

AGENCY: UNICEF
PROJECT: WATER & SANITATION - PHASE VI-T3

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
	1.1 Water Treatment Chemicals		
03-06-00001	Calcium hypochlorite in granular form having minimum 65-70% chlorine packed in 45 or 50 Kg plastic container/drums of export quality. (Hypocal = Registered brand (HTH) of OLIN.	100,000	Kg
	1.2 Water Treatment Equipment		
03-06-00002	Chlorine solution dosing pump, complete set including drum (200-250) liter, agitator, suction line, dosing head and all necessary accessories. Type KM 252, capacity l/hr = 24, Back pressure = 10 Bar, Strokes (No Load) = 120, 240 V, single phase, with control panel, 50 Hz, 1,500 RPM. With O&M manuals and spare parts catalogue in Arabic/English and spare parts for two years operation. Also suction line with none-return valve including cleaning system for flushing.	250	Set
	1.3 Pipes and Specials		
03-06-00003	GI Pipe for Drinking Water Supply ,both ends male threaded ISO 7,Female threaded socket fitted to one end, ND 50 mm, PN 25, 6 m	1,500	Each
03-06-00004	GI Pipe for Drinking Water Supply ,both ends male threaded ISO 7,Female threaded socket fitted to one end, ND 80 mm, PN 25, 6 M	4,000	Each
03-06-00005	GI Pipe for Drinking Water Supply ,both ends male threaded ISO 7,Female threaded socket fitted to one end, ND 100 mm, PN 25, 6 m length	4,250	Each
03-06-00006	GI Pipe for Drinking Water Supply ,both ends male threaded ISO 7, Female threaded socket fitted to one end, ND 150 mm, PN 25, 6 m	1,000	Each
03-06-00007	Brass or bronze Gate Valve Set with Hand Wheel, Clockwise closing Female threaded to zinc coated ,bolts and nuts as per ISO 4016-1988, Max working pressure 20 Bars., DN 50mm	100	Each
03-06-00008	Brass or bronze Gate Valve Set with Hand Wheel, Clockwise closing Female threaded to zinc coated ,bolts and nuts as per ISO 4016-1988, Max working pressure 20 Bars., DN 80mm	80	Each
03-06-00009	Brass or bronze Gate Valve Set with Hand Wheel, Clockwise closing Female threaded to zinc coated ,bolts and nuts as per ISO 4016-1988, Max working pressure 16 Bars, DN 100mm	65	Each
03-06-00010	Brass or bronze Gate Valve Set with Hand Wheel, Clockwise closing Female threaded to zinc coated ,bolts and nuts as per ISO 4016-1988, Max working pressure 10Bars., DN 150mm	10	Each
03-06-00011	Brass non Return Valve set, FXF , threaded to BS21 (ISO R7) Size 50 mm inch	50	Each
03-06-00012	Brass non Return Valve set, FXF , threaded to BS21 (ISO R7) Size 75 mm	60	Each

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03-06-00013	Brass non Return Valve set, FXF , threaded to BS21 (ISO R7) Size 100 mm	60	Each
03-06-00014	Brass non Return Valve set, FXF , threaded to BS21 (ISO R7) Size 150 mm	30	Each
03-06-00015	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R7 90 degree FXF , ND 50 mm, PN 25.	50	Each
03-06-00016	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R7 90 degree FXF , ND80 mm, PN 25.	200	Each
03-06-00017	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R7 90 degree FXF , ND 100 mm, PN 25	310	Each
03-06-00018	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R7 90 degree FXF , ND 150 mm, PN 25	90	Each
03-06-00019	GI equal Tee joints for drinking water supply conforming to ISO R49 and threaded to ISO R7, FXFXF , ND 50 mm inch,PN 25.	60	Each
03-06-00020	GI equal Tee joints for drinking water supply conforming to ISO R49 and threaded to ISO R7, FXFXF , ND 80 mm ,PN 25.	180	Each
03-06-00021	GI equal Tee joints for drinking water supply conforming to ISO R49 and threaded to ISO R7, FXFXF , ND 100mm ,PN 25.	230	Each
03-06-00022	GI equal Tee joints for drinking water supply conforming to ISO R49 and threaded to ISO R7, FXFXF , ND 150mm ,PN 25.	80	Each
03-06-00023	GI Equal union for drinking water supply conforming to ISO R49 and threaded to ISOR7 ,FXF , PN 25, ND 50 mm	50	Each
03-06-00024	GI Equal union for drinking water supply conforming to ISO R49 and threaded to ISOR7 ,FXF , PN 25, ND 80mm (3 inch).	190	Each
03-06-00025	GI Equal union for drinking water supply conforming to ISO R49 and threaded to ISOR7 ,FXF , PN 25, ND 100mm (4 inch).	210	Each
03-06-00026	GI Equal union for drinking water supply conforming to ISO R49 and threaded to ISOR7 ,FXF , PN 25, ND 150mm (6 inch).	120	Each
03-06-00027	GI reducer joints for drinking water supply conforming to ISO R49, and threaded to ISO R7, FXF, PN 25, ND 100X75 mm	55	Each
03-06-00028	GI reducer joints for drinking water supply conforming to ISO R49, and threaded to ISO R7, FXF, PN 25, ND 100X50 mm	55	Each
03-06-00029	GI reducer joints for drinking water supply conforming to ISO R49, and threaded to ISO R7, FXF, PN 25, ND 75x50 mm	80	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00030	GI reducer joints for drinking water supply conforming to ISO R49, and threaded to ISO R7, FxF, PN 25, ND 150X100 mm	130	Each
03-06-00031	GI reducer joints for drinking water supply conforming to ISO R49, and threaded to ISO R7, FxF,PN 25, ND 150X80 mm	120	Each
03-06-00032	GI reducer joints for drinking water supply conforming to ISO R49, and threaded to ISO R7, FxF, ND 100mmX80mm (3inch) PN 25	100	Each
03-06-00033	Coupling for ND 90mm, PN 25, Standard length pipe	150	Each
03-06-00034	Same as item 31 but for 110mm pipe.	100	Each
03-06-00035	Same as item 31 but for 160mm pipe.	100	Each
03-06-00036	Clamps for 90mm, PN 25, Standard length pipe	100	Each
03-06-00037	Same as item 34 but for 110mm pipe.	50	Each
03-06-00038	Same as item 34 but for 160mm pipe.	50	Each
03-06-00039	Same as item 34 but for 210mm pipe.	50	Each
03-06-00040	Same as item 34 but for 254mm pipe.	30	Each
03-06-00041	Same as item 34 but for 12 inch pipe	30	Each
03-06-00042	Stainless steel repair clamps, quality A131304 with waff- led rubber seal according to DIN 3535. Double section for 80 mm pipe.	100	Each
03-06-00043	Same as item 40 but for 100mm pipe.	100	Each
03-06-00044	Same as item 40 but for 150mm pipe.	100	Each
03-06-00045	Same as item 40 but for 200mm pipe, PN 25.	100	Each
03-06-00046	Same as item 40 but for 250mm pipe, PN 25.	50	Each
03-06-00047	Same as item 40 but for 300mm pipe, PN 25.	50	Each
03-06-00048	DUCTILE IRON Pipe with thyton joints , 6.0 M nominal length , DN 80mm PN 25	4,000	Each
03-06-00049	DUCTILE IRON Pipe with rubber Gasket joints , 6.0 M nominal length , DN 100mm PN 25	12,000	Each
03-06-00050	DUCTILE IRON Pipe with rubber Gasket joints , 6.0 M nominal length , DN150mm PN 25	1,250	Each
03-06-00051	DUCTILE IRON Pipe with rubber Gasket joints , 6.0 M nominal length , DN 200mm PN 25	650	Each
03-06-00052	DUCTILE IRON Pipe with rubber Gasket joints , 6.0 M nominal length , DN 250mm PN 25	900	Each
03-06-00053	DUCTILE IRON Pipe with rubber Gasket joints , 6.0 M nominal length , DN 300mm PN 25	1,100	Each
03-06-00054	Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, ND 80mm, PN 25.	110	Each
03-06-00055	Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, ND 100mm, PN 25.	190	Each
03-06-00056	Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, ND 150mm, PN 25.	155	Each
03-06-00057	Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, ND 200mm, PN 25.	130	Each

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03-06-00058	Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, ND 250mm, PN 25.	22	Each
03-06-00059	Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, ND 300mm, PN 25.	10	Each
03-06-00060	Equal elbows for ductile pipes with rubber gasket joints, 45 degree, FXF , ND 80mm , PN 25.	110	Each
03-06-00061	Equal elbows for ductile pipes with rubber gasket joints, 45 degree, FXF , ND 100mm , PN 25.	210	Each
03-06-00062	Equal elbows for ductile pipes with rubber gasket joints, 45 degree, FXF , ND 150mm , PN 25.	170	Each
03-06-00063	Equal elbows for ductile pipes with rubber gasket joints, 45 degree, FXF , ND 200mm , PN 25.	145	Each
03-06-00064	Equal elbows for ductile pipes with rubber gasket joints, 45 degree, FXF , ND 250mm , PN 25.	15	Each
03-06-00065	Equal elbows for ductile pipes with rubber gasket joints, 45 degree, FXF , ND300 mm , PN 25.	14	Each
03-06-00066	Equal Tees for Ductile Pipes with rubber Gaskets FXFXF, PN 25, ND 80mm	70	Each
03-06-00067	Equal Tees for Ductile Pipes with rubber Gaskets FXFXF, PN 25, ND 100mm	110	Each
03-06-00068	Equal Tees for Ductile Pipes with rubber Gaskets FXFXF, PN 25, ND 150mm	80	Each
03-06-00069	Equal Tees for Ductile Pipes with rubber Gaskets FXFXF, PN 25, ND 200mm	50	Each
03-06-00070	Equal Tees for Ductile Pipes with rubber Gaskets FXFXF, PN 25, ND 250mm	15	Each
03-06-00071	Equal Tees for Ductile Pipes with rubber Gaskets FXFXF, PN 25, ND 300mm	20	Each
03-06-00072	Ductile Tee Socket with rubber gasket Joints DN = 100X80mm .PN 25.	120	Each
03-06-00073	Ductile Tee Socket with rubber gasket Joints DN = 100X100mm .PN 25.	100	Each
03-06-00074	Ductile Tee Socket with rubber gasket Joint DN = 150X100mm .PN 25.	90	Each
03-06-00075	Ductile Tee Socket with rubber gasket Joints DN = 150X80mm .PN 25.	80	Each
03-06-00076	Ductile Tee Socket with rubber gasket Joints DN = 150X150 mm .PN 25.	80	Each
03-06-00077	Ductile Tee Socket with rubber gasket Joints DN = 200X200mm .PN 25.	100	Each
03-06-00078	Ductile Tee Socket with rubber gasket Joints DN = 200X150mm .PN 25.	75	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00079	Ductile Tee Socket with rubber gasket Joints DN = 200X100mm .PN 25.	60	Each
03-06-00080	Ductile Tee Socket with rubber gasket Joints DN = 200X80mm .PN 25.	58	Each
03-06-00081	Parallel reducer for Ductile Pipes with Rubber Gasket Joints ,FXF ,DN =250X200mm,PN	18	Each
03-06-00082	Parallel reducer for Ductile Pipes with Rubber Gasket Joints ,FXF ,DN =200X200mm,PN	12	Each
03-06-00083	Parallel reducer for Ductile Pipes with Rubber Gasket Joints ,FXF ,DN =200X150mm,PN	20	Each
03-06-00084	Parallel reducer for Ductile Pipes with Rubber Gasket Joints ,FXF ,DN =200X100mm,PN	20	Each
03-06-00085	Parallel reducer for Ductile Pipes with Rubber Gasket Joints ,FXF ,DN =150X100mm,PN	20	Each
03-06-00086	Parallel reducer for Ductile Pipes with Rubber Gasket Joints ,FXF ,DN =150X75mm,PN 25	20	Each
03-06-00087	Equal Sockets for Ductile pipes with rubber gasket joints FXF ,ND = 150mm , PN 25.	100	Each
03-06-00088	Equal Sockets for Ductile pipes with rubber gasket joints FXF ,ND = 200mm , PN 25.	60	Each
03-06-00089	Equal Sockets for Ductile pipes with rubber gasket joints FXF ,ND = 250mm , PN 25.	16	Each
03-06-00090	Equal Sockets for Ductile pipes with rubber gasket joints FXF ,ND = 300mm , PN 25.	17	Each
03-06-00091	Equal Sockets for Ductile pipes with rubber gasket joints FXF ,ND = 100mm , PN 25.	100	Each
03-06-00092	Standard Socket and Spigot joints for Ductile pipes with rubber gaskets,FXM, DN 80 mm, PN	170	Each
03-06-00093	Standard Socket and Spigot joints for Ductile pipes with rubber gaskets,FXM, DN150 mm, PN	110	Each
03-06-00094	Standard Socket and Spigot joints for Ductile pipes with rubber gaskets,FXM, DN 200 mm, PN 25.	60	Each
03-06-00095	Standard Socket and Spigot joints for Ductile pipes with rubber gaskets,FXM, DN 250 mm, PN 25.	16	Each
03-06-00096	Standard Socket and Spigot joints for Ductile pipes with rubber gaskets,FXM, DN 300 mm, PN 25.	24	Each
03-06-00097	Standard Socket and Spigot joints for Ductile pipes with rubber gaskets,FXM, DN100 mm, PN	170	Each
03-06-00098	Ductile iron adapters from socket unit rubber joint to, PN 25 flanged end , DN 80mm	30	Each
03-06-00099	Ductile iron adapters from socket unit rubber joint to, PN 25 flanged end , DN 100mm	60	Each
03-06-00100	Ductile iron adapters from socket unit rubber joint to, PN 25 flanged end , DN 200mm	12	Each
03-06-00101	Ductile iron adapters from socket unit rubber joint to, PN 25 flanged end , DN 250mm	5	Each
03-06-00102	Ductile iron adapters from socket unit rubber joint to, PN 25 flanged end , DN 300mm	5	Each

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03-06-00103	Ductile iron adapters from socket unit rubber joint to, PN 25 flanged end , DN 150mm	24	Each
03-06-00104	Bolted Flanged Spigot joint for Ductile pipes ,with bolts,nuts and gaskets , ND 100mm,PN 25,ISO flanges	170	Each
03-06-00105	Bolted Flanged Spigot joint for Ductile pipes ,with bolts,nuts and gaskets , ND 150mm,PN 25,ISO flanges	160	Each
03-06-00106	Bolted Flanged Spigot joint for Ductile pipes ,with bolts,nuts and gaskets , ND 200mm,PN 25,ISO flanges	110	Each
03-06-00107	Bolted Flanged Spigot joint for Ductile pipes ,with bolts,nuts and gaskets , ND 250mm,PN 25,ISO flanges.	65	Each
03-06-00108	Bolted Flanged Spigot joint for Ductile pipes ,with bolts,nuts and gaskets , ND 300mm,PN 25,ISO flanges.	55	Each
03-06-00109	Flanged Gate Valves for Ductile pipes with bolts ,Nuts and gasket , DN 80mm,PN25,ISO flanges.	150	Each
03-06-00110	Flanged Gate Valves for Ductile pipes with bolts ,Nuts and gasket , DN 100mm,PN25,ISO flanges.	180	Each
03-06-00111	Flanged Gate Valves for Ductile pipes with bolts ,Nuts and gasket , DN 150mm, PN25, ISO flanges.	100	Each
03-06-00112	Flanged non return valve for ductile pipes with bolts ,nuts and gaskets, PN 25, ISO flanges ND 80mm.	60	Each
03-06-00113	Flanged non return valve for ductile pipes with bolts ,nuts and gaskets, PN 25, ISO flanges ND 100mm.	65	Each
03-06-00114	Flanged non return valve for ductile pipes with bolts ,nuts and gaskets, PN 25, ISO flanges ND150mm.	15	Each
03-06-00115	Flanged non return valve for ductile pipes with bolts ,nuts and gaskets, PN 25, ISO flanges ND 200mm.	46	Each
03-06-00116	Flanged air valve for ductile pipes with bolts ,nuts and gaskets, PN 25, ISO flanges	10	Each
03-06-00117	Pressure pipe for drinking water purposes,made from u-PVC resin,dark Grey colour ,in compliance with national and international food regulations.Male spigot/rubber joint female socket as per ISO 11922 NP 10 bars as per ISO 151-1996. OD	350	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00118	Pressure pipe for drinking water purposes,made from u-PVC resin,dark Grey colour ,in compliance with national and international food regulations.Male spigot/rubber joint female socket as per ISO 11922 Np 10 bars as per ISO 151-1996. OD	500	Each
03-06-00119	Pressure pipe for drinking water purposes,made from u-PVC resin,dark Grey colour ,in compliance with national and international food regulations. Np 10 bars as per ISO 151-1996. OD 160mm, 6ML.	300	Each
03-06-00120	Pressure pipe for drinking water purposes,made from u-PVC resin,dark Grey colour ,in compliance with national and international food regulations.Male spigot/rubber joint female socket as per ISO 11922 Np 10 bars as per ISO 151-1996. OD	300	Each
03-06-00121	Lubricant, in compliance with national and international food regulations, for pipe installation ,in containers of about 1 or 2 or 5 kgs or equivalent, for 5000 pipes of 6 m installation	100	Each
03-06-00122	PVC Elbow PN 10, 90mm. Dia. 90 deg	80	Each
03-06-00123	PVC Elbow PN 10, 110mm. Dia.90 deg	100	Each
03-06-00124	PVC Elbow PN 10, 160mm. Dia. 90 deg.	50	Each
03-06-00125	PVC Elbow PN 10, 220mm. Dia. 90 deg	20	Each
03-06-00126	PVC Tee with rubber joint 220X110mm. Dia. PN= 10 bars	20	Each
03-06-00127	PVC Tee with rubber joint 160X110mm. Dia. PN= 10 bars	20	Each
03-06-00128	PVC Tee with rubber joint 220X160mm. Dia. PN= 10 bars	20	Each
03-06-00129	PVC Tee with rubber joint 110X110mm. Dia.PN= 10 bars	50	Each
03-06-00130	PVC Socket joint with rubber gasket 90mm. Dia. PN= 10 bars	50	Each
03-06-00131	PVC Socket joint with rubber gasket 110mm. Dia. PN= 10 bars	50	Each
03-06-00132	Mild steel GI riser pipes ND 3inch, 3ML threaded.	700	Each
03-06-00133	Same as item 130 but 4 inch dia.	300	Each
03-06-00134	Casing pipe, mild steel, grade ST-37 as per DIN 17100, food grade for lining of water borehole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 M, outer diameter 8 5/8 inch.	2,200	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00135	Screen pipe, mild steel, grade ST-37 as per DIN 17100, food grade for lining of water borehole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 M, outer DIA 8 5/8 inch, slot size	500	Each
	1.4 Other Materials		
03-06-00136	Photocopier, heavy duty with A4 and A3 cassettes, with voltage stabilizer, supplied complete with manufacturers recommended service and spare parts for two years operation, operation, service and parts manuals in English.	6	Set
03-06-00137	LaserJet printer, with all accessories, additional 8MB RAM, and extra toner	1	Each
03-06-00138	Maps Plotter instrument, 220 Volt, 50 HZ.	2	Set
03-06-00139	Lap top computer complete with accessories.	8	Set
03-06-00140	LaserJet desk top printer complete with accessories.	15	Each
03-06-00141	Desk-top office computer Pentium, complete with all accessories and attachments.	16	Each
03-06-00142	UPS suitable for desktop PC.	21	Each
03-06-00143	Construction equipment mounted with shovel bucket in front and fitted with excavator bucket at the rear complete with accessories and spare parts for two years operation, parts manuals in English.	2	Each
03-06-00144	Ultra Sonic Portable flow meter for quick measurement of water flow in different types and diameter of pipes.	3	Each
03-06-00145	Alignment Instrument/ Laser used for alignment of different types of centrifugal	3	Each
03-06-00146	Sewer rods made of flexible alloy for sewerage networks, size 8mm diameter and 2 meter long with standard jointing system.	100	Each
03-06-00147	Chain sling double leg mechanically coupled chain slings dia 10mm ally complete set, max capacity 4250 Kg.	10	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00148	Pre-fabricated compact unit of out put capacity 500 cubic meter per hour for water turbidity ranging between 10 to 750 including clarifying tanks which could be open type all internal components should be made of hot dip galvanized or coated with non-toxic black bituminous paints, intermediate storage tank made of pressed steel, Alum dossiers, filters, chemical sterilization & intermediate pumps to pump the water through filters against static head 8M, the motor of pump should be 1450 RPM, 3 phase, 50 HZ. The cost should include installation of the units in project site, with training and	2	Set
03-06-00149	Tractor and trailer C/W two year spare parts. Operators, maintenance and parts manual in English.	10	Each
03-06-00150	Truck 2.5 Ton with pick stile body supplied complete with manufactures recommended service and spare parts for two years operation, and operation, service and parts	4	Each
03-06-00151	Distance meter type AGA or D1 4L with the pointer	3	Each
03-06-00152	Engineering drawing board, Hydraulic type	6	Each
03-06-00153	Battery charger for charging the distance meter instrument	2	Each
03-06-00154	Leveling instrument type (Na2 Wild) or (NaK2) with the tripod and all necessary	2	Each
03-06-00155	Electro- Optical distance meter	1	Set
03-06-00156	Tachometer type Wild RDS	2	Set
03-06-00157	Theommat with tripod suitable reflectors, batteries cables, data terminals and adapter	1	Set
03-06-00158	Destomat, with tripod suitable reflectors, batteries, battery cable terminals and	3	Set
03-06-00159	Wooden Tripod	4	Each
03-06-00160	Gyroscope	2	Set
03-06-00161	Terra meter type SAS, 4000 resistivity, IP and SP with accessories including (multi electrode survey systems, borehole logging and standard field equipment) or equivalent including 1 week training on site	3	Set
	2.5 Submersible Pumps and Specials		
03-06-00162	Motor set for submersible pump with tail cable, cable joint and motor panel, 400v, 50hz, 3ph, capacity 18.5 kw for SP46-15.	5	Each
03-06-00163	Motor set for submersible pump with tail cable, cable joint and motor panel, 400v, 50hz, 3ph, capacity 22 kw for SP27-28.	5	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00164	Motor set for submersible pump with tail cable, cable joint and motor panel, 400v, 50hz, 3ph, capacity 30 kw for SP 45-21.	5	Each
03-06-00165	Motor set for submersible pump with tail cable, cable joint and motor panel, 400v, 50hz, 3ph, Capacity 37 kw for SP 45-31.	8	Each
03-06-00166	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=10 cub.m/hr, h=210 m, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with each	12	Each
03-06-00167	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=14 cub.m/hr, h=135 m, sp 27-14, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with	2	Set
03-06-00168	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=14 cub.m/hr, h=270 m, sp 27-24, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with	10	Each
03-06-00169	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=14 cub.m/hr, h=270 m, sp 27-28, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with	6	Each
03-06-00170	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=16 cub.m/hr, h=280 m, sp 25-30, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with	9	Each
03-06-00171	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=22 cub.m/hr, h=210 m, SP 46-15, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with	10	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00172	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=22 cub.m/hr, h=310 m, sp 46-23, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with	9	Each
03-06-00173	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. q=14 cub.m/hr, h=35 m, SP 27-19, 400 v, 50 Hz, 3ph for 6.0" borehole to be installed in new boreholes. All cables and accessories to be packed together with each	1	Set
2.6 Vertical Turbine Pumps			
03-06-00174	Vertical motor for vertical turbine pumps, 380v, 50hz, 2900 rpm, 3ph, 22kw. Complete	5	set
03-06-00175	Vertical motor for vertical turbine pumps, 380v, 50hz, 2900 rpm, 3ph, 30kw. Complete	5	set
03-06-00176	Deep well turbine pump capacity Q= 14 Cub/Hr (Min), head 160 (Max) preferably BP 27-16, type. Complete with bowl assembly, pump head and discharge flanged with 3 inch BSP thread, electric motor 3*380/660 V, 50hz with housing gard direct coupled with pump head, top column pipe 3" length 0.485 meter threaded with 8 threads per inch complete with 3/4 inch line shaft, mechanical shaft seal and coupling, intermediate column pipe 3" line shaft, column bearing and linear, suction pipe 3", length 1.64 meter with 3 " spring loaded foot valve with strainer 50 meter cable 4*6mm ² and 4 pieces cable gland, spare parts for 2 years operation, O&M manual in English with appropriate packing	2	Set
03-06-00177	Right angle gear for vertical turbine pump, type 2gs25/ 3gs26. 20 hp.	5	each
03-06-00178	Right angle gear for vertical turbine pump, type 2gs45/ 3gs46. 40 hp.	5	each
03-06-00179	Pump discharge head, complete set consisting of pump head, gasket, bolts & nuts, stay bolts, nuts, pipe plug for BP 27-15, BP 27-12 & BP 45-7, size 3.0 bsp.	5	set
03-06-00180	Pump discharge head, complete set consisting of pump head, gasket, bolts & nuts, stay bolts, nuts, pipe plug for BP 27-15, BP 27-12 & BP 45-7, size 4.0 bsp.	5	set
03-06-00181	Line shaft with shaft coupling for vertical turbine pump, size 3/4 inch x 1.8m.	5	each
03-06-00182	Line shaft with shaft coupling for vertical turbine pump, size 5/8 inch x 1.8m.	50	each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00183	Line shaft with shaft coupling for vertical turbine pump, size 7/8 inch x 1.8m.	50	each
03-06-00184	Impeller for vertical turbine pumps, size 3 x 3/4 inch.	100	each
03-06-00185	Impeller for vertical turbine pumps, size 3 x 5/8 inch.	100	each
03-06-00186	Impeller for vertical turbine pumps, size 4 x 3/4 inch.	100	each
03-06-00187	Bowl assembly for BP 27-15.	5	set
03-06-00188	Bowl assembly for BP 45-12.	5	set
03-06-00189	Motor, Three phase:ASYNCHRONOUS motor,Standards :VDE-OVE,Conditions:Tropics-Proof, Out put (P):960KW,Voltage :11000V,Current:64 A,Freqency :50 Hz,Speed:989 R.P.M,Starter connection :Star ,Over Speed:1187 R.P.M	1	each
03-06-00190	Motor, Three Phase ASYNCHRONOUS ,motor, Standards :VDE-OVE,Conditions:Tropics-Proof, Out put (P):1850KW,Voltage :11000V,Current:118A,frequency :50Hz,Speed :989RPM,Over speed:1187,Air gap:2mm.	2	each
03-06-00191	Motor ,Three Phase ASYNCHRONOUS, motor Standards :VDE-OVE,Conditions:Tropics-Proof, Out put (P):2050KW,Voltage :11000V,Current:131A starter connection:star,frequency:50Hz,Speed :991	1	each
	2.8 Electrical Equipment and Spares		
03-06-00192	Control panel for submersible 22 kw motor with main switch, circuit breaker, phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 volt, 50hz, 3ph, auto-transformer.	10	Each
03-06-00193	Control panel for submersible 30 kw motor with main switch, circuit breaker, phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 volt, 50hz, 3ph, auto-transformer.	5	Each
03-06-00194	Control panel for submersible 37 kw motor with main switch, circuit breaker, phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 volt, 50hz, 3ph, auto-transformer.	9	Each
03-06-00195	Automatic air circuit breaker, mccb, 500v, 50hz, & 3ph capacity 50-63 amps.	22	Each
03-06-00196	Automatic air circuit breaker, mccb, 500v, 50hz, & 3ph capacity 80 -100Amps.	45	Each
	3.11 Sanitation Vehicles and Spares		
03-06-00197	Dumper with half cubic meter bucket, , 15HP, with two years spare parts.	35	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00198	GARBAGE COLLECTOR TRUCK , Wheel base 3.350M, CAPACITY 6 cum, 2.5 tone, type forward control with left hand drive,in line 4-stroke, liquid cooled direct injection diesel engine with exhaust driven turbocharger and intercooler, colour-white, including garbage collector body with export specifications for iraq,Air conditioned cabinet, with Manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue.	26	Set
03-06-00199	PICKUP Double cabin vehicle, 4 WD, long wheel base petrol engine, 5-speed floor shift, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue Operated by Benzene with spare parts for 2 years	18	Set
03-06-00200	Tractor and trailer C/W 2Yrs spare parts, operators,maintenance & spare parts manuals in English.	47	Set
03-06-00201	Tip-truck, complete set with dumper storage plan with spar parts for two years operation	1	Each
	3.12 Other Materials		
03-06-00202	Optical theodolite suitable for working with ELD1 4 (Electro Optical Distance meter).	9	Each
03-06-00203	Automatic Level , NI 50 with 400 degree /701135.9800.000S 33 tripod with screw/707234.0000.000 supplied with carrying case, with operation instructions and necessary accessories.	6	Each
03-06-00204	Desk Top office computer, Pentium complete with all accessories and attachments	22	Set
03-06-00205	UPS suitable for desktop computer	22	Set
03-06-00206	Heavy duty Photocopier, complete with accessories and attachments	8	Set
03-06-00207	Medium volume Photocopier, complete with all accessories and attachments.	4	Set
03-06-00208	Laser Jet Printer, complete with extra toners cartridges.	17	Set
03-06-00209	Laser Jet printer complete with accessories, attachments including additional 8MB RAM and extra toner cartridges.	1	Set
03-06-00210	Plotter instrument A5	5	Each
03-06-00211	Maps printing instrument	4	Each
03-06-00212	Planometer instrument	4	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00213	Pick up double cabin 2700cc petrol engine. Optional items required as standard: power steering, owners workshop repair parts manuals in English spare parts kit. With Air-conditioning system	11	Set
	4.13 Metal pipes and fittings		
03-06-00214	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 150mm PN 25. 6 m length	2,000	Each
03-06-00215	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 100mm PN 25. 6 m length	8,500	Each
03-06-00216	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 75mm PN 25. 6 m length	7,500	Each
03-06-00217	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 63mm PN 25. 6 m length	3,500	Each
03-06-00218	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 50mm PN 25. 6 m length	5,000	Each
03-06-00219	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 37 mm PN 25 6 m length	5,000	Each
03-06-00220	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 25 mm PN 25. 6 m	1,000	Each
03-06-00221	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 19 mm PN 25. 6 m length	1,000	Each
03-06-00222	Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 150mm PN 10.food quality.	20	Each
03-06-00223	Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 100mm PN 16.food quality.	100	Each
03-06-00224	Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 62 mm PN 10.food quality.	50	Each
03-06-00225	Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R 7), ND = 75mm PN 16.food quality.	100	Each
03-06-00226	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 150mm, PN 25.	100	Each
03-06-00227	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 100mm, PN 25.	100	Each
03-06-00228	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 75mm, PN 25.	100	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00229	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 62mm, PN 25.	100	Each
03-06-00230	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, PN 25 ND 150mm	100	Each
03-06-00231	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, PN 25 ND 100mm	200	Each
03-06-00232	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, PN 25 ND 75mm	349	Each
03-06-00233	Malleable cast iron, hot dip galvanized equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 25. Size	50	Each
03-06-00234	As in item 20 but size 2.5 inch.	100	Each
03-06-00235	As in item 20 but size 3.0 inch.	100	Each
03-06-00236	As in item 20 but size 4.0 inch.	100	Each
03-06-00237	GI reducer joints for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, size 150mm x 100mm inch, PN 25	30	Each
03-06-00238	GI reducer joints for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, size 150mm x 75mm inch, PN 25	30	Each
03-06-00239	GI equal tee joints for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxFxF, MD 150mm, PN 25	50	
03-06-00240	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 100mm, PN 25	100	
03-06-00241	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 75mm, PN 25.	100	
03-06-00242	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 62 mm, PN 25.	75	
03-06-00243	Malleable cast iron, hot dip galvanized reducer joints for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF. PN 25. Size 4.0 x 3.0 inch.	100	Each
03-06-00244	As in item 30 but size 4.0 x 2.5 inch.	100	Each
03-06-00245	As in item 30 but size 4.0 x 2.0 inch.	100	Each
03-06-00246	As in item 30 but size 3.0 x 2.5 inch.	100	Each
03-06-00247	As in item 30 but size 3.0 x 2.0 inch.	100	Each
03-06-00248	As in item 30 but size 3.0 x 1.5 inch.	50	Each
03-06-00249	As in item 30 but size 3.0 x 1.0 inch.	50	Each
03-06-00250	As in item 30 but size 2.5 x 2.0 inch.	50	Each
03-06-00251	As in item 30 but size 2.5 x 1.5 inch.	50	Each
03-06-00252	As in item 30 but size 2.5 x 1.0 inch.	50	Each
03-06-00253	As in item 30 but size 2.5 x 0.75 inch	50	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00254	As in item 30 but size 2.0 x 1.5 inch.	50	Each
03-06-00255	As in item 30 but size 2.0 x 1.0 inch.	50	Each
03-06-00256	As in item 30 but size 2.0 x 0.75 inch.	50	Each
03-06-00257	As in item 30 but size 1.5 x 1.0 inch.	50	Each
03-06-00258	As in item 30 but size 1.5 x 0.75 inch.	50	Each
03-06-00259	As in item 30 but size 1.0 x 0.75 inch.	50	Each
03-06-00260	Malleable cast iron, hot dip galvanized end plugs for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7). Male type. PN 25. Size 0.75 inch.	50	Each
03-06-00261	As in item 47 but size 2.5 inch.	50	Each
03-06-00262	As in item 47 but size 3.0 inch.	50	Each
03-06-00263	As in item 47 but size 4.0 inch.	50	Each
03-06-00264	Water tap, brass, with T-handle and threaded as per ISO 228, size 20 mm (3/4 inch). PN 10	2,500	Each
4.14 Construction and Sanitary Materials			
03-06-00265	Ordinary Portland cement packed in 3-ply 50 kg paper bags (equivalent to BS12). (to be procured locally)	360	Ton
03-06-00266	Mild steel deformed reinforcing bars in 6 meter length (+/- 100 mm), commercial grade tensile strength: 42.5-53.5 Kg/mm ² in bundles of 1 MT. size: Dia 10 mm : average weight	30	Ton
03-06-00267	As in item 2 but size 12 mm dia.	30	Ton
03-06-00268	Mild steel binding wire (flexible), 1 mm diameter, fully annealed, used to tie reinforcing bars for concrete work, supplied in coils of 50 kg (approx.).	1,500	Kg
03-06-00269	Concrete hollow blocks of size 20x20x40 cm and of solid size 15x20x40 cm (to be procured locally).	50,000	Each
03-06-00270	50x50 mm angle iron, mild steel, of 6 meters length.	400	Each
03-06-00271	Mud bricks, size 7x11x23 mm (to be procured locally)	270,000	Each
03-06-00272	Roofing Sheet, steel corrugated, galvanized, low carbon steel, lengthwise sinus sendzimir process, commercial prime quality. - Zinc Coated on both sides 275 G/M 2 - 11 Corrugations 16 X 76MM - 20 Gauge B.G. (0.26MM) before galvanizing - Overall width 900MM - Sheet length 2,000MM	2,000	Each
4.15 Pumps and Spare Parts			

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00273	Deep well turbine pumping system, operating at 2,700 RPM for pumping clean water to fit in a 8 inch bore well, Q=10 cum/hr and head = 120 M at 1,200 meters altitude/elevation, 50 deg centigrade complete set with pump head, discharge flange, right angle gear drive connected to engine by universal shaft. Air or water cooled diesel engine unit with centrifugal clutch, electric starter, heavy duty oil bath, air cleaner, speed governor, silencer exhaust pipe, mounted fuel tank, with column pipes and line shafts, foot valve with strainer, water level indicator, tool-kit, spare parts for 2 years operation, O&M manual in English and spare parts catalogue with appropriate seaworthy packing. Please note that temperatures in summer exceeds 50 degree Celsius and reaches -15 degree Celsius in winter.	47	Set
03-06-00274	Same as item 1 but Q=8 cum/hr, H=140 m	14	Set
03-06-00275	Diesel engine for operating vertical turbine pump, capacity 62.6 hp, complete set with clutch, 50 degrees celcius max ambient temp; and 1,200 m max altitude. two years spare parts and manuals.	22	Set
03-06-00276	Submersible pump with direct coupled electrical motor, non-return valve, control panel, 150m three core cable & cable termination kit. SP 8-37, 400 v, 50 hz, 3ph for 6.0" borehole. to be installed in new boreholes. all cables and accessories to be packed together with each pump.	3	Set
4.16 Materials for Deep well drilling			
03-06-00277	Casing pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water bore hole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m, outer diameter 8 5/8 inch.	1,100	Each
03-06-00278	Screen pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water bore hole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m, outer diameter 8 5/8 inch, slot size (2-3)mm width	220	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00279	Casing pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water bore hole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m, outer diameter 6 5/8 inch.	300	Each
03-06-00280	Screen pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water bore hole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m, outer diameter 6 5/8 inch, slot size (2-3)mm width	200	Each
03-06-00281	Bentonite according to API specifications.	80	Ton
03-06-00282	Hydraulic oil Harmony AW 32	2,500	Liter
03-06-00283	Compressor oil, Synthetic	1,000	Liter
03-06-00284	Rock drill oil (RD), Grade 30	1,000	Liter
03-06-00285	For rotary drilling 4 blade design, tungsten carbide drag bits with 65/8 inch A.P.I REG pin connection, 4 No.9 7/8 inch DIA., 6 No. 12 1/4 inch DIA. & 13 3/4 inch DIA, Item No.	3	Each
03-06-00286	Terameter SAS 4000 resistively, IP and SP with accessories including (Multi-Electrode survey systems, bore hole logging and standard field equipment) or equivalent including training and commissioning	1	Each
03-06-00287	Drill collar OD 8" (203mm) length 3m, weight 690Kg thread 65/6" API REG box/pin	10	Each
03-06-00288	Welded blade stabilizer string type for hole size 12 1/4, thread 6 5/8" box up REG pin down 6 5/8" box up	1	Each
03-06-00289	Tricome roller bit 12 1/4" steel tooth open bearing 6 5/8" REG pin, for hard formation	10	Each
03-06-00290	Tricome roller bit 12 1/4" tungsten carbide tooth open bearing 6 5/8" REG pin, for hard formation	10	Each
03-06-00291	Drill collar OD 5 1/2" (140 mm) length 3m, weight 280 Kg thread 3 1/2" API IF box/pin	9	Each
03-06-00292	Welded blade stabilizer string type for hole size 7 7/8", thread 3 1/2" IF pin down 3 1/2" IF box up	1	Each
03-06-00293	Tricome roller bit 7 7/8" steel tooth open bearing 4 1/2" REG pin, for hard formation	10	Each
03-06-00294	Tricome roller bit 7 7/8" Tungsten carbide tooth open bearing 4 1/2" REG pin, for hard formation	10	Each
03-06-00295	Welded blade stabilizer string type for hole size 10 5/8", thread 6 5/8" REG box down, 6 5/8" REG box up drilled for float valve type Baker 5F-6R	1	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00296	Welded blade stabilizer string type for hole size 10 5/8", thread 6 5/8" REG pin down, 6 5/8" box up	2	Each
03-06-00297	Cross- over sub 3 1/2" IF box -6 5/8"	2	Each
03-06-00298	Casing pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water bore hole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m or 6 m, outer diameter 15 5/8 inch to work with 12 1/4" and 10" DTHH, inner	200	Each
03-06-00299	Ditto item 20 but for casing outside diameter 10 5/8" and inner diameter 9" to work for bit 8 5/8" and 7 7/8" (tricon)	1,000	Each
03-06-00300	Safety clamp for casing diameter 15 5/8"	2	Each
03-06-00301	Safety clamp for casing diameter 10 5/8" or	2	Each
03-06-00302	Floating SUB STD thread 3 1/2" API Reg pin	2	Each
03-06-00303	Helmet with fit Ear protector	24	Each
03-06-00304	Gloves stand size working gloves for heavy duty made of leather and textile (10	Each
03-06-00305	Ditto but big size (Large)	10	Each
03-06-00306	Overall textile cotton and nylon size XL	12	Each
03-06-00307	Ditto size XXL	12	Each
03-06-00308	Ditto size Medium	12	Each
03-06-00309	Safety boot with steel protection size 41	4	Each
03-06-00310	Ditto size 42	12	Each
03-06-00311	Ditto size 43	12	Each
03-06-00312	Ditto size 44	6	Each
03-06-00313	Ditto size 45	4	Each
03-06-00314	Rain coat nylon size large	15	Each
03-06-00315	Drum hand pump for diesel and oil 2 liter per stroke	5	Each
03-06-00316	Pulley 6 ton including 46 m of 12.7 mm cable with hook	1	Each
03-06-00317	Welding rods for normal iron welding of top quality in pack of 50 roads	100	Pack
	4.17 Other Materials		
03-06-00318	Diesel powered generating set, 100 kVA 3 phase, complete with control panel, integral fuel tank sufficient for eight hours operation and all accessories necessary for installation. To be supplied complete with manufacturers recommended service and spare parts for 3000 hrs operation, operation, service and parts manuals in English.	22	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00319	Diesel powered generating set, 50 kVA 3 phase, complete with control panel, integral fuel tank sufficient for eight hours operation and all accessories necessary for installation. To be supplied complete with manufacturers recommended service and spare parts for 3000 hrs operation, operation, service and parts manuals in English.	16	Each
03-06-00320	Compact unit for drinking water production capacity 30 cubic meter per hour contained feeding pumps, galvanized steel sedimentation tank, pressure filter, filtration and back wash pumps, alum dosinators, and chlorinators all pumps.	1	Set
03-06-00321	Digital altimeter used to calculate the difference in elevations up to 0.5m division, 5000m range with operation manual in English.	13	Each
03-06-00322	Bulldozer with 2 years spare parts, Operation and maintenance Manual in English and Arabic if possible.	2	Each
03-06-00323	Pick up vehicle Double cabin, 4 WD, long wheel base 2700 cc petrol engine, 5-speed floor shift, colour-white, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and	5	Each
03-06-00324	Water Tanker Truck with Safety Cab, with Full Floating Cab Suspension, Safety Glass, Diesel, 6 cylinder in-line 4-stork, direct injection diesel with turbocharger, liquid cooling, tank with a manhole hatch with an air breather- Pump: Centrifugal Pump, 500l/min at 30m head, spare parts for two years operation, with O & M and spare parts	2	Each
03-06-00325	Heavy Duty Tipper Truck:(tail gate type) Cab-All Steel Welded Construction, Safety Glass Applied. Maximum Payload :20,000Kgs./13.2Cubic meters, Engine; 6Cylinder Diesel In line, over head Valve ,Water cooled, Direct Injection Type. Tyers:1200-24-18PR, with spare for O & M,	4	Each
03-06-00326	Wheel loader, general purpose bucket with straight edge & teeth, diesel engine. Flywheel horsepower gross 185HP at 2,200 RPM - Tyre: 20.5-22 16 PR (L3) tubeless tyres- Sun canopy with steel Cabin with air Conditioner.	1	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00327	Tractor with trailer. Operation and maintenance manual(s), in English and (if available) in Arabic- toolkit packed in	4	Each
03-06-00328	Tyre with internal tube, size 1200x24 for tip trucks, type Hino /Scania/ Volvo.	66	Each
03-06-00329	Tyre with internal tube, size 1200x20 for tip trucks, type Hino/ Scania.	66	Each
03-06-00330	Tyre with internal tube, size 1100x20 for HINO type tankers and trucks.	20	Each
03-06-00331	Tyre with internal tube, size 1300x24 for grader, type Caterpillar.	16	Each
03-06-00332	Tyre with internal tube, size 1400x24 for grader.	16	Each
03-06-00333	Tyre with internal tube, size 17.5x25 for shovel, type Kawaski	18	Each
03-06-00334	Tyre with internal tube, size 20.5x25 for Caterpillar shovel.	6	Each
03-06-00335	Tyre with internal tube, size 17.5x20 for Kawasaki shovel.	10	Each
03-06-00336	Tyre with internal tube, size R15x195 for pick-up.	30	Each
03-06-00337	Tyre with internal tube, size R16x205 for pick-up.	30	Each
03-06-00338	Tyre with internal tube, size R16x7.5 for Land Cruiser.	36	Each
03-06-00339	Tyre with internal tube, size R16x7.0 for Dyna 2.5 Tones.	8	Each
03-06-00340	Mobile workshop truck complete with tools and equipment, with diesel engine complete with all accessories, operation and maintenance manual(s), in English and (if available) in Arabic- toolkit packed in strong wooden crate	1	Set
03-06-00341	Vehicle 4 WD, Long wheel base, 5-door, STD 4500 cc petrol engine, 8 seater, 5-speed floor shift, colour-white, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue.	1	Each
03-06-00342	Pick up, truck style, 2.5 ton, supplied complete with manufacturers recommended service and spare parts for two years operation, and operation, service & parts	1	Each
03-06-00343	Paper for photocopiers and printers, size A4/210 x 297 mm, (unit is ream).	400	Each
03-06-00344	H2S strips for testing bacteriological contamination of water (small bottles)-	2,000	Each
03-06-00345	Toner for photocopier Canon, Code F41-8001-000 for NP 4050/4080 colour black.	10	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
03-06-00346	Heavy duty laser jet printer, or equivalent, A3 & A4. additional 8MB ram, with 1 extra toner cartridge, (unit is set).	2	Each
03-06-00347	Desk-top computer. Pentium III 450, 8.2 GB hard drive, 64 MB Ram, floppy disk, 16 Bit Audio card, 52x CD ROM, 15" SVGA colour monitor-pre-loaded with English/Arabic Windows 98 & MS office professional Win 98 Style English keyboard, mouse and pad, external speakers, (unit is set)	2	Set
03-06-00348	Photocopier, heavy duty, with 10 Toner cartridges, 20 Bin Staple Sorter, Staples, Copy Drum, Spares for two years operations and English manual for Parts / Service / operation, (unit is set).	1	Set
03-06-00349	Medium sized laser jet printer, with 5 additional toner cartridges, (unit is set).	1	Set
03-06-00350	Electronic Theodolite with stand and other accessories, ETH50 (unit is set).	1	Set
03-06-00351	Heavy Duty Tipper Truck(tail gate type) : All Steel Welded Construction, Safety Glass Applied. Maximum Payload: 20,000Kgs./13.2Cubic meters Engine; 6Cylinder Diesel In line, over head Valve, Water cooled,Direct Injection Type. Tyers:1200-24-18PR, with spare for O & M, Fuel	2	Each
03-06-00352	Builder's Level Automatic Level ,NI50 with 400 degree/701135.9800.000S 33 tripod with screw/707234.0000.000 L41 Leveling rod/707626.0000.000 Supplied in carrying case, with operation instructions and necessary accessories, (unit is set).	1	Set
03-06-00353	Mechanical tachometer set to measure the RPM from 500 to 5000 RPM	30	Set