

**REHABILITATION EQUIPMENT**

Equipment :  
Electric submersible darning sewage pump water cooled motor

Code	Capacity M3/MIN	Head M	Speed R.P.M	Power KW	Volt V	Qty.
02-06-00001	0.15-0.1	0.365015-0.4	3000	1.5	220 or 380V 50 HZ	300
02-06-00002	1	10	3000	3.7	220 or 380V 50 HZ	300
02-06-00003	0.5	15	3000	3.7	220 or 380V 50 HZ	300
02-06-00004	1	22	3000	7.5	220 or 380V 50 HZ	300
02-06-00005	<b>Equipment: Package unit</b> complet witch supply cold air directly by duct to the building. cap: 20 ton inside temp : 18 C 380 v. , 3 pH , 50HZ , gas R22					3000
02-06-00006	<b>Equipment: Air Cooled Chiller</b> Cap : 100 Ton Ambient Temp. 60C Water out let Temp 12 C Water in let temp 6 C Compress type semi hermetic Coil materiel : Copper tubes with element fins Fan type : Propeller Evaporator : Sheila and tubs GSA use R-12 or R-22 380 V 50 HZ					300
02-06-00007	<b>Equipment: Air Cooled Chiller</b> Cap : 200 Ton Ambient Temp. 60C Water out let Temp 12 C Water in let temp 6 C Compress type semi hermetic Coil materiel : Copper tubes with element fins Fan type : Propeller Evaporator : Shell and tubs GSA use R-22 or R12 380 V 50 HZ					300
02-06-00008	<b>Equipment: Window type air-condition with heater</b> Cap : 2 Ton 24000 BTU GSA R-22 220 V 50 HZ , 3PH					25000
02-06-00009	<b>Equipment Split Unit with heater</b> Cap : 2 Ton GSA R-22 220 V 50 HZ , 24000 BTU					10000
<b>TIRES</b>						
02-06-00010	600x14	High Quality				4000
02-06-00011	650x14	High Quality				5000
02-06-00012	700x15	High Quality				6000
02-06-00013	750x16	High Quality				5000
02-06-00014	205x16	High Quality				6000
02-06-00015	650x16	High Quality				2000
02-06-00016	1200x20	High Quality				4000
02-06-00017	1100x20	High Quality				4000
02-06-00018	1200x24	High Quality				1200
02-06-00019	1000x20	High Quality				800
<b>Acid batteries</b>						
02-06-00020	45Amp x12V	High Quality				150
02-06-00021	60x12	High Quality				1800
02-06-00022	75x12	High Quality				300
02-06-00023	90x12	High Quality				800
02-06-00024	110x12	High Quality				300
02-06-00025	130x12	High Quality				1000
02-06-00026	180x12	High Quality				800
02-06-00027	<b>Equipment : Blood bank refrigerator</b> 1- internal temp. ranging from +2 C to +8 C at the following ambient conditions : Summer : DBT 50 C WBT25C Winter : DBT 1 C WBT_3 C 2- Double compressor units for additional safety work with ferine R 12 or R 22 3-inside and outside materil: stinless steel 4-audible/ visual and extenai alarms with battery Low alarm: 0 C High alarm: + 10C 5 – Automatic defrosting 6- 7Day recorder 7- 220V, 50HZ, 3PH Training for 2 engineer two weeks Spare parts for 5 years					1000
02-06-00028	<b>Equipment : air compressor</b> Air compressor complete (compressor + motor) with out tank will be suitable to be initialed in the tank of the old model with this information . Air compressor : Type LE7 ATLAS COPCO					100

	<p>S.N : AML 107283  Max working pre bar (2)(10)  Max speed R.P.M 1800 , made in sweeden 1983  Motor:  Type LS 112MI  No: 618627, 4KW, 1430 R.P.M  (220 V , 15.2A / 380 V,8.8A) , 50 HZ  training for engineers  spar part for 3 year  complete catalog for maintenance operation and installation</p>	
02-06-00029	<p><b>Equipment:- cooling tower</b>  Capacity :150 ton  200 ton  100 ton  50 ton  Water temp. 38/ 30 Cú  Complete cooling tower must be separate motor for each blower and will work in high  Humidity wetter 60 % Humidity and total hardness is for water 500ppm  Recommended spare for 5 years.  Include complete motor  Fin , belt,shaft, spray nozzle , bearing , blower ,  Nozzle , motor complete, ball float valve  Training for engineer and tech.  Complete catalog for spare part and operation maintenance catalog</p>	<p>50  50  50  50</p>
02-06-00030	<p><b>Equipment: Corps refrigerator</b>  Walk in freezers to preserve corpses at internal temperature ranging from (+5 deg.) to (-30 deg.)At the following ambient conditions: summer: DBT 50 Deg.  WBT 25 deg.C  Winter: DBT 1 deg.C  WBT -3 deg.C  Internal volume of the store: 3x4x3 M3  Required quantity: freezing stores  A) Construction :</p> <ol style="list-style-type: none"> <li>1- Freezers shall be shipped in knock- down sections easy to re-erect</li> <li>2- Cabinet interior shall be made of heavy corrosion proof aluminum, floor made of heavy gauge anti- slip aluminum</li> <li>3- Cabinet exterior shall be made of aluminum, coated with a white weather proof coating to make it suitable for out- door installation</li> <li>4- Insulation shall be sufficient to maintain the specified internal temperature in the specified ambient conditions but shall be not less than 12 cm of polyurethane</li> <li>5- Door shall be constructed of aluminum and shall have an external lock with keys. Door handle can be operated from inside and outside. Low voltage heater wire strip with electrical control shall be provided. A push- button shall be fitted inside to soun</li> <li>6- Light- weight shade to protect the cabinet from rain and sun to be fitted on top of it .shape , size and material of shade shall be suggested by the tenterer</li> <li>7- External dial thermometer must be provided</li> <li>8- Audio and visual alarm for high temperature must be fitted</li> <li>9- Sufficient internal lighting automatically switches on when door opens</li> <li>10- Air curtain by the door operates automatically when door opens</li> </ol> <p>11- The stores shall be equipped with hangers that supports six removable trays which carry the human corpses, these trays shall be positioned on both sides of the stores three at each side . the under must tray shall be positioned within 15 cm from the f</p> <p><b>B) REFRIGERATION SYSTEM</b>  Two independent refrigeration systems shall be installed, each being capable to maintain the required internal temperature at the specified ambient conditions</p> <p>An automatic alternator clock timer shall be furnished to automatically reverse the sequence of operation of the two systems to assure even wear. And if one system be unable for any reason to maintain the required temperature the second system shall autom</p> <p>The entire system shall utilize heavy-duty refrigeration copper tubing, no aluminum or steel tubing to be used. Evaporator fins shall be anticorrosion type. Automatic electrical defrosts with pipes for drain water must be provided.</p> <p><b>C). ELECTRICAL SYSTEM</b>  System shall operate from single - phase, 220V, 50 HZ supply or from three- phase, 4 wire, 380V.</p> <p><b>D). SPARE PARTS</b></p>	<p>500</p>

	<p>An itemized and priced spare parts list sufficient for five years repair and maintenance of the equipment shall be submitted with the offer. The price shall be C &amp; F Baghdad and the spares shall be shipped with the cold stores. Among other things, the list</p> <p>No. Description</p> <ol style="list-style-type: none"> <li>1- compressor</li> <li>2- Evaporator motor fan</li> <li>3- Blades for evaporator</li> <li>4- condenser motor fan</li> <li>5- Blades for condenser fan</li> <li>6- Thermometer</li> <li>7- Thermostat &amp; alarm thermostat</li> <li>8- High-low pressure cut out</li> <li>9- Oil pressure cut out</li> <li>10- Door gasket with heater</li> <li>11- Contactor for compressor</li> <li>12- Relays &amp; electrical switches &amp; klaxon</li> <li>13- Defrost heaters</li> <li>14- Automatic electric defrost</li> <li>15- Automatic alternator for reverse sequence</li> <li>16- Internal light bulb</li> <li>17- over load</li> <li>18- Expansion valve</li> <li>19- filter drier</li> <li>20- Fuses of different writings</li> <li>21- solenoid valve</li> <li>22- alarm horn</li> <li>23- micro switch &amp; spare for air curtain</li> <li>24- operating switches</li> </ol> <p>E). TESTING AND GUARANTEE</p> <p>Tendered shall guarantee and maintain the freezers for a period of two years starting from the date of putting them in operation. All equipment shall be tested and outstanding technical problems shall be discussed &amp; settled in the firm prior to the shipment</p> <p>F). TRAINING</p> <p>Tendered shall train two persons on the repair &amp; maintenance of the equipment, each person for a period of one month in his firm tendered shall bear all costs including return air tickets full board &amp; lodging and any other expenses.</p> <p>G). INSTALLATION</p> <p>Tendered shall make complete installation of all freezers except civil works such as base. Tendered shall supply all materials necessary for the complete installation. Any offer not including complete installation will be rejected.</p> <p><b>**NOTE**</b></p> <p>Load calculations &amp; photos of freezing stores shall be sent with the offer</p>	
02-06-00031	<p><b>Equipment : TRANSFORMER</b> 220 V - 97 V</p>	2
02-06-00032	<p><b>Equipment : Vegetable and fruit cold stor</b> Cold store for the purpose Noose walk in cold stores temperature ranging from (-5 c) to (+15 c) at the following ambient conditions : summer : DBT 50 C           WBT 25 C winter : DBT 1C           WBT -3 C Internal volume : not less than 50 cubic meters A) construction : 1- cold stores shall be shipped in knock – down sections to re-erect 2- cabinet interior shall be made of heavy corrosion proof aluminum, floor made of heavy gauge anti – slip aluminum 3- cabinet exterior shall be made of aluminum , coated with a white weather proof coating to make it suitable for out-door installation 4- Insulation shall be sufficient to maintain the specified internal temperature in the specified ambient condition but shall be not less than 10 cm of polyurethane 5- Door shall be constructed of aluminum &amp; shall have an external lock with keys. Door handle can be operated from inside &amp; outside. Low voltage heater wire strip with electrical control shall be provided. Apish-button shall be fitted inside to sound an alarm 6- light- weight shade to protect the cabinet from rain &amp; sun to be fitted on top of it. Shape size &amp; material of shade shall be suggested by the tendered 7- external dial thermometer must be provided 8- Audio &amp; visual alarm for high temperature must be fitted 9- Sufficient internal lighting automatically switches on when door opens</p>	1000



	<p>Net work card : 10/100 Mb/S ethernet  Fax modem card : 56 (V. 90) fax /modem  Case : mini tower (ATX 250 w)  Key board : A/E 104 KEYS (PS/2 CONN)  Mouse : 2 buttons ( PS/2 CONN.)  Zip drive : iomega internal 100Mb with 100 box containing 100 Mb discettes  CD-RW: CD- writer 2X2X6X with 100 box containing blank CDs  Super disk: internal 120 MB imation atapi IDE inter face with(100)boxes of diskettes  UPS :400VA/250W  Printers :  - DOT matrix : EPSON LQ 2170 arabic  - LaserJet : HP- 6L  - Inkjet (cooler) : HP-DESKJET 1120C</p>	
02-06-00034	<p><b>Equipment : Softeners</b>  Fully automatic softener and meter control  - Control panel ,Brine tank, with its interconnecting pipe system and all its additional accessories suitable for continuous soft water supply as following:  - Max floweret :- 10 m3/h  - Resin:- strong cationic resin sodium base  - Power supply :- 220V or 380V 50 HZ  - Hardness treated water 0oFTH  - Presume drop :- 8 MWG  - Operating pressure :- 2 to 6 bar  - Recommended spare part for 5 year with complete quantity of exchange resin.  supply complete catalog and drawing electric mechanical spare part and mounenance operation catalog.  - Training for 2 Engineers +2 Technician</p>	200
02-06-00035	<p><b>Equipment : Softeners</b>  Fully automatic softener and meter control  - Control panel ,Brine tank, with its interconnecting pipe system and all its additional accessories suitable for continuous soft water supply as following:  - Max flow :-5M3/h  - Resin:- strong cationic resin sodium base  - Power supply :- 220V or 380V 50 HZ  - Hardness treated water 0oFTH  - Presume drop :- 8 MWG  - Operating pressure :- 2 to 6 bar  - Recommended spare part for 5 year with complete quantity of exchange resin.  - Recommended spare part for 5 year with complete quantity of exchange resin.  supply complete catalog and drawing electric mechanical spare part and mounenance operation catalog.  - Training for 2 Engineers +2 Technician</p>	200
02-06-00036	<p><b>Equipment : hospital lift complete</b>  QTY As below  Site:-saddam Medical city general hospital  1- hospital standard 24- Passengers Plain bed, side open door 21 floor Stainless steal doors with all parts need to replace existed lifts (erection and operating) for medical city 2PCS  2- As above but bed lift 4-Floor for Saddam General Hospital 2PCS  3- As above but 6- Passengers 4- Floor for Saddam General Hospital 4PCS  4- As above but 6- Passengers 7- Floor center open for Central Child Hospital 6PCS  5- As above but bed lift 7- Floor for Central Child Hospital 4PCS  6- Cargo lift 2 floors load 4000Kg side opening dons for Basra drug stores 2PCS  7- As above but 1400 Kg 7-Floor for Saddam Teaching Hospital in Basra 4PCS  8- As above bedlift but 1800 Kg 2- Floor for Tahreer Hospital and Basrah Funeral Hospital. 10PCS</p>	
02-06-00037	<p><b>Fork Lift (2Ton)</b>  1.DIESEL ENGIN 4 CYLINDER WATER COOLED  2.BATTERY 12V  3.NORMAL HYDROLIC GEAR  4.MAX HIGHT 3.5M</p>	500
02-06-00038	<p><b>Absorption chiller</b>  550 TON</p>	100
02-06-00039	<p><b>High tension switch gear</b>  1-aircircuit breaker 1600A AH-16B 50  2-aircircuit breaker 1600A AH-30C 50  3-batery 100V QSC-SOE  4-batery 24V AMH-SOE  5-printed circuit breaker AED-6A  6-printed circuit breaker D2-100  7-high VGE oil labricant 11KV</p>	10000LT
02-06-00040	<p><b>Paging system</b>  1-Complot paging system compressing control station and 5 W transmitter maximum rang less than 1000 m and 100 radio receiver</p>	250

	<p>2-the system should be either independent or interfacing with any type of exchange</p> <p>3-installation on site for 6-system and training technicians of other sites during installation to install the other system</p> <p>4-training on factory for 5 engineers for 2 weeks</p> <p>5-complot sets of manuals installation and manta enamel</p> <p>6-spare parts for 2 years</p> <p>7- greenery for one year and one maintenance</p>	
02-06-00041	<p><b>Equipment: Freezers</b>  Volume : 16 ft3  Temperature: from 00C to -300C.  220V ,50HZ, 1PH  compressor : Tecumseh or Danffos  frion use : R12 or R22  Dial thermometer outside  the door have lock  Inside wall for freezer Aluminum plate.  Freezer has alarm system when temp. low or high</p>	2000
02-06-00042	<p><b>Equipment: Vaccines and medicines refrigerator</b>  Volume : 16 ft3  Temperature: from 00C to 300C.  220V ,50HZ, 1PH  compressor : Techumsuh or Danffos  frion use : R12 or R22  Dial thermometer outside  the door have lock  Freezer has alarm system when temp. low or high</p>	5000
02-06-00043	<p><b>Equipment: kitchen equipment</b>  Site:saddam medical city  <b>Mobile sink</b> capacity 220 liter dimension 800X600X500mm total high 650 mm</p>	100
02-06-00044	<p><b>Mobile sink</b> capacity 220 liter dimension 800X600X500mm total high 650 mm</p>	100
02-06-00045	<p><b>Equipment: Steam Boiler for heating (5 ton/hr)</b>  A) Steam Boilers  1. The sub-contractor shall provide install, test, and commission one no. packaged steam boiler and associated equipment.  2. The boiler shall be rated capacity of 5000 kg/h with a working pressure of 8-10 bar. Test pressure must be rated 1.5 times working pressure.  3. The packaged boiler shall be manufactured in accordance with either the relevant TRD/DIN (German code) or British standards.  4. The packaged boiler shall be supplied with matched ,forced draught pressure jet burner of high/low flame 2-stage operation, suitable for burning dual fuel 35 second redwood no. 1 at 38 c ,light fuel oil and groping butane and heavy oil .  5. The Boiler burner shall be fully automatic in operation complete with all necessary controls for oil and air supply, flame failure ,ignition ,pre and post purge periods etc. all pre wired to the sensors and boiler control/indication panel.  6. The boiler shall be high efficiency 3-parse lr. reversed flow type with pressurized combustion chamber.  7. Boiler shall be fully pressure tested at the factory and 1 copy of the manufacturers test certificates (approved by neutral test instate) shall be provided.  8. Flue connection shall be at the rear of the boiler.  9. The packaged boiler shall have duty and stand by feed water pumps with associated automatic controls. pumps shall be of the multistage-centrifugal type.  10. The packaged boiler shall have the following mounting:  1. main steam valve  2. 2-high lift state valve, 5000 kg blowing – off pressure 10 bar  3. pressure gauge.  4. 2-water level gauge.  5. feed water pressure gauge.  6. Burner control sensors.  7. water level /feed pumps controls.  8. pressure control  9. Blow down valve suitable for timed automatic operation in conduction with timer unit.  10. 2-boiler feeding pumps with electric motor designed specified  boiler capacity at 10 bar.   11. The boiler shall have its own control/indication panel completely premiered with all necessary functions for a central and automatic supervision and control of the boiler unit . The panel shall incorporate all required facilities for correct monitorin  B- BOILER FLUE GAS DUCTING  1. The sub-Contactor shall supply. install and commission flue gas ducting (chimney) terminating in a suitable clown above roof level. Height (above floor level) 5m.</p>	500

2. The "nominally" horizontal flue gas ducting shall be installed "to fall", rising slightly, towards the main vertical chimneys.

3. cleaning access doors shall be provided at the ends of horizontal ducting together with combined pressure release/cleaning door at the base of vertical flue.

4. A condenser drain valve shall be provided from the base of vertical flue, located at low level, complete with hose connection.

#### C. BOILER FEED WATER + CONDENSATE TANK INCLUDE CHEM. DOSING

1. The sub-contractor shall supply, install, test, and commission a feed water tank at high level in the plant room supplied as a complete package.

2. The tank shall be constructed of sheet steel with welded joints and will be supplied complete with all necessary channel iron wall and floor supports thickness 5mm.

3. The tank shall have a minimum capacity of 3000 liter's, complete with following features and fittings etc:

1. 500mm bolted access manhole

2. Glass water level gauge.

3. water level control electrodes and associated solenoid valve for make-up water.

4. Sprague pipes for condense return below water level.

5. spray pipes for direct steam injection below water level for preheating feed water at boiler start-up, complete with thermostatically control valve.

6. vent pipe.

7. all necessary connection.

8. 50 mm thick rigid foil backed fibber glass insulation of 64 kg/m<sup>3</sup> density finished in 24 swag aluminum sheeting.

4. The tank shall also have provision for being chemically dosed by Adonis set.

5. The dosing set shall consist of plastic mixing drum with an adjustable rate dosing pump suitable for dosing oxygen scavengers, as recommended by the boiler manufacture or other equal and approved chemical supply suitable for 5 tons of steam supply mus

6. The chemical dosing pump set shall be supplied by the boiler manufacture or equal approved.

#### D. BOILER BLOW DOWN TANK

1. The sub-contractor shall supply, install, test and commission a boiler blow down tank.

2. The tank shall have a capacity of Hrs supplied as a complete.

3. The tank shall be welded steel construction complete with mounting legs.

4. The tank shall be fitted with an automatic condense aftercare complete with non. return valve, thermostat and solenoid valve strainer, and globe valve all mounted on the untreated cold water supply to the unit.

5. The after cooler and accessories shall also be supplied by the tank manufacturer.

6. The blow down tank shall be complete with pipe.

#### E. BOILER BLOWDOWN SYSTEM

1. The boiler shall have its own automatic system to provide for periodic blow down .

2. This shall consist of an electrical activated blow down valve which shall operate under the dictates of timer unit to provide a time controlled cycle as necessary.

3. The timer/control unit shall provide blow down for Emmanuelle adjustable pre-set period at desired intervals which will, again be variable.

4. The boiler blow down system shall be as manufacture boiler manufacturer or equal and approved, and shall be supplied as package for the boiler.

#### F. WATER SOFTENER PLANT

1. The water softener shall be of the dual type in order to provide feed water for 24 hours/day continuously (No death-time due to regeneration).

2. The water softener must be supplied complete with :

- booster pump(inlet pressure 0.5 bar).

- salt tank(brine tank)

- 2water softener colors complete with control solenoid valves

- filter(strainer)

- contact water meter compel. with water softener control unit

- all armatures

3. The water softener must have capacity at 80-100 litter/h

4. water treatment

water specification:

-total water hardness caco3 150 400

-calcium ca 40 120

-chloride c1 10 70

-sulfate so4 40 120

-pH-valve 6.8 7.6

-Fe 0 0.24

-total alkalinity caco3 110 160

#### G. Heat exchanger (horizontal type)

	<p>with U-copper tubes (extensible) complete with thermal insulation:          -capacity: 450.000 kcal/h          -primary : saturated steam 8 bar          -secondary: water 15-60 c0          -complete with asset of drawings.          H. Heat exchanger (horizontal type)          with U-copper tubes (extensible) complete with insulation:          -capacity : 1.100.000 kcal/h          -primary : saturated steam 8 bar          -secondary water 15-90 c0          complete with a set of drawings.          I. spare parts for 5 years with complete set of fire tube          J. Fuel storage tanks          - content 10.000 Lt.          - wall thickness 5 mm          with tar-coating including supports for air mounting          connections and controls to storage tank:          - 1 filling 1 1/2" incl.          - 1 draining 1 1/2" include          - 1 air vent 2" with air          - 1 supply and return          - 1 drain valve 1 1/2" include connection          - 1 supply valve          - 1 manhole 400          - 1 pneumatic fuel gauge          - 1 measuring rod          K. control to fuel supply system (burner accessories) 1 Electro valve ,ventilation system consisting of:          stop cock, oil filter, Electro valve ,air vent flange and for other type of fuel and maintenance          L. operation manual and diagram complete in English with all drawing electronically and mechanical          M. Training          3 engineer and 3 technician for one month at factory</p>	
02-06-00046	<p><b>EQUIPMENT : STEAM BOILER FOR WASHING (0.6 TON/Hr)</b>          Nos. Fuji Automatic Multi-Pass Steam boilers with electrical and mechanical control ,pumps ,safeties with Auxiliaries According to the international standards and regulations for steam boiler under the following specifications :          A. Out put capacity 600kg/Hr          B. Working pressure (6-8) bar          C. Oil burner type I 3 VZ monarch and gas (butane ,propane ) and heavy oil          The following item must be included          1. Automatic blow down ,controlled by timer          2. Feed/Condense water tank capacity of one meter cube with mechanical float ,water level indicator ,valves. etc,          3. Daily oil tank sand plastid with inner and outer anticorrosion painting ,capacity of lion liters complete with level indicator filling holes and suitable base          4. Oil filter with valve ,strainer, hose of 1/2 outlet diameter and accessories for other type of fuel          5. Suitable chimney 5 meter vertical height          6. Itemized and separately priced spare parts list sufficient for 5 years and maintenance including 2 sets internal pipes for each boiler          7. Suitable automatic water softener plants working on(0.5 bar) domestic water pressure to supply water 8 with zero degree hardness complete with all flexible pipes , electrical equipment's and fittings required and washable sand and clay filter.          8. Test certificate for each boiler sublimed by a reputable specialized firm electricity : 4 lines , 3 phase 380/220 voles , 50 HZ          water supply : 0.5 bar domestic water pressure          Analysis:          -Total hardness as CAE 0.3 400mg /l          -Calcium as ca 120mg/l          -Chloride as CL 70MG/L          -SULFATE AS SO 4 120MG/L          -pH 7.6          -Iron as Fe 0.24 mg/l          -Total alkalinity as cacao 3 160mg/l          9. Rocco mounded spare part list for 5 years with complete set fine tube          10. Supply all electrical and mechanical drawing and maintenance catalog and spare part catalog complete          11. Training for 3 engineers and 3 technician</p>	500
02-06-00047	<p><b>EQUIPMENT : HOT WATER BOILER (1 TON/Hr)</b>          rating : 760 000 kcal/hr (879 kw)          working press : 8 bar          design : 3 pass wet back fier tube          burner : dual fuel , LPG and light gasoil          standerd : B.S 2790 and equivalent          quality : 150 9001          full automatic equippe with all necessary controls saftys fittings , valves with          1) 10000 lt fuel tank</p>	500



	2) 5 meters steel chimney 3) 5- years recommended spare parts 4) 1- year warranty 5) supervision on installation 6) training of MOH engineers in factory	
	<b>TYRE</b>	
02-06-00048	600X 14	2700
02-06-00049	700X 15	1600
02-06-00050	750X 16	5000
02-06-00051	1200X 20	3800
02-06-00052	1200X 24	1600
02-06-00053	3007436/007	126
02-06-00054	3007436/004	126
02-06-00055	2003087/001	60
02-06-00056	2003087/002	60
	<b>BATTERY</b>	
02-06-00057	60 AMP	6000
02-06-00058	90 AMP	1000
02-06-00059	135 AMP	1700
02-06-00060	540 AMP	400
02-06-00061	530 AMP	70
02-06-00062	30	700
02-06-00063	200	800
	complete box battery Type:- 24 DRH 7 serial no. :- A9050158 F.O capacity:- 511 A/AT 5 hour rate volt:- 48 size:- 52x53x80 cm each box have 12 battery each battery size 50x14x11 cm	
	<b>Equipment: kitchen equipment</b> Site: saddam medical city <b>Steam heated boiling pan</b> adjustable boil dimension approx. 1X1x1 m capacity 200liter materials inner lining of acid poof s/s accessories mixer unit for hot and cold water strainers and removable baskets	
02-06-00064		200
02-06-00065	<b>Equipment : KIMADIA COMPUTER SYSTEM</b> THIS SYSTEM IS DESIGNED AS THE FIRST STAGE SOLUTION FOR COMPUTERISING THE STOCK MOVEMENTS OF MEDICAL ITEMS IN THE MINISTRY OF HEALTH WAREHOUSES.THIS INCLUDES ALSO ALL THE RELATED ACTIVITIES PRIOR TO IT,SUCH AS TENDERS, CONTRACTS, ETC, AND OTHER ACTIVITIES RESULTING FROM STOCK ,SUCH AS QUOTA SYSTEM, ACCOUNTING, AND FOLLOW UP OF ITS DISTRIBUTION (FROM THE SUPPLIERS DOWN TO ITS DISTRIBUTION TO THE FINAL OUTLET). THE SYSTEM CHOSEN IS NOT BY ALL MEANS THE LATEST STATE OF THE ART TECHNOLOCHY,BUT ITS A SYSTEM ACCEPTABLE TO UN, SUITABLE FOR ESTABLISHING THE STRUCTURE OF MORE, ADVANCED SYSTEM AS CHEAPLY AS POSSIBLE ,AND SIMPLE ENOUGH TO BE TRANSFERRED AT LATER STAGES TO MORE ADVANCED COMPUTER SYSTEM,BECUASE IT WILL BE DESIGNED TO BE PORTABLE, THE SYSTEM CONSISTS OF COMPUTER NODES IN EACH OF THE 13 WAREHOUSES AND EACH NODE WILL HAVE LOCAL PROCESSING CAPABILITIES TO RECEIVE ,STORE,DISPACH MEDICAL SUPPLIES IN ACCORDANCE WITH THE PROCEDURE LAIDED DOWN BY-MOU. ALL NODES WILL BE CONNECTED IN THE SECOND STAGE. WITH THE KAMADIA COMPUTER CENTRE IN THE MINISTRY OF HEALTH' THE FOLLOWING HARDWARES AND SOFTWARES ARE REQUIRED A- NETSERVER QUANTITY -14 UNITS SPECS AS FOLLOWS 1-UPTO 16 GB INTERNAL STORAGE 2-SIX EXPANSION SLOTS-TWO PCI,TWO PCI/ISA,TWO ISA 3-RAM UP TO 198MB AND TWO UNITS WITH RAM 384MB 4-BUILT IN ASR 5- CD-ROM 6-PRE CONFIGURED NETWORK CARD 7-NOT LESS THAN 200 MHz PROCESSOR 8-TAPE BACKUPSYSTEM NOT LESS THEN 8 GBNATIVE STORAGE 9-EXTERNAL STORGE CABINET WITH 4.3 GB DRIVE	



02-06-00075	<b>Meat bond saw</b> , 3 pH , 1.5 HP dimension approx. 520 X600X1500mm capacity work table 520X 660mm table travel 300mm ,blade speed 22m/sec s/s table	250
02-06-00076	<b>Vegetable mill</b> , 3 pH 0.75 KW or 1 pH equivalent dimensions approx. 750X300X500mm capacity 5-10 kg /min material machine casing polyurethane and acetyl with all accessories	250
02-06-00077	<b>Food cutter</b> 3pH 380 V 50HZ dimensions approx. 750 X600X500mm capacity volume of bowl 11liter speed of bowl 16/33 rpm speed of knife 1400 /2800 rpm material bond of s/s cover and stand of elect of aluminum with all accessories knives s/s spanners	250
02-06-00078	<b>Heavy duty meat miner</b> 380 V 50HZ 1.5 KW capacity approx. kg/hour 300, diameter of rotating knives 82 mm dimension approx. 400X470X 500	250
02-06-00079	<b>Universal kitchen machine</b> 1 pH dimension space required 370X270X500mm material casing of light alloy accessories mixing attachment 20 liter bowl capacity meat miner with 3, 4 ½ , 13mm cutting plates and one four bled knife mashing machine	250
02-06-00080	<b>Steam heated boiling pan</b> adjustable boil dimension approx. 1X1x1 m capacity 200liter materials inner lining of acid poof s/s accessories mixer unit for hot and cold water strainers and removable baskets	250
02-06-00081	<b>Equipment : Absorption chiller</b> Site/saddam Medical city capacity : 1000 RT Replacement to 16 JE carrier - Eva & Abuse : copper tubes 22 BWG X 1/4" O.D Eva. tubes have 19FPI Abuse. tubes are prime surface - Evaporator : model 16 JE 707 in - out temp. (C O) : -12.5 - 7 flow ( L/S) :- 149 tube velocity (M/S) :- 1.79 pass no. :- 2 - Absorber : model 16 JE 707 in temp .(C O) :- 29.4 flow (L/S) :- 240 tube velocity (M/S): 1.87 pass no. : 2 con. & gen. 3/4 " O.D condenser tubes are plain 22BWG copper generator tubes are 19 BWG Ca- Ni alloy 90-10 - con . model 16 JE 707 out temp. (CO) :- 38 flow (L/S): - 240 tube velocity (M/S):- 3.28 pass no. : 1 gen. Model 16 JE 707 Steam Pr - ( bar gauge ) :- 0.772 Steam rate ( G/SEC) :- 2275	100
02-06-00082	<b>Equipment : Centrifugal electrical chiller</b> Site/saddam Medical city Replacement to 17FA carrier Capacity : 1000TR nominal. Compressor : Hermetic motor - compressor out put- 1000HP Volt- 380 V , 3PH, 50 HZ full automatic load control full protection . Evaporator: model 17 FA ZZ in- out temp. ( Co): 7- 4.4 flow -(L/S) : 306 tube velocity ( M/S): 2.5 pass no. : 1 condenser: model FAZZ in out temp. (Co) : 29.4- 35.5 flow ( L/S) : 170.3 tube velocity (M/S) : 2.6 pass no. : 2 tubes -tube length (m) : ZZBWG - 3.7	100
02-06-00083	<b>Equipment : Centrifugal electric chiller</b> Site/saddam Medical city Replacement to 17 DA carrier capacity : 3000 TR nominal Motor : out put : 2240 KW - 3000 HP volt : 11000V , 3PH RPM : 1488 AMP : 138 compressor : model 17 DA - 74 B.H.P : 2234.86 KW	100

	<p>drive H.P: 2240 KW  speed increase : 5439/ 1488  cooler: model 17 DA - 73-ZZ  tube length (m) : 6.7  flow (L/S) : 311.6  in out temp (Co) : 12.5 - 4.38  no. of tubes : 1410  condenser : model 17DA - 67  tube length (m) : 4.6  flow (L/S): 471.9  in out temp (Co) : 29.4- 35.9  no. of tubes : 1801  no. of tubes for economizer : 199</p>	
02-06-00084	<p><b>Equipment : air compressor with motor</b>  Site/saddam Medical city  pneumatic control  motor : 30 HP . 380 V , 3 pH , 50 HZ, 2300 L/min  max. discharge pressure : 20 bar  operating pressure : 12 bar</p>	100
02-06-00085	<p><b>Equipment : air compressor with motor</b>  Site/saddam Medical city  diesel starting  motor : 2.6 KW , 3PH, 380V, 50HZ, 1500 rpm 0.065 m3/min 2.3 CFM  max working pressure: 3200 PSI,</p>	100
02-06-00086	<p><b>Equipment : Incinerator</b></p> <p>pyloric incinerators without grate to ensure complete combustion to incinerator general hospital waste including paper , wrapping material , plastics, animal and vegetable waste and pathological waste. Incinerators must be capable to receive the above w 100 mg/nm3 .  content of CO: max. 0.002 %  visibility of flue gases : max. 1 ring element  the incineration must not produce any smell ( the post combustion temp. must be above 800 Co).  volume of ash : max. 3% of initial volume  weight of ash: max. 12% of initial weight</p> <p>the waste must be completely burnt &amp; the contact of unbent organic matter of the ash must not exceed 3% . suppliers must forward with the quotation a document by the natural official institution proving that the above standard are achieved . preference is</p> <p>capacity :100K/hr  Design : incinerator of the pyrolytic type are preferred . it should be able to operate the incinerator as follows:  manual feeding through special feeding door with temp. lock in order to protect from accident .incinerator must be without grate in order to avoid liquid waste to fall into the ash container without being incinerated .  incinerator must be equipped with primary and one secondary ( pilot ) burner . the fuel consumption of the burners is to be indicated in the offer .  control : automatic control with all necessary swishes , lamps , gauges , etc. in order to ensure automatic operation of the incinerator .  electrical supply : 220 - 380 V , 50 cycle  chimney : stainless steel chimney of sufficient length and diameter with spark arrest.  fuel oil tank :main storage fuel oil tank made from steel plate , sand plastid and provided with protecting paint,  capacity : 10000lt and daily fuel tank 1000lt  spare part : itemized and priced spare parts list sufficient for five years.  training: for tow engineer and tow technetium in your factory for the period of three week.</p>	1000
02-06-00087	<p><b>Equipmer : kerosene refrigerator</b>  refrigerator work with electric heater &amp; kerosene  - size 12 ft3  dial thermometer on the door  - refrigerator have tow door first for freezer &amp; the second for refrigerator .</p>	1000
02-06-00088	<p><b>Equipment : meat cold store</b></p> <p>walk in freezers to preserve fresh meat at internal temp. ranging from (-15 C) to (- 25) at the following ambient conditions :  summer : DBT 50 Co  WBT 25 Co  winter : DBT 1 Co  WBT - 2 Co  Internal volume of freezer : not less than 20 M3  <b>A : CONSTRUCTION :</b></p>	1500

1- freezers shall be shipped in knock - down section easy to re-effect .

2- cabinet interior shall be made of heavy corrosion - proof aluminum - floor made of heavy gauge anti - slip aluminum ( Sequa plate) .

3- cabinet exterior shall be made of aluminum coated with a white weather - proof coating to make it suitable for out - door installation .

4- insulation shall be sufficient to maintain the specified internal temp. in the specified ambient conditions but shall be not less than 12 CMS of polyurethane .

5- door shall be constructed of aluminium and shall have an external lock with keys . Door handle can be operated from inside and outside low voltage heater wire strip with electrical control shall ne provided a push - button shall be fitted inside to sound

6- shelves and hangers shall be made of strong rust - proof materials . Shelves shall be grid type three quarters of the space shall be occupied by shelves the rest by hangers .

7- Light weigh shade to protect the cabinet from rain and sun to be fitted on top of it shape size and material of shade shall be suggested by tenderer

8- dial thermometer

9- audio and visual alarm for high temp .

10- sufficient internal lighting automatically switches on when door opens

11- air curtain in the door operates automatically when door opens

#### **B- REFRIGERATION SYSTEM**

two independent refrigeration systems (each system having a compressor not less than 3 KW ) shall be installed each being capable to maintain the required internal temperature at the specified ambient conditions an automatic alternator a clock timer shall be

#### **C: ELECTRICAL SYSTEM**

system shall operate from single - phase , 220V . 50HZ supply - or from three - phase 4 - wire 380/220V .

#### **D-SPARE PARTS:**

an itemized and priced spare - parts list sufficient for five years repair and maintenance of the equipment shall be submitted with the offer . the price shall be C&F Baghdad and the spares shall be shipped with the freezers . Among other things , the list

1-compressors

2-evaporator motor fan

3-blades for evaporator fan

4-condenser motor fan

5-blades for condenser fan

6-thermometer

7-thermostat & alarm thermostat

8-high/low pressure - cut out

9-oil pressure - cut out

10-door gasket with heater

11-contactor for compressors

12-relays & electrical switches & klix on

13-defrost heaters

14-automatic electric defrost

15-automatic alternator for reverse sequence

16-internal light bulb

17-over load

18-expansion valve

19-filter driers

20-fuses of different ratings

21-solenoid valve

22-micro switch & spare for air curtain

23-alarm horn

#### **TESTING , INSTALLATION AND GUARANTEE**

#### **A : TESTING AND GUARANTEE**

	<p>tenderer shall guarantee and maintain the freezers for a period of tow years starting from date of putting them in operation . All equipment shall be tested and outstanding technicalproblms shall be discussed and settled in the firm prior to the shipment</p> <p><b>B: TRAINING :</b></p> <p>tenderer shall train two persons on the repair and maintenance of the equipment , each person for a period of one month in his firm tenderer shall bear all eosts including return air - fair , full - board loding and any other expenses .</p> <p><b>C : INSTALLATION :</b></p> <p>tenderer shall make complete installation of all cold stores and freezers except civil works such as concrete base - all materials any offer not including complete installation shall be rejected .</p> <p><b>NOTES</b></p> <p>1-fresh meats shall be brough in stores at around 35 OC .  2-quantity of stored meats in each store is about 1500 KG .  3-load calculations shall be sent with the offer</p>	
02-06-00089	<p><b>EQUIPMENT: SUB – STATION</b>  SITE: SADDAM MEDICAL CITY  BUSWAYS, 1600 AMP. RATING .  AS ABOVE BUT BETWEEN MV MAIN SWITCH BORD NAD TO  9-CHILLERS EACH 1500 AMP. FLC</p>	5000 METERS
02-06-00090	<p><b>submersible pump for spring well</b>  bore_hole pump=120meter head  flow =7L/sec multi stage</p>	50
02-06-00091	<p><b>Computer &amp; Communication system</b> to cover KIMADIA central, Doha, and sector warehouses. with high specs, UPS s, printers and universal bar code readers.</p>	30
02-06-00092	<p><b>Mechanical Governor control</b></p>	40
02-06-00093	<p><b>Water pump</b></p>	50
02-06-00094	<p><b>cooling tower</b>  company: CLIME CHAPPEE  Type :- (old) D31 E  Capacity :- 1.017 KW wet bulb :26 c  1-180.00 Kcal/hr water temp:- 38/30.8 c  Flow rate :-165 m3 /hr pressure drop :-2.5 m WG  Complete cooling tower :-  Which is same capacity at above and must be with separate motor for each blower and will work in high humidity weather 60% humidity and total hardness is for water 500 PPM recommended spare for 5 years include complete motor :-  Fins  Belt  Shaft  Spray nozzle  Bearing  Blower  Nozzle  Motor complete  Ball float valve</p>	200
02-06-00095	<p><b>H.T. System</b>  We need to supply of eight H.T breaker with the specification below for each H.T breaker :-  Connections</p> <p>It received power from (SOE) through two feeders one is operating and the other is standby and both are connected to the third H.T . breaker which satisfied the protection above and called general protection which supply the voltage to other five H.T bre</p> <p>All the H.T. breaker connected to earth switch individually in case of maintenance.  We need</p> <p>Recommended spare part including 2H.T breaker complete and tools for repairing and maintenance complete maintenance operation and installation catalog and training for 2 engineer the system complete with the dimensions below length 3meter ; depth 1.7 met</p> <p>Notes:-  The system must be operated with vacuum method  Quantity :-  6 system for 6 site + Recommended spare  Old system  Original system with the specification below :-  CEM company (France)  Type MF- 120620  3ph 12kv 630A 50HZ</p>	200

	350 MVA Motorized 110VD.C controlled voltage 110VD.C Gas SF6 pressure 5bar	
02-06-00096	<b>SHORT LIST FOR MATERIALS FOR CENTER OF NEUROLOGY (EQUIPMENTS AND SPARE PARTS AND ALL ACCESSORIES )</b>  Materials for mechanical works Centrifugal or reciprocating water chiller 230 ton	100 Including refrigerant gas
02-06-00097	<b>A.H.U W/accessories</b>	100
02-06-00098	<b>Condenser Evaporate and Boiler pumps</b>	100
02-06-00099	<b>Heap filter(60 x60cm)for O.R</b>	1500
02-06-00100	<b>Perforated diffusers for O.R</b>	100 4-3x3m &5 - 3.2x3.2m
02-06-00101	<b>EI.Bd. W/temp and humidity sensors for O.R</b>	100
02-06-00102	<b>MATERIALS FOR SANITARY WORKS</b> <b>Central medical gases system</b>	50Lot
02-06-00103	<b>Stainless steel scrub-up basins</b>	100 W/accessories
02-06-00104	<b>Oxygen plant</b>	50 lot
02-06-00105	<b>MATERIALS FOR ELECTRICAL WORKS</b> Nurse call system	50 lot 13n.st W/accessories
02-06-00106	<b>Bed head unit</b>	1000Different types
02-06-00107	<b>Fire alarm system</b>	100 lot Sys. W/accessories for 12 zones
02-06-00108	<b>Central clock system for O.R</b>	lot10 - master plus 20 - slave
02-06-00109	<b>Generator set (800 KVA)</b>	50
02-06-00110	<b>Bed passenger lift</b>	50
02-06-00111	<b>Sound reinforcement system</b>	50 Lot
02-06-00112	<b>Emergency exit light</b>	200
02-06-00113	<b>UPS system</b>	100 3- 5kw plus 3-7kw
02-06-00114	<b>Sparkles switch socket</b>	500 Different capacities
02-06-00115	<b>Materials for civil works</b> Conductive PVC tiles for O.R dept	1000m <sup>2</sup> W/accessories and adhesives
02-06-00116	<b>Ceiling panels for O.R</b>	500M <sup>2</sup> W/accessories and hangers
02-06-00117	<b>Wall panels for O.R</b>	1000M <sup>2</sup> W/ accessories and built in items
02-06-00118	<b>PVC skirting for O.R dept</b>	5002M W/accessories and adhesives
02-06-00119	<b>Equipment : pumps</b> Company name : Guinard France Description -Complete pump+motor (NE 6x16) Q=100 m3/hr H=30-23 Kw 15 3ph , 400V COs Q 0.89 r.i.p. = 2995	200
02-06-00120	<b>-set of repining kit for the pump (NE 6 x16)</b>	200
02-06-00121	<b>Complete pump + motor (NE3 x16)</b> Q= 15 m3/hr H=30m 3ph COs Q 0.9, r.p.m=2850 400V	200
02-06-00122	<b>-Set of repining kit for the pump (NE 3x16)</b>	200

02-06-00123	<b>Accessories</b> Microtck scanner A3 size (color)	200
02-06-00124	<b>Printer HP Desk jet 890C</b>	200
02-06-00125	<b>Digital Camera (Sony)</b>	200
02-06-00126	<b>Video in card (MPWGENCODER)</b>	200
02-06-00127	<b>Plotter A0 size (Disk jet color)</b>	200
02-06-00128	<b>Multi Media Projector</b>	200
02-06-00129	<b>Jackboot (20 CD changer) for Libra</b>	200
02-06-00130	<b>Copy Machines</b> Minolta photocopy machine 2080	200
02-06-00131	<b>Kiss graph machine copy</b> speed (60-130 copy per minute) GR-1750 or GR-3750	200
02-06-00132	<b>Video and calling system requirement</b> Video camera digital with motorized connected to the current system	500
02-06-00133	<b>27" Monitor video in –video out connected to the current video system</b>	500
02-06-00134	<b>Amplifier for current audio calling system</b>	200
02-06-00135	<b>Video recorder U-Match</b>	200
02-06-00136	<b>Video Recorder VHS</b>	200
02-06-00137	<b>Video Caddie U-Match</b>	3000
02-06-00138	<b>Video Caste VHS</b>	1000
02-06-00139	<b>Equipment:-Pegging system</b> -Complete Paging system with its control station and 5 watt transmitter and 100 radio receivers. the system either independent or interfacing with telephone exchange type. Model:- cite allocate v-2505 medium capacity epabx (64x320) cabinet reference OA075080101 (A20750044/E) Program reference FAH 04H 10H 03H supply Complete maintenance and operating installation catalog and spare part catalog training of our staff in maintenance factory -spare part for 5 year	500
02-06-00140	<b>Equipment:- water softener</b> Description -supply complete water softener with the values and all accessories instead of old model:- SF602 CSB meter controlled fully automatic. Capacity:- 9000/m3 Maxflowrate:- 10 m3/huh Hardness of treated water 0.TH Pressure drop:- 80 KPA (8MWG) Voltage: 220V/50HZ Operating pressure between (2 and 6 bar) 2 and 6 KPA/cm Salt capacity:-400 KG Reagent tank:- 120L Company name:-EAU ET IN DUSTRE -supply test kit for testing water with reagent 12 set supply Complete maintenance and operating and installation catalog and spare part catalog give list of Spare part for 5 years training of our staff in manufacture factory	200
02-06-00141	<b>Equipment:- Package unit package complete which supply cool air directly by duct to the building</b> Capacity:- 10TON 380 V 50HZ ,3PH,R22 Ambient temp. :- 60 C Linseed temp.:- 12 C Training 3 engineer for 2 weak spare part for 5 years	3000
02-06-00142	<b>petium 333MHZ MMX (INTEL) COMPLIANT WITH YEAR 2000 (XION)</b> MINITOWER CASE 64MB RAM (512CACHE) UP TO 5GB HDD 15" SVGA MONITOR WITH 8MBAGP CARD (SVGA) 144 FDD (3.5") 104 AIL KEYBOARD +(MOUSE &PAD) MULTI MEDIA KIT (32X CD-ROM+ 16-SOUND BLASTER+SPEACERS+microphone) CD-WRITER 2X2X6 FAX –MODEM CARD LAN CARD 32 BIT (PCI) WITH 1.4 APC UPS TYPE 2 PETIUM 333MHZ MMX (INTEL) COMPLIANT WITH YEAR 2000 (XION) MINITOWER CASE 32 MB RAM 3 GB HDD 14"SVGA MONITOR WITH 4MB AGP SVGA CARD 1.44 FDD (3.5") 104 AIL KEYBOARD + (MOUSE&PAD) CD-ROM 32X SPEED LAN CARD 32BIT (PCI) WITH 1.4 APC UPS TYPE 3	500



	<p>PETIUM 300MHZ MMX (INTEL) COMPLIANT WITH YEAR 2000 (CELERON)  MINITOWER CASE  16MB RAM  UP TO 2GBMDD  14" SVGA MONITOR WITH 2MB SVGA CARD  1.44 FDD 3.5"  104AIL KEYBOARD + (MOUSE &amp; PAD)  LAN CARD 32 BIT (PCI)  CD- ROM 24X SPEED  WITH 1.4 APC UPS  PRINTERS  EPSON LQ 2170 DOTMATRIX WITH ARABIC  HP LASER GET 6P  SCANNER  AT LEAST 4800 DPI FLAT BED PAGE SCANNER  mother board intel corporation with cpu  bios american megatrend inc (AMI)  ram memory micronics . Or kingston technolgy corp  hard disk seagate technology inc . Or western digital corb  monitor sony electronics inc.or samsong electronics america  floppy disk drive teak america inc.or mewlett packard  keyboard &amp; mouse microsoft corp  multimedia kit creative labs  CD-rim panasonic communications&amp; system co  fax-modem card hayes micro computer products inc</p>	
	<p><b>Equipment:fan coil unit</b>  COMPANY NAME: wesper</p>	
02-06-00143	<b>COMPLETE FAN COIL TYPE V.P.N 61 SINGLE SHAFT</b>	2000
02-06-00144	<b>COMPLETE FAN COIL TYPE V.P.N 81 DOBLE SHAFT</b>	2000
02-06-00145	<b>COMPLETE FAN COIL TYPE V.A.C 41 SINGLE SHAFT</b>	2000
02-06-00146	<b>COMPLETE FAN COIL TYPE V.A.C 81 DOBLE SHAFT</b>	2000
02-06-00147	<b>COMPLETE FAN COIL TYPE V.A.C 111 DOBLE SHAFT</b>	2000
	<p>SPARE PART FOR 5 YEARS INCLUDING THER MOSTAT  MOTOR SELECTOR SWITCH  catalog for the spare parts, models ,maintenance and operation  TRAINING for our STAFF engineers</p>	
02-06-00148	<p><b>EQUIPMENT CHILLER</b>  CAPACITY : 550  CENTRIFYAL TYPE WATER COOLED  SPARE PART FOR 5 YEARS  TRAINING FOR ENGINEAR  SUPPLY OPERATION AND MAINTENANA  CATOLOG WITH SPARE PART LIST  INSTALLATION AND OPERATION AND MAINTENANCE FOR ONE YEAR..</p>	500
02-06-00149	<p><b>WATER COOLER COMPLATE WITH</b>  ¼ OR 1/3 HP COMPRESSON 50HZ SINGLE PHASE 220V  SYEARS SPARE PART  TRAINING FOR ENGINEER AND TECH</p>	15000
02-06-00150	<p><b>Equipment :- Window unit</b>  Air condition with heater  Capacity :- 1.5 ton  220 v , 50 Hz , 1 pH  hotel cooled , R22  spare part for 5 years  Training for our tech.</p>	25000
02-06-00151	<p><b>Equipment :- split unit</b>  Split unit with heater  Capacity :- 3 ton  220 V , 50 Hz , 1 pH  hot and cooled R22  spare part for 5 years  training for our tech</p>	10000
02-06-00152	<p><b>Equipment :- deep freeze</b>  Deep freeze complete unit flat type inside temp. required :- 40  Co , size: 500 LT  220V , single, phase 1 , 50 HZ  spare part for 5 years  training for engineer and tech  Supply catalog spare part and operation and maintenance</p>	2000
02-06-00153	<p><b>Equipment :- chiller Air cooled</b>  Capacity :- 80 ton  Ambient temp :55Cú  Water inlet : 6 Cú  Water outlet : 12 Cú  Compressor type : Semi hermetic  coil material copper tube with aleminuim fins  fan type propeller  evaporator sheel and tubs  (cooler type) pumps flow rate suitable for the chiller  air handling units with suitable capacity  electrical board for operation (pumps ,chiller , air handling units)</p>	1500
02-06-00154	<p><b>Equipment:- cooling tower</b>  Complete cooling tower  Capacity : 4 .201.200 Kcal/h  Working weather 60% humidity and 500 PPM total hardness for water</p>	200

	<p>Water flow : 7800 L/min  Water in :- 41Cú  Water out :- 32 C ú  Spare part for 5 years  Training for engineer and tech  Supply catalog for operation and maintenance and spare part list.</p>	
02-06-00155	<p><b>Equipment:- cooling tower</b>  Capacity :80 ton  Water temp. 38/ 30 Cú  Complete cooling tower must be separate motor for each blower and will work in high  Humidity weather 60 % Humidity and total hardness is for water 500ppm  Recommended spare for 5 years.  Include complete motor  Fin , belt,shaft, spray nozzle , bearing , blower ,  Nozzle , motor complete, ball float valve  Training for engineer and tech.  Complete catalog for spare part and operation maintenance catalog</p>	200
02-06-00156	<p><b>Minibus 21 Setae</b>, Two Wheel Drive with four doors with Air Conditioner, Petrol engine with service, operation, spare parts manuals in English and service and Fast moving spare parts for 2 years operation</p>	1for the North
02-06-00157	<p><b>Fuel Tanker Scan</b>, Complete Set, 9 cube metros (m3) spare part with service, operation, spare parts manuals in English and service and fast moving spare parts for 2 years operation (other alternative Volvo or Mercedes)</p>	3 for the North
02-06-00158	<p><b>SPECIFICATIONS FOR BLOOD REFRIGERATOR CARS</b>  BIAS VEHICLE  ENGINE:(4-6) CYLINDER  PETROL ENGINE  WATER COOLED  CAPACITY 2600CC AND MORE  TRANSMISSION: MANUAL GEAR BOX 4- SPEED WITH ONE REVERSE FLOOR SHIFT  DRIVE : FOUR WHEEL DRIVE THE REAI AXLE EGUPED IN EACH SIDE DOUBLE WHEEL  BRAKE: DRUM BRAKE IN EACH WHEEL WITH BOOSTER ASSIST BARKING BRAKE TO BE CONTROLLED BY HAND GETTING ON THE REAR WHEELS  - STEERING: POWER STEERING LEFT HAND DRIVE  - SUSPENSION: HEAVY DUTY LEAF SPRING IN EACH REAR AND FRONT WHEELS  - GAUGES: ALL IN METEORIC SYSTEM .  - AIR CONDITION AND HEATING: TO BE SUPPLIED FOR DRIVER CAB  - CAB: DOUBLE CABIN  FRAME AND CLASSIS :- TWO PARRELL CHANEL CLASSIS  - ELECTRIC EQUIPMENT: HEAVY DUTY 12 VOLT 75 AMP /H BATTERY  ANTENNA  INSTALLATION OF RADIO ANTENNA IN EACH AMBULANCE AT THE ROOF.  WIRELESS EQUIPMENT: EACH AMBULANCE EQUIPPED WITH RADIO (WIRELESS COMMUNICATION DEVICE).  - LOAD CAPACITY: THE VEHICLE CAN CARRY NET WEIGHT NOT LESS THAN 1000 KG  - SIREN AND BEACON: THE CAR EQUIPPED BY BEACON LONGITUDINAL IN UPPER FRONT OF THE CAR AND EQUIPPED BY DEVICE FOR COMMUNICATION  - ASSESSORS: JACK AND HANDLE, WHEEL RING, HAZARD TRIANGLE  - SPARE TYER ( DOUBLE TYER )  TWO GENERATORS SET TO BE AVAILABLE EACH ON CAPABLE TO OBERATE CONTINUOUSLY FOR SIX HOURS  CAPABILITY OF CONNECTING REFRIGERATOR AND FREEZER WITH EXTERNAL ELECTRICAL SOURCE INCLUDING ( CABLE 100M LENGTH WITH THREE OUT LET AND ANOTHER ELECTRIC Accessories AVAILIBLE ALL THE TIME IN THE CAR )  BLOOD BOX COMPARTMENT  THE BOX WILL BE ENOUGH TO CARRY THE FOLLOWING:  - TWO BLOOD REFRIGERATOR (VERTICAL TYPE) EACH CAN CARRY 100 UNIT OF BLOOD BAG  - TWO DEEP FREEZER (VERTICAL TYPE) EACH CAN CARRY 150 UNIT OF BLOOD DERIVATIVES  INSIDE TEMP FOR REFRIGERATOR + 2C TO +6C  INSIDE TEMP FOR DEEP FREEZE -30 TO -60C  - AMBIENT TEMP:60C</p>	500

AUDIO and VISUAL for LIGHT TEMP and LOW TEMP MUST BE FITTED in EACH refrigerator and FREEZE and WILL BE SHOWN ALSO in DRIVE CAB

DALE THERMOMETER MUST BE PROVIDED ON THE REFRIGATOR AND FREEZ AND WILL BE SHOWN ALSO IN DRIVER CAB

DAY RECORDER ON EACH REFRIGATOR AND FREEZ

EACH refrigerator and FREEZE have TWO SEPARATING COMPRESSOR (ONE work and ANOTHER STAND BY )

- EACH REFRIGERATOR AND FREEZE HAVE STAINLESS STEEL STEAD DOOR (NOT GLASS)
- AUTOMATIC DEFORESTING FOR EACH REFRIGERATOR AND FREEZE AND THE DRAIN WATER WILL BE THROWN OUTSIDE THE CAR
- THE REFRIGERATOR AND FREEZER WILL HAVE REMOVABLE DRAWER
- REF. GAS: R12 OR, RR22 OR R502
- TOW MINI COOLING BOXES FOR MANUAL TRANSPORTING THE BLOOD BAGS
- THE GENERAL BOX ARE SUITABLE FOR THE JOB OF THE OPERATION OF BLOOD CARRYING IN EACH ITEM .AND EQUIPPED BY TWO REAR DOOR OPERABLE TO THE SIDE

RECOMMENDED SPARE PARTS FOR 5 YEARS

TRINING FOR TOW ENG. TOW WEEKS AND ONE DOCTOR(physican) FROM BLOOD BANK FOR TWO WEEKS

02-06-00159	<b>Equipment Gas Boiler</b> Supply complete unit with its all accessories instead of old model conic flexiflame 70 cp. Gases serial No. 82487612-20 Company name :- CHAFFOTANUX ETMAURY - give list of spare part for serer - supply complete maintenance and operating and installation and spare part scatalog - Training of our staff in manufacture factory	500
02-06-00160	<b>Centralized cooker s</b>	200
02-06-00161	<b>Bata peeling machine</b>	200
02-06-00162	<b>Tomato press</b>	200
02-06-00163	<b>Horizontal Deep freeze 16" foot</b>	200
02-06-00164	<b>Washing machine laundry</b>	200
02-06-00165	<b>Press</b>	200
02-06-00166	<b>Betts for Iron roller</b>	1000
02-06-00167	<b>Pentium 2 Intel</b>	1500
02-06-00168	<b>CPU 333 MHz with cache RAM 128 MB</b>	1500
02-06-00169	<b>Hard disk 9 GB</b>	1500
02-06-00170	<b>SVGA card 4 MBV RAM</b>	1500
02-06-00171	<b>17" color SVGA monitor</b>	1500
02-06-00172	<b>Screen filter</b>	1500
02-06-00173	<b>LAN card 32 Bits</b>	1500
02-06-00174	<b>CD -Drive 34 X</b>	1500
02-06-00175	<b>Sound D32 Bit 3 D</b>	1500
02-06-00176	<b>HP laser jet printer 6p++10 extra toner</b>	1500
02-06-00177	<b>Modem Fax card (56.6) KBPS</b>	1500
02-06-00178	<b>English/Arabic KB (104 Keys)</b>	1500
02-06-00179	<b>MS mouse</b>	1500
02-06-00180	<b>Mouse -Peed</b>	1500
02-06-00181	<b>3.5 FDD HD</b>	1500
02-06-00182	<b>HP Laser jet printer</b>	1500
02-06-00183	<b>Extra Black Toner</b>	1500
02-06-00184	<b>FORK LIFT (5 TON)</b> 1. DIESEL ENGINE 4 CYLINDER WATER COOLED 2. BATTERY 12V 3. NORMAL HYDRAULIC GEAR 4. MAX HEIGHT 3.5M	500

**PACKAGE UNIT (AIR COOLED) SCHEDULE**

Cod	No. Req	Summer				Winter		blower		Comp. Load/kw				
		Cooling load kcal/H		Evaporate temp C		Electrical heater	No.of stage	Fresh air (m/h)	Supply air (m/h)	External (mm w.g)	Bower	Kw		
		Qty	Effective sensible load	Total load	Entering	Leaving							Kw	
				D.B	W.B	D.B	W.B							
02-06-00185	100	65700	98400	28	17.5	14	9.5	70	2	4980	28050	7	7.5	46
02-06-00186	100	55200	81900	33	19.8	143	9.5	58	2	4400	22440	6	7	37
02-06-00187	100	19400	28200	28.4	17.5	14	9.5	20	2	1630	8160	5	2	13.6
02-06-00188	100	29670	44100	28.4	17.5	14	9.5	31	2	2550	12750	5	3	22.8
02-06-00189	100	12510	18150	28.4	17.5	14	9.5	12.8	2	1020	5100	5	1.5	8.9
02-06-00190	100	41000	50500	28.4	17.5	14	9.5	36	2	2720	13600	5	3	22.6
02-06-00191	100	12510	18000	28.4	17.5	14	9.5	12.7	2	1020	5100	5	1.5	8.9
02-06-00192	<b>Size of clinker /1st stage 406. 4mm (16") tow</b>											100set		
02-06-00193	<b>Z ND stage :288 .6mm (9)" tow</b> - Power transmission / direct coupling - The compressor used to produce medical oxygen Gas under normal condition											100set		

	- Compressor manufacturer / IHI ishikawajima – industries Co. It'd Tokyo Japan Head office e : New ohtemavhi Bldg. 2- chime . 2chlemachi Chiyoda .KU Toko. Japan Tel Toko (03) 244.6496) Telex J22232 (Chico j 22232) J 22490 , JJ2439Cabra address : Iho Toko - Installed & Commissioning by: Toko Bussan Co. Lt. Twix 242- 2914 Fax 03-423 – 4821	
02-06-00194	Teflon Pistonring 2nd Stacie cood No. E238201	200
02-06-00195	Teflon Piston ring ist stage cood No. E148201	200
02-06-00196	Bull Ring 2nd Stage cood No. E238202	200
02-06-00197	Piston Assy Ist stage cood No. E141600	100
02-06-00198	Discharge valve seat	1500pcs
02-06-00199	inlet valve seat	1500
02-06-00200	I- Typethermometer (0-100C)	100