

02-06-00598 air handling unit for operating theater room

type / wiss technick
 capacity = 50ton
 heating = heater for (A and B)
 A - HP = 3/10.5
 flow = 2500 / 4250M³/hr
 B - HP = 1.5/5.5
 flow = 1500/ 3250 M³/hr
 R.P.M for A and B = 1500/ 3000
 NO. of ROW for (A and B)=3
 three type of filter for (A and B)
 a -bag filter (washable)
 b -mesh typy (washable) G.S
 C- absolute filter 99.9%
 volt = 380 V/ 3 PH / 50HZ

02-06-00599 **A .H. U**
 ctm=14800ctm
 HP= 8.5HP
 heating=hot water
 RPM= 1500/ 3000
 volt = 380V / /50HZ
 feltr = mesh tepe (washable)(G.S)

A .H. U

	HP	V	QTY	flow M ³ /hr	type of filter
02-06-00600		380/3p 2 h/50hz		31 50	mesh type (washable)
02-06-00601	7.5	380/3p h/50hz		8160	mesh type (washable)
02-06-00602	7.5	380/3p h/50hz		9960	mesh type (washable)
02-06-00603	7.5	380/3p h/50hz		7990	
02-06-00604	7.5	380/3p h/50hz		8560	

02-06-00605	3.o	380/3p h/50hz		3080	
02-06-00606	7.5	380/3p h/50hz		3080	
02-06-00607	10	380/3p h/50hz		7250	
02-06-00608	7.5	380/3p h/50hz		4000	
02-06-00609	7.5	380/3p h/50hz		4000	
02-06-00610	20	380/3p h/50hz		16190	mesh type (G.S)
02-06-00611	7.5	380/3p h/50hz		6800	mesh type (G.S)
02-06-00612	7.5	380/3p h/50hz		4400	mesh type (G.S)
02-06-00613	40	380/3p h/50hz		31700	mesh type (G.S)
02-06-00614	30	380/3p h/50hz		31005	mesh type (G.S)
02-06-00615	25	380/3p h/50hz		33030	mesh type (G.S)
02-06-00616	15	380/3p h/50hz		19500	mesh type (G.S)
	heating = hot water RPM = 1500 - 3000 NO.of row = 3				
02-06-00617	FIER ALARM SYSTEM a)specification : 1- the system should be 2- wire installation 2- the system should be able to be connected to data network or telephone exchange and recorder 3- the system should contain repeaters for stopping air conditioning and spare 4- each zone contain about 20 delectors and one glass break unit 5- the system should contain one central control and indication unit and branches units 6- each system contain PC unit for operation and maintenance and programing if necessary 7- the detectors should be from smoke heat and temp rise type b) quantities :				

no. of system	no. of zone
500	10
500	20
500	30
500	40
500	60
500	80
500	120
<p>c)</p> <p>1- one year warrenty from date of operation and tow years maintenece after period of warrenty</p> <p>2- spare partes for 5- years</p> <p>3- full sets of ducomants and catalogues and diagrams</p> <p>4- training on factory of equipment and local training during installation</p>	
MEURO - SURGERY CENTER	
LUNDRY EQUIPMENT	
02-06-00618	side loading washer 50 kg
02-06-00619	centrefugal extractor 30 kg/load
02-06-00620	drying tembler 25 kg/load
02-06-00621	canvas truck
02-06-00622	strach cooker
02-06-00623	flate work ironer 50 kg/hr
02-06-00624	hand ironer board
02-06-00625	swing machine
02-06-00626	otlity press machine
02-06-00627	<p>kerosen steam boiler 20 BHP capac. At apressure of 11kg/cm2</p> <p>a- general fire tupe steam boiler</p> <p>1-package , automatic factory assembled , on steel base piped , wired , tested and ready for connec - tion to water , fuel and powersupply 11 bar</p> <p>2- desing working pressure</p> <p>3-controls and circuits grounded and to operate on 240 volts 50 hz</p> <p>4-suitable for firing with fuel oil np.2</p> <p>5-over all efficiency not less than 80%</p> <p>6-certified test resolts to be submitted</p> <p>7-operation , maintenance , repair and spare parts manuals to be submitted</p> <p>b-capacity: 500 kg of steam /hr</p> <p>c- design: the boiler shall be of horizontal fire tube type , equiped with the following:-</p> <p>1- shell to be designed , constructed , and hydro-statically , tested in accordance with ASME boiler and pressure vessel code</p> <p>_ to be equiped with sufficient manholes handholes lifting eyes, heavy steel base target rin for flame reshaping & means of constant control flow of water</p> <p>2-front &rear doors to be gantight &explosion proof and suitable for inspecting tube sheets &flues</p> <p>3- re - fractories to be of high quality , high tem - perature material laid in high temp cement</p> <p>4-flame observation parts with pyrex glass and steel cover</p> <p>5-insulation and jacket to be 50mm fider glass insulation unler sectional prefer 1mm (20 gauge) g . l . Sheet met lagging . A suitable cat walk to be equiped to the boiler</p> <p>6-painting to be heat resistant enamel</p> <p>d- accessories to include:-</p> <p>1-flanged inlet with isolating valve</p> <p>2-flanged out let with isolating valve</p>

	<p>3-flanged relief valve 4-screwed press , gauge 200mm 5-screwed thermometers 6-drain valves , y type 7-high steam press limit control</p> <p>8-water column ass including gauge glass , try cocks , low water cut - off and feed pump control with alarm contacts 9-blow down uessel and valve 10-feed water pump of a capacity and head sutibale for boiler capacity 11- second high limit switch 12-second low water cut off 13-hand injector for feed pump 14-feed water system</p> <p>e-control circuit to slut off fuel supply in the event of</p> <p>1-low water level 2-forced draft fan failure 3-ignition failure 4-main flamo failure 5-low oil press</p> <p>f-burners to be fully automatic pressure atomising nossle forced drought type designed to fire fuel no. 2 or L.P.G each burner to be equipped with the following:</p> <p>1-relays for prepurging & post p.u.r. gina oil burner nozzles 2-ienition transformer & electronics 3-rotary fuel oil pump with manual change over switch 4-blower with automatic starter 5-oil strainer , valves , check valves & solenois valve 6-oil pressure regulating valves 7-oil pressure gauge 8-flame failure deteeector 9-external mix gas burner 10-gas - electric ignition 11-air flow safety awitch 12-main gas : train consisting oe gas volume control valve , manual gas cock and automatic diaphragm gas valve</p> <p>g- condensate return system equiped with</p> <p>1- receiver tank with acapacity not less than 5 - times the amount of condensatc perminute 2-condensate pump with a capacity not less than 2.5 times normal flow 3-adjustable float switch and gauge glass to be fitted to the receiver tank</p> <p>h- chimney and insulation :-to be supplied made of black steel gauge 14 welded thru out reinforced and braced with angle iron members to be fitted with removable clean out plates barometric damper for maintaining correct draft</p> <p>the clrimney shall be insulated with matac lath 85% magnesia 150 mm insulation the chimney to be coated with plastic smok pipe covering to reduce condensation a breaching with suitable clean out to be supplied for connecting boiler to vertical stack</p> <p>I- softener : iron exchange softener of a capacity suitable for boiler capacity complete with brine tank and all other accessories required the feed water hardness 700 ppm nos of boiler required 20 set with all other mentioned accessories above</p>		
02-06-00628	air compressor with cylinder 0.07 m3/min capac. At apressure of 6 kg/cm2 cylinder rolame 120 l		
02-06-00629	disinfected washing machine		
	ELECTRICAL EQUIPMENT		
02-06-00630	high tension panal with short circuit current (25 ka)		
02-06-00631	high tension cable , XLPE type with (750) m length		

02-06-00632	isolated transformer	
	with their control panales	
	capacity (25 kva)	
	capacity (16 kva)	

KITCHEN EQUIPMENT

02-06-00633	scale 1 kg	
02-06-00634	scale 25kg	
02-06-00635	scale 5 kg	
02-06-00636	weighing machine 100 kg	
02-06-00637	potata peeler 5kg /load	
02-06-00638	vegetable mill 300 kg /hr	
02-06-00639	chopping black 50x50x65 cm	
02-06-00640	meat mincer 2 kg /hr	
02-06-00641	backing oven gaseous loven 2 deck each 80x90x120cm	
02-06-00642	mixing machine 10 lit	
02-06-00643	refrigerator 420 lit	
02-06-00644	range gaseous (general purpose) 6 plate - 1oven	
02-06-00645	oven gaseous (each one of 80x90x170 cm)	
02-06-00646	boiling pan gaseous 35 lit	
02-06-00647	boiling pan gaseous 50 lit	
02-06-00648	gaseous fry range	
02-06-00649	grill gaseous	
02-06-00650	hot cub board	
02-06-00651	dish washer 640 pieces/hr	
02-06-00652	heated trolley	
02-06-00653	general purpose trolley	
02-06-00654	cold cup board	
02-06-00655	electrical water cooler 40 lit/hr	
02-06-00656	hood	
02-06-00657	bin on castors 6 kg	
02-06-00658	bin on castors 12.5 kg	
02-06-00659	bin on castors 25 kg	
02-06-00660	bin on castors 50 kg	

VIDEO BEAMER

02-06-00661	large avitorium high lumihosity for use in light remote controlled ,complete system with link to speakers computer and monitor to accept CD rom as well	
02-06-00662	slide progector	
02-06-00663	over head projector	
02-06-00664	cooling tower schedule	

no req.	type	rejection capacity kcal/h	ambint W.B temp. C	water temp.		water qty. L/min	fan motor kw	electrical characteristics			
				In	Out			V	PH	HZ	
200	indused draft	869400	26	35	30	2611	15	380	3	50	

02-06-00665	air washer schedual															
			summer				winter (heating coil)								blower	
			amb. Temp wb c	press. Nozzle m.w.g	water circulation lit/min	grand total heat kcal/hr	air temp c				water temp.c		water qty lit/min	no of fins /25m m	no of rows	blower type
							in		out		in	out				
no. req	type	location					DB	WB	DB	WB						
200	double bank spray	block c on the roof	26	25	750	431680	1.5	0.8	33.5	5.5	82	71	650	8	2	centrifugal aerofoil

extractor fan

	RE NO.	location	air capacity m3/hr	no. req	pressure drop mm.w.h	input kw	electric v/ph/hz
02-06-00666	RE-16	A"	1460	100	4	0.12	220/1/50
02-06-00667	RE-17	B	1300	100	3	0.07	220/1/50
02-06-00668	RE-18	B	12000	100	10	1	380/3/50
02-06-00669	RE-19	B	3400	100	7	0.3	220/1/50
02-06-00670	RE-20	B	2210	100	7	0.3	220/1/50
02-06-00671	RE-21	B	1530	100	5	0.2	220/1/50
02-06-00672	RE-22	B	1020	100	5	0.2	220/1/50
02-06-00673	RE-23	A`	2430	100	5	0.5	220/1/50
02-06-00674	RE-24	A"	1785	100	5	0.5	220/1/50
02-06-00675	RE-25	A"	3100	100	5	0.75	220/1/50
02-06-00676	RE-26	A"	340	100	3	0.3	220/1/50
02-06-00677	RE-27	A"	1445	100	5	0.5	220/1/50
02-06-00678	RE-28	A"	3215	100	5	0.5	220/1/50
02-06-00679	RE-29	A"	2516	100	5	0.5	220/1/50
02-06-00680	RE-30	A"	1600	100	3	0.3	220/1/50
02-06-00681	RE-31	A"	1900	100	3	0.5	220/1/50
02-06-00682	RE-32	A"	2265	100	3	0.5	220/1/50
02-06-00683	RE-33	A"	1700	100	3	0.5	220/1/50
02-06-00684	RE-34	A	1657	100	3	0.3	220/1/50
02-06-00685	RE-35	A` ,A`	1000	100	3	0.3	220/1/50
02-06-00686	hood						
	stainless steel hood used for labortary to be installed above sterilizer with following dimension 1500x600						
02-06-00687	water cooler						
	40 l/h cooled to 10 c electric supply 220/1 ph/50 stainless steel ,anti-splash top equipped with non-clogging and easy to clean integral stranier grid the tank shall be burst proof galvanized with copper refrigerator coil						
02-06-00688	window type 2 ton with heater capacity 3.6 kw						
02-06-00689	window type 1.5 ton with heater capacity 3 kw						
02-06-00690	window type 1 ton with heater capacity 2.6 kw						
02-06-00691	split unit 2 ton with heater capacity 3.6 kw						
02-06-00692	x-ray window 1.5x1.2m w/load glass						
02-06-00693	x-ray door fram 1.8x2.35 m w/load sheilding						
02-06-00694	x-ray door fram 0.9x2.1 m w/load sheilding						
02-06-00695	drinking water storge tank made of hot pressed steel plate of dimension (1.22x1.22) and thickness of not less than 6mm (7.32x4.88x2.44) m (4.88x2.44x2.44)m						
02-06-00696	inclarator of 300 kg /hr						
02-06-00697	BED HADE UINT						
	each one of bed hade unit comprifing the following						
	* general light 40 w with lamp						
	* read light 20 w with lamp						
	*cord pull switch with lamp for nurse call station						
	* intercom unit						
	* doubl switch socket 13A						
	*exam light with lamp						

	*extra examination light with lamp shipt 44 seperatly	
02-06-00698	<p>cold room temp.: -20C to +20 C dimention (H 2.5 m- W3 m- L3m) cold room 2 stage unites</p>	
02-06-00699	<p>santiry hot water with hot pump power 3kw , rev 1450 sec , suction 79 mm, discharge 64mm, capacity 14 l/min , head 30m</p>	
02-06-00700	<p>SPECIFICATIONS FOR TANK TRUCK (GAS OIL - CESSPOOL EMPTIER DRINKING WATER)</p> <p>1) Truck Specification 1- Type : Forward control 2- Drive sys. 4 X 2 3- Loading Cap. (10.000 liters Gas oil) (8.000 liters cesspool emptier) (10.000 liters drinking water) 4- Dimensions Wheel base about 4.100 mm Overall length about 7.535 mm Overall width about 2.480 mm 5- Engine : Diesel engine water cooled 6- Electrical eq. : 24 Volt, 12 volt X2 Batteries, 120 Ah at 20 hr 7- Transmission : Manual Power assist 8- Clutch : Hydraulic control, single dry plate with air pressure assistance. 9- Tires : Single Front, dual rear 10- Steering : Left hand steering, Ball mute type with integral type hydraulic power booster, Telescopic and tilt steering column with steering lock. 11- Front suspensions: Laminated leaf springs with shock absorbers 12- Rear Suspensions : Laminated leaf springs 13- Front : Parallel, Tapered channel section type with cross - member and reinforcements 14- Fuel Tank : 250 liters 15- Drivers Cab : All steel, tilt cab equipped with A/C 16- Paint : Finish coat, Crystal white 17- Measurement : Metric (Km/h) 18- Caution Plate : Arabic 19- Brakes : Service : Air over hydraulic with dval circuit Parking : internal expanding type on propeller shift Auxiliary : Exhaust brake 20- Cooling system : Radiator : corrugated fin type with pressure cap and surge tank Fan : Multi – blades, steel</p> <p>2) TANKS : Specifications A – Gas Oil Tank * Capacity: 10.0 KL. Gas Oil * Type : Elliptical cross sectioned cylindrical tank</p> <p>* Tank construction: tank assembly of elliptical shape, constructed with steel plate by electric welding which consists of tank shell, end plate, apparition plate, of lashing and manholes (inside 400mm dia.) each manhole cover is furnished with a filling hatch (inside 230mm Dai.) a dip stick, an air vent valve and a filling point interior surface of tank is zinc painted anti- corrosion.</p> <p>* Loading and emptying : emptying by pumping or gravity pump capacity 600 liters/min at 600 r.p.m</p>	

	<p>* Attachments :</p> <p>a- Hose locker Two, both sides of tank shell</p> <p>b- Ladder One, at left side in rear of tank</p> <p>c- Tool box One, mounted on frame</p> <p>d- Bumper One ,rear end of chassis frame</p> <p>e- Fire extinguish Two, both side of vehicle</p> <p>f- Earth reel One, at left side of vehicle</p> <p>g- Earth chain One, at rear of vehicle</p> <p>h- Muffler with spark arrested One, provided at front side of vehicle</p> <p>* Accessories :</p> <p>a- Hose (for suction or delivery) 63mm X 3mm</p> <p>b- Hose wrench</p> <p>* Dip stick is Marked on every 1000 liters</p> <p>B- Cesspool Emptier Tank</p> <p>* Cap : 8000 Liters</p> <p>* Type : Elliptical cross sectioned cylindrical tank</p> <p>* Tank construction : Tank assembly is elliptical shape, and constructed with steel plate by electric welding it consists of tank sheu, and plates, a main manhole, peep holes, 2-way ball valves and blind manholes. Interior surface of tank is zinc painted for anti- corrosion.</p> <p>* Loading and emptying : By vacuum pump (by increasing or decreasing tank pressure). Pump capacity : 2.790 lit/min at 500 r.p.m</p> <p>* Equipment :</p> <p>a- Delivery hose 75mm dia x 6m</p> <p>b- Suction hose 65 dia x 10m</p> <p>c- Tool box one mounted on frame</p> <p>* Color : Finish coat, crystal white</p> <p>C – (Drinking Water Tank)</p> <p>* Capacity : 10.0 KL Drinking water</p> <p>* Type : Elliptical cross sectioned cylindrical tank</p> <p>* Tank construction : tank assembly of Elliptical shape, constructed with stainless plate by electric welding which consists of all its part.</p> <p>And the tank has the parts and equipment that is necessary in the use and carrying the drinking water</p> <p>* Loading and emptying: Loading by pumping and by normal feeding from upper manhole Emptying : by pumping and by gravity</p>	
02-06-00701	over head projection	
02-06-00702	slide projection	
02-06-00703	flower making machine flower making machine with spaer parts warranty 2 years maintenance two years capacity one ton per hours (1000kG/HR)	
02-06-00704	grain crushing mashine mashine grain crushing mashine mashine with four different pore size sleeve capacity one ton per hour (1000KG/HR)	
02-06-00705	mixer mixer capacity (1000 KG/HR)	
02-06-00706	oven oven with fan- hot air for drying animal food medium size	
02-06-00707	pasute making machine pasute making machine capacite 100 KG/HR	
02-06-00708	hot water boiler 2.5 ton /hr	
02-06-00709	sealed-acid battery 70A/H/long life	
02-06-00710	sealed-acid battery 135A/H-long life	

02-06-00711	sealed-acid battery 200A/H-long life	
02-06-00712	Ni-cd-battery 6A/H 6V	
	Targeted Nutrition Programme	
02-06-00713	field vehicle Transportation of supplies and Monitoring / supervision of the programme 200 (2 cars / district + 26 for governorat and central levels)	
02-06-00714	Computer (1 per grovermorat , 2 of Baghdad and 4 for NRI) to improve CCCU/PHC database	
02-06-00715	Fork lift 3 ton (to be used storage places at Governorate for high protein biscut and therapeutic milk)	
02-06-00716	Motorcycle (one for each PHC center for monitoring at field level)	
02-06-00717	electric cooking heater (for use at PHCs)	
02-06-00718	ceiling fans (for use at PHCs/CCCU)	
	North of Iraq / health	
02-06-00719	Water tank trunk 8-10000 liter capacity , LHD with Export Specs for Iraq & manuf. Recommended spare for 2 yrs. Operation	
02-06-00720	equipment :Oxygen factory 1-type (10X-100) 2-production capacity 100 liter/hour 3-purity99.5-99.9% 4-voltage 380V 5-current 600-100A 6-oxygen container of 22000 liter with a- oxygen gas pump b-charging desk	
02-06-00721	freeze dryes malti shell shell area 5m^2 temp range -50 _ +70 vacum pump 10m^3/hr 220 _ 240V	
02-06-00722	deep freezer stainless steel intesior capacity 200 _ 250 liters miuoprocessor control digital display tempretare -220 _ -85C 220 _ 240V	
02-06-00723	vacum packaging + sealing machine 220 - 240V	
02-06-00724	laminas flow cabinet with bench _ speed control rate 100 fpm 220 _ 240V	
02-06-00725	analytical balance weishing capasity 205gm 220 _ 240V	
02-06-00726	drying / sterilization cabin (bio haz and # biological UV light 220 _ 240v	
02-06-00727	A W U.(air washer unit) tupe 2 bank conter flow type centerfugul single suction fan fan section :-back ward 2nclined blade sizedia.:- 750mm width 188mm	

no V-belt :-3
 supply air volume 25900 cmH X 106MMAQ
 return air volume OCMH, out door air volume 25900 CMH
 motor 15KW , 3Q , 380V , 50HZ heating coil
 air section :capacity :- 144000 KCAr/H
 water flow rate 200L/min
 water temp (in-out) 83c/71c
 air temp:-(in-out) (-1.0-15.0)
 rows & fin ptch 2rows x 2.9mm hatinial copper tube aluminin
 filter ass.: NBS 35%

02-06-00728 . Tyres and Tubes Required For Health Institutions in Iraq
 600 x 14
 650 x 14
 700 x 15
 750 x 16
 205 x 16
 650 x 16
 1200x 20
 1100x 20
 1200x 24
 1000x 20

02-06-00729 computer
 computer network to cover pentium 111 with acc:malti media
 digital camera
 P.C viewer
 scanner
 colour printer
 printer-laser jet
 portable screen
 C.D read-write
 C.D row
 flophy disc
 video blaster with cammera
 modem

02-06-00730 battery charger

typ	capacity	power KW	charging current	out put voltage	in put voltage
cadmium Qsc50-86	50AH/5HR	2.1KW	15A	E130-DCV	380V
QE200E-20	200AH/HR	1.36KW	40A	F27-DCV	380V
QE200E-20	200AH/HR	1.36KW	40A	E29.4-DCV	380V
Qfw600E-20	600AH/HR	3.4KW	100A	F27-DCV	380V
QKC80E-40	80AH/5HR	1.92KW	13.75	F56.8DCV	220V
QKC80E-40	80AH/5HR	1.92KW	75	13. E60.8DCV	220V

02-06-00731	Mobile lab. For air pollution monitoring (sampling and analysis system)containing (high volume sampler for measuring total suspended particulates (T.S.P.) , carbon monoxide (CO)analyzer ,Sulfur Oxides (SOx)analyzer ,Total hydrocarbon (THC)analyzer, ozone (o3) analyzer, hydrogen sulfide (H2S analyzer) with standard calibration gases for the above analyzers instruments for measuring the meteorological parameters (wind speed & direction , temp, and humidity) in addition to especially programmed computer and calibration unit and data handling unit for the above instruments and electrical power generator	
02-06-00732	Mobile water lab. Carried by a car containing (pH meter , turbidometer, portable spectrophotometer & spectrophotometer with U.V lamp , dissolved oxygen meter, COD reactor , TOC analyzer, deionizer , distillator , refrigerator , electrical generator	
02-06-00733	Mobile lab. for monitoring Environmental Background Radiation with all accessories containing :	
02-06-00734	Sodium iodide crystal with multichemical analyzer	
02-06-00735	Portable dust samplers	
02-06-00736	Portable dose (dose- rate) meter	
02-06-00737	automatic developing and fixing system for processing personal films	
02-06-00738	Accessories for Rotork analysis model 400 - CO analyzer (Rotork co) :-	
02-06-00739	Manual for model 400dual been infrared analyzer	
02-06-00740	Calibration gas cylinder (50 ppm)	
02-06-00741	boat for river survyay (8 horse , using benzene as fule capacity 7 persons	

02-06-00742	power supply	
	V in-pot	V out-pot
	24V DC	380V DC
		AM
		30A
		KW
		15KW
		capaste battrey
		182*2
02-06-00743	Passengers intercity staff bus .40 to 50 passengers,automatic doors ,diesel engine,air	
	AXIAL AEROFOIL AND PROPELLER EXHUST FAN	

	fan NO.	block location	TYPE	capacity m3/hr	no. req	external static pressure m.w.a	input kw	electric characterishi
02-06-00744	R.F16	B	axial aerofoil with motor inside case.	14000	100	10	4	380/3/50
02-06-00745	R.F17	A	axial aerofoil with motor inside case.	5950	10	5	2.5	380/3/50
02-06-00746	R.F18	A	axial aerofoil	4180	10	7	2.5	380/3/50

02-06-00747	RF.19	A	axial aerofoil	5830	10	10	3	380/3/50
02-06-00748	RF.20	A	axial aerofoil	2870	10	10	1.5	380/3/50
02-06-00749	RF.21	A	axial aerofoil	4280	10	6	1.5	380/3/50
02-06-00750	RF.22	A	axial aerofoil	2500	10	7	1	380/3/50
02-06-00751	RF.23	A	axial aerofoil	5000	10	7	3	380/3/50
02-06-00752	EX.6	A"- ground	axial wall mounted	1200	10	5	0.3	1/220/50
02-06-00753	EX.7	A"- ground	axial wall mounted	2400	10	5	0.6	1/220/50
02-06-00754	EX.8	A"- ground	axial wall mounted	450	10	3.5	0.2	1/220/50
02-06-00755	EX.9	A"- ground	axial wall mounted	700	10	3	0.2	1/220/50
02-06-00756	EX.10	A"- ground	axial wall mounted	3400	10	6	0.6	1/220/50
02-06-00757	EX.11	A"- ground	axial wall mounted	1900	10	4	0.4	1/220/50
02-06-00758	EX.1	C1	propellen	2550	10	4	0.2	1/220/50
02-06-00759	EX.2	C2	propellen	1100	10	0	0.1	1/220/50
02-06-00760	EX.3	A"	propellen	850	10	3	0.1	1/220/50
02-06-00761	EX.5	doct	propellen	1000	10	0	0.08	1/220/50
02-06-00762	EX.4	general	propellen	500	80	0	0.07	1/220/50
ROOF EXTRACTOR SCHEDULE								
02-06-00763	RE-5	A"-first	roof extrachter	1600	200	8	0.5	220/1/50
02-06-00764	RE-6	A"-first	roof extrachter	500	200	5	0.2	220/1/50
02-06-00765	RE-25	A"- ground	roof extrachter	1800	200	8	0.5	220/1/50
02-06-00766	RE-26	A"- ground	roof extrachter	700	200	5	0.4	220/1/50
02-06-00767	RE-27	A"-first	roof extrachter	1300	200	5	0.4	220/1/50
02-06-00768	RE-36	A"-first	roof extrachter	500	200	3	0.1	220/1/50
02-06-00769	RE-17	B- ground	roof extrachter	300	200	5	0.2	220/1/50
02-06-00770	RE-18	B- ground	roof extrachter	1200	200	15	2	3/380/50

02-06-00771	RE-19	B-ground	roof extrachter	3400	200	12	2	3/380/50
02-06-00772	RE-20	B-ground	roof extrachter	2210	200	12	2	3/380/50
02-06-00773	RE-21	B-ground	roof extrachter	1530	200	10	2	1/220/50
02-06-00774	RE-22	B-ground	roof extrachter	1020	200	8	0.7	1/220/50
02-06-00775	RE-23	A"-ground	roof extrachter	2430	200	7	0.7	1/220/50
02-06-00776	RE-35	A"-ground	roof extrachter	1000	200	6	0.7	1/220/50
02-06-00777	RE-34	A"-ground	roof extrachter	500	200	5	0.5	1/220/50
02-06-00778	battery charger							
	24 VDC/ UP TO 100 AMP 12 VDC/20 A 110 VDC/60A (12 - 96) VDC/10A variable (12-48)V / UP to 60 A							
02-06-00779	kerosene refrigertor 13ft							
02-06-00780	kerosene refrigertor 16ft							
02-06-00781	telephone exchange system							
	capacity :- 50 line							
02-06-00782	water treatment plans							
	first :plan componemts							
	1- primary water tank (1m ³)							
	2- duplex primary water pumps (6m ³ /h,2.5bar							
	3-pirmary filters (25u)							
	4-duplex water softeners (cataionic,5m ³ /h)							
	5-seconddry filters (5u)							
	6-duplex revers osmosis units (750L/hr)							
	7-stainless steel final tanks 1.5m ³							
	8-duplex finaly water pumps (6m ³ /h , 2.5 bar)							
	9-distillation water electrical system (750L/hr)							
	second:special conditions							
	1-seller should install , operate and check the plant							
	2-seller should supply 5 - years spare parts							
	3- seller should supply operation and maintenance catologes							
	4- seller should train the technical staff during installation and intiol start-up in site and factory							
02-06-00783	fire water pump							
	typ	power	REV sec	suction MM	dishiarge MM	capacity L.S	head M	
	horizontal	3	1500	73.2	73.2	5 L.S	15m	
02-06-00784	water pump for tank							
	typ	power	REV sec	suction MM	dishiarge MM	capacity L.S	head M	
	horizontal	0.75	1500	24.4	24.4	1.5 L.S	15m	
	electrical distribution							

	item	no. of phases	no. of polese	voltage	amper
02-06-00785	circuit breaker	3	4	380V	60A
02-06-00786	contractor		4	380v	60A-40A
02-06-00787	over load		3	380v	60A-40A
02-06-00788	switch			380v	
02-06-00789	oxygen supply station and equipment				
02-06-00790	flometer oxygen center : adapter				
02-06-00791	telephone instrument				
	cross bar exchanges				
fan coil unit					
	No. of fan	No. of motor	type of fan coil unit	water temp.	capacity (ton)
02-06-00792	2	1	chiding horizontal	90	20
02-06-00793	21	21	chiding horizontal	20)	(1/4)
02-06-00794	2	1	chiding horizontal	(8 - 12)	(2-3)
02-06-00795	2	1	chiding horizontal	-	1
02-06-00796	motor control board				
	protection devises , the power of the motor as bellow				
	3.5KW				
	4.5KW				
	5.5KW				
	15KW				
	11.5KW				
	55KW				
	75KW				
	22KW				
	30KW				
02-06-00797	briller type writer				
	german type (portable)				
02-06-00798	record cassette japanese from (60) minate				
02-06-00799	record cassette (with out radio) japanese origin or european origin				
02-06-00800	full set of kits for repairingmaintainins equipment (microelectronic equipment) hearing aids				
02-06-00801	computer screen for weak resion person (weak sighted)				
02-06-00802	duplicator recorder cassette				
02-06-00803	electrical fitting				
	required matrial	power	voltage	size	
	fluoresent	35W	220V	TLD 4x35	
02-06-00804	chilled water pump				
	kw	r.p.m	Q L/S	Hm	QTY
	4	1500	41	7.5	
	5.5	1500	20	20	
	11	1500	27	35	
	15	1500	30	30	
	22	1500	65	24	
	30	1500	42	42	
	20	3000	45	24	
02-06-00805	water pump forsenitary (hot water)				
	kw	r.p.m	Q L/S	Hm	
	3	3000	8.3	32	
	5.5	1500	7	35	
	11	3000	5.5	50	
02-06-00806	water pump for tank				
	kw	r.p.m	Q L/S	Hm	

0.75	3000	1.5	60
3	1500	5	30
5.5	1500	10	30
7.5	1500	40	20
15	1500	16.6	44
22	1450	28	40
7.5	3000	1.25	85

02-06-00807	<p>1) Galvanized Steel Pipes And Fittings Galvanized steel pipes and fitting conforming to BS 1387 or equivalent with 10 bar working pressure, all joints Flange shall be conforming to B.S 4504 part 1. 1-1) Piping:- O 15 mm (6m length /piece) O 20 mm O 25 mm O 32 mm O 40 mm O 50 mm O 65 mm O 75 mm O 100 mm 1-2) Ditto:- but with 15 bar working pressure O 100 mm (6m length / piece) O 150 mm</p>		
02-06-00808	<p>2) Copper Pipes And Fittings</p> <p>2-1) Copper tubes and compression or capillary fittings to BS 2871 part 1 table x O 10 mm O 15 mm O 22 mm O 28 mm O 35 mm O 42 mm O 54 mm O 67 mm O 76.1 mm O 108 mm O 159 mm 2-2) Ditto:- but to BS 2871 part 1 table T with fittings O 35 mm O 42 mm O 54 mm O 67 mm O 76.1 mm O 108 mm</p>		
02-06-00809	<p>3) Ductile Iron Pipe And Fittings Ductile iron pipes and fittings according to BS 4772 jointing should be flanged type with rubber gasket with 15 O 75 mm (6 m length / piece) O 100 mm O 125 mm O 150 mm O 200 mm O 250 mm O 300 mm O 350 mm O 400 mm</p>		

02-06-00810	<p>4) Cast Iron Pipes And Fittings</p> <p>4-1) Socketless cast iron pipes and fittings in accordance with BS 437 or equivalent for drain pipes and fittings complete with coupling and</p> <ul style="list-style-type: none"> O 50 mm (3m length / piece) O 75 mm O 100 mm O 150 mm O 200 mm O 250 mm O 300 mm <p>4-2) Ditto, but conform to BS 416 for soil, waste and ventilation</p> <ul style="list-style-type: none"> O 50 mm (3m length / piece) O 75 mm O 100 mm O 150 mm O 200 mm <p>4-3) Ditto, but conform to BS 460 for roof drainage</p> <ul style="list-style-type: none"> O 75 mm (3m length / piece) O 100 mm O 150 mm <p>4-4) Ditto, but for roof outlets</p> <ul style="list-style-type: none"> - vertical type <ul style="list-style-type: none"> O 75 mm O 100 mm O 150 mm - horizontal type <ul style="list-style-type: none"> O 75 mm 		
02-06-00811	<p>5) Sectional Pressed Steel Tanks</p> <p>Sectional pressed steel tanks shall be consists of (1x1)m dimensions galvanized plates modular or The tank should be provided with all necessary accessories such as floats ventilators, manhole Strip jointing must be provided for all joints.</p> <p>5-1) Pressed steel tank of 100 m³</p> <p>5-2) Pressed steel tank of 280 m³</p>		
02-06-00812	<p>6) Water Service Booster Pump Set</p> <p>6-1) Three centrifugal pumps, direct coupled, end suction type arranged to run as two duty/one standby. The pumps have the following specifications: Q= 15m³/hr - H= 65m Casing:- cast iron Impeller:- bronze shaft:- stainless steel Seal:- mechanical Insulation:- class F IP:- 54 suitable for 380V/ 3pH/ 50Hz</p> <p>6-2) Two pneumatic pressure vessel of 2m³ capacity and 10 bar working pressure. complete with oil free compressor</p> <p>6-3) All necessary accessories such as isolating valves on suction and discharge, non return valves, pressure and flow gauges, pressure</p> <p>6-4) Control panel</p> <p>The whole assembly shall be mounted on a purpose mode base from complete with steel</p>		
02-06-00813	<p>7) Fire Fighting Pumps Set (Wetriser)</p>		

	<p>7-1) Ditto, as item 6-1, but two multistage pumps (horizontal type, one duty / one stand by) Q= 90 m³/hr H= 90M</p> <p>7-2) Ditto, as item 6-1, but one pump multistage vertical type with Q= 10m³/hr H= 90M (as Jockey pump)</p> <p>7-3) Ditto, as item 6-3</p> <p>7-4) Ditto as item 6-4</p>		
02-06-00814	<p>8) Fire Fighting Pumps Set (Hose Reel) Ditto, as item (7), but without providing Jockey pump. Q= 8m³/hr - H=75m</p>		
02-06-00815	<p>9) Drainage Submersible Pumps Set Fully automatic drainage pump set, comprises of two pumps, non clogging type, motor squirrelcage, 3pH with Casing:- cast iron Impeller:- cast iron shaft:- stainless steel Seal:- mechanical 9-1) Q= 25m³/hr - H=10M 9-2) Q= 20m³/hr - H=12M 9-3) Q= 15m³/hr - H=12M 9-4) Q= 10m³/hr - H= 10M 9-5) Q= 5m³/hr - H=12M</p>		
02-06-00816	<p>10) Sewage Submersible Pumps Ditto for sewage submersible pumps: 10-1) 20m³/hr - H=10M 10-2) 10m³/hr - H=10M 10-3) 5m³/hr - H=12M 10-4) 3m³/hr - H=12M</p>		
02-06-00817	<p>11) Circulating Pumps Units Electrical inline circulator pumps with vairable velocities. Motor of non-over loading characteristics Q= 5m³/hr - H=12</p>		
02-06-00818	<p>12) Make-up Boosting Pumps Set(Cooling Tower) Ditto as item 6 but with the following specification:- Q= 20m³/hr H= 35M Complete with two diaphragm pressure vessel of capacity 500 liter per each.</p>		
02-06-00819	<p>13) Water Softener Fully automatic duplex softener complete with necessary accessories such as piping, valves, flow meters, Flow rate= 20m³/hr Inlet pressure= 1.5bar working pressure= 10bar</p>		
02-06-00820	<p>14) Heavy Duty Filters Fully automatic packaged unit high rate muliti-layered sand filters complete with main operating 14-1) Flow rate 30 m³/hr 14-2) Flow rate 60 m³/hr</p>		
02-06-00821	<p>15) Actived carbon Filters Ditto , but with activated carbon beds with 10 bar working pressure 15-1) Flow rate 25 m³/hr 15-2) Flow rate 50 m³/hr</p>		
02-06-00822	<p>16) Cast iron adaptor 16-1) Cast iron (mentioned in item 4) adaptor to be connected with upvc pipes conform to BS 4514 50 mm 75 mm 100 mm 150 mm 200 mm 16-2) Ditto but be connected with pvc pipes</p>		

	50 mm 75 mm 100 mm 150 mm		
02-06-00823	17) Flexible Hose 17-1) Rubber flexible hose used for connection between sanitary fixture and feeding water pipes :- working pressure 3.5 bar diam 15 mm 17-2) Ditto, but copper hose working pressure 7 bar diam 15 mm		
02-06-00824	18) Sanitary Fixtures Vitrus china (or equivelant) sanitary fixtures of white colour .All fixtures shall be of the best quality 18-1) Eastern style we (100 mm s trap) supplied with vitrus china cistern of 14 lit capacity complete 18-2) Ditto , but "P" trap 18-3) Ditto , but westeren style we supplied with cast iron cistern of 14 lit-capacity complete with 18-4) Ditto ,but wash basin complete with vitrus china stands, shelves and soap trys.All the 25mm chromium bottle (or"p") trap 15mm chromium plated mixer and 3.5 bar resisting pressure 18-5) Ditto ,but bedit complete with:- - 40 mm chromium plated bottle trap (or 'P') -15 mm chromium mixer and 3.5 bar resisting pressure. 18-6) Cast iron shower tray , complete with 15 mm chromium plated mixer with 15 mm flexible - Tray size 800x800 18-7) Ditto, but bath tub , complete with 15 mm chromium mixer with 15 chromium tube with head shower .The bath shall be provided with 18-8) Ditto as 18-5, but for urinal complete with - 9 lit vitrus china automatic cisteren complete with flushing pipe - 32 mm chromium plated bottle trap ('p' trap) - partitions		
02-06-00825	19) Grease+B778+B753 Trap+B742+B726 Cast iron grease trap with 100 MM mm outlet with access at ground level, supplied with single seal cover and		
02-06-00826	20) Covers and Frames 20-1) Medium duty double sealed cast iron cover and frames with the following size : REF! C25525 mm - 600 x 450 mm - 900 x 600 mm 20-2) Ditto, but heavy duty - Diam 550 mm 20-3) Ditto, but heavy medium grating and frames 600 x 450 20-4) Ditto, but for Hydrant cover and frame 500 x 350 20-5) Ditto, but special purpose covers and frames have a single seal and supplied with 4 brass The top is recessed for filling to material match the surrounding surfaces. 20-6) Ditto, but roadway gratings and frames 500 x 350 20-7) Ditto, but heavy duty cast iron channel grating , supplied with lugs cast at 30 cm centers. Size 100 x 30 cm		
02-06-00827	21) Pillar Fire Hydrant 21-1) A pillar fire hydrant consists of a body equipped with "3" nozzles , one forward 100 mm and 21-2) Ditto, but consists of 2 nozzels 80 mm forward nozzel and 65 mm side way nozzel 21-3) Ditto , but fire and washing hydrant consists of iron body . The box enclosing on outlet nozzel 80 mm hydrant 65mm nozzel		
02-06-00828	22) Hose Real & Wet Riser / Cabinet 22-1) Hose real cabinet accomodates a manually or automatically operated swinging hose reel Door have right opening and swing through a full 180 :		

	<p>Size :- 1350 x 810 x 355 mm Construction :- steel . Door panel shall be provided with stainless steel finger panel Capacity :- 30 x 19 mm dia Nozzle :- jet (hose reel) Pressure:- max. operation pressure 10 bar</p>		
	<p>22-2) Ditto, swinging open wall hose reel Diam:- 560 mm Overall height:- 610 mm Width:- 250 mm</p>		
02-06-00829	<p><u>23) Dimener lized water</u> Full automatic , Duplex Dimenerlizer complete with necessary accessories such as piping , regulating valves ,valves , flow meters , pressure gauges complete with control paneletc. - flow meter 25 m3/hr - inlet pressure 1.5 bar - working presure 10 bar</p>		
02-06-00830	<p><u>24) Distilled Water</u> Ditto , but Duplex Distiller , but of flow rate 20 m3/hr</p>		
02-06-00831	<p><u>Centrifugal Water Chiller</u> <u>Type</u> - Centrifugal , water cooled <u>Compressor and motor</u> The compressor - motor combination shall be Hermatic construction complete with starter and capacitor for power factor correction .The motor power is 3-phase 380 volt, 50 HZ with main power factor of o.91 at full load <u>Cooler and Condenser</u> Cooler and condenser shall be shell and tube designed for (10) atm water side working pressure <u>Control Panel</u> Automatic control panel shall be electronic type including all safety devices. <u>Evaporator Data</u> Fouling factor =0.0002 m2.hr.C'/Kcal Ent. Water temp .=11.6C' Leav. Water temp .=6 C' Max. water pressure drop =6 M.water Gauge <u>Condenser Data</u> Fouling factor= 0.0004 m3.hr.C'/kcal Ent. Water Temp = 29.4 C' Leav. Water Temp =35 C' Max. water pressure drop =7 M.water Gauge Capacity 1200 000 kcal/hr (400 ton)</p>		
02-06-00832	<p><u>Hot Water Boiler</u> <u>Type</u> IN _LINE Electric <u>Tank</u> shall be constructed from low carbon steel - working pressure 7.5 bar</p>		

	<u>Heating</u> Elements shall be of immersion type copper sheath of 11.6 watt/cm2 max.density <u>Control</u> proportional temperature control with multi - step control complete with control board and all safety devices capacity 650 kw		
02-06-00833	<u>Pumps</u> <u>Type</u> End - section centrifugal oase mounted , direct coupled <u>Impeller Material</u> Bronze Shaft material stainless steel seal -Mechanical <u>Motor</u> squirrel cage, drip proof type 1450 R.P.M <u>Base Material</u> cast iron or welded steel chiled water pump capacity 61 L/S Head 45 m Hot water pump capacity 14 L/S Head 42 m Condenser water pump capacity 76 - L/S Head 18 m		
02-06-00834	<u>Cooling Tower</u> <u>Type- outdoor</u> forced draft <u>casino - hot dip</u> galvanized steel of min thickness 1.6 mm <u>Lowes . eliminators</u> and air inlet screen are hot dip galvanized steel Full: shall be polyvinal <u>Basin-</u> shall be hot dip galvanized steel of min - thickness 3.5 mm <u>Water distribution</u> shall be galvanized steel pipes with bronze non - clog spray nozzles <u>Motors</u> Outdoor use with class " F" insulation Electric power 3 phase / 380v/50HZ <u>Water Temp</u> IN- 35 C' out 29.4 C' <u>Out door wet bulb</u> temp- 27 C' Heat Rejection Capacity 1500 000 K cal/ HR		
02-06-00835	<u>Roof Top Packaged</u> A/C unit - Air Cooled Max ambient outdoor working temp -52C' Entering Air temp to condenser -46C'		

	Unit shall be complete with filter thermostat Capacity 69000 kcal/hr Capacity 56000 kcal/hr Capacity 45000 kcal / hr Capacity 33000Kcal / hr		
02-06-00836	Roof Ventilator Horizontal discharge Power 400v/3ph/50 hz Unit shall be complete with back draught shutter, bird guard local isolating switch and speed control External static pressure 6mm .W.G Capacity 1200 m3/hr Capacity 2000 m3/hr Capacity 3000 m3 /hr Capacity 4000 m3/hr		
02-06-00837	Supply Air Linear slot diffuser Diffuser shall be constructed from Aluminum natural colour slot width 19mm integral volume control damper,fully adjustable from the face of the diffuser complete with air deflection blade+B400s,mounting bracket. A) 3 SLOT B) 4 SLOT C) 5 SLOT		
02-06-00838	Supply Air square diffuser alumin. construction complete with volume control damper of opposed blade type A) size (neck)mm 225x225 B) 300x 300 C)375 x 375		
02-06-00839	Supply Air Re+B224gister aluminum construction with volume control damper. adjustable front horizontal bars and rear vertical adjus. bars neck size (B x H) mm 400 x 150 500 x 150 600 x 150 700 x 150 800 x 200 900 x 200		
02-06-00840	Exhaust Air Valve shall be aluminum white colour complete with counter frame nominal diameter mm Diam. 100 Diam. 150		
02-06-00841	Piping Black steel class B,schedule 40,with 10.5 Kg/cm2, seamless with fittings.B432 pipe size(mm diam.) 300 250 200 150		

	125 100 80 65 50 40 32 25 20 15										
02-06-00842	<u>VALES</u> cast iron gate valve with flanges 10.5 kg/cm2 250 mm 200 mm 150 mm 125 mm 100 mm 80 mm 65mm Bronze gate valve serewed end- non-rising stem 50 mm 40mm 32 mm 25mm 20 mm 15 mm										
02-06-00843	<u>Galvanized sheet steel</u> Galvanized sheet steel (duct moterial) U.S steel gouge 18 20 22 24										
02-06-00844	<u>Duct thermal insulation</u> fiber glass.flexible blanket type.25mm thick with vapour barrier consisting of 0.05mm aluminium : foil										
02-06-00845	<u>Pipe insulation</u> sectional fibre glass with aluminum density of 48 kg/m3, factor applied vapour barrier jacket of minimum 0.05 insulation nominal thickness <table border="0"> <tr> <td><u>Bore(mm)</u></td> <td><u>mm</u></td> </tr> <tr> <td>up to 65</td> <td>25</td> </tr> <tr> <td>80-150</td> <td>40</td> </tr> <tr> <td>200 and larger</td> <td>50</td> </tr> </table> size (mm diam.) 300 250 200 150 125 100 80 65 50 40 32 25	<u>Bore(mm)</u>	<u>mm</u>	up to 65	25	80-150	40	200 and larger	50		
<u>Bore(mm)</u>	<u>mm</u>										
up to 65	25										
80-150	40										
200 and larger	50										

	20		
	15		
	CABLES & WIRES		
02-06-00846	<p>A) Power cables: - Low tension cables stranded copper conductors, PVC insulated, all cores colour coded PVC inner sheath, high 600/1000 V impactPVC outer sheath black, rated voltage 600/1000vgenerally to BS 6346 or to VDE 0271 NYY-J 0.9.86.</p> <p>A-1) 4 x 2.5 mm² NYY-J A-2) 4 x 4 mm² NYY-J A-3) 4 x 6 mm² NYY-J A-4) 4 x 10 mm² NYY-J A-5) 4 x 16 mm² NYY-J A-6) 3 x 25 + 16 mm² NYY-J A-7) 3 x 35 + 16 mm² NYY-J A-8) 3 x 50 + 25 mm² NYY-J A-9) 3 x 95 + 50 mm² NYY-J A-10) 3 x 120 + 70 mm² NYY-J A-11) 3 x 150 + 70 mm² NYY-J A-12) 3 x 240 + 120 mm² NYY-J A-13) 3 x 300 + 150 mm² NYY-J A-14) 4 x 6 mm² PVC/SWA/PVC A-15) 4 x 10 mm² PVC/SWA/PVC A-16) 4 x 16 mm² PVC/SWA/PVC A-17) 3 x 25 + 16 mm² PVC/SWA/PVC A-18) 3 x 35 +16 mm² PVC/SWA/PVC A-19) 3 x 50 + 25 mm² PVC/SWA/PVC A-20) 3 x 70 + 35 mm² PVC/SWA/PVC A-21) 3 x 70 + 35 mm² NYY-J</p>		
02-06-00847	<p>B) Wires: Single wires, copper stranded core PVC insulated, rated 70 permanent and160c short circuit,rated voltage 450/750v generally to BS 6004 or to vde 0250 type nya Packing: 100 yds each coil in specified. colours</p> <p>B-1 2.5 mm² Red Black Blue Yellow Grn/Ylw B-2 1.5 mm² Red Black Blue Yellow Grn/Ylw B-3 4mm² Red Black Blue</p>		

	<p>Yellow Grn/Ylw B-4 6mm² Red Black Blue Yellow Grn/Ylw</p>		
02-06-00848	<p><u>Telephone Cables & Accessories</u> A) Telephone cables: - PVC/Bare copper conductor 0.6mm/tinned /PVC A-1) 10 pair. A-2) 20 pair. A-3) 30 pair. Packing: on wooden drums.</p>		
	<p><u>B) Accessories: -</u> Terminal Box-Flush Mounted Steel Grey / rust proof + Terminal block. B-1) 10 pair. B-2) 20 pair. B-3) 30 pair. B-4) 100 pair.</p>		
02-06-00849	<p><u>Conduit & Accessories</u> A) Size 20mm: - A-1 Hot dip galvanized heavy gauge steel conduit, screwed both ends, one coupler, 3.75m long to coupler, 3.75m long to BS 4568. A-2 Galvanized circular malleable iron junction boxes. Terminal Through Angle Tee Intersection B) Size 25mm: - B-1 Hot dip galvanized heavy gauge steel conduit, screwed both ends, one coupler, 3.75m long to BS 4568. B-2 Galvanized circular malleable iron junction boxes. Terminal Through Angle Tee Intersection C) Draw in steel tape: - C-1 20m length C-2 30m length D) Complete set comprising stock dies & guides: - D-1 20+25 mm</p>		
02-06-00850	<p><u>A -Panel distribution boards:</u> Three-phase and neutral distribution boards voltage 415v AC 50 HZ BS 5486 IP230 with door and lock to fixed in the wall (flush type) with</p>		

	<p>Earthling terminal bus bars and with A-1 Distribution board 6 triple pole MCB ways Main in coming 100A MCB three phase Single poles MCB 15A.10 .NOS Single poles MCB 30A 8Nos. A-2 Distribution board 8 triple pole MCB ways- Main in coming 100A MCB three phase Single poles MCB 15A 15 NOS. Single poles MCB 30A 9NOS. A-3 distribution bord 12 triple pole mcb warpmain Incoming 160 mcb three phase single pole mcb 15 A 20 Nos single pole mcb 30 A 16 Nos A-4 SPARES single pole mcb 15 A single pole mcb 30 A</p>		
02-06-00851	<p><u>Switches and Sockets</u> A- SWITCHES Switches 250v 15 or 20 amp fluch mounting-white cover A-1 one way 1 gang A-2 two way 1 gang A-3 one way 2 gang A-4 one way 2 gang A-5 one way 3 gang A-6 one way 4 gang B-SWITCHES SOCKETS 3 pin Rectangular bs 2814- 13 or 15 Amp Fluch mounting-white cover Bs 1863 B-1 3pin rectangulaectan-13 Amp B-2 3pin rectangulaectan-Duplex13 Amp B-3 3pin rectangulaectan-15 Amp B-4 2Amp Telephone socket B-5 T.Vsocket single out let</p>		
02-06-00852	<p><u>Fire Alarm System</u> A-1) central Indication and control panel suitable for 6 fire zones with fire alarm bell complete with all safety device and outomatic charger including nickel cadmium battery with connection to the central Indicating and control board A-2)Manual call station break glass units- surface mounted- red coulour the glasses can be supplied in english language A-3) complete with amounting base outomatic smoke detector off white coulour withvisual of an alarm is given by red light diode clearlyn visble on the detector casing ambient temp range (0c- 50c) A-4)complete with a amounting base amount- ing heat detector with visual Indication of an alarm is given by red- light diode, clearly visble on detector with base off</p>		

	white colour ambient range (0c- 40c) A-5) Indoor fire alarm bell 24v.Ds black poly-carbonete base.6" high reliability, long running life and easy installation,nomaintenance in normal use.													
02-06-00853	Light fittings: - NOTE: Below mentioned fluorescent fittings . are security quick startPower factor not less than 0.9 Lagging 240 volt-AC 50HZ. A-1) 2 x 40w fluorescent fitting with Lamella louver -recessed mouting A-2) 2 x 40w fluorescent fitting with Lamella . louvre-Surface mounting A-3) 1 x 40w fluorescent fitting with Lamella lovre-Recessed mounting. A-4) 1 x 40w fluorescent fitting with Opal Diffuser-Surface mounting. A-5) 2 x 20w fluorescent light fitting with Opal Diffuser-Surface mounting. A-6)4 x 20w fluorescent light fitting with Opal Diffuser-Surface mounting. A-7)60 X 60 cm Fluorescent light with lamela diffuser													
02-06-00854	Aluminum false ceiling closed type with all fixing accessories 30 x 60 cms 30 x120 cms 60 x 60 cms 10 x 360 cms suspension accessories and angle bead													
02--06-00855	Door closers Yale type or equivalent with all accessories													
02--06-00856	Expansion joint beads made of stainless steel, 0.5mm thick													
	Floor type													
	Wall type													
	Ceiling type													
02-06-00857	Special doors frames and door leaves different dimensions,with door handles (cylinder and bath).													
02-06-00858	Anti static Vinyl tiles 120cm width, 3.5 mm thickness, with welding rods and fixing materials.													
02-06-00859	Ceramic tiles 10 x 10 cm, 6mm thick, non-slip ceramic													
02-06-00860	Epoxy paints for walls													
02-06-00861	Metal Lath 60 x 240 cm, weight 1.7 kg/m2													
02-06-00862	diesel pump													
	<table border="1"> <thead> <tr> <th>HP</th> <th>r.p.m</th> <th>Q m³/hr</th> <th>Hm</th> <th></th> </tr> </thead> <tbody> <tr> <td>60-75</td> <td>1450</td> <td>200</td> <td>60</td> <td>100</td> </tr> </tbody> </table>	HP	r.p.m	Q m ³ /hr	Hm		60-75	1450	200	60	100			
HP	r.p.m	Q m ³ /hr	Hm											
60-75	1450	200	60	100										
02-06-00863	electrical pump													
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HP	r.p.m	Q m ³ /hr	Hm											
60-75	1450	200	60	100										
02-06-00864	NON-ION IC WATER SYSTEM 1-capacity:-3-4 m ³ /hr 2-conductivity (mixing Of + and -) :- (0.1 - 0.5)MS 3-raw water input main components 1-primary water tank (1m ³) 2-two duplex primary water pumps (6m ³ /hr , 2.5bar) 3-three primary filters (25 micron)													

4-four duplex water softener (cationic , 5m³/hr)
 5-secondary filters (5micron)
 6-two duplex mixed bed deionizer (3-4m³/hr)

air handling unit (AHU)														
	type of filter	power (KW)	no of motor	type of air (AHU)		connecti size on	air flow		water flow		water temp		capacity	qty
				other type	in-line		for cooling	for heating	for coolin g	for heatin g	for cooli ng	for heating		
02-06-00865	type	15	1	_	in line	2.5m	8 12	8 12	102	45.5	8 12	8 12	350	
02-06-00866	type	17 5.5 10	1 14	_	in line	in50m out 50m m	29153	29153	3581	1750	7.2 5	82.2 30 - 50	5000	
02-06-00867	type	4.1 11	1	_	in line	62.5	5500/ 2200	5500/ 2200	13	13	9 11	9 12	50	
02-06-00868	type	3.75	1	_	in line	in36m out 36m m	11864	11864	15.12	5.34	7.3	82.2	5000	
02-06-00869	type	7.5	1	_	in line	in50m out 50m m	26271	26271	21.36	6	7.2	82.2	5000	
02-06-00870	type	7.5	1	_	in line	in36m out 36m m	22881	22881	21.12	7.32	7.2	82.2	5000	
02-06-00871	type	7.5	1	_	in line	in50m out 50m m	23220	23220	39.48	17.96	7.2	82.2	5000	
02-06-00872	type	9.3	1	_	in line	in50m out 50m m	25424	25424	51.7	21	7.2	82.2	5000	
02-06-00873	type	5.625	1	_	in line	in50m out 50m m	15424	15424	31.32	12.81	7.2	82.2	5000	
02-06-00874	type	9.3	1	_	in line	in50m out 50m m	29153	29153	59.5	24.4	7.2	82.2	5000	
02-06-00875	type	2.25	1	_	in line	in50m out 50m m	8485	8485	14.7	7.2	7.2	82.2	5000	
02-06-00876	MZ	7.5	1	_	in-line		30	30	40	40	6 12	82	00 lit/mm	
02-06-00877	normal	10KW	1	_	in-line	2" inch	_	_	_	_	6_12	75-50	40 ton	

02-06-00878		7.5	7	X	_	3inch	X	X	X	X	_7_	80	9500m ^3/hr	
02-06-00879	_	4	1	_		in-line	_	30	30	40	40	_6_	60	72.000 BTU/hr

air handling unit (AHU)

	type of filter	power (KW)	no of motor	type of air (AHU)		conn ecti size on	air flow		water flow		water temp		capacity	
				other type	in-line		for cooling	for heating	for coolin g	for heatin g	for cooli ng	for heating	for coolin g	for heatin g
02-06-00880	No.of AHU 15 N.B.S 35%	18.5	1		in line		32.700 M^3/H	32.700 M63/H	55 L/Mi	07 L/Mi	7C/12C	83/71C	189.55 0	68.20 0
02-06-00881	No.of AHU 19 N.B.S 80%		55	1	in line		64.900 M^3/H	64.900 M^3/H	202L/M	33 L/Mi	7C/12C	83/71C	150.20 0	400.2 00

fan coil unit

	no.of fan	no.of motor	type of fan coil unit		temp. (In-out)	capacity (ton)	qnt.
			ground complete	chiding			
02-06-00882	2	1	ground	_	9_12	2	
02-06-00883	1	1	_	chiding horizontal	70-11c	3ton	
02-06-00884	1	1	ground	_	70-11c	2ton	
02-06-00885	1	1	ground	_	70-11c	2ton	
02-06-00886	1	1	ground	_	70-11c	2ton	
02-06-00887	3	1	10	18	6_12	40ton	
02-06-00888	4	20	10	10	10_12	2ton	
02-06-00889	2	2	ground	_	(5_10)c	2ton	

02-06-00890

cold stor

1-inside temperature (4-16C)
 2-volume 20M^3
 3-the cold store must be supplied with shade to from raining
 4-ambiebient temperature 55C
 and the inside walls made from aluminum sheet 0.6 mm,the out sid and the insid walls injected by
 6-the floor made of jacker plane from aluminum
 7-the door is hinged type
 16C)
 9-the compressor is semi hermetic type
 pressure,thermostat,seloid valve pressure,high-low pressure,thermostat,seloid valve

02-06-00891

refregrater

valume for refregrater 35foot^3
 220V , 50HZ , 1phase
 ferion:- R134
 internal temperature ranging from +2to +6C
 inside and out side material stainless steel
 aolittle/visua/ alarm with battery , low alarm 0C , high alarm +10C
 autamatic defrosting
 out side thermometer or the door
 7 day recorder
 double compressor units for additionel/safety
 removabe shalves inside
 spar parts for 5 years

02-06-00892

water ion exchanger

capacity:-20lit/hr

02-06-00893	machine for sealing bottles of plastic & aluminum caps	
02-06-00894	central oxygen system <i>capacity:- 20 cylinder</i> 1-tow stages (pressure) a-first stage 160 :- 10Kg/cm ² b- second stage 10 :- 4Kg/cm ² right 10 clinder lift 10 :- 4Kg/cm ² control system 24V 2-nitrous system 2 clinder a-first stage 60 - 9Kg/cm ² b- second stage 9 - 4Kg/cm ² control system 24V 3-midical gas normal & stand by compress air oilless 2 5 start Kg/cm ² 7stop Kg/cm ² reducing valv for pressure filter system pressure lin 4Kg/cm ² bottle for air 4-central - vacuum valume line 1-bottle 2-check valve working pressure start pressure (vacum) 300 mmg stop 500 mm /Kg 300 - 500 mm/Kg	
02-06-00895	softener continuos softener supply as following 1-max.flow :- 1m ³ /hr 2-resin - strong cationic resin sodium base 3-power supply 220V or 380V 50HZ	
02-06-00896	high tension switch gear vacum type 11KV input - 420V out put -3ph -800A with complete protection devise	
02-06-00897	softener continuos softener supply as following 1-max.flow :- 1m ³ /hr-cationic resin sodium base 2-power supply 220V 30W 50HZ	
02-06-00898	Absolute filter size:- 505mm X 504mm x 150mm dop - test :- 990997%	
02-06-00899	cold room 3X2 meter	
02-06-00900	PC computer pantum III	
02-06-00901	particle detector present in certain volume of air	
02-06-00902	cold sterilizer sensitive instruments using low temperature hydrogen - peroxide plasma sterilization	
02-06-00903	Table top dry hot air sterilizer	
02-06-00904	table top formation sterilizer	
02-06-00905	Atoclave poruos material 4ft3	
02-06-00906	Plastic seeling machinc (with several role niylon)	

02-06-00907	0.6 /1.2 kv single core cables , with flexible stranded circular copper conductors			
	Nomial cross section area mm2			
	120			
	240			
	300			
	3x50 +25			
02-06-00908	Multy core cables , with flexible stranded copper conductor ,PVC insulated and no. of cond.x cross			
	2x1.5			
	2x2.5			
	2x4			
	2x6			
	4x2.5			
	4x4			
	4x6			
	4x10			
	4x16			
	4x25			
	4x35			
	3x1.5			
	3x2.5			
	3x4			
	3x50 +25			
	3x70 +35			
	3x95 +50			
	3x120 +70			
	3x150 +70			
	3x185 +95			
	3x240 +120			
	3x300+150			
02-06-00909	Multicore cables with stranded copper conductors PVC insulated , steel wire			
	3x35 +16			
	3x50 +25			
	3x70 +35			
	3x95 +50			
	3x150 +70			
	3x185 +95			
	3x240 +120			
	3x300 +150			
02-06-00910	Cable terminals for cable sizes from 10 mm ² to 300 mm ²			
02-06-00911	ELECTRICAL -HYDROLIC TERMINAL PRESS MACHINE			
02-06-00912	MANUAL - HYDROLIC TERMINAL PRESS MACHINE			
02-06-00913	EQUIPPED MOBILE LAB. FOR OCCUPATIONAL HEALTH AND SAFETY			
02-06-0914	EQUIPPED MOBILE LAB. Containing (noise level analyzer vibration analyzer			
02-06-00915	DO for cheking(BOD) , (ultra-dometer)			
	instrument for determination of quantity of the mount of biological oxygen in extracts . Service system			
02-06-00916	electric refrigerator			
02-06-00917	kerosen refrigerator			
02-06-00918	vedio casset + CD			
02-06-00919	colour televison (size : 24 note)			
02-06-00920	telephone instrument			
02-06-00921	refregerated centrifuge			
02-06-00922	refregerated /heating water circulator (-10 TO 100 C)			

02-06-00923	freezer (-70)																	
02-06-00924	refrigerator																	
02-06-00925	microbiological safety cabinet and chemical hood and laminar air flow cabinet																	
02-06-00926	photo copy machine																	
02-06-00927	computer station computer & terminal																	
02-06-00928	cold room																	
02-06-00929	office operator with 100 lines																	
02-06-00930	power amplifier (100W) model :- lbb 1103 (phillips)																	
02-06-00931	air compressor small for aeration of water sample (1-SL) sample volume																	
02-06-00932	liquid nitrogen container of medium size (20 litres capacity)																	
02-06-00933	<p>softener</p> <p>saadam medical city max flow:-90m³/hr max flow:-70m³/hr max flow:-50m³/hr general softener specification dual/duplex system resin:-strong cation epoxy paint, eith manhole at tap. valve:- a main multiport valve ,manual and automatic operation brine tank:-poly then with stainer and loose fit cover operation:- flow counter supplied to intiat regeneration cycles piping :- all piping including salt injection tubing is supplied design row water condition</p> <table border="0"> <tr> <td>total hardness</td> <td>289 to 610 PPM</td> </tr> <tr> <td>calcium</td> <td>84 to 323 PPM</td> </tr> <tr> <td>magnesium</td> <td>205 to 287 PPM</td> </tr> <tr> <td>other cations</td> <td>263 to 675 PPM</td> </tr> <tr> <td>bicarbonate</td> <td>160 to 159 PPM</td> </tr> <tr> <td>chlorides</td> <td>19 to 159 PPM</td> </tr> <tr> <td>total ions</td> <td>263 to 675 PPM</td> </tr> <tr> <td>chlorine</td> <td>1 to 2 cl PPM</td> </tr> </table>	total hardness	289 to 610 PPM	calcium	84 to 323 PPM	magnesium	205 to 287 PPM	other cations	263 to 675 PPM	bicarbonate	160 to 159 PPM	chlorides	19 to 159 PPM	total ions	263 to 675 PPM	chlorine	1 to 2 cl PPM	
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02-06-00934	<p>ELECTRICAL OPERATED DOORS</p> <p>1-electric doors shall be of the type usually used in hospitals. 2-each door shall be supplied and operated by push button. each two double doors to be electrically inter - locked. NO. 8-groups each group (2)double doors system doors with (1.8)mm vision stainless steel panel (2-phase) and for two type 2.3)</p> <p>2-5 double doors opening into operation theater coat (for frame only) with same color as of theater with (1.8)mm stainless steel double glass windows without door frame and with size (1.80 x 2.35)MR the actual size phase) powder coated its color will be main sheel latter and its sizes (1.80 x 2.35)MR powder coated with (2.0)mm stainless steel frame POW. Coated same coated op. Theater door mechanism shall be heavy duty maintenance free each door shall be locked when it is not in use considered and installed all samples and details to be submitted for approval before make and meet in side clear span</p>																	
	air handling unit (AHU)																	

	type of filter	power (KW)	No.of motor	type of (AUH)		coucetton size (in-out)foreach coil	air-flow		water flow		water temp (in-		capaci ty KCA/h	qty.
				other type	in - line		for cooling	for heating	for coolin g	for heatin g	for cooli ng	for heating		
02-06-00935	2-no.meta- lic washable 50mm thiek 35%&bag 90%	9	1	_	in-line mane	_	8500	8500	151	44	7.2 12.7	71.4 82.2	50330	
02-06-00936	2-no.meta- lic washable 50mm thiek 35%&bag 90%	10	2	_	in-line mane	_	10650	10650	245	91	7.2 12.7	71.4 82.2	80900	
02-06-00937	2-no.meta- lic washable 50mm thiek 35%&bag 90%	4	2	_	in-line single zone	_	2000	2000	58	22	7.2 12.7	71.4 82.2	19150	
02-06-00938	2-no metallic washable thich middle effc. F 35% of hepa. F 99.77%	13	2	_	in-lne malti zone	_	8500	8500	130	42	7.2 12.7	71.4 82.2	43050	
02-06-00939	2-no.meta- lic washable type 50mm thich middle effci-f 35% & bag fill 90% effieic	15	1	_	single zone	_	23370	23370	377	133	7.2 12.7	71.4 82.2	125500	
02-06-00940	2-no.meta- lic washable type 50mm thich middle effci-f 35% & bag fill 90% effieic	25	1	_	single zone	_	32790	32790	477.4	150.6	7.2 12.7	71.4 82.2	158940	
02-06-00941	requirements for simplex mobile radio system serve A service organization:- and fixed station within 30 KM radius.(one to be used as spare unit). base station with the mask and all accessories. necessary accessories neccary accessories. 5-15hand uniys with necessary chargers and accessories 6-soare parts with avalue of 10% the total cost of equipment. 7-power supplie for the station and fixed units with U.P.S. 8-appropaiate test eqquipment> training during installation. 10-on job trining should be offered band (148-174MHZ). likewise for the fixed and mobile units. The handheld tx power should 13-warrenty one year from date of operation . 14-two years maintenance after period of warrenty. 15-training operators and technicl staff on factory. 16- 2-complete sets of diagrams and manuals													
	type			head m	capacity L/min	suction m m	P(KW)			QTY				

02-06-00942	sewage submersible pump		22m	400L/min	discharge 100 mm	7.5KW	discharge	
02-06-00943	water pump for sanitary HP2	vertical	15m	50L/min	suction 32m m	0.75KW		
02-06-00944	water pump for sanitary HP3	vertical	20m	100L/min	suction 40m m	1.5kw		
02-06-00945	chemical dosing pump for cooling tower	vertical		10kg/cm2 110cc/min	suction 2inch	30watt	r.p.m= 1300	
02-06-00946	circulating water pump HP	vertical	29.7m	320 L/m		2.2	r.p.m= 1470	
02-06-00947	submersible pump SP		10m	1000L/m	100 mm	3.7	r.p.m= 1500	

02-06-00948	eng camera			quantity (state unit)
	item No.	description		
	1	betacam sp camcorder camera PVW-D 30 PF		
	2	play back adaptor VA-300P		
	3	rechargeable NI - CD battery		
	4	AC adapter AC - 550 CE		
	5	battery case DC - 520		
	6	chest pad CAC - 4		
	7	microphone holder CAC 12		
	8	battery charger BC - 1 wdce		
	9	wireless receiver (complete)		
	10	betacam sp 20 min. metaltape		
	11	betacam SP 30 min. metaltape		
	12	tripod - vision 10 lf complete set		

02-06-00949	A/B roll editing system with DFS - 500 P (digital effects)			quantity (state)
	item No.	complete description of item		
	1	betacam sp recorder		
	2	betacam sp player		
	3	editing control unit		
	4	vtr interface		
	5	serial switcher interface ACE		
	6	B/W data display		
	7	bme switcher		
	8	serial switcher interface ACE		
	9	color monitor		
	10	color monitor		
	11	dubbing cable (12 pin)		
	12	remote control cable		
	13	audio mixer		
	14	audio amplifier		
	15	speaker (3 WAY)		
	16	desk & pack mount metal		
	17	main power output with AC outlet box		
	18	betacam sp player		

02-06-00950	cold storage conditions summer : DBT 45C	
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winter : DBT _ 5C
internal volum not less than 32 cubic meters
alternatorm clock timer furnished to automatically reverse the
system shall operate from single - phase 220V , 50HZ or 3phase , 4wire 380v

02-06-00951

AMBULANCE

PARTITION

COMPARTMENT FULL COVERAGE PANEL MADE OF STURDY

PARTITION WINDOW

WINDOW

PATIENT'S COMPARTMENT

THE PATIENT'S COMPARTMENT IS TO BE FULLY INSULATED.

ROOF HEIGHT

THICKNESS AND REINFORCEMENT.

FLOORING

TYPE OF WOOD WITH ALUMINUM MOLDING.

MEDICINE CABINETS

PARTITIONED INTO ENCLOSED STORAGE CABINETY.

TECHNICIAN SEAT - FRONT

THE PATIENT'S COMPARTMENT.

TECHNICIAN SEAT-REAR

SEAT AT THE FOOT OF THE

INSIDE LIGHTING SYSTEM

TO BE SEPARATED FROM THE TRUCK.

IDENTIFICATION

THE AMBULANCE IS TO BE IDENTIFIED AS FOLLOWS:-

IT IS TO BE PAINTED CLEAR WHITE

CRESCENT IN ARABIC ONE ON EACH SIDE, ONE ON THE

RESUSCITATION EQUIPMENT

SECURED WITHIN THE LEFT WALL CABINETY.

CAPACITY IN STOWAGE CABIN.

PRESSURE REGULATOR WITH GAUGE FLOW METER AND
AND INFANT.

ONE CHILD.

- FOUR OXYGEN CATHETERS, TWO OF EACH NO.10F.

ONE MOUTH TO MOUTH VENTILATION MASK

CYLINDER KEY

OXYGEN FLOW METER /REGULATOR

HUMIDIFIER

PORTABLE OXYGEN KIT

REGULATOR AND SUPPLIES.

RESUSCITATOR COMPLETE WITH CYLINDER.

RESTRAINING STRAP FOR RESUSCITATOR.

SUCTION SYSTEM

DRIVEN PUMP with rechargeable battery

FIRST AID EQUIPMENT

A BOX IS TO BE PROVIDED CONTAINING THE FOLLOWING:-

TWENTY PRE- LOCALIZED PADS

TWELVE COMPRESSIVE BANDAGES

- FOUR 10CM ELASTIC STRIPS.

- SIX GAUZE BANDEAUS, THREE OF 75MM AND THREE OF 150MM.

- TWENTY GAUZE PADS 10CM BY 10CM, INDIVIDUALLY WRAPPED.

- TWO 5CM ANTI-ALLERGIC ROLLS OF ADHESIVE TAPE.

FIFTEEN TONGUE DEPRESSORS INDIVIDUALLY WRAPPED.

- ONE 100 ML BOTTLE CONTAINING CHLOREXIDINE BASE DISINFECTANT.

AIR SPLINTS

ONE SET OF AIR SPLINT FOR EACH OF THE UPPER AND lower LIMBS.

STRETCHER

RESTS WITH SIDE HANDLES, COMPLETE WITH MATTRESS

SPARE STRETCHER

SPREADER BARS AND VINYL COATED NYLON FABRIC.

REAR BUMPER STEP

REAR BUMPER.

BOTTLE HOOKS

HOLD FLUID AND BLOOD TRANSFUSION BOTTLES.

SPARE STRETCHER HOLDER

PROVIDED TO HOLD SPARE STRETCHER WHEN

EXHAUST-VENTILATOR FAN

BE INSTALLED.

REAR BUMPER STEP

REAR BUMPER.

BOTTLE HOOKS

ROOF TO HOLD FLUID AND BLOOD

ANTENNA

AMBULANCE AT THE ROOF.

EQUIPPED WITH RADIO (WIRELESS

SPECIFICATIONS FOR AMBULANCES

BASIC VEHICLE

ENGINE: PETROL ENGINE WATER COOLED .

TRANSMISSION: MANUAL OR AUTOMATIC.

AXLE: 4X4 wheel driver

STEERING :POWER STEERING LEFT HAND DRIVE.

SUSPENSION : HEAVY DUTY.

COOLING SYSTEM: HEAVY DUTY.

ALTERNATOR AND BATTERY.

HEATER FOR BOTH DRIVER AND PATIENT

SIDE DOOR: SIDE DOOR AT THE RIGHT SIDE.

SIDES.

ODOMETER.

MIRRORS: ONE INSIDE and TWO OUTSIDE REAR VIEW.

TIRES :HIGH QUALITY INCLUDING SPARE.

BEACON OF THE FOLLOWING TYPES:

100WATTS OUT-PUT POWER.

LONGITUDINAL A LONG THE WIDTH ON THE FRONT ROOF

COMPARTMENT.

-ACCESSORIES:

AUTO JACK WITH HANDLE and WHEEL WRENCH.

TOOL KIT BAG.

HAZARD WARNING TRIANGLE

FIRE EXTINGUISHER.

FOLLOWING IS TO BE SUBMITTED

-WORKSHOP MANUALS (2 COPIES IN ENGLISH).

-SPARE PARTS CATALOGUES (2 COPIES IN ENGLISH).

LIST ARE TO BE AGREED UPON).

FAST MOVING PARTS for EACH VEHICLE.

- TRAINING FOR 3 ENGINEERS.

optional rquipments schedule ambulance

VACUUM MATTERS WITH CARRYING HANDLES.

PUMP FOR VACUUM MATTRESS

FOLDING STRETCHER

	INFLATABLE SPLINTS, SET OF 4 IN WALLET.	
	ANALGESIC UNIT.	
	NITRONOX CYLINDER (LIGHT WEIGHT)	
	URINAL, MALE.	
	URINAL, FEMALE.	
	ORTHOPEDIC SCOOP STRETCHER	
	BRACKETS FOR SCOOP STRETCHER.	
	HEAPED AND HARDNESS SET FOR SCOOP STRETCHER.	
	ASPIRATOR, MANUAL	
	AMBULANCE CHAIR	
	BRACKET FOR AMBULANCE CHAIR	
	FIRST AID KIT COMPLETE WITH CASE.	
	PENLIGHT	
	BEDPAN	
	ANEROID SPHYGMOMANOMETER	
	STETHOSCOPE.	
	OTOSCOPE.	
	THOUGHT CUT SCISSORS.	
	SEMI AUTOMATIC DEFIBRILLATOR /MONITOR	
	DEFIBRILLATOR /MONITOR	
	ARTERY FORCEPS (SPENCER WELLS)	
	DISSECTING FORCEPS, PLAIN	
	SCISSORS BANDAGE.	
	THERMOMETER	
	NON WOVEN ACRYLIC BLANKET 60"X80" APPROX.	
	CELLAR BLANKET UNBLEACHED 60"X80" APPROX.	
	FOAM PILLOW, PCV COVERED	
	VACUUM FLASK STAINLESS STEEL 1 LITTER.	
	RESTRAINING STRAP FOR VACUUM FLASKS	
	OXYGEN CYLINDER, BULL NOSE (SIZE F)	
	OXYGEN FACE MASK	
	GREEN BUBBLE 30 FOOT ROLL	
02-06-00952	freezer -80 1-horizintal type heavy insulation or vertical type 2-temp . Range 0 - (-80c) 3-double compressor heavy duty with fan cooling system 4-alarm - system 5-thermal - control - system with multi - indicators 6-partion and baskets for samples 7-size 16-20 cubic feet	
02-06-00953	freezer -20 1-horizintal type heavy insulation or vertical type 2-temp . Range 0 - (-80c) 3-single compressor heavy duty with fan cooling system 4-alarm - system 5-thermal - control - system with multi - indicators 6-partion and baskets for samples 7-size 16-20 cubic feet	
02-06-00954	lab - refrigrator 1-14cupic feet type with lock for freezing & refrigrater 2- double door one for freezer (- 10c) & one for refrigrater (4 - 8c) 3- freezer :- parttions 2 or 3 with drawers for freezing samples (_10c) with (D R I N) out let for washing and sterlization 5- heavy duty compressor with fan for cooling purposes the front side	

	<p>7- refrigerator have automatic defrost system 8- 220v/50HZ/ 1 PH 9- R134</p>	
02-06-00955	<p>blood bank cold store inside temp from 1C to 6C 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 : erect aluminum, floor made of heavy gauge anti – slip aluminum weather proof coating to make it suitable for out-door installation temperature in the specified ambient condition but shall be not less with keys. Door handle can be operated from inside & outside. Low on top of it. Shape size & material of shade shall be suggested by the 7- external dial thermometer must be provided 8- Audio & visual alarm for high temperature must be fitted opens 10- air curtain by the door operates automatically when door opens sides shelves shall be grid type accommodating heavy blood bank 12- (7 days recorder B) .REFRIGERATION SYSTEM being capable to maintain the required internal temp. at the C) Electrical system phase , 220V, 50 HZ, supply or from 3 D) Spare parts 5 years</p>	
02-06-00956	Developed operating washing tube	
02-06-00957	<p>Pill or Pill with accessories and read - write CD - drive printer EPSON LQ - 2180 laser - printer 10 L page printer U.P.S regulator power 10AMP regulator power 20AMP white board over head projector sidelater disk 3.5 laser - disk</p>	
02-06-00958	<p>intercom system with special facilities and 100 or 50 slave station, the system _ installation the systems on sites _ one year warranty and two year maintenance _ complete sets of drawing and manual and catalogues _ special tool kit for each system _ training course 4 engineers for 3 weeks , on factory _ spare parts for two years</p>	
02-06-00959	<p>clock system central clock system contains:- a- master clock b- single face slave clock c- double face slave clock d- special clock for operating theater</p>	

c-time machine
of manuals and catalogies and drawing spare parts for two years
training coerse on factory for 3 engineers for 3 weeks

02-06-00960 electrical switches and souket
1-single switch 220V /up to 15A - B.5
2-double switch 220V / up to 15 A - B.5
3-frible switch 220V / up to 15 A - B.5
4-four way switch 220V / up to 15 A - B.5
5- mercury switch 220V / up to 15 A - B.5
6- electrecal out let 220220V / up to 13 A - B.5 13A - B.S
7- electrecal out let 220220V / up to 15 A - B.5 13A - B.S

02-06-00961 over loads

NO. of poles	NO. of phaes	current A	Voltage	Qty
3P	3Q	0 - 35	220V	
3P	3Q	5 40	220V	
3P	3Q	3 60	380V	
3P	3Q	80 -200	380V	
3P	3Q	30 - 90	380V	
3P	3Q	20 - 80	380V	
3P	3Q	2 15	380V	
3P	3Q	200-500		

02-06-00962 contactors

NO. of poles	NO. of phaes	No. of auxiliang contact	Voltage of coil	Voltage	current A
10	3Q	(2no , 2n	220V	400V	10A
10	3Q	(2no , 2n	220V	400V	16A
10	3Q	(2no , 2n	220V	400V	20A
10	3Q	(2no , 2n	220V	400V	25A
10	3Q	(2no , 2n	220V	400V	30A
10	3Q	(2no , 2n	220V	400V	40A
10	3Q	(2no , 2n	220V	400V	50A
10	3Q	(2no , 2n	220V	400V	60A
10	3Q	(2no , 2n	220V	400V	80A
10	3Q	(2no , 2n	220V	400V	100A
10	3Q	(2no , 2n	220V	400V	250A
10	3Q	(2no , 2n	220V	400V	400A
10	3Q	(2no , 2n	220V	400V	1000A

02-06-00963 automatic sliver recofery
power 220v , 50hz single phase
capacity (20liter - 40liter)
not more or less than

02-06-00964 sound and interpretation system
to bring an immediate translation of 4 foreign language and thirth floor language ranging from 0C to 50C and relative humidity of up to 70%
thebasic constituents of the system:-
1-central control desk
microphones,has been specially designed for ease of operation.housed in an volume control. These enable the controller to accurately balance the difference separately.
individually.
volume control adjusting the sound level. Tow language selectors.
D-one monitor loudspeaker.
E- 4 volume controls.

	<p>F-one headphone socket for monitoring. G-4 push - buttons for signals to the interpreters H-4 pilot - lamps for signals from the interpreters sound intensities on the 5 channels . The push - button and pilot lamps avoid too large a variation in voice level between different speakers connections for tape recorders are available.</p> <p>2-chairman s microphone with which it is possible to cut on a speaker the chairmans microphone is provided on a stand , which incorporates an on/off button and a priority button , both switches on the chairmans own microphone and at the same time switches off all</p> <p>3-interpreters booths Here the interpreter can monitor speech through headphones and relay an the unit is designed for use by 4 interpreters working simultaneously or periods than one interpreter can work for . Thus this unit is fitted with tow sets of or one of the 4 translation channels, and separate level controls , and provided with both keys in the off position the floor language is automatically relayed to the to and from the central control desk. base of the microphone unit serves to indicate that the microphone is switched on the desk unit is of study all - metal construction with a pleasing functional design . flexible cable and connection box.</p> <p>4-monitoring units conference to listen in to any one of the 4 simultaneous interpretations each unit</p> <p>bill of quantities sraeings (from the central control desk with amplifier unit) enclosed in heavy connections as required. socket. 1 NO B-delegates unit with as above. 60 NO. Chair type C-interpreters unit with as above 4 NO. Table type 2NO. connections as required A-5 channels program selector. 1NO B- miniature juck socket for headphone 1NO C- light - weight stethophone standard. 1NO power supply 24V to 26V D.S frequency range 200 -14000 HZ 1NO. channels and amonitor channel as per specifications including connections as A-amplifier 50 watt. 1NO B-operators microphone . 1NO C-cassette recorder. 1NO suitable sockets and connections. interpreters junction box. 4 NO</p>	
02-06-00965	electric dryer 30KG	
02-06-00966	laundry press for clothes 1-electric 2-heater 1.2kw 3-running matorl (400W) 4-blower 65 W 220V , 50HZ	
02-06-00967	laundry extractor 30kw	
02-06-00968	computer 1-pentium III 550 MHZ 512KB cash hard disk 10GB H.D floppy disk drive (3.5) cd - rom drive(52X)	

	ethermet card 512MB RAM UPS (400VA) sound card + speakers 2-multimedia projector :-brightness 800 ANSI lumener resolution 800X600 3-scanner :- optical resolution (at least 600 X 1200dpi) 4-laser printer :-A4 (at least 600 dpi X 600dpi resolution) 5- colour printer :- A3 color inkjet printer 6-CD - ROM writer:- CD RW 32 X4X4 SCI	
02-06-00969	BLOOD COMPONENT DEEP FREEZER double compressor capacity 26.232 fee^3 40.450fee^3 type Of freez :-5 vertical 5 horizntal tem. :- 0 - 80C	
02-06-00970	electronic sphggmomanometer	
02-06-00971	cloth auto calve capacite 10 for sterilization surgical cloths	
02-06-00972	medical video recorder system type olympus for recording TV presentation for	
02-06-00973	Deep freezer 1-vertical type & modile 2-temperture :- from zero to minus 60C (D-60C) 3-capacity :-26cubic foot (f^3) 4-voltage :-220 volt 5-frequency :-50 HZ 6-compressor :-singh phase case of any defect or damage in the main compressor (S) 8-alarm system sensitive to any incremenf in the temperature beyond the desirabl degree 9-thermometer & temperture recorder fixed on the outer surface of the deep freezer 10- moving drawers alony rach of incorrosive stainless steel 11-the inner sarfaces of the deep freeaers showd be of in corrosive stainless steel 12-ttanble with lock a keye. 13-insulator of best quacity.	
02-06-00974	washer extractor 30KG	
02-06-00975	closed circuit TV 1-close circuit TV systems for microscopic projector 2-close circuit TV systems from the endoscopes to the lecture room	
02-06-00976	FREEZER a-size 14 feet b-six vertical and four horizontal c-storage temperature (-20C)	
02-06-00977	FREEZER a-size 16 feet b-vertical type c-storage temperature (-80C)	
02-06-00978	REFRIGERATOR a-size 16 feet b-vertical type c-storage temperature (0-5)	
02-06-00979	INCINERATOR A-size 1.0 X 1.5 meter b-height 8 meters	
02-06-00980	telephone exchange fuel a automatic b-with 10 external lines and 60 internal lines . (each).	

02-06-00981	<p>washing machine a-heavy duty b-size :-2(with washing capacity of 25 - 30 KG) and 1 (with washing capacity of 15 - 20KG)</p>	
02-06-00982	<p>BOILER A-SMALL SIZE (OUT PUT CAPACITY 2250000 b.t.u/hrs) max. working pressure (65)psi b-large size (out put capacity 3250000 b.t.u/hrs) max . Working pressure (65)psi</p>	
02-06-00983	<p>freezer 1-vertical type & modile 2-temperture :- from zero to minus 60C (D -60C) 3-capacity :-26cubic foot (f^3) 4-voltage :-220 volt 5-frequency :-50 HZ 6-compressor :-singh phase case of any defect or damage in the main compressor (S) 8-alarm system sensitive to any increment in the temperature beyond the desirabl degree 9-thermometer & temperture recorder fixed on the outer surface of the deep freezer 10- moving drawers alony rach of incorrosive stainless steel 11-the inner sarfaces of the deep freeaers showd be of in corrosive stainless steel 12-ttanble with lock a keye. 13-insulator of best quality.</p>	
02-06-00984	<p>cold water storage pressed steel sectional tanks 1-dimensions of lower tank (7320 x 3660 x 3660)mm dimensions of upper tank (6100 x 3660 x 1220)mm 2-diameters of in and out pipes should be as follows:- lower tank diam.of inlet pipe with flange and mechanical type float (brass type) 100mmQ diam. Of outlet pipe with flange 100mmQ diam. Of over flow pipe with flange 100mmQ diam. Of drain pipe with flange 100mmQ diam . Of vent pipe with flange 50 mmQ upper tank same dimensions as above (but with out float mechanical float) 3-explaining the quantity of galvanization in gm/m^2 4-pipes with flanges for mlet , out let , drain , etc should be welded before galvanization</p>	
02-06-00985	<p>accident emergency ambulance partition :- material (press wood not to be used) with smooth surface at both side. partition window:- roof height patienty eompartment:- the patienty compartment is to be fully insu - lated. roof hight:- in sid height more than 1850 mm. With out the thickness and rein fore ment. flooring: ttigh gnality flooring material cemented to a suitable type of wood with aluminum molding identification:- the ambulance is to be identified as follows:- _ it is to be parted clear white. rear and one on the front medicine cabinets:- compartment space and shelf space to be conveniently located for medical supplies to not more than (75)c.m high removal of cabinet is to be easy to facilitate bady repair in technician seat - froni: provision of atechnician seat at the front of the patients compartment.</p>	

technician seat -rear:

provision of a technician seat at the foot of the pts on the right end side.

inlighting system:

the pts compartment electrical system is to be separated from the truck.

resuscitation :

a-two oxygen bottles each of 1500 liter capacity secured within the left wall cabinetry.

b-two spare oxygen bottles of soot capacity in stowage cabin.

humidifier bottle.

d-three size oxygen masks one for each adult child and infant.

e-three plastic catheters two of each no. 10f.

f-one mouth to mouth ventilation mask

suction system

one vacuum apparatus including an electric driver pump (with rechargeable battery)

first aid equipment:

a box is to be provided containing the following

1-twenty pre-localized pads

2-twelve compressive bandages

3-four 10 c.m elastic strips

4-six gauze bandage three of 75mm and three of 150mm

first aid equipment:-

1-twenty gauze pads 10 cm by 10cm individually wrapped.

2-two 5cm anti-allergic rolls of adhesive tape.

3-fifteen tongue depressors individually wrapped.

4-one 100 ml bottle containing chlorhexidine base disinfectant

air splints

one set of air splint for each of the upper and limbs

three sizes of extrication collar

ambu

three sizes of ambu (adult child and infant)

stretcher

mattress and cover.

spare stretcher

1-folding collapsible stretcher with supporting spreader bars and vinyl coated nylon fabric

spare stretcher when required.

3-aluminum orthopedic stretcher.

4-orthopedic scoop stretcher.

5-heaped and hardness set for scoop stretcher

ambulance chair:-

with bracket (welded by special hooks on the back door)

rear bumper step:

rear bumper step is to be installed over the rear bumper.

bootle hooks:

boots

pregnancy tools:

exhaust - ventilator fan:

roof mounted double acting exhaust - vent fan is to be installed.

projector:

the cabinet.

external projectors around the car and over the back doors open automatic with its open.

stand - wash

steel done by foot.

semi automatic defibrillator/monitor

securing device :

for defibrillator/ monitor

aneroid - sphygmomanometer

	<p>stethoscope dissecting artery forceps (spencer wells) otoscope. 2-non woven acrylic blanket (60x80) approx. 2-cellar blanket undleached (60x80) approx 2-foam pillow pvc covered penlight. optional equipments shedule ambulance vacuum matters with carring handles pump for vacuum mattress an flatable splints set of u in wall anyesic unit. nitronoy cylinder (light weight) urinal mole. ukinal female. resuscitator complete with cylinder restraining strap for reuscitator aspirator manual first aid kit complete with case bedpan tought cut scissors scissors bandge vacuum flask stainless steel ilitter restraining strop for vacuum flasks oxygen cylinder bull nose (sizef) oxygen flow meter /regulator</p>	
	<p>optional equipments schedule ambulance clinder humidifier oxygen face mack pulsoxy meter (mini caphometer (mini) refloment hand light (handle projector will rechargarble battery green bubble 30 foot roll electronic sphggmomanometer ultraviolet lamp</p>	
02-06-00986	<p>Deep freezer -80 1-vertical type & modile 2-tempertuie from -80c to - 120c 3-capacity :- 26 cutic ft 4-compressor :- single phase (220 / 50/1) 5- alarm system visible & audible 6- thermomter and temperture recorder fixed on the out ar surface of the deep freezer 7-moving dramers stainless steel 8-the frrer sarfacc of the deep freezer should be of ron corrosier stanless 9- spare parts recomanedel for five year 10-2doors , staines (not glass)</p>	
02-06-00987	<p>deep freezer -80 1-uprigt freezer new from know company or good traed mark. 2-contain 4 to 6 indepen dent compartment each with an insulating inner door. 3-should be easy programmlg 4-maximum temp. range iN(-80C) 5-temperature stability + 0.5 C in the sample 6- ext. size N 200x80</p>	

	<p>7-mass kg 200kgm 8- nominal valve lit 300-500 liters 9-capacity sryobox 200 - 400 compressars diagnosis door ajar alarmty mult.ple alarms 4 door kag lock</p>	
02-06-00988	<p>Deep freezer for ultra low temp. freezer outer dimension :W2570 XD770 XH1070 MM or equivalent inner dimension :W1840 XD500 XH672 MM or equivalent effectve capacity: 700L exterior : baked -on acrylic finish on galvanized steel interior : stianless steel door : baked -on acrylic finish on galvanized steel insulation :polyurethane foamed in place (NON-CFC) compressor :hermatic type 1100W evaborator :type on sheet type type temp - controller : microprocessor conter sys set rang : (-20 to -120) (-20 to -95) aluminium container with all accessories system should be work with power source of AC240V 50 HZ</p>	
02-06-00989	<p>Freezer, - 80C consist of two cooling units deep freeze unit (1) electricity:- 220V - 50V - 1phose compressor:- 625 w recepeoeating refrigerant :-502 or R22 FL - current of fan condensor : 0.3A unit (2) electricity:- 220V - 50HZ - 1phase compressor:-425 W receprocating refrgerant:- 503 of deep freezer is (-80 / -100C)</p>	
02-06-00990	<p>Freezer - 40 C0 A- size 14 feet B-five freezer vertical and five horizontal C-storage temperature _40</p>	
02-06-00991	<p>Freezer - 120 C0 A- size 14 feet B- vertical type C-storage temperature _120</p>	
02-06-00992	<p>CCTV integrated with operation theaters lamps , camera. camera. 3- video matrix switching and recording / control system a-full cross point video matrix. b-logical camera selection c-priority level operation d-built in video loss detection e-built in system dignostics , matrix switching bay , pwer supply . Key board , printer , monitor , digital video recorders 4-monitor speaker , video and audis input and out put , automatic colour switching - system (</p>	

02-06-00993	Generator (1MVA) 230-400v	
02-06-00994	air compressor horse power :-15hp max pressure :-10bar flow rate :-49.5 cfm / 14001 /m r . P. m :-1450	