UNICEF WATER & SANITATION PHASE XII

	Description	Quantity	Unit of measuremen
03-04-00001	Submersible pump with direct coupled electrical motor and with non-return valve, control panel, 150 m three core cable, electrode to avoid dry running and cable termination kit, MS 6000 380 V, 50 Hz, 3 Ph. TO BE INSTALLED ON NEW BORE WELLS. ALL CABLES TO BE PACKED SEPARATELY WITH EACH PUMP, Qmin.=7M3/H, Hmax= 260M. Each set should have 40Nos (3ML) each of red oxide threaded column assemblies.		
03-04-00002	Ditto as above but, Qmin.= 12M3/H, Hmax= 160M. MS 6000		
03-04-00003	Ditto as above but, Qmin=22M3/H, Hmax=215M. MS 6000		
03-04-00004	Ditto as above but, Qmin= 14M3/H, H=370M. MS 4000		
03-04-00005	Ditto as above but Qmin= 8M3/H, Hmax=380M.MS 6000		
03-04-00006	Ditto as above but, Qmin=20M3/H, Hmax=270M. MS 6000		
03-04-00007	Ditto as above but, Qmin=22M3/H, Hmax=290M		
03-04-00008	Solar powered submersible pump Q= 180m3/day, Head =200. Each set should have 40Nos (3ML) each of red oxide threaded column assemblies.		
03-04-00009	Pre-fabricated compact unit of out put capacity 150 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 dosers, 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.		
03-04-00010	Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH,		
	capacity 3.7KW.		
03-04-00011			
03-04-00011	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH,		
03-04-00012 03-04-00013	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW		
03-04-00012 03-04-00013 03-04-00014	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW		
03-04-00012 03-04-00013 03-04-00014 03-04-00015	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016 03-04-00017	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW Ditto as above but capacity 37.0KW "		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016 03-04-00017	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW Ditto as above but capacity 37.0KW " Flexible electrical power cable for deep well submersible		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016 03-04-00017 03-04-00018	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW Ditto as above but capacity 37.0KW " Flexible electrical power cable for deep well submersible motors size 4x16 mm2		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016 03-04-00017 03-04-00018	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW Ditto as above but capacity 37.0KW " Flexible electrical power cable for deep well submersible motors size 4x16 mm2 Ditto as above but size 4x10 mm 2		
03-04-00012 03-04-00013 03-04-00014 03-04-00015 03-04-00016 03-04-00017 03-04-00018	capacity 3.7KW. Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 5.5KW. Ditto as above but capacity 7.5KW. Ditto as above but capacity 11.0KW Ditto ias above but capacity 18.5KW Ditto as above but capacity 22.0KW Ditto as above but capacity 30.0KW Ditto as above but capacity 37.0KW " Flexible electrical power cable for deep well submersible motors size 4x16 mm2 Ditto as above but size 4x10 mm 2 Ditto as above but size 4x25 mm2		

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Code	Description	Quantity	Unit of measurement
03-04-00025	Ditto as above but capacity Grundfos motor 30.0 KW		
03-04-00026	Ditto as above but capacity Grundfos motor 37.0 KW		
03-04-00027	Ditto as above but capacity Grundfos motor for 75.0 KW		
03-04-00028	Deep well turbine pump capacity Q=14cum/hr(min), head=160M (max), preferably BP27-16 type or equivalent from Grundfos. Complete with bowl assembly, pump head and discharge flange with 3 inch BSP thread, electric motor 3x380/660V, 50Hz, with housing guard direct coupled with pump head, top column pipe 3 inch length 0.485M threaded with 8 threads per inch, complete with 3/4 inch line shaft, mechanical shaft seal and coupling, intermediate column pipe 3 inch line shaft, column bearing and liner, suction pipe 3 inch, length 1.64M with 3 inch spring loaded footvalve with strainer 50M cable 4x6MM2 and 4 PCS cable gland, spare parts for two years operation, O&M manual in English with appropriate packing. Each set should have 40Nos (3ML) each of red oxide threaded column assemblies.		
03-04-00029	Ditto as above but, Q=22cum/hr (min), H=165m (max), (BP 45-16), or equivalent		
03-04-00030	Ditto as above but, Q=14cum/hr), H=95m (max), (BP 45-15)		
03-04-00031	Ditto as above but, Q=22cum/hr (min), H=155m (max), (BP 45-13)		
03-04-00032	Vertical motor complete set for Grundfos vertical turbine pumps, 380V, 50Hz, 2900 rpm, 3PH and capacity 15KW for BP 27-15		
03-04-00033	Ditto as above but capacity 22KW for BP 45-12		
03-04-00034	Diesel engine for operating vertical turbine pump, capacity 45 HP, 2900 rpm, complete set with centrifugal clutch, 50 degrees Celcius max; and 1,200m max altitude		
03-04-00035	Right angle gear for Grundfos vertical turbine pump,type 2GS25/3GS26, 20HP complete set		
03-04-00036	Ditto as above but type 2GS45/3GS46 for 45HP, complete set		
03-04-00037	Column bearing with vulcanized rubber outer sleeve and rubber linings with bushes of synthetic material for Grundfos vertical turbine pumps, size 3 x 1/2 inch		
03-04-00038	Ditto as above but size 3 x 5/8 inch		
03-04-00039	Ditto as above but size 3 x 3/4 inch		
03-04-00040	Ditto as above but size 4 x 3/4 inch		
03-04-00041	Ditto as above butt size 4 x 7/8 inch		
03-04-00042	Ditto as above but size 5 x 7/8 inch		
03-04-00043	Sealing set for shaft seal for Grundfos vertical turbine pumps size 5/8 inch		
03-04-00044	Ditto as above but size 3/4 inch		
03-04-00045	Ditto as above but size 7/8 inch		
03-04-00046 03-04-00047	Dittoas above but size 1 inch Shaft coupling for Grundfos vertical turbine pumps size 5/8		
	inch		
03-04-00048	Ditto as above but size 3/4 inch		
03-04-00049	Ditto as above but size 7/8 inch		
03-04-00050	Driver for Grundfos vertical turbine pump type BP 16/27/45 size 3/4 inch		
03-04-00051	Ditto as above but size 5/8 inch		

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Code	Description	Quantity	Unit of measurement
03-04-00052	Ditto as above but size 7/8 inch		
03-04-00053	Pump discharge head, complete set consisting of pump		
	head, gasket, bolt & nut, stay bolts, nuts, pipe plug for BP		
	27-15, BP 27-12, size 3.0 inch		
03-04-00054	Ditto as above but size 4.0 inch		
03-04-00055	Line shaft with shaft with coupling for Grundfos vertical		
05 0. 00000	turbine pumps, size 5/8 inch x 1.8 m		
03-04-00056	Dittoas above but size 3/4 inch x1.8m		
03-04-00057	Ditto as above but size 7/8 inch x1.8m		
03-04-00058	Column pipes for Grundfos vertical turbine pumps, size 4.0		
03-04-00038	inch x 1.8 m		
03-04-00059	Bottom column pipe complete with shaft, coupling and		
	bearing with thread in bottom end, size 3 x 5/8 inch		
	ouring with through in contour that, size a n eye men		
03-04-00060	Ditto as above but size 3 x 3/4 inch		
03-04-00061	Ditto as above but size 4 x 3/4 inch		
03-04-00062	Ditto as above but size 4 x 7/8 inch		
03-04-00062	Diesel engine for operating vertical turbine pump complete		
03-04-00003	set with clutch, MWM D-3011; max altitude 1,200m. RPM		
	2900		
03-04-00064	Gland packing for ingersoll dressor pumps type 10 UZD		
03-04-00064	Orang packing for ingerson dressor pumps type 10 UZD		
02.04.00065	Claudina dia ani 1/2 in dan ut 5 0 5 DDM - 2440 H -		
03-04-00065	Gland packing size 1/2 inch; pH 5-8.5 RPM = 2440 H =		
02.04.00066	80m		
03-04-00066	Gland packing size 3/4 inch pH 5-8.5 RPM = 2440 H =		
02.04.00067	150m		
03-04-00067	Gland packing size 3/8 inch pH 5-8.5. RPM = 2900, 20 bar		
03-04-00068	Gland packing size 5/8 inch pH 5-8.5 RPM = 2440 H =		
02.04.00060	40m		
03-04-00069	Centrifugal booster pump for pumping treated water Q=100		
	cum/hr, H= 60m Coupled with electrical driven motor with		
	soft starter and automatic circuit breaker connection and		
	with control panel. 380V, 50Hz, 3 phase, 1450 RPM. Max		
	altitude 1,000m. With spare parts for 2 years operation,		
	spare parts/operation manual in English, and necessary		
	valves, non-return valves, flanges, elbows, reducers.		
03-04-00070	Centrifugal booster pump for pumping treated water		
	Q=200 cum/hr, H= 100m Coupled with electrical driven		
	motor with soft starter and automatic circuit breaker		
	connection and with control panel. 380V, 50Hz, 3 phase,		
	1450 RPM. Max altitude 1,000m. With spare parts for 2		
	years operation, spare parts/operation manual in English,		
	and necessary valves, non-return valves, flanges, elbows,		
	reducers		
03-04-00071	Ditto as above but: Q=60 cum/hr, H=60m		
03-04-00072	Ditto as above but Q=50 cum/hr, H=80m		
03-04-00073	Ditto as above but Q=100 cum/hr, H=100m		
03-04-00074	Ditto as above but Q=150 cum/hr, H=120m		
03-04-00075	Ditto as above but Q=200 cum/hr, H=170m		
03-04-00076	Ditto as above but Q=82 cum/hr, H=380m		
03-04-00077	Ditto as above but Q=55 cum/hr, H=120m		
03-04-00078	Ditto as above but Q=200 cum/hr, H=200m		
03-04-00079	Ball bearing 7317		
03-04-00080	Ball bearing type SKF 6312, 2RS		
03-04-00081	Ball bearing type 7309		
03-04-00082	Ball bearing type 6218 C3/SKF		
03-04-00083	Ball bearing type SKF 6311, 2RS		
03-04-00084	Ball bearing type 6322		
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Code	Description	Quantity	Unit of measurement
03-04-00085	Ball bearing type 6328C3		
03-04-00086	Ball bearing type 2317		
03-04-00087	Ball bearing type 7317 BG		
03-04-00088	Ball bearing type 6322C3		
03-04-00089	Ball bearing type7216		
03-04-00090	Ball bearing type 6310		
03-04-00091	Ball bearing type 6309		
03-04-00092	Ball bearing type 6320 C3		
03-04-00093	Ball bearing type SKF 7310, 2RS		
03-04-00094	Ball bearing type NU 218		
03-04-00095	Ball bearing type 7314		
03-04-00096	Ball bearing type N216 MC3/SKF 217 C3 Ball bearing type 6217 C3/SKF 5217 C3		
03-04-00097	Ball bearing type 6319 C3		
03-04-00099	Ball bearing type 6316 C3		
03-04-00100	Ball bearing type 6315		
03-04-00101	Ball bearing type 6316		
03-04-00102	Ball bearing type 5407		
03-04-00103	Ball bearing type 7410		
03-04-00104	Electrical Motor with control panel for booster pump.		
	P=185 KW at 2960 RPM, V=400V, 50 HZ, 3P, mounting		
	position		
03-04-00105	Electrical Motor with control panel for high lift pump.		
1	P=320 KW at 1450 RPM, V=400V, 50 HZ, 3P, mounting		
02.04.00101	position: IM 1001 (IM B3), IP23/1C01		
03-04-00106	Electrical motor 570KW, 1491 min, cos=0.86, A= 957 with		
	pair coupling for motor and pump, type of pump = 10UZD1		
	(No. CO 17 203) with control panel soft starter and copper cable size 240mm single core flexible cable 500 ml and		
	spare parts for 2 years operation including spares for		
	control panel.		
	control panel.		
03-04-00107	Control panel for Grundfos submersible motor with main		
	switch, circuit breaker, illuminated selector switch,		
	contactor, phase failure relay, timing relay, overload relay,		
	sequence and asymmetry relay, fuse holder, auto		
	transformer, ammeter and voltmeter, 380V, 50Hz, 3Ph. in addition to that single phase to neutral (220 V, 50Hz) must		
	also be available for the control panel components such as		
	ammeter, voltmeter, etc. Capacity 22 Kw, pump type Sp		
	(30-26)		
03-04-00108	Ditto as above but capacity 37 Kw, Grundfos SP(30-43)		
	Franklin 6"		
03-04-00109	Control panel for star-delta motor with main switch, circuit		
	breaker, illuminated selector switch, contactor, phase		
	failure relay, timing relay, overload relay, fuse holder, auto		
	transformer, ammeter and voltmeter, 380V, 50Hz, 3Ph.		
	Capacity 55 Kw, 83 Ampere, RPM 2900		
03-04-00110	Dittoas above but capacity 75 Kw, 137 A, 2960 RPM,		
	induction motor		
03-04-00111	Ditto as above but capacity 110 Kw, 267 A, 1480 RPM,		
	WEG 500 D250 M, CFA 6743/1		
03-04-00112	Ditto as above but capacity 200 Kw		
03-04-00113	Automatic air-circuit breaker, MCCB, 500V, 50Hz & 3P.		
02.04.00:::	Capacity 630-800.		
03-04-00114	Dittoas above but capacity 150-200.		
03-04-00115	Ditto as above but capacity 400-500 amps.	NICEF WES 1.2	<u> </u>

Code	Description	Quantity	Unit of measurement
03-04-00116	Ditto as above but capacity 80-120amps.		
03-04-00117	Ditto as above but capacity 50-63 amps.		
03-04-00118	Ditto as above but capacity 30-40 amps.		
03-04-00119	Flexible electrical power cable for 400V, size 1x240 mm2		
03-04-00120	Dittoas above but size 1x95 mm2		
03-04-00121	Ball bearing type 7412		
03-04-00122	Ball bearing type 6216		
03-04-00123	Flexible electrical power cable for 400V, size 4*35 mm2		
03-04-00124	Oil for high tension transformers, 33/11KV and 11/0.4 KV		
03-04-00125	Electric contactors, 500V, 50 Hz, coil voltage 380V, Telemecanic, France made, 60 Amper		
03-04-00126	Ditto as above but, 80 Ampere		
03-04-00127	Ditto as above but, 100 Ampere		
03-04-00128	Phase failure, three phase asymmetry and sequence relay,		
	380 V, 50 Hz. Type BA 9041		
03-04-00129	Self-emulating electrical tape 19mm x 10m. for high		
	tension voltage-moister resistant, ozone resistant.		
03-04-00130	Insulating tape, low voltage, 19mm x 33m.		
03-04-00131	Shrinkable terminations (12,000V) three core for cable		
02.04.00122	size (50-95)mm, 60 cm long.		
03-04-00132	GI pipe for drinking Water supply, to be of mild steel,		
	medium series, standard, longitudinally welded, (high induction frequency welding), hot dipped galvanized and		
	passivated. Each pipe to be hydro tested or tested as per		
	current method. To be manufactured as per ISO 65-1981.		
	Both ends male threaded ISO 7, socked one end (female		
	threaded socket), duly galvanized and chamfered, and the		
	other end protected with a HDPE threaded protector,		
	covering entire thread of pipe, male threads to be protected		
	with anti-rust zinc aluminum paste, socket threads to be		
	protected with anti-rust varnish Pipe/socket to adequately		
	zinc coated to satisfy copper sulfate test as prescribed in		
	appendix A of BS 1387 / 67 or equivalent ISO standard.		
	Steel, zinc, anti-rust paste and varnish to be made from		
	food grade material. Pipe length (excluding socket length):		
	5.8 meters. PN 25, Nominal diameter: ND 2.0 inch.		
03-04-00133	Ditto as above but, PN 25, size 3.0 inch		
03-04-00134	Ditto as above but, PN 25, size 4.0 inch		
03-04-00135	Ditto as above but, PN 25, size 6.0 inch		
03-04-00136	Bronze heavy type gate valve set with hand wheel,		
	clockwise closing, FxF, threaded to BS21 (ISO R7), size		
02.04.00127	2.0 inch, PN 25. Food quality.		
03-04-00137 03-04-00138	Ditto as above but, PN 25, size 3.0 inch, PN 25 Dittoas above but, size 4.0 inch, PN 25		
03-04-00138	Ditto as above but, Size 4.0 inch, PN 25 Ditto as above but, PN 25, size 6.0 inch, PN 25		
03-04-00139	Brass non-return valve set, FxF, threaded to BS21 (ISO		
05 04-00140	R7), PN 25, size 2.0 inch. Food quality.		
03-04-00141	Ditto as above but, size 3.0 inch, PN 25		
03-04-00142	Ditto as above but, size 4.0 inch, PN 25		
03-04-00143	Malleable cast iron, hot dip galvanized equal elbows for		
	drinking water supply conforming to ISO R49 and threaded		
	to BS21 (ISO R7), 90 degree, FxF, size 2.0 inch, PN 25.		
	Food quality.2"*2"		
03-04-00144	Dittoas above but, size 3.0 inch, PN 25		
03-04-00145	Ditto as above but, size 4.0 inch, PN 25		
03-04-00146	Dittoas above but, size 6.0 inch, PN 25		

Code	Description	Quantity	Unit of measurement
03-04-00147	Malleable cast iron, hot dip galvanized equal Tee-joints for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxFxF, size 2.0 inch, PN 25. 2"*2"*2"		
03-04-00148	Dittoas above but, size 3.0 inch, PN 25		
03-04-00149	Ditto as above but, size 4.0 inch, PN 25		
03-04-00150	Ditto as above but, size 4.0 inch, PN 25		
03-04-00151	Malleable cast iron, hot dip galvanized equal unions for		
03 01 00131	drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, size 2.0 inch, PN 25. 2"*2"		
03-04-00152	Ditto as above but, size 3.0 inch, PN 25		
03-04-00153	Ditto as above but, size 6.0 inch, PN 25		
03-04-00154	Ditto as above but, size 4.0 inch, PN 25		
03-04-00155	Malleable cast iron, hot dip galvanized reducer joints for		
	drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, size 6.0 x 4.0 inch, PN 25		
03-04-00156	Ditto as above but, size 6.0 x 3.0 inch.		
03-04-00157	Ditto as above but, size 6.0 x 2.0 inch.		
03-04-00158	Ditto as above but, size 4.0 x 3.0 inch.		
03-04-00159	Ditto as above but, size 4.0 x 2.0 inch		
03-04-00160	Ditto as above but, size 3.0 x 2.0 inch		
03-04-00161	Viking Johnson coupling for 90 mm, PN 25, Standard		
02.04.00162	length pipe		
03-04-00162	Ditto as above but for 110 mm pipe.		
03-04-00163	Ditto as above but for 160 mm pipe. V. J. Easy clamps for 90 mm, PN 25, Standard length pipe		
03-04-00104	V. J. Easy Clamps 101 90 mm, FN 23, Standard length pipe		
03-04-00165	Ditto as above but for 110 mm pipe.		
03-04-00166	Ditto as above but for 160 mm pipe.		
03-04-00167	Ditto as above but, but for 220 mm pipe.		
03-04-00168	Stainless steel repair clamps, quality A131304 with		
	waffled rubber seal according to DIN 3535. Double section		
	for 80 mm pipe. PN 24. Required length is (30-40) cm		
03-04-00169	Ditto as above but for 100mm pipe.		
03-04-00170	Ditto as above but for 150mm pipe.		
03-04-00171	Ditto as above but for 200mm pipe.		
03-04-00172	Ditto as above but for 300mm pipe.		
03-04-00173	Ductile iron pipe with rubber gasket joints (Tighten joints)		
	with rubber gaskets, 6 meters nominal length, 3 inch diameter. PN 25		
03-04-00174	Ditto as above but 4 inch dia.		
03-04-00175	Ditto as above but 6 inch dia.		
03-04-00176 03-04-00177	Ditto as above but 8 inch dia. Ditto as above but 12 inch dia.		
03-04-00177	Ditto as above but 12 inch dia. Ditto as above but 16 inch dia.		
03-04-00178	Equal elbows for ductile pipes with rubber gasket joints,		
00 01 00177	bolts & spigot, 90 degree, FxF, 3 inch dia, PN 25.		
03-04-00180	Ditto as above but 4 inch dia.		
03-04-00181	Flanged equal elbow size 6", 90 degree with socket, spigot, bolts and rubber.		
03-04-00182	Ditto as above but 8 inch dia.		
03-04-00183	Ditto as above but 10 inch dia.		
03-04-00184	Ditto as above but 12 inch dia.		
03-04-00185	Equal elbows for ductile pipes with rubber gasket joints,		
	bolts, spigot & rubber, 45 degree, FxF, 3 inch diam, PN 25. 3"*3"		
03-04-00186	Ditto as above but 4 inch diam		

Code	Description	Quantity	Unit of measurement
03-04-00187	Flanged equal elbow size 6"*6", 45 degree with socket,		
03-04-0018/	spigot, and rubber.		
03-04-00188	Ditto as above but 8 inch diam		
03-04-00189	Ditto as above but 10 inch diam		
03-04-00190	Ditto as above but 12 inch diam		
03-04-00191	Equal Tees for ductile pipes with rubber gasket joints,		
	bolts & spigot, FxFxF, 3 inch diam, PN 25.3"*3"*3"		
03-04-00192	Ditto as above but 4 inch diam		
03-04-00193	Ditto as above but 6 inch diam		
03-04-00194	Ditto as above but 8 inch diam		
03-04-00195	Ditto as above but 10 inch diam		
03-04-00196	Ditto as above but 12 inch diam		
03-04-00197	Ductile Socket with rubber, bolts & spigot 3x3 inch dia,		
03-04-00198	PN 25. Ditto as above but 4x4 inch dia		
03-04-00198	Ditto as above but 4x4 inch dia Ditto as above but 4x3 inch dia		
03-04-00199	Ductile Socket with rubber, bolts & spigot 3x3 inch dia,		
03 04-00200	PN 25.		
03-04-00201	Ditto as above but 6x3 inch dia		
03-04-00202	Ditto as above but 6x6 inch dia		
03-04-00203	Ditto as above but 8x8 inch dia		
03-04-00204	Ductile reducer size 8x6 inch dia		
03-04-00205	Ditto as above but 8x4 inch dia		
03-04-00206	Ditto as above but 8x3 inch dia		
03-04-00207	Ditto as above but 10x4 inch dia		
03-04-00208	Ditto as above but 10x6 inch dia		
03-04-00209	Ditto as above but 10*8 inch dia		
03-04-00210	Ductile equal socket size 10x10 inch dia		
03-04-00211	Ditto as above but 12x12 inch dia		
03-04-00212	Flanged Parallel reducers for ductile pipes with rubber gasket joints, bolts & spigot FxF, 12x10 inch dia, PN 25.		
	gasket joints, botts & spigot FXF, 12x10 ilicii dia, FIV 23.		
03-04-00213	Ditto as above but 12 x 8 inch dia		
03-04-00214	Ditto as above but12 x 6 inch		
03-04-00215	Ditto as above but 10 x 8 inch dia		
03-04-00216	Ditto as above but 10 x 6 inch dia		
03-04-00217	Ditto as above but 10 x 4 inch dia		
03-04-00218	Ditto as above but 8 x 6 inch dia		
03-04-00219	Ditto as above but 8 x 4 inch dia		
03-04-00220	Ditto as above but 6 x 4 inch dia		
03-04-00221	Ditto as above but 6 x 3 inch dia		
03-04-00222	Ditto as above but 4 x 3 inch dia		
03-04-00223	Ductile Equal push in sockets for ductile pipes with rubber		
03-04-00224	gasket joints, FxF, 4 inch dia, PN 25. Ditto as above but 6 inch dia, flanged with bolts, nuts &		
03-04-00224	spigot		
03-04-00225	Ditto as above but 8 inch dia		
03-04-00225	Standard socket & spigot joints for ductile pipes with		
05 01 00220	rubber gasket joints, FxM, 3 inch dia, PN 25.		
03-04-00227	Ditto as above but 4 inch dia		
03-04-00228	Ditto as above but 6 inch dia		
03-04-00229	Ditto as above but 8 inch dia		
03-04-00230	Ditto as above but 10 inch dia		
03-04-00231	Ditto as above but 12 inch dia		
03-04-00232	Ductile Iron Adapters from socket unit rubber joint to, PN		
	25 flanged end, 3 inch dia		
03-04-00233	Ditto as above but, 4 inch dia		
03-04-00234	Ditto as above but, 6 inch dia		
03-04-00235	Ditto as above but, 8 inch dia		1

Code	Description	Quantity	Unit of measurement
03-04-00236	Bolted flanged spigot joint for ductile pipes, with bolts,		
05 01 00250	nuts & gaskets, 3 inch dia, PN 25, ISO flanges		
03-04-00237	Ditto as above but 4 inch dia		
03-04-00238	Ditto as above but 6 inch dia		
03-04-00239	Ditto as above but 8 inch dia		
03-04-00240	Ditto as above but 10 inch dia		
03-04-00241	Gate valves for ductile pipes with bolts, nuts & gaskets, 3		
	inch dia, PN 25, ISO flanges		
03-04-00242	Ditto as above but 4 inch dia		
03-04-00243	Ditto as above but 6 inch dia		
03-04-00244	Ditto as above but 8 inch dia		
03-04-00245	Ditto as above but 10 inch dia		
03-04-00246	Ditto as above but 12 inch dia		
03-04-00247	Flanged non-return valves for ductile pipes with bolts, nuts		
	& gaskets, 3 inch dia, PN 25, ISO flanges		
03-04-00248	Ditto as above but 4 inch dia		
03-04-00249	Ditto as above but 6 inch dia		
03-04-00250	Ditto as above but 8 inch dia		
03-04-00251	Ditto as above but 10 inch dia		
03-04-00252	Flanged air valves for ductile pipes with bolts, nuts &		
	gaskets, 3 inch dia, PN 25, ISO flanges		
03-04-00253	Flanged foot valves with strainers 4 inch dia		
03-04-00254	Ditto as above but 6 inch dia		
03-04-00255	Ditto as above but 8 inch dia		
03-04-00256	Ditto as above but 10 inch dia		
03-04-00257	Ditto as above but 12 inch dia		
03-04-00258	Blank flanges for 100 mm dia ductile pipes		
03-04-00259	Same as above but for 150 mm dia ductile pipes.		
03-04-00260	Ditto as above but 200 mm dia ductile pipes.		
03-04-00261	Casing pipe, mild steel, commercial 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 6 m,		
	outer diameter 8 5/8 inch.		
03-04-00262	As above but pipe with slots of 2.3 mm width, length of 6		
	m, outer diameter 8 5/8 inch		
03-04-00263	Ball bearing type 6314		
03-04-00264	Ball bearing type 7314		
03-04-00265	Gate valves for ductile pipes with bolts, nuts & gaskets, 4		
	inch dia, PN 38, ISO flanges		
03-04-00266	Gate valves for ductile pipes with bolts, nuts & gaskets, 6		
	inch dia, PN 38, ISO flanges		
03-04-00267	Flanged non-return valves for ductile pipes with bolts, nuts		
	& gaskets, 4 inch dia, PN 38, ISO flanges		
03-04-00268	Flanged non-return valves for ductile pipes with bolts, nuts		
	& gaskets, 6 inch dia, PN 38, ISO flanges		
03-04-00269	Same as above but, Q=22cum/hr (min), H=165m (max),		
	(BP 45-16).		

Code	Description	Quantity	Unit of measurement
03-04-00270	Spare part for Ingrsoll -Dresser pump Q=300m³/hr , H=220m ,V= 380v ,50Hz,1460 RPM No. 1720027-08/02 Drawing No. 1973563 year 1998/SP pump type 152 NM61 .Shaft Sleeve =4No.Drawing No. 2450 Space sleeve =4 No. Drawing No. 2460-02 Space sleeve for bearing =2 no. Drawing No. 2461 Inner race centering sleeve with collar =2 No. Drawing No. (2472-01) Innerrace centering Sleeve with color =2 no. drawing no. (2472-02) Gasket = 2no. drawing no. 45490 pump shaft (with keys)=1 no. drawing no. 2110 Sleeve =2 set Drawing no.2420 Radial flow impeller shrouded =2 set drawing no. 2250. wear ring =2 set drawing no. 1500-01 Radial flow impeller Shrouded =2 set drawing no. 1500-02. flower =4 no. drawing no. 4131. lock washer =4 no. drawing no. 6541.		
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03-04-00271	Over load range about (18-28) A		
03-04-00272	Same as above but (28-35) A		
03-04-00273	Same as above but (30-40) A		
03-04-00274	Same as above but (40-50) A		
03-04-00275 03-04-00276	Same as above but (50-63) A Electrical transformer according to IEC76 standard 1000		
	KVA 11/0.4 KV oil immersed distribution transformer furnished with conservation and off-load tap changer including the following accessories:DILA TYPE THERMOMETER WITH TWO CONTACTS WHEELSSILICAGEL BREATHER MAGNETIC OIL LEVEL.		
03-04-00277	Same as above but size 800 KVA		
03-04-00278	Electrical transformer (out door type) according to IEC 76 standard 1250 KVA 33/0.4 KV oil impressed distribution transformer furnished with conservation & off-load tap changer including the following accessories: Dial type thermometer with two contacts, wheel silica gel breather magnetic oil level gauge.		
03-04-00279	Change over switch 3 ph ,400V, 50A for generator & main electrical power		
03-04-00280	Ditto but 63 A		
03-04-00281	Ditto but 100 A		
03-04-00282	Ditto but 125 A		
03-04-00283	Ditto but 150 A		
03-04-00284	Ditto but 200 A		
03-04-00285	Ditto but 250 A		
03-04-00286	Ball bearing type 62142 RS		
03-04-00287	Ball bearing type 51216		
03-04-00288	Ball bearing type 6015		
02 04 00200	Pall bearing type 5205 7		
03-04-00289	Ball bearing type 5205 Z		
03-04-00290	Ball bearing type 6302		
03-04-00290 03-04-00291	Ball bearing type 6302 Ball bearing type N 1306		
03-04-00290 03-04-00291 03-04-00292	Ball bearing type 6302 Ball bearing type N 1306 Ball bearing type MJ 1.1/4		
03-04-00290 03-04-00291	Ball bearing type 6302 Ball bearing type N 1306		

Code	Description	Quantity	Unit of measurement
03-04-00296	Ball bearing type 2312		
03-04-00297	Ball bearing type 62082 Z		
03-04-00298	Ball bearing type 62072 Z		
03-04-00299	Ball bearing type 7307		
03-04-00300	Ball bearing type RMS 12 MS 13		
03-04-00301	Water flow meter to be installed on discharge pipes of size ND 3 inch		
03-04-00302	Water flow meter to be installed on discharge pipes of size ND 4 inch		
03-04-00303	Water flow meter to be installed on discharge pipes of size ND 28 inch		
03-04-00304	Water flow meter to be installed on discharge pipes of size ND 32 inch		
03-04-00305	Impeller for Grundfos pump size 4"*7/8		
03-04-00306	Same as item above size 5"*7/8		
03-04-00307	Same as item above size 3"*3/4		
03-04-00308	Same as item above size 4"*3/4		
03-04-00309	Timer relay (delay by off) 0.1 to 35, with 1 NO & 1 NC contact, type LA3 DRO		
03-04-00310	Grundfos submersible pump with direct coupled electrical motor and with non-return valve, control panel, 150 m three core cable, electrode to avoid dry running and cable termination kit type KM, Qmin= 14M3/H,Hmax=135M, MS 6000 380 V, 50 Hz, 3 Ph. TO BE INSTALLED ON NEW BORE WELLS. ALL CABLES TO BE PACKED SEPARATELY WITH EACH PUMP. Each set should have 40Nos (3ML) each of red oxide threaded column assemblies.		
03-04-00311	Ditto as above but:Qmin=10M3/H, Hmax=260M,Ms 6000		
03-04-00312	Ditto as above but Qmin=12M3/H, Hmax=220M, Ms 6000		