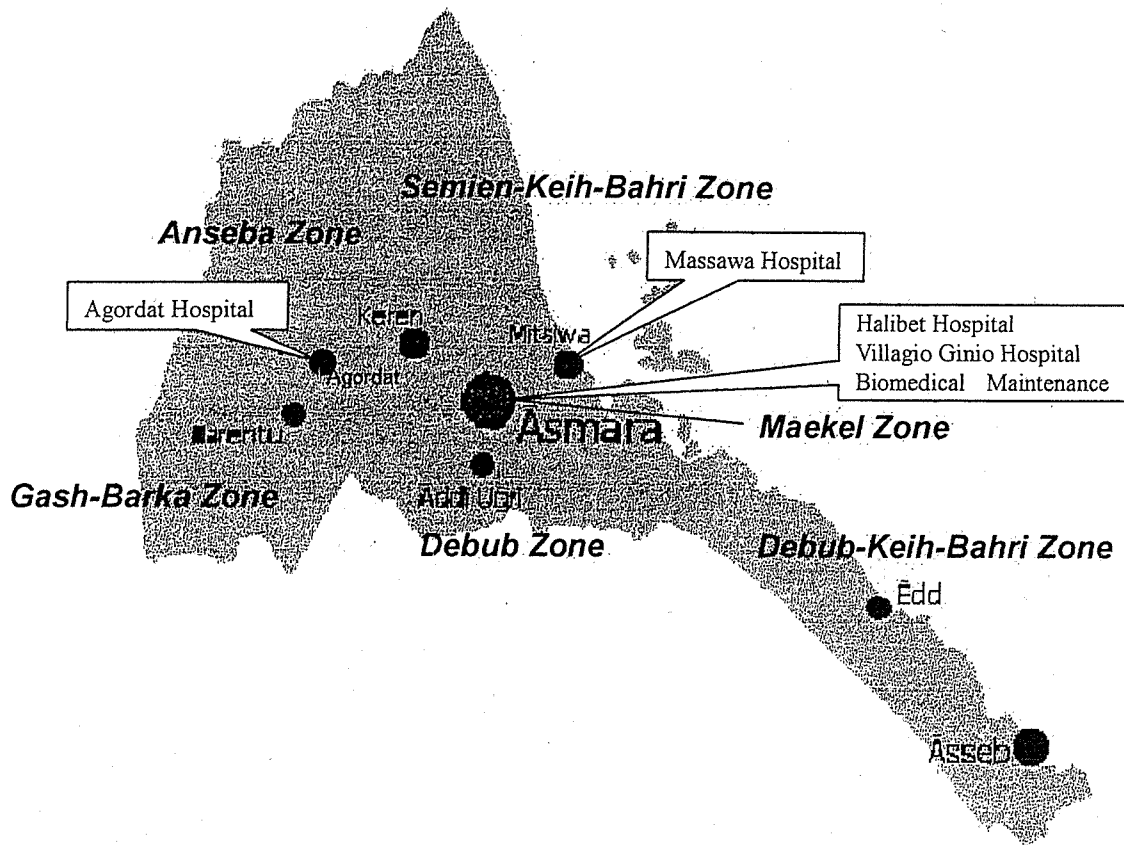
Annex-4: Japan's Grant Aid Scheme

Annex-5: Major Undertakings to be taken by Each Government

Annex-6: Criteria for Equipment Selection

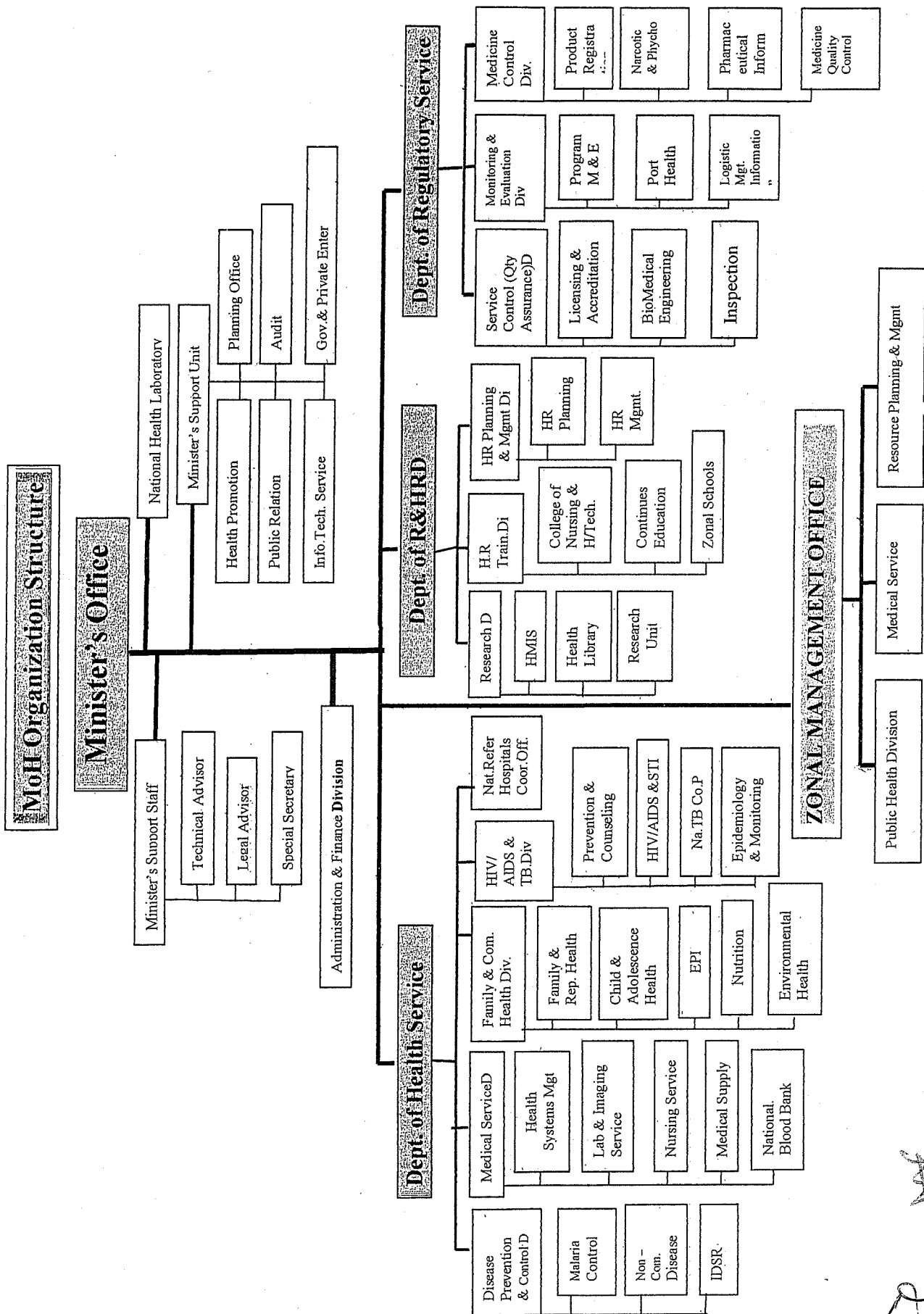
Annex-7: Letter from the Ministry of Health regarding Staff Allocation to the Villagio Ginio Hospital





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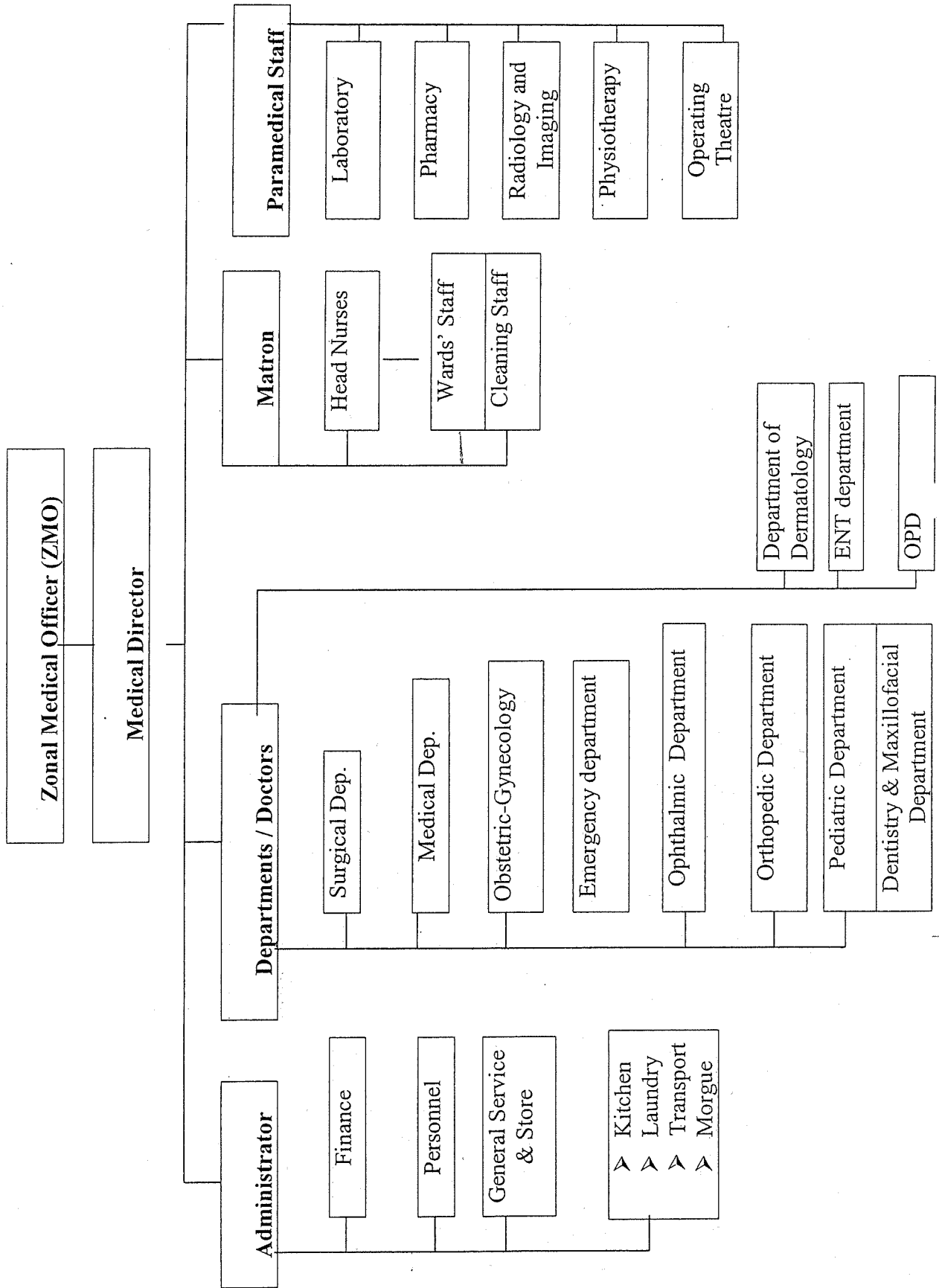
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Distribution of MOH's Health Facilities

Remarks: Bold-typed with a remark "•" indicate that these hospitals are involved in the project.

Type of Facility	Level	1. Debubawi Keih-Bahri	2. Semnawi Keih-Bahri	3. Anseba	4. Gash Baraka	5. Debub	6. Maakel	Total
Hospital	National Referral	-	-	-	-	-	Orotta medical Surgical Orotta Maternity Orotta Pediatric Berhan Aynee Ophthalmic St. Mary Psychiatry Hansenian	6
	Regional/Zonal Referral	Asseb	•Massawa	Keren	Barentu	Mendefera	• Halibet Haz-haz	7
	Sub- Regional/Zonal	Tio Mini	Ghinda Afabet Nakfa	-	• Aqurdet Tessenei	Adikeyh Adiquala Mini Dekemhare Mini Seafe Mini	Edaga Hamus Mini Godaif Mini • Villagio Community	13
Health Center	2 nd - 1 st	0	10	6	10	7	7	40
Health Station	1 st	10	23	17	43	35	23	151
Clinic	1 st	0	2	1	2	1	0	6

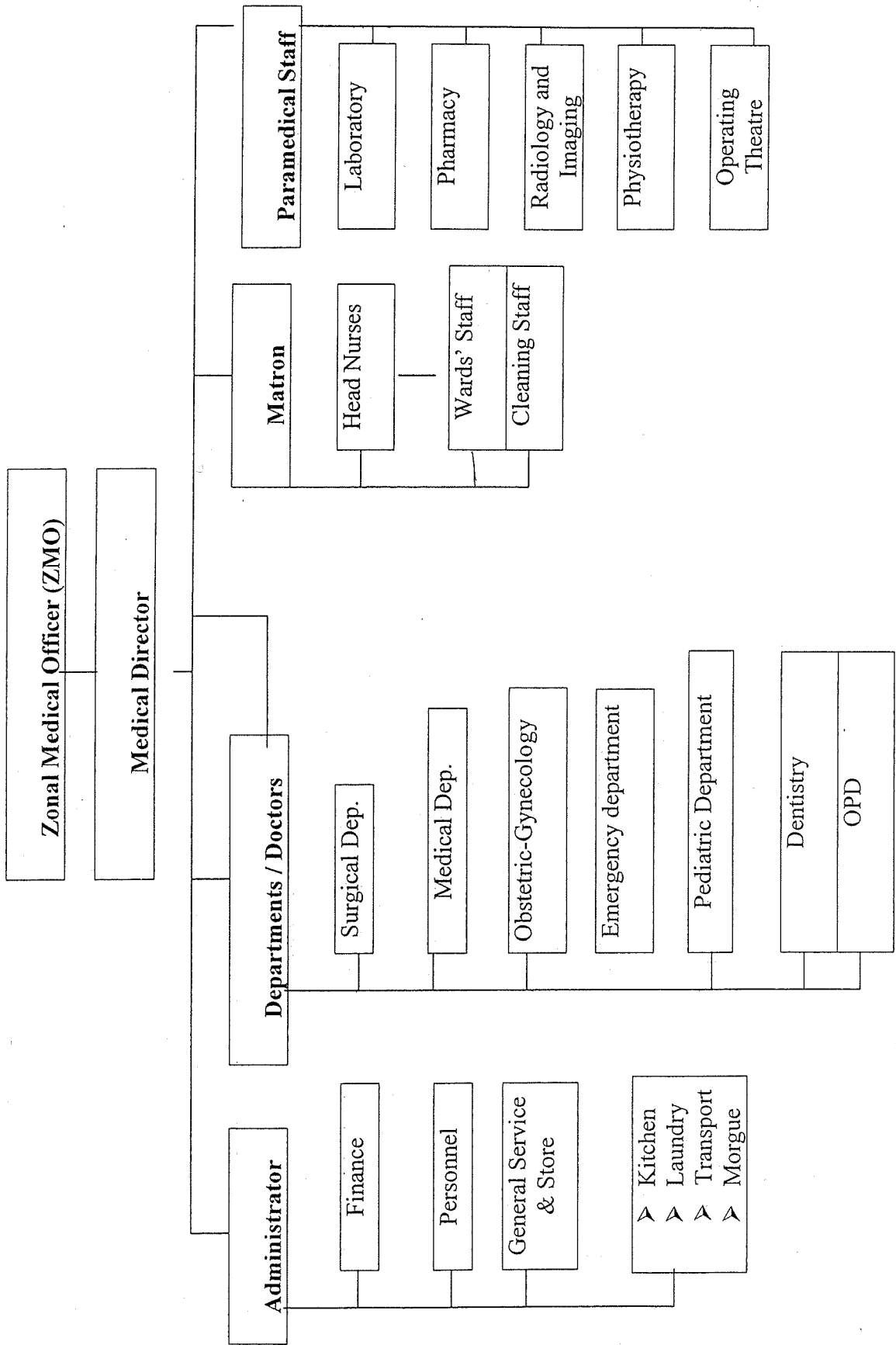
Organization Chart of the Hospital, Halibet



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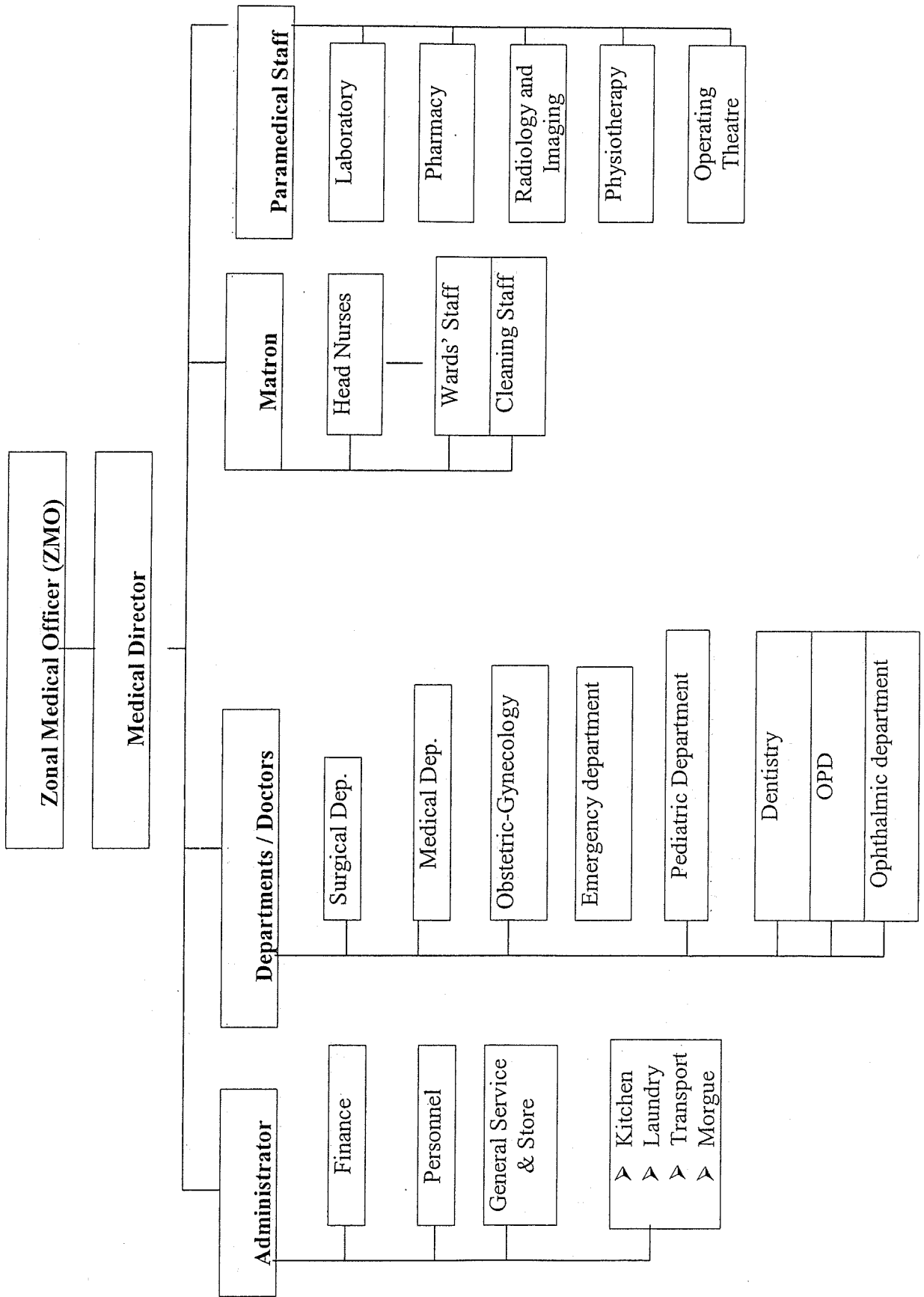
Organization Chart of the Hospital, Agordat



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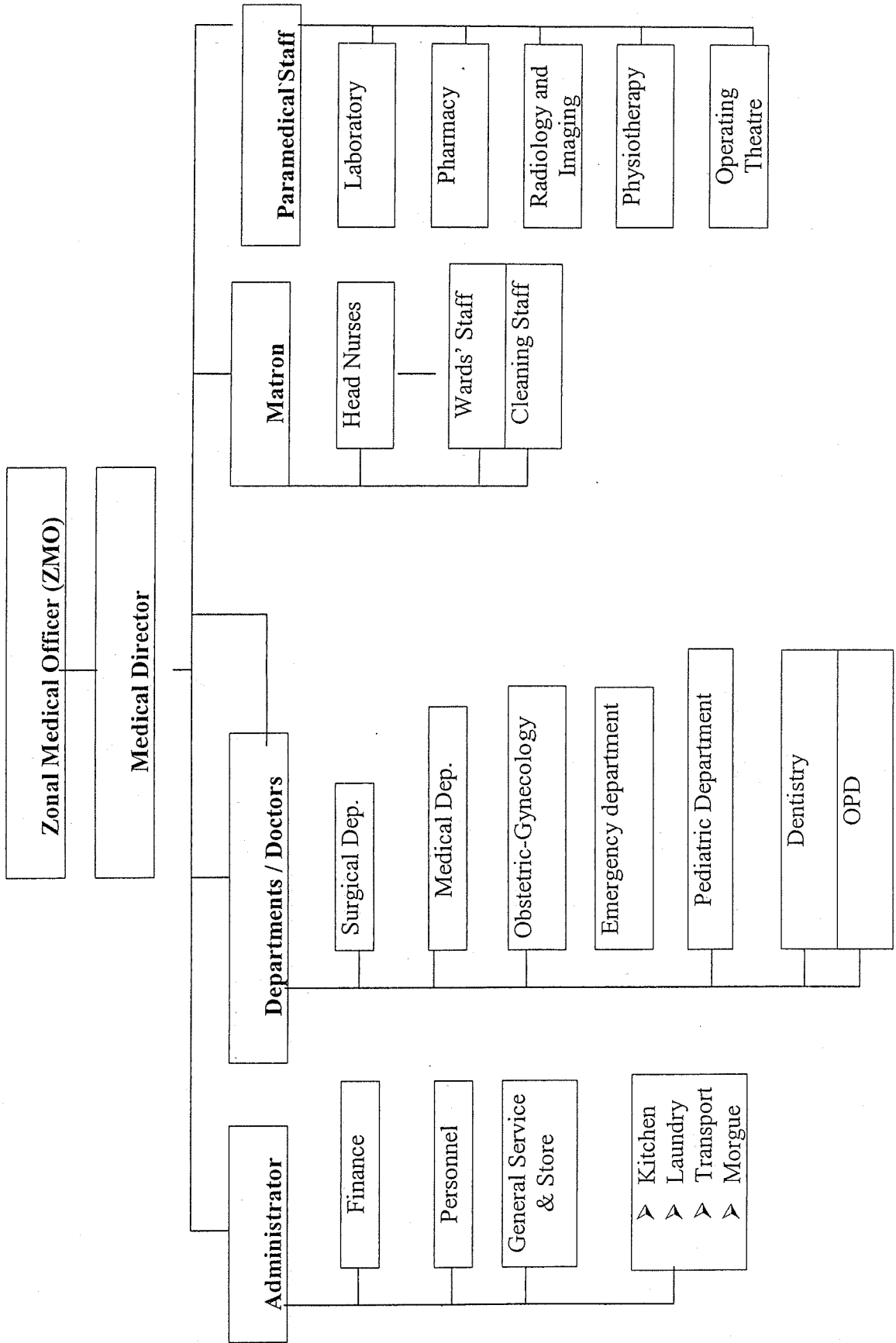
Organization Chart of the Hospital, Massawa



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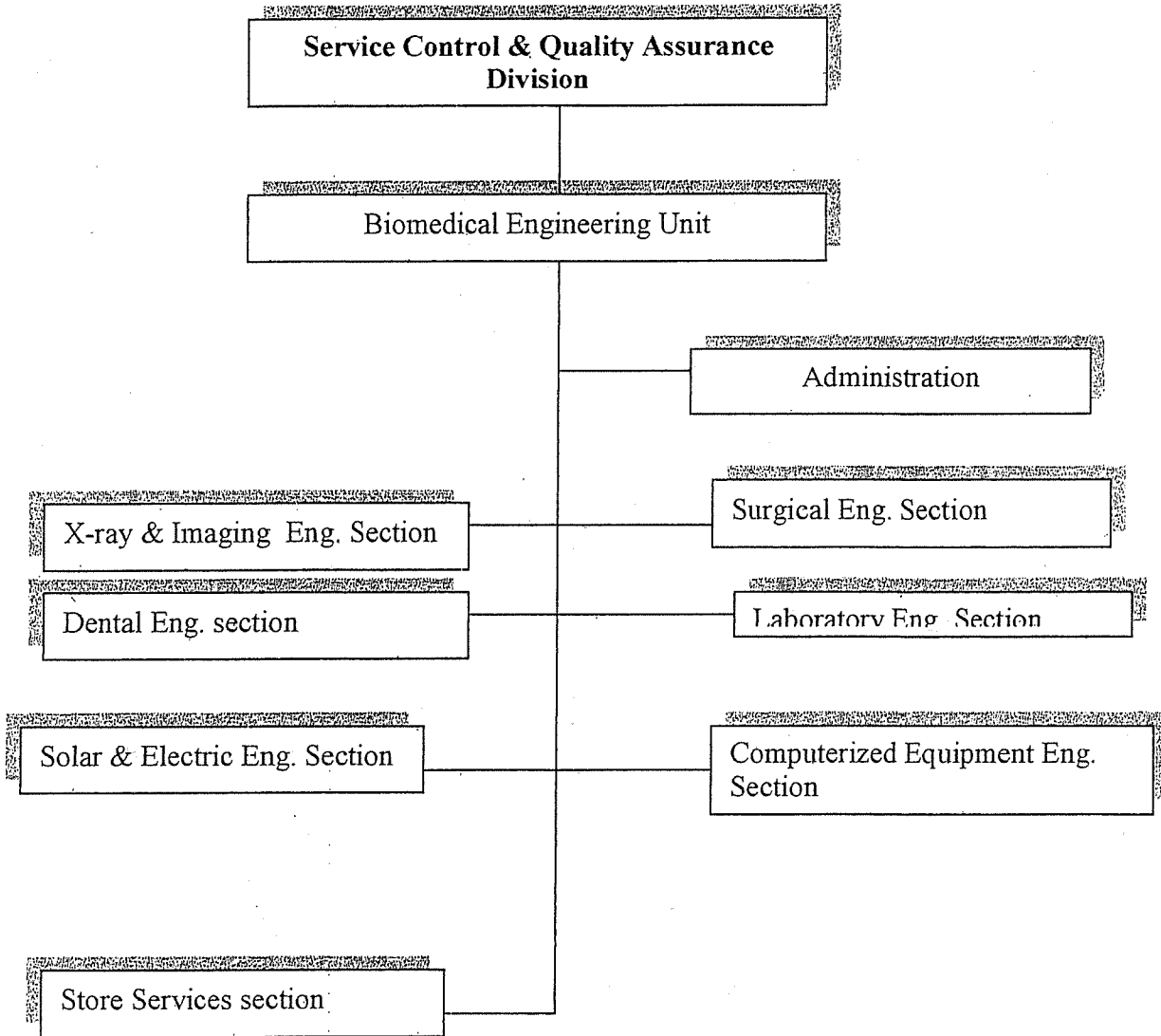
Organization Chart of the Hospital, Villagio



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Organizational Structure of Biomedical Engineering Unit



Item Requested by the Government of Eritrea

#	Descriptions	Quantity
	For Halibet Hospital	
	OPERATION THEATER	
1	Echocardiogram machine with CDFI function	5
2	ECG Machine	10
3	Defibrillator with ECG monitor	10
4	Monitor ECG + Oxymeter	2
5	Blood gas analyzer	10
6	Per fusers	5
7	Suction machine, electrical	5
8	Endoscopes	5
9	Colonoscope	5
10	Rectoscope	5
11	Sigmoidoscope	5
12	System unit for endoscopy/colonoscopy	2
13	Monitor (TV) for GI	5
14	Monitors (O.R.)	5
15	Anesthesia tables	5
16	Anesthesia machines	5
17	O.R. light mobile 220V	5
18	O.R. light fixed 3 headed 220 V	4
19	Cautery machine	10
20	Autoclave machines (steam /dry)	2
21	C-arm X-ray machine	2
22	Electrical drill for orthopedic purpose	5
23	Doppler machine	4
24	O.R. stretcher	4
25	Operation table adjustable with PVC cover	4
	IMAGING DIAGNOSIS AND RADIOLOGY	
26	Conventional X-ray machine Digitalized with automatic processor and printing	2
27	Ultrasound machine with different types of probes (cardiac, transvaginal, transrectal)	5
	LABORATORY	
28	Centrifuges	10
29	Drying oven	5
30	Distiller, capacity 10 liters per hour	2
31	Refrigerator	3
32	Microscope binocular	3
33	ELISA machine	2
34	Blood cell counter	5
35	Coulter counter	2
	ENT	
36	Microscope	2
	- Camera	2
	- Digital three -3-chip	2
	- Camera color system – PAL, NTSC with integrated image processing module	2
37	Telescopes	3
	- 0°	2
	- 90°	2
	- 45°	2
	- 70°	2
	- 30°	2
38	Headlight with mobile stand	2
39	Nasal and plastic instruments	2
40	Retinoscope	2

Item Requested by the Government of Eritrea

BURN		
41	Electrical dermatomes, masher	2
42	Monitors	2
43	Per fusers	4
44	Blood gas and electrolyte analysis	1
ORTHOPEDIC		
45	Orthopedic table	2
46	Electric saw	4
47	Crocodile shape for splitting cast	10
DENTAL		
48	Dental chair, fully equipped with drills and aspirator	4
49	Dental extraction forceps, 3 complete sets	10
50	Scalar machine	2
MISCELLANEOUS		
51	Laundry Machine hospital capacity heavy duty	2
52	Solar panel for cold chain and light source set	5
53	Stand by generator 150K VA	1

NB .: For all equipment that have sensitive and easily consumable parts need to have adequate spare parts for the initial stage.

Item Requested by the Government of Eritrea

#	Descriptions	Quantity
For Agordat Hospital		
OPERATION THEATER		
1	Table major operating with X-ray translucent top, hydraulic table with trendelenburg and lateral tilt, flexion, extension and rotation movements, with anti-static mattress set, body support, shoulder rest, lithotomy stirrups and straps, IV pole and accessories blocks/clamps	2
2	Light operating mobile 230V AC, with anti-static wheels	2
3	Stool operating surgeon's adjustable	2
4	Cupboard instrument, medium metal and glass	4
5	Trolley instrument with stainless steel shelves, medium size with anti-static castors	6
6	Cupboard metal for controlled drugs	2
7	Suction pump electrical with two spare bottles	2
8	ECG	2
9	Anesthesia machine, equipped with ventilator, Halothane vaporizer, connections to the patients (for both adults and children) and to centralized gas, air vacuum, compressor for gasses, 5kg of Sodamine container included, 240V, with working and technical manuals. All accessories for fully operating machine and with spare Oxygen sensors (with long expiry dates)	2
0	Laryngoscope set Mackintosh with 3 blades, spare bulb and battery	5
11	Regulator Oxygen and flowmeter bull nose fitting	5
12	Flowmeter Oxygen 0 – 2.5liters/minute	3
13	Nebulizer, one large and one small nebulizer bottle with fixing to screw into Oxygen fitting with the above flowmeter	3
14	Pump suction 2 bottles 600Hg, 230V AC, with two spare bottles and filter	2
15	Cautery unit portable 230V AC, heavy duty with set of burners	3
EMERGENCY DEPARTMENT		
16	Examination table	2
17	Sphygmomanometer set	4
18	Stethoscope	4
19	Wheeled stretcher	2
20	Wheel chair foldable	2
21	Instrument cabinet	2
22	Instrument carriage	2
23	Boiling sterilizer medium size electrical	5
24	Ophthalmoscope battery	2
25	Instrument table stainless steel	2
5	Irrigator stand with wheels	10
27	Electrocautery	2
28	Plaster bandage table	2
29	Gypsum cutter	2
30	Suction pump electrical	2
31	Ambu bag- resuscitator bag with accessories	2
32	Gypsum utensil set	2
33	Emergency Stretcher bed with wheels	2
34	Cardiac monitor with CVP catheters	2
35	Defibrillator with monitor	2
36	Cart emergency with wheels	2
37	Pulse oxymeter	5
38	Examination light mobile	2
39	Infusion pump, volumetric, twin channel 230V AC with internal rechargeable battery	3
40	Bowel stand single with stainless steel bowel and anti-static wheels	2
41	Defibrillator portable, physio-control 230V, and internal rechargeable battery Including external pedals ECG electrodes, QRS display, recorder and recorder paper	2
42	Cardiac monitor 230V AC, with digital heart rate display and alarms, and defibrillator and diathermy protection, with patient cable and 60 disposable electrodes	2
43	ECG 3-channel, non-interpretive 230V AC, table top model, with 10-lead patient cable,	2

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Item Requested by the Government of Eritrea

	electrodes, gel and spare chart rolls	
44	Lung function tester 230V AC, table top model chart type recorder, automatic carriage	2
45	Oxygen concentrator	5
	IMAGING DIAGNOSIS	
46	X-ray unit mobile complete with accessories and spare parts (of the most sensitive parts)/ fluoroscopic	2
47	Radiography viewing box / Negatoscope, 220V AC	2
48	X-ray film holder	50
49	Dark room equipment and supplies set	2
	LABORATORY	
50	Microscope binocular electrical 220V 50Hz with all accessories and spare parts	2
51	Coulter machine electrical 220V 50Hz with all accessories and spare parts	2
52	Centrifuge electrical, 220V 50Hz with accessories	2
53	Shaker, electrical 220V, 50Hz	2
54	Drying oven lab capacity, 220V, 50Hz	2
	GENERAL	
55	Screen for examination	3
56	Mayo table	3
57	Examination lamp mobile	2
58	Refrigerated electrical 200liters 220V	2
	PHYSIOTHERAPY EQUIPMENT	
59	Physiotherapy table mobile	2
60	Short wave therapy unit 230V AC, continuous type mobile model	2
61	Stimulator muscle 230V AC with galvanic and faradic output	2
62	Lamp infra-red 230V	2
63	Ultrasound therapy unit 230V AC	2
64	Interferential therapy unit 230V AC, with vacuum unit and treatment electrodes	2
65	Exercise matt, 125x200x1.5cm, shock absorbing closed cell foam	2
66	Universal fool pump	2
67	Traction table manumed fixed height 80cm	2
68	Traction frame for Enraf manumed couch adjustable height	2
69	Duplex pulley weight system for wall mounting, with 10 discs weights of abt. 1.1kg each, with two pairs of padded handles, one at chest height and the other at floor level. With complete accessories 100cm strap, 150cm strap, ankle strap, replacement handle, wrist straps, small, medium and large.	2
70	Electro-stimulator system 206 single channel, 4 wave forms AC, DC	2
71	Functional grip push up blockers pair for pre-crutch training height adjustable 17 – 23 cm	2
72	Parallel bars, length 3 meters adjustable height, 60 – 100cm, foldable	2
73	Clamp for fitting fixation straps onto manumed traction couch	2
74	Chest belt with quick fastener	2
75	Hip belt with quick fastener	2
76	Neck harness with spread bar padded for use with electric traction unit	2
77	Different weight sets	2
	GYNCOLOGY AND OBSTETRICS EQUIPMENT	
78	Delivery bed PVC covered, with wheels, leg supports and wash basin	2
79	Scanner, Ultra sound: linear concept ML with 3.5MHz linear array probe, mains lead, foot switch, 240V, for obstetric and abdominal scanning with operating technical manual	2
80	Light operating: light angle poise 240 on stand with anti-static castors; approximately reach 42" (107cm) adjustable to allow the lamp to be used at any angle. Complete with bulb 100 watt and additional 3 spare bulbs of 100 watt.	2
81	Anesthesia machine: Anesthesia machine, equipped with ventilator, Halothane vaporizer, connections to the patients (for both adults and children) and to centralized gas, air vacuum, compressor for gasses, 5kg of Sodalime container included, 240V, with working and technical manuals. All accessories for fully operating machine and with spare Oxygen sensors (with long expiry dates)	2
82	Oxygen flow meter	10

Item Requested by the Government of Eritrea

83	Operating radio-translucent top, 8cm radio-translucent mattress, trendelenburg and reverse trendelenburg, lateral tilt and break back movements, hydraulic foot operated height adjustment, 360 degree top rotation	5
84	Sterilizer 2000 pressurized steam, type 220V. For sterilizing instruments and autoclavable rubber and plastic materials. Complete 134 degrees C for 3-5 minutes, with drying cycle. Chamber size approx. 8 x 14 " (200mm diameter x 348mm length) with all spare parts	2
85	Vacuum extractor, complete with anterior suction cups 40, 50 and 60 mm. 1 Posterior suction cup 50mm, p/p bottom plates, 1 traction handle, original vacuum device, spare bottle and spare gasket. All suction cups fitted with nylon traction cords enabling operator to pull obliquely without causing cup to tilt.	2
86	Water bath unstirred 220-240V, 50Hz. Capacity 10liters, temperature 20-90 degrees C, with lid sloping, stainless steel for use over 60 degrees C.	5
87	Drying oven, gravity model features aluminum interior, compact size, double wall interior with 1" silica-based insulation, one fixed, two adjustable chrome-plate wire shelves, durable powder coated cold-rolled steel exterior, 240V/3 wire line cord. Bimetallic thermostat to control temperature from ambient + 5 degrees C to 210 degrees C, pilot light to indicate oven operation status.	2
88	Incubator infant 230V AC, general ward model, air temperature control model only with alarm and Oxygen inlet facility with mattress.	3
89	Infant radiation warmer mobile 230V AC, fixed out put radiant heater on mobile stand suitable for use over cot.	3
90	Pump suction 2 bottles 600Hg, 230V AC, with two spare bottles and filter	2
	DENTAL EQUIPMENT	
91	Amalgam mixer 230V AC	2
92	Dental X-ray unit 230V AC, mobile complete with accessories	2
93	Dental film holder	10
94	Operating light dental, mobile 230V AC complete with accessories and drill bits	2
95	Dental mastoid drill unit complete	2
96	Dental treatment chair, 230V AC with accessories and drill bits	2
97	Dental aspirator with spittoon, 230V AC with accessories	2
98	Autoclave/sterilizer dental medium 230V AC, internal dimensions of cylindrical drum: diameter 21cm, height: 28.5cm, Instrument holder provided. Fully automatic, electronic time and temperature control. Sterilizing temperature 126 degree C, sterilizing time: 11 minutes	2
	OPHTHALMIC EQUIPMENT	
99	Sight test panel	2
100	Slit lamp	2
101	Chair examination, eye	2
102	Trial lens adult (frame)	2
103	Trial lens child (frame)	2
104	Retinoscope electrical	2
105	Refractometer	2
106	Tonometer	2
107	Operating microscope, complete with accessories and spare parts	2
108	Pen light	2
109	Ophthalmoscope electrical	2
110	Ophthalmoscope battery	2
111	Small ophthalmoscope direct	2
112	Indirect ophthalmoscope	2
113	Ophthalmic examination lamp (medium)	2
114	Chart for near vision test Jager scale	2
115	Snellen's chart non electrical E-type	2
	MISCELLANEOUS	
116	Laundry machine hospital capacity with necessary spare parts	2
117	Solar panel for cold chain and light source, complete set	3

Item Requested by the Government of Eritrea

#	Descriptions	Quantity
For Massawa Hospital		
OPERATION THEATER		
1	O.R. light shadowless, 220V with pair spare lamps, mobile	3
2	Operating table	2
3	ECG machine	4
4	Defibrillator	4
5	Pulse oxymeter	4
6	Cardio tocograph	1
7	Oxygen concentrator	6
8	Suction pump electrical with two spare bottles	10
9	Suction curette	2
10	Vacuum extractor	2
11	Electro-cautery machine 220V	3
EMERGENCY DEPARTMENT		
12	Examining table	2
13	Wheeled stretcher	5
14	Wheel chair foldable	5
15	Instrument cabinet	2
16	Instrument carriage	2
17	Boiling sterilizer medium size electrical	5
18	Ophthalmoscope battery	2
19	Instrument table stainless steel	2
20	Irrigator stand with wheels	10
21	Electrocautery	2
22	Plaster bandage table	1
23	Gypsum cutter	2
24	Suction pump electrical	1
25	Ambu bag – resuscitator bag with accessories	2
26	Gypsum utensil set	2
27	Emergency stretcher bed with wheels	2
28	Cardiac monitor with CVP catheters	1
29	Defibrillator with monitor	1
30	Emergency cart	2
31	Pulse oxymeter	5
32	Examination light mobile	2
33	Infusion pump, volumetric, 230V AC	3
34	Bowel stand single with stainless steel bowel and anti-static wheels	1
35	Defibrillator portable, physio-control 230V AC, and internal rechargeable battery including external pedals ECG electrodes, QRS display, recorder and recorder paper	2
36	Cardiac monitor 230V AC, with digital heart rate display and alarms, and defibrillator and diathermy protection, with patient cable and 60 disposable electrodes	2
37	ECG 3-channel, non-interpretive 230V AC, table top model, with 10-lead patient cable, electrodes, gel and spare chart rolls	2
38	Lung function tester 230V AC, table top Vitalograph “S” model chart type recorder, automatic carriage	2
39	Oxygen concentrator	5
IMAGING DIAGNOSIS		
40	X-ray machine	2
41	X-ray machine, portable	2
42	Automatic Radiographic Processor	2
43	Ultrasound machine complete with monitor, printer, paper, and coupling gel	2
44	Doppler Ultrasound Fetal heart beat detector	2
45	Sigmoidoscope	1
LABORATORY		
46	Microscope binocular electrical 220V 50Hz with all accessories and spare parts	3

Item Requested by the Government of Eritrea

47	Coulter machine electrical 220V 50Hz with all accessories and spare parts	1
48	Centrifuge electrical 220V 50Hz with accessories	2
49	Shaker, electrical 220V 50Hz	2
50	Drying oven lab capacity, 220V 50Hz	2
OPHTHALMIC SECTION		
51	Operating microscope	2
52	Slit lamp	2
53	Chair examination, eye	2
54	Trial lens adult (frame)	2
55	Trial lens child (frame)	2
56	Retinoscope electrical	2
57	Refractometer	2
58	Applanation Tonometer	2
59	Keratometer	2
60	Lensmeter	2
61	Fundoscope	6
62	Ophthalmic loupe	3
63	Pen light	2
	Small slit microscope	2
65	Ophthalmoscope electrical	2
66	Ophthalmoscope battery	2
67	Small ophthalmoscope direct	2
68	Indirect ophthalmoscope	2
69	Ophthalmic examination lamp (medium)	2
70	Snellen's chart non electrical E-type	2
DENTAL UNIT		
71	Amalgam mixer 230V AC	2
72	Dental X-ray unit 230V AC, mobile complete with accessories	2
73	Dental film holder	2
74	Operating light dental, mobile 230V AC complete with accessories	2
75	Dental mastoid drill unit complete	2
76	Dental treatment chair, 230V AC with accessories and drill bits	2
77	Dental aspirator with spittoon, 230V AC with accessories	2
FIXED HOSPITAL EQUIPMENT AND MISCELLANEOUS SUPPLIES		
78	Back-up generator (150KVA)	1
79	Solar panel for cold chain and light source complete set	5
	Laundry machine heavy duty 380V	2
81	Incubator neonatal	2
82	Refrigerator 300liters	6
83	Autoclave/sterilizer dental medium 230V AC, internal dimensions of cylindrical drum: diameter 21cm, height: 28.5cm, Instrument holder provided. Fully automatic, electronic time and temperature control. Sterilizing temperature 126 degree C, sterilizing time: 11 minutes	2

Items Requested by the Government of Eritrea

For Villagio Ginio Hospital		
#	Descriptions	Quantity
GENERAL		
1	Screen for examination	10
2	Mayo table	10
3	Timer	10
4	Dry Oven	2
5	Examination lamp mobile	9
6	Examination table	5
OPERATION THEATRE		
7	Table major operating with X-ray translucent top with full accessory	2
8	Light operating, mobile with anti-static wheels	2
9	Stool operating	2
10	Cupboard instrument medium metal and glass	4
11	Instrument Trolley medium size	6
12	Cupboard metal for controlled drugs	2
ANESTHESIA & RESUSCITATION		
13	Anesthesia machine, equipped with full accessory	2
14	Laryngoscope set Mackintosh with 3 blades	5
15	Regulator Oxygen & flowmeter bull nose fitting	5
16	Flowmeter oxygen 0-2.5 liters/minute	3
17	Nebulizer for flowmeter	3
18	Pump suction 2 bottles 600 Hg	2
19	Cautery unit portable with burners	3
SURGICAL UNIT EQUIPMENT		
20	Measure abdominal set	10
21	Minor abdominal set	10
22	Bone set	10
23	Dry oven 220 V	2
MATERNITY UNIT		
24	Delivery table	2
25	Delivery set	15
26	Doppler	5
GYNECOLOGY AND OBSTETRICS		
27	Delivery bed PVC covered with accessory	2
28	Ultrasound Scanner: Linear Concept ML with 3.5 MHz linear array probe	2
29	Operating Light mobile	2
30	Anesthesia machine, with full accessory	2
31	Oxygen flow meter	5
32	Operating radio-translucent top, with accessory	5
33	Sterilizer 2000 pressurized steam, chamber size approx. 8 x 14"	1
34	Vacuum extractor Bird new generation model with accessory	5
35	Water bath unstirred	5
36	Dry oven, compact size	2
37	Infant Incubator with accessory	3
38	Infant radiant warmer mobile	3
39	Suction pump 2 bottles 600 Hg	1
RADIOLOGY		
40	Mobile X-ray unit with accessory	3
41	Radiography viewing box/ Negatoscope	5
42	X-ray film holder	50
43	Dark room equipment and supplies set	2
DENTAL CLINIC		
44	Amalgam mixer	2
45	Dental X-ray unit, mobile	2
46	Dental film holder	10

Items Requested by the Government of Eritrea

47	Operating light, dental mobile	2
48	Dental mastoid drill unit	2
49	Dental treatment chair complete	2
50	Dental aspirator with spittoon and compressor	2
51	Autoclave, dental diameter 21 cm	2
OPHTHALMOLOGY		
52	Sight test panel	2
53	Slit lamp	2
54	Examination chair	2
55	Trail lens frame adult	2
56	Trail lens frame child	2
57	Retinoscope electrical	2
58	Chart for near vision test Jager scale	2
59	Pen light	2
60	Small slit microscope	2
61	Ophthalmoscope electrical	2
62	Ophthalmoscope battery	2
63	Small ophthalmoscope direct	2
	Indirect ophthalmoscope	2
65	Ophthalmoscope examination lamp (medium)	2
66	Snellen's chart non electrical E-type	2
67	Refractometer	2
68	Tonometer	2
EMERGENCY OBSTETRIC CARE		
69	C-section set	10
70	Emergency Obstetric set	10
71	Resuscitator, for neonate with mask	4
72	Resuscitator for adult	2
73	Cervix and Vaginal Tears set	10
74	D & C Set	10
EMERGENCY ROOM		
75	Emergency unit set	2
76	Cardiology and Thoracic set	2
PHYSIOTHERAPY		
77	Short wave therapy unit	2
78	Muscular stimulator	2
	Lamp infra-red	2
80	Ultrasound therapy unit	2
81	Interferential therapy unit	2
82	Exercise matt, 125 x 200 x 1.5 cm	2
83	Universal foot pump	2
84	Traction table	2
85	Traction frame for Enraf manumed couch	2
86	Duplex pulley weight system for wall mounting	2
87	Electro-stimulator system 206	2
88	Functional grip push up blockers pair	2
89	Parallel bars, 3 m	2
90	Clamp for fitting fixation straps	2
91	Chest belt	2
92	Hip belt	2
93	Neck harness with spreader bar	2
94	Mobile physiotherapy table	2
LABORATORY		
95	Dry oven	2
96	Refrigerator 200 liters	2
97	Cell counter 3 part	2

Items Requested by the Government of Eritrea

98	Tally counter	3
99	Microscope, binocular	2
100	Blood chemistry analyzer, medium size	2
101	Centrifuge	2
102	Coulter counter	2
103	Shaker	2
	MISCELLANEOUS	
104	Linen carrier	4
105	Laundry machine	2
106	Backup generator, 150 KVA	1
107	Solar panel for cold chain and light source complete set	3

Biomedical Equipment engineering Service
And Training Center

Materials for training testing and calibrating means

For training

1- Function wave Generator (RS) catalogue TG1304 programmable 13MHz Generator with sweep AM/FM and GPIB Stock -No TG1304 S TC201-0138	2 pcs
- Documenting process calibrator (RS) Fluke 743 Stock No TC-242-1960	
- Battery eliminator (RS) TC 437-058 Spare battery pack TC 437-092	
- 700 Series carry case TC437-115 (RS)	
2- White board (pen board) big sizes	2 pcs
3- DVD Catalogue of Biomedical equipment.	-
4- Variable voltage source (transformer)	5 pcs
5- Electronic training kit for both analog and digital 10 of each	20 pcs
6- Technical training, troubleshooting, testing calibrating video Cassettes and booklets concerning various medical equipment Software books.	4 pcs
7- BP monitor calibrating means	4 pcs
8- TTL/CMOS logic pulser	10 pcs
9- Logic probes	4 pcs
10- Logic checkers	4 pcs
11- Digital multimeter Model 2030 RS 231-3651	30 pcs
12- Electronic components such as diodes for repairing and training	10 set
13- Resistors 1 ohms up to Mega Ω ¼ to 20w fixed & variable types	10 set
14- Inductors for training fixed and variables	10 set
15- Computer Pentium IV (latest) with UPS for training with necessary soft ware.	6 pcs
16- printer	3 pcs
17- Bread board with digital gate implanted with clock pulse	5 pcs
18- Analog board with 5v & 12v supply (D.C)	10 pcs
19- Seven (7) segment LED display FND 507 common anode	50 pcs
20- Hand-held Frequency counter SC130 RS 670-750	2 pcs
21- 1.3G Hz Frequency counter SC230 RS 674-437	2 pc
22- Sound level measurement Type D-1411E RS 252-0506	2 pc
23- Ph meter RS 610-540	2 pc
24- Hand held Digital Oscilloscope With memory RS 240-2969	8 pc
25- Hand held Power meter Oscilloscope With memory RS 238-9383	8 pc

26- Light Intensity measuring meter in LUX	2 pcs
27- Flow measuring meter (Digital)	2 pcs
28- Photocopier	2 pc
29- External ZIP DRIVE > 1GB	3 pcs
30- Flush disk > 2 GB	10 pcs
31- CR-RW 750 Mb	10 Pcs
32- DVD Player	2- Pcs
33- Aneroid barometer	2- Pcs

For testing and calibrating

1- X-ray KV meter	2 pcs
2- MAS meter (milliamp and seconds meter)	3 pcs
3- Ventilator calibrator with all facilities	2 pcs
4- Safety testing analyzer	2 pcs
5- Simulator for testing ECG	4 pcs
6- Simulator for testing Ultrasound Equipment.	4 pcs
7- 8085 Microprocessor Kit for micro processor programming	5 pcs
8- Analog to digital converter	10 pcs
9- Digital to analog converter	10 pcs
10- Op-Amp IC 741	20 pcs
11- Regulator 723	20 pcs
12- Small wires for use of bread boards	5 rolls
13- Gate ICs each	20 pcs each
7400, 7401, 7402, 7403, 7404, 7405, 7406, 7408, 7410, 7414, 7432, 7446, 7447, 7448, 7476, 7486, 74147, 74148, 74121, 74153, 74138, 74168, 555timer	
14- Defibrillator energy testing analyzer	2 pcs
15- Oxygen sensing monitor	6 pcs
16- Laser protective glass	2 pcs
17- Radiation detector X-ray	2 pcs
18- Radio therapy meter	2 pcs
19- IC remover various types of each	5 pcs
20- IC check instrument	2 pcs
21- Low ohm meters (0.001 Ohm & 200 Ohm)	5 pcs
22- Electrician's tool kit RS 604-775	6 pcs
23- Electronic service tool	20 pcs
24- PC service kit	8 pcs
25- Mechanic's tool kit RS 575-532	8 pcs
26- Mechanic's tool kit RS 604-781	4 pcs

For both repair and training materials

1- Pressure sensors	4 pcs
2- Pressure/vacuum gauges	4 pcs
3- Air powered hydraulic pump	5 pcs
4- Force indicator	2 pcs

5- Contact tachometer		2 pcs
6- Optical tachometer		2 pcs
7- Stethoscope for broken bearings and other detecting means		2 pcs
8- Set of different sizes of extension and compression spring kits		15 pcs
9- Set of fibre washer kits	RS 287-174	4 pcs
10- Foot pump		2 pcs
11- Fast/ Slow blow fuses kit		
a) General purpose mixed sizes	RS 420-252	40 sets
b) Anti Surge Kit set	RS 186-6362	10 sets
c) Mains/ Automotive Automotive	RS 186- 6340	8 sets
d) Mains	RS 186-6365	10 sets
12- Batteries	CR 2025	2 pcs
13- Vaseline grease for High voltage in x-ray unit		150 pcs
14- Micro tech Tool set	RS 162-2910	4 sets
15- Watchmakers Screwdriver	RS 205-5103	20 sets
16- L Shaped Torx drivers 7 long arm	RS 157-2089	10 sets
17- L Shaped Torx drivers 14 short arm	RS 157-1525	10 sets
18- Technician tool set	RS 663-550	10 sets
19- Maintenance tool set	RS 734-797	8 sets
20- Three stage hot air gun	RS 684-579	3 pcs
21- Service Engineers Vacuum cleaners	RS 662-333	10 pcs
22- Service Engineers Vacuum c. dust cartridge	RS 662-349	15 pcs
23- 66 pcs universal Torx set	RS 248-1990	10 pcs
24- Bench magnifiers with light	RS 614-312	10 pcs
25- 'O' Ring kit mixed sizes	RS 245-9628	4 sets
26- Permanent marker	RS 231-4547	40 pcs
27- Permanent marker	RS 231-4553	80 pcs
28- Pencils mechanical	RS 244-4733	10 pcs
29- Pencils mechanical 0.5 leads	RS 542-526	20 boxes
30- Z fold-up sets	RS 181-581	10 pcs
31- Tamper proof TROX Driver	RS 732- 741	10 pcs
32- Contact treatment	RS 494-720	50 pcs
33- High temp. grease	RS 251-3722	20 pcs
36- Silicone Grease	RS 494-124	200 pcs
37- Altimeter		4 pcs
38- Advanced Scientific calculator T1-68		4 pc
39- Magnetic screw driver kit long handle		6 sets
40- Soldering iron fine tips (220v)		10 Pcs
41- Precision screw driver sets		8 pcs
42- Forceps sets		15 pcs
43- Sleeve set		15 pcs
44- Heat gun		6 pcs
45- D.C power supply up to 60V 3A		4 pcs
46- Variable current sources up to 3A		4 pcs





Books

- 1- Dictionary of Medical Equipment 6 pcs
 Molcolm Brown , Paul Hammosed and Tony Johnson
 Chapman and Hall Medical
 The Institute of Medical and Dental Bioengineering
 Royal Liverpool Hospital
- 2- Latest Edition Anaesthetic Equipment Physical principles and 3 pcs
 Maintenance
 C.S. ward MB, BS, Fracs Consultant Anaesthetist
 The Royal Infirmary
 Muddersfield, England
 C 1985 Bailliere Trudace

Biomedical Reference Books

<u>Title</u>	<u>Author</u>	<u>Publisher</u>	<u>ISBN No</u>
3-Diagnostic Ultrasounds	Fredirick W. Kremkau	Salunders	0-7216-7143-8 8 pcs
4- Hand book of Biomedical Instrumentations	RS Khandpur	TATA McGrawhill	0-07-451725-2 8 pcs
5- Biomedical Engineering Systems	Cochrane	McGrawhill	N/A 10 pcs

Books from RS catalogue

- | | | |
|---|-------------|--------|
| 1- Servicing, reliability and fault finding | RS 915-586 | 6 pcs |
| 2- Interfacing the IBM PC to medical Equip. | RS 208-3287 | 6 pcs |
| 3- Servicing personal Computers | RS 157-4530 | 3 pcs |
| 4- Electronic Fault Diagnosis | RS 910-301 | 6 pcs |
| 5- Handbook of transducers | RS 911-720 | 10 pcs |
| 6- Microprocessor fundamental | RS 800-709 | 4 pcs |
| 7- LAN Testing and troubleshooting | RS 248-7386 | 4 pcs |
| 8- Introduction to medical Elec. | RS 227-4225 | 8 pcs |
| 9- Sensors and transducers | RS 915-514 | 8 pcs |
| 10- Radiation protection | RS 197-4839 | 4 pcs |
| 11- Bioaerosols | RS 210-8364 | 4 pcs |
| 12- Training video library | RS 232-4465 | 2 pc |
| 13- Basic practical electronics | RS 800-412 | 6 pc |
| 14- Basic practical electronics manual | RS 800-591 | 6 pc |





15-	Video manual/Supporting hardware	RS 800-901	6 pc
16-	Microprocessor fundamentals	RS 800-709	6 pc
17-	RS components book with all edition (Electrical& electronics)		1 pc

Tools and Instruments from the Sections in the MEU W/shop

Computer Repairing and maintaining Section

No	Items Description	Quantity In (Pieces)	Remark
	1- Tools		
1-2	Standardized PC tool kit	10	
1-3	Loopback connector (wrap plugs)	10	
1-4	Outlet tester	10	
1-5	Battery charger (of 5v,12v, 24v)	5	Variable Current
1-6	CRT tester	2	
1-7	High Voltage Probe	10	
1-8	RGB Video pattern generator	2	
1-9	TV- color bar Generator	2	
1-10	Hydrometer	10	
1-11	Temperature Probe	10	
1-12	Memory tester	5	
1-13	Vacuum Cleaner	6	Small
1-14	Logic Probes and Logic Pulses	10	
1-15	Oscilloscope	2	
1-16	Antistatic strap	20	
1-17	Small pen magnet	20	
	2- Spare parts (Hardware)		
2-1	Hard disk	50	Of different capacities
2-2	CPU (Processor)	50	
2-3	Memory	200	
2-4	External CD-ROM	10	
2-5	External Zip Drive	10	
2-6	VGA Card	50	
2-7	NIC Card (Network Interface Card)	50	
2-8	Serial cable adopters (9 - pin female to 25-pin male and 25-pin female to 9 -pin male)	10	
2-9	Parallel cable 25-pin female to centronics connector	10	
2-10	Heat sinks & cooling fans	30	For each one
2-11	Large and small cooling fans for power supply	50	
2-12	Parallel cable 25-pin female to 25-pin female connector	5	
2-13	Power supply splitter cable that add connectors for 5.25inch and 5.5 inch disk drives	20	
2-14	Ribbon cables for floppy, older fixed	100	

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	disk, IDE and SCSI controllers		
2-15	Plastic mounts for PC Motherboards	200	
	3- Softwares (S/w)		
3-1	Operating system (9x/Me, Nt/2000/XP	10	Two each
3-2	Office (Application program)	10	„
3-3	Antivirus and Antispyware	5	
3-4	Manufactures supplied diagnostic S/W	6	Different
3-5	Peripheral Diagnostic S/W	2	„
3-6	After Market Diagnostic S/W	2	
3-7	CD Burner (creator)	5	Different type
3-8	Ghost (S/W for cleaning & Magic Partition)	3	„
	4- Consumable Items		
4-1	Compact Disk (CD) - R	300	
4-2	Compact Disk (CD) - RW	200	
4-3	Diskettes (floppy) size 1.44 MB	500	
4-4	Diskettes of Zip drive	200	
4-5	Fuses (of 220v)	1000	Deferent rate
4-6	Fuses (of 120v)	200	„
4-7	Acid for lead acid batteries of UPS	20 Liters	
4-8	Alcohol	5 „	
4-9	Foam cleaner	10	
4-10	Contact cleaner	10	
4-11	Cable ties of different size	5000	

For Various Section

<u>No</u>	<u>Items Description</u>	<u>Quantity In (Pieces)</u>	<u>Remark</u>
1	MAS meter table top for common use	2	
2	MAS meter portable for individual use	3	
3	AVO meter of high accuracy range 20A V700-1000 MOhm	6	
4	Digital clamp AVO meter of high range	2	
5	Oscillograph Table top	2	
6	Oscilloscope for measuring exposure time	2	
14	Component replacement guide (ECG)		
17	Soldering Iron of heavy duty 250-300w	2	
18	„ „ of 40w	5	
19	„ „ of 60w	5	
20	„ „ of 100w	3	
21	Soldering gun of different range 40-200w	10	
22	Sucker	15	
23	Lead with flux of different size	50	
24	Contact cleaner dry of with oil	30	
25	Insulating tape of good quality	50	
26	Different types of adhesive glue	50	

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<u>No</u>	<u>Items Description</u>	<u>Quantity In (Pieces)</u>	<u>Remark</u>
7	Gas leak detector for anaesthesia M.	2	
8	Socket wrench (Set) end	10	
	2- Consumable		
1	Glue	3	

For Wood Work

<u>No</u>	<u>Items Description</u>	<u>Quantity In (Pieces)</u>	<u>Remark</u>
	1- Tools		
1	Electric hand drill	2	
2	Glass cutter	4	
3	Wood files set	2	
4	Chisels Set	4	
5	Wood saw	2	
6	Planner	2	

For Plumber

<u>No</u>	<u>Items Description</u>	<u>Quantity In (Pieces)</u>	<u>Remark</u>
	1- Tools		
1	Tube wrench of different size 24,18,14	2 of each	
2	Thread cutter 1/2 x 2	1	
3	Mason chisel	2	
4	Iron Chisels	2	
5	Hack saw	2	
6	Teflon	50	
7	Set of Iron files	6 sets	

- 15 Halogen bulbs of different types and sizes 200 pcs
- 18 Micro switches of different sizes types 200 pcs
- 21 Weight set 0-12Kg 1 set
- 27 Neon lamps 20 pcs
- 28 Neon lamp holders 5 pcs

For Photo copier Olympia

- 1 Transfer corona 2 pcs
- 2 Drum 2 pcs
- 3 Heater lamp 2 pcs
- 4 Scanner lamp 2 pcs
- 5 Upper heater roller 2 pcs

6	Lower heater roller	2 pcs
7	Cleaning unit	2 pcs
8	Toner	8 pcs
9	Cleaning blade	5 pcs

Printer HP 2100

1	Cartridge	5 pcs
2	Upper heater roller	1 pc
3	Lower heater roller	1 pc
4	Transfer Roller	1 pc

For Mobile Workshop ER.G 03516

1	Tiers No 750-16	1 set
2	Battery 70A	1 pc
3	Fuel filter	3 pcs
4	Oil filter	4 pcs
5	Gear box oil No 90	10 pcs
6	Break oil	4 litters
7	Lens (lamp cover) of front	2 pcs
8	Lens (lamp cover) of rear	2 pcs
9	Fuses	12 pcs
10	Grease	5 Kg
11	Shock absorber	4 pcs
12	Ferdo (for break) front	6 set
13	Ferdo (for break) rear	4 set
14	Pulling cable 7meter	1 pc
16	Siren (for sound)	1 pc
17	Fun belt	6 pcs

JAPAN'S GRANT AID SCHEME

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

1. Grant Aid Procedure

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

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

2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request. If necessary, JICA send a Preliminary Study Team to the recipient country to confirm the contents of the request.

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

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

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

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

2. Basic Design Study

1) Contents of the Study

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

- a) confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation;
- b) evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from the technical, social and economic points of view;
- c) confirmation of items agreed on by both parties concerning the basic concept of the Project;
- d) preparation of a basic design of the Project; and
- e) estimation of costs of the Project.

- 5) Undertakings required to the Government of the recipient country
 - a) to secure a lot of land necessary for the construction of the Project and to clear the site;
 - b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities outside the site;
 - c) to ensure prompt unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the products purchased under the Grant Aid;
 - d) to exempt Japanese nationals from customs duties, internal taxes and fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
 - e) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work;
 - f) to ensure that the facilities constructed and products purchased under the Grant Aid be maintained and used properly and effectively for the Project; and
 - g) to bear all the expenses, other than those covered by the Grant Aid, necessary for the Project.
- 6) "Proper Use"

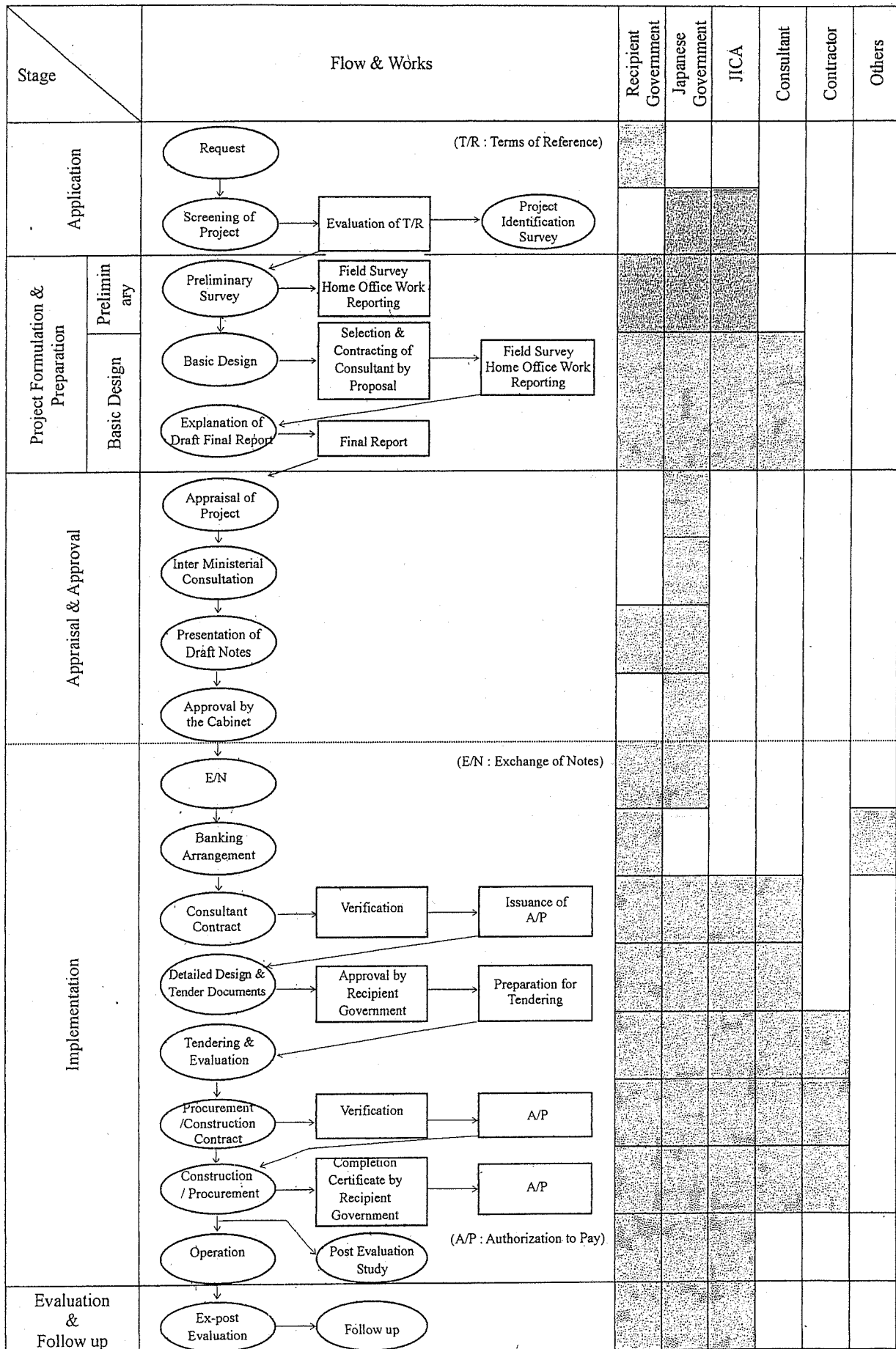
The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered by the Grant Aid.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

The products purchased under the Grant Aid shall not be re-exported from the recipient country.
- 8) Banking Arrangement (B/A)
 - a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.
 - b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of recipient country or its designated authority.
- 9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commission to the Bank.



FLOW CHART OF JAPAN'S GRANT AID PROCEDURES



Handwritten signature and initials

Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	To bear the following commissions to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
2	To ensure unloading and customs clearance at port of disembarkation in recipient country		
	1) Marine (Air) transportation of the products from Japan the recipient	●	
	2) Tax exemption and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
3	To accord Japanese nationals, whose service may be required in connection with the supply of the products and the services under the verified contract, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
4	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts		●
5	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid		●
6	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for the transportation and installation of the equipment		●


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Criteria for Equipment Selection

A. High priority will be given to the following equipment:

- ① Equipment required for providing fundamental health services, namely equipment to be used for Surgical Operation, Emergency Treatment, Diagnostic Imaging, and Laboratory. 1st priority will be given to equipment related to Surgical Operation and Emergency Treatment. 2nd priority will be given to equipment related to Diagnostic Imaging and Laboratory.
- ② Equipment which is old and/or deteriorated and need to be replaced
- ③ Equipment that is lacking distinctly in its quantity
- ④ Equipment that is easy to operate and maintain
- ⑤ Equipment that is highly beneficial to the hospital and the community

B. Low priority will be given to the following equipment:

- ① Equipment which require large expenses for running and maintenance
- ② Equipment which require high technical level for its operation
- ③ Equipment not adequate to procure due to inappropriate infrastructure and utilities such as electricity and water
- ④ Equipment which spare parts and consumables are difficult to procure in Eritrea
- ⑤ Equipment that is relatively inexpensive and can be procured by the Eritrean side
- ⑥ Equipment that need fixed installation and cannot be relocated
- ⑦ Equipment which is hazardous to the environment
- ⑧ Equipment which has limited benefit to the hospital and the community
- ⑨ Equipment that is for personal usage by hospital staff





The State of Eritrea
MINISTRY OF HEALTH

Date: 07-08-2006

Ref. No.: AS.2005135106.

Application for Japan Government's Grant Aid
Applicant: Government of the State of Eritrea
Project Title: Upgrading Regional Hospitals Medical Equipment
Sector: Health Sector
Project Type: Procurement and Supply of Medical Equipment

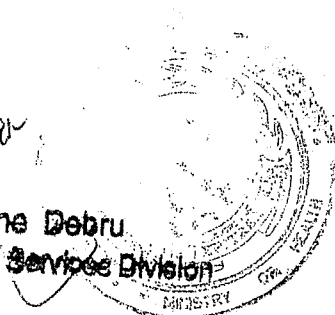
Subject: Villaggio Community Hospital

The Division of Medical Services in the ministry of health reaffirms its commitment and assurances in staffing the above mentioned hospital based on the requested number and categories of medical personnel and administrative staff by the Zonal Medical Office of Maekel Zone and above which satisfies the standard norm of a community or district hospital in the process of equipping the hospital with the required and necessary medical equipments.

Sincerely,

Dr. Berhane Debru

Director of Medical Services Division



Personnel Required for Villagio Ginio Hospital

Type of Personnel	Needed Staff
GMPs	4 One medical director
Matron	1
Head nurses	5
Staff nurses	21
Health assistance	38
Lab. technicians	6
Pharmacy tech.	5
Dental technician	3
X-Ray tech.	2
Administration staff	
Administrator	1
Personnel	1
finance officer	1
Accountant	1
purchaser	1
General Service	4 One electrician
Plumber	1
Cash collectors	6
Statistical clerk	1
Card men	6
Typist (computer specialist)	1
Operators	4
Cleaner	50
Guards	8
Laundry women + ironing	10
Drivers	4
Kitchen	12
Gardener	2
Tailor	1