

AGENCY:	UNICEF		
PHASE:	IX		
SECTOR:	Water and Sanitation		
PROJECT:	Urban Water Supply and Sanitation		
CODE	Description	QUANTIT Y	UNIT OF MEASURE
	Rehabilitation and Maintainance of Water Supply Systems		
03-03-00001	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	2	set
03-03-00002	Ditto as above but, Qmin.= 12M3/H, Hmax= 160M. MS 6000	2	set
03-03-00003	Ditto as above but, Qmin=22M3/H, Hmax=215M. MS 6000	6	set
03-03-00004	Ditto as above but, Qmin= 14M3/H, H=370M. MS 4000	4	set
03-03-00005	Ditto as above but Qmin= 8M3/H, Hmax=380M. MS 6000	2	set
03-03-00006	Ditto as above but, Qmin=20M3/H, Hmax=270M. MS 6000	4	set
03-03-00007	Ditto as above but, Qmin=22M3/H, Hmax=290M	4	set
03-03-00008	Solar powered submersible pump Q= 180m3/day, Head =200. Each set should have 40Nos (3ML) each of red oxide threaded column assemblies.	1	set
03-03-00009	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	1	set
03-03-00010	Motor set for Grundfos submersible pump with tail cable and cable joint and control panel 400V 50HZ 3PH capacity 3.7KW	3	set
03-03-00011	Motor set for Grundfos submersible pump with tail cable and cable joint and control panel 400V 50HZ 3PH capacity 5.5KW	7	set
03-03-00012	Ditto as above but capacity 7.5KW.	4	set
03-03-00013	Ditto as above but capacity 11.0KW	10	set
03-03-00014	Ditto as above but capacity 18.5KW	10	set
03-03-00015	Ditto as above but capacity 22.0KW	5	set
03-03-00016	Ditto as above but capacity 30.0KW	4	set
03-03-00017	Ditto as above but capacity 37.0KW "	2	set
03-03-00018	Flexible electrical power cable for deep well submersible motors size 4x16 mm ²	1500	ML
03-03-00019	Ditto as above but size 4x10 mm ²	1000	Each
03-03-00020	Ditto as above but size 4x25 mm ²	1500	Each
03-03-00021	Ditto as above but size 4x4 mm ²	500	Each
03-03-00022	Control panel for submersible 11.00 KW Grundfos motor with main switch circuit breaker phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 Volt, 50 Hz, 3 PH, auto-	6	Each
03-03-00023	Ditto as above but capacity Grundfos motor 18.5KW	7	Each
03-03-00024	Ditto as above but 22.0kw	7	Each
03-03-00025	Ditto as above but capacity Grundfos motor 30.0 KW	5	Each
03-03-00026	Ditto as above but capacity Grundfos motor 37.0 KW	1	Each
03-03-00027	Ditto as above but capacity Grundfos motor for 75.0 KW	3	Each

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03-03-00028	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 foot-valve with strainer 50M cable 4x6MM2 and 4 PCS cable gland, spare parts for two years operation, O&M manual in	4	set
03-03-00029	Ditto as above but, Q=22cum/hr (min), H=165m (max), (BP 45-16), or equivalent	3	set
03-03-00030	Ditto as above but, Q=14cum/hr), H=95m (max), (BP 45-15)	3	set
03-03-00031	Ditto as above but, Q=22cum/hr (min), H=155m (max), (BP 45-	3	set
03-03-00032	Vertical motor complete set for Grundfos vertical turbine pumps, 380V, 50Hz, 2900 rpm, 3PH and capacity 15KW for BP 27-15	2	set
03-03-00033	Ditto as above but capacity 22KW for BP 45-12	2	set
03-03-00034	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	1	set
03-03-00035	Right angle gear for Grundfos vertical turbine pump,type 2GS25/3GS26, 20HP complete set	1	set
03-03-00036	Ditto as above but type 2GS45/3GS46 for 45HP, complete set	1	set
03-03-00037	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	130	Each
03-03-00038	Ditto as above but size 3 x 5/8 inch	120	Each
03-03-00039	Ditto as above but size 3 x 3/4 inch	120	Each
03-03-00040	Ditto as above but size 4 x 3/4 inch	100	Each
03-03-00041	Ditto as above butt size 4 x 7/8 inch	120	Each
03-03-00042	Ditto as above but size 5 x 7/8 inch	130	Each
03-03-00043	Sealing set for shaft seal for Grundfos vertical turbine pumps size 5/8 inch	30	Each
03-03-00044	Ditto as above but size 3/4 inch	30	Each
03-03-00045	Ditto as above but size 7/8 inch	30	Each
03-03-00046	Dittoas above but size 1 inch	20	Each
03-03-00047	Shaft coupling for Grundfos vertical turbine pumps size 5/8 inch	50	Each
03-03-00048	Ditto as above but size 3/4 inch	50	Each
03-03-00049	Ditto as above but size 7/8 inch	30	Each
03-03-00050	Driver for Grundfos vertical turbine pump type BP 16/27/45 size 3/4 inch	30	Each
03-03-00051	Ditto as above but size 5/8 inch	50	Each
03-03-00052	Ditto as above but size 7/8 inch	30	Each
03-03-00053	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 2.0 inch	22	Each
03-03-00054	Ditto as above but size 4.0 inch	22	Each
03-03-00055	Line shaft with shaft with coupling for Grundfos vertical turbine pumps size 5/8 inch x 1.8 m	50	Each
03-03-00056	Dittoas above but size 3/4 inch x1.8m	50	Each
03-03-00057	Ditto as above but size 7/8 inch x1.8m	40	Each
03-03-00058	Column pipes for Grundfos vertical turbine pumps, size 4.0 inch x	120	Each

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03-03-00059	Bottom column pipe complete with shaft, coupling and bearing with thread in bottom end, size 3 x 5/8 inch	30	Each
03-03-00060	Ditto as above but size 3 x 3/4 inch	30	Each
03-03-00061	Ditto as above but size 4 x 3/4 inch	30	Each
03-03-00062	Ditto as above but size 4 x 7/8 inch	30	Each
03-03-00063	Diesel engine for operating vertical turbine pump complete set with clutch MWM D-3011 max altitude 1 200m RPM 2900	2	Each
03-03-00064	Gland packing for ingersoll dressor pumps type 10 UZD	20	ML
03-03-00065	Gland packing size 1/2 inch; pH 5-8.5 RPM = 2440 H = 80m	200	ML
03-03-00066	Gland packing size 3/4 inch pH 5-8.5 RPM = 2440 H = 150m	240	ML
03-03-00067	Gland packing size 3/8 inch pH 5-8.5. RPM = 2900, 20 bar	140	ML
03-03-00068	Gland packing size 5/8 inch pH 5-8.5 RPM = 2440 H = 40m	140	ML
03-03-00069	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,	1	Each
03-03-00070	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,	4	Each
03-03-00071	Ditto as above but: Q=60 cum/hr, H=60m	1	Each
03-03-00072	Ditto as above but Q=50 cum/hr, H=80m	1	Each
03-03-00073	Ditto as above but Q=100 cum/hr, H=100m	1	Each
03-03-00074	Ditto as above but Q=150 cum/hr, H=120m	3	Each
03-03-00075	Ditto as above but Q=200 cum/hr, H=170m	2	Each
03-03-00076	Ditto as above but Q=82 cum/hr, H=380m	2	Each
03-03-00077	Ditto as above but Q=55 cum/hr, H=120m	2	Each
03-03-00078	Ditto as above but Q=200 cum/hr, H=200m	3	Each
03-03-00079	Ball bearing 7317	50	Each
03-03-00080	Ball bearing type SKF 6312, 2RS	20	Each
03-03-00081	Ball bearing type 7309	40	Each
03-03-00082	Ball bearing type 6218 C3/SKF	24	Each
03-03-00083	Ball bearing type SKF 6311, 2RS	20	Each
03-03-00084	Ball bearing type 6322	10	Each
03-03-00085	Ball bearing type 6328C3	20	Each
03-03-00086	Ball bearing type 2317	10	Each
03-03-00087	Ball bearing type 7317 BG	20	Each
03-03-00088	Ball bearing type 6322C3	50	Each
03-03-00089	Ball bearing type 7216	10	Each
03-03-00090	Ball bearing type 6310	60	Each
03-03-00091	Ball bearing type 6309	60	Each
03-03-00092	Ball bearing type 6320 C3	15	Each
03-03-00093	Ball bearing type SKF 7310, 2RS	40	Each
03-03-00094	Ball bearing type NU 218	10	Each
03-03-00095	Ball bearing type 7314	100	Each
03-03-00096	Ball bearing type N216 MC3/SKF 217 C3	10	Each
03-03-00097	Ball bearing type 6217 C3/SKF 5217 C3	15	Each
03-03-00098	Ball bearing type 6319 C3	50	Each
03-03-00099	Ball bearing type 6316 C3	50	Each

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03-03-00100	Ball bearing type 6315	10	Each
03-03-00101	Ball bearing type 6316	60	Each
03-03-00102	Ball bearing type 5407	10	Each
03-03-00103	Ball bearing type 7410	10	Each
03-03-00104	Electrical Motor with control panel for booster pump. P=185 KW at 2960 RPM V=400V 50 HZ 3P mounting position	2	Each
03-03-00105	Electrical Motor with control panel for high lift pump. P=320 KW at 1450 RPM, V=400V, 50 HZ, 3P, mounting position: IM 1001 (IM D2) IP22/4C01	2	Each
03-03-00106	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.	1	Each
03-03-00107	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	6	Each
03-03-00108	Ditto as above but capacity 37 Kw, Grundfos SP(30-43) Franklin	4	Each
03-03-00109	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	2	Each
03-03-00110	Dittoas above but capacity 75 Kw, 137 A, 2960 RPM, induction	7	Each
03-03-00111	Ditto as above but capacity 110 Kw, 267 A, 1480 RPM , WEG 500 D250 M CEA 6743/1	2	Each
03-03-00112	Ditto as above but capacity 200 Kw	2	Each
03-03-00113	Automatic air-circuit breaker, MCCB, 500V, 50Hz & 3P. Capacity 630-800	4	Each
03-03-00114	Dittoas above but capacity 150-200.	4	Each
03-03-00115	Ditto as above but capacity 400-500 amps.	4	Each
03-03-00116	Ditto as above but capacity 80-120amps.	260	Each
03-03-00117	Ditto as above but capacity 50-63 amps.	210	Each
03-03-00118	Ditto as above but capacity 30-40 amps.	10	Each
03-03-00119	Flexible electrical power cable for 400V, size 1x240 mm2	100	ML
03-03-00120	Dittoas above but size 1x95 mm2	100	ML
03-03-00121	Ball bearing type 7412	2	ML
03-03-00122	Ball bearing type 6216	4	ML
03-03-00123	Flexible electrical power cable for 400V, size 4*35 mm2	700	ML
03-03-00124	Oil for high tension transformers, 33/11KV and 11/0.4 KV	1000	litter
03-03-00125	Electric contactors, 500V, 50 Hz, coil voltage 380V, Telemecanic France made 60 Amper	40	Each
03-03-00126	Ditto as above but, 80 Ampere	20	Each
03-03-00127	Ditto as above but, 100 Ampere	20	Each
03-03-00128	Phase failure, three phase asymmetry and sequence relay, 380 V, 50 Hz Type RA 9041	110	Each
03-03-00129	Self-emulating electrical tape 19mm x 10m. for high tension voltage-moister resistant ozone resistant	100	ML
03-03-00130	Insulating tape, low voltage, 19mm x 33m.	100	Each
03-03-00131	Shrinkable terminations (12,000V) three core for cable size (50- 95)mm 60 cm long	10	Each

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03-03-00132	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	1050	Each
03-03-00133	Ditto as above but, PN 25, size 3.0 inch	2000	Each
03-03-00134	Ditto as above but, PN 25, size 4.0 inch	2500	Each
03-03-00135	Ditto as above but, PN 25, size 6.0 inch	500	Each
03-03-00136	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF threaded to BS21 (ISO R7), size 2.0 inch, PN 25	50	Each
03-03-00137	Ditto as above but, PN 25, size 3.0 inch, PN 25	60	Each
03-03-00138	Ditto as above but, size 4.0 inch, PN 25	60	Each
03-03-00139	Ditto as above but, PN 25, size 6.0 inch, PN 25	20	Each
03-03-00140	Brass non-return valve set, FxF, threaded to BS21 (ISO R7), PN 25, size 2.0 inch, Food quality	20	Each
03-03-00141	Ditto as above but, size 3.0 inch, PN 25	30	Each
03-03-00142	Ditto as above but, size 4.0 inch, PN 25	50	Each
03-03-00143	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" x 2"	100	Each
03-03-00144	Ditto as above but, size 3.0 inch, PN 25	150	Each
03-03-00145	Ditto as above but, size 4.0 inch, PN 25	150	Each
03-03-00146	Ditto as above but, size 6.0 inch, PN 25	25	Each
03-03-00147	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" x 2" x 2"	50	Each
03-03-00148	Ditto as above but, size 3.0 inch, PN 25	130	Each
03-03-00149	Ditto as above but, size 4.0 inch, PN 25	150	Each
03-03-00150	Ditto as above but, size 6.0 inch, PN 25	75	Each
03-03-00151	Malleable cast iron, hot dip galvanized equal unions for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, size 2.0 inch, PN 25. 2" x 2"	60	Each
03-03-00152	Ditto as above but, size 3.0 inch, PN 25	150	Each
03-03-00153	Ditto as above but, size 6.0 inch, PN 25	45	Each
03-03-00154	Ditto as above but, size 4.0 inch, PN 25	150	Each
03-03-00155	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	60	Each
03-03-00156	Ditto as above but, size 6.0 x 3.0 inch.	50	Each
03-03-00157	Ditto as above but, size 6.0 x 2.0 inch.	10	Each
03-03-00158	Ditto as above but, size 4.0 x 3.0 inch.	90	Each
03-03-00159	Ditto as above but, size 4.0 x 2.0 inch	10	Each
03-03-00160	Ditto as above but, size 3.0 x 2.0 inch	10	Each
03-03-00161	Viking Johnson coupling for 90 mm, PN 25, Standard length pipe	600	Each
03-03-00162	Ditto as above but for 110 mm pipe.	600	Each
03-03-00163	Ditto as above but for 160 mm pipe.	140	Each

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03-03-00164	V. J. Easy clamps for 90 mm, PN 25, Standard length pipe	520	Each
03-03-00165	Ditto as above but for 110 mm pipe.	520	Each
03-03-00166	Ditto as above but for 160 mm pipe.	120	Each
03-03-00167	Ditto as above but, but for 220 mm pipe.	20	Each
03-03-00168	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	10	Each
03-03-00169	Ditto as above but for 100mm pipe.	10	Each
03-03-00170	Ditto as above but for 150mm pipe.	10	Each
03-03-00171	Ditto as above but for 200mm pipe.	10	Each
03-03-00172	Ditto as above but for 300mm pipe.	10	Each
03-03-00173	Ductile iron pipe with rubber gasket joints (Tighten joints) with rubber gaskets, 6 meters nominal length, 3 inch diameter. PN 25	3250	Each
03-03-00174	Ditto as above but 4 inch dia.	4000	Each
03-03-00175	Ditto as above but 6 inch dia.	1700	Each
03-03-00176	Ditto as above but 8 inch dia.	1000	Each
03-03-00177	Ditto as above but 12 inch dia.	500	Each
03-03-00178	Ditto as above but 16 inch dia.	1000	Each
03-03-00179	Equal elbows for ductile pipes with rubber gasket joints, bolts & spigot, 90 degree, FxF, 3 inch dia, PN 25.	200	Each
03-03-00180	Ditto as above but 4 inch dia.	450	Each
03-03-00181	Flanged equal elbow size 6", 90 degree with socket, spigot, bolts and rubber	260	Each
03-03-00182	Ditto as above but 8 inch dia.	160	Each
03-03-00183	Ditto as above but 10 inch dia.	160	Each
03-03-00184	Ditto as above but 12 inch dia.	70	Each
03-03-00185	Equal elbows for ductile pipes with rubber gasket joints, bolts, spigot & rubber, 45 degree, FxF, 3 inch diam, PN 25, 3"*3"	75	Each
03-03-00186	Ditto as above but 4 inch diam	150	Each
03-03-00187	Flanged equal elbow size 6"*6", 45 degree with socket, spigot, and rubber	30	Each
03-03-00188	Ditto as above but 8 inch diam	20	Each
03-03-00189	Ditto as above but 10 inch diam	10	Each
03-03-00190	Ditto as above but 12 inch diam	10	Each
03-03-00191	Equal Tees for ductile pipes with rubber gasket joints, bolts & spigot, FxFxF, 3 inch diam, PN 25, 3"*3"*3"	200	Each
03-03-00192	Ditto as above but 4 inch diam	270	Each
03-03-00193	Ditto as above but 6 inch diam	95	Each
03-03-00194	Ditto as above but 8 inch diam	45	Each
03-03-00195	Ditto as above but 10 inch diam	13	Each
03-03-00196	Ditto as above but 12 inch diam	30	Each
03-03-00197	Ductile Socket with rubber, bolts & spigot 3x3 inch dia, PN 25.	30	Each
03-03-00198	Ditto as above but 4x4 inch dia	50	Each
03-03-00199	Ditto as above but 4x3 inch dia	30	Each
03-03-00200	Ductile Socket with rubber, bolts & spigot 3x3 inch dia, PN 25.	20	Each
03-03-00201	Ditto as above but 6x3 inch dia	115	Each
03-03-00202	Ditto as above but 6x6 inch dia	115	Each
03-03-00203	Ditto as above but 8x8 inch dia	8	Each
03-03-00204	Ductile reducer size 8x6 inch dia	8	Each
03-03-00205	Ditto as above but 8x4 inch dia	7	Each
03-03-00206	Ditto as above but 8x3 inch dia	3	Each
03-03-00207	Ditto as above but 10x4 inch dia	7	Each
03-03-00208	Ditto as above but 10x6 inch dia	7	Each
03-03-00209	Ditto as above but 10*8 inch dia	5	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00210	Ductile equal socket size 10x10 inch dia	7	Each
03-03-00211	Ditto as above but 12x12 inch dia	7	Each
03-03-00212	Flanged Parallel reducers for ductile pipes with rubber gasket joints, bolts & spigot ExE 12x10 inch dia PN 25	12	Each
03-03-00213	Ditto as above but 12 x 8 inch dia	12	Each
03-03-00214	Ditto as above but 12 x 6 inch	2	Each
03-03-00215	Ditto as above but 10 x 8 inch dia	2	Each
03-03-00216	Ditto as above but 10 x 6 inch dia	2	Each
03-03-00217	Ditto as above but 10 x 4 inch dia	12	Each
03-03-00218	Ditto as above but 8 x 6 inch dia	56	Each
03-03-00219	Ditto as above but 8 x 4 inch dia	14	Each
03-03-00220	Ditto as above but 6 x 4 inch dia	104	Each
03-03-00221	Ditto as above but 6 x 3 inch dia	56	Each
03-03-00222	Ditto as above but 4 x 3 inch dia	55	Each
03-03-00223	Ductile Equal push in sockets for ductile pipes with rubber gasket joints ExE 4 inch dia PN 25	10	Each
03-03-00224	Ditto as above but 6 inch dia, flanged with bolts, nuts & spigot	10	Each
03-03-00225	Ditto as above but 8 inch dia	3	Each
03-03-00226	Standard socket & spigot joints for ductile pipes with rubber gasket joints ExM 3 inch dia PN 25	170	Each
03-03-00227	Ditto as above but 4 inch dia	340	Each
03-03-00228	Ditto as above but 6 inch dia	165	Each
03-03-00229	Ditto as above but 8 inch dia	115	Each
03-03-00230	Ditto as above but 10 inch dia	60	Each
03-03-00231	Ditto as above but 12 inch dia	60	Each
03-03-00232	Ductile Iron Adapters from socket unit rubber joint to , PN 25 flanged end 3 inch dia	20	Each
03-03-00233	Ditto as above but, 4 inch dia	20	Each
03-03-00234	Ditto as above but, 6 inch dia	20	Each
03-03-00235	Ditto as above but, 8 inch dia	6	Each
03-03-00236	Bolted flanged spigot joint for ductile pipes, with bolts, nuts & gaskets 3 inch dia PN 25 ISO flanges	10	Each
03-03-00237	Ditto as above but 4 inch dia	20	Each
03-03-00238	Ditto as above but 6 inch dia	10	Each
03-03-00239	Ditto as above but 8 inch dia	5	Each
03-03-00240	Ditto as above but 10 inch dia	5	Each
03-03-00241	Gate valves for ductile pipes with bolts, nuts & gaskets, 3 inch dia PN 25 ISO flanges	130	Each
03-03-00242	Ditto as above but 4 inch dia	240	Each
03-03-00243	Ditto as above but 6 inch dia	170	Each
03-03-00244	Ditto as above but 8 inch dia	100	Each
03-03-00245	Ditto as above but 10 inch dia	60	Each
03-03-00246	Ditto as above but 12 inch dia	58	Each
03-03-00247	Flanged non-return valves for ductile pipes with bolts, nuts & gaskets 3 inch dia PN 25 ISO flanges	20	Each
03-03-00248	Ditto as above but 4 inch dia	50	Each
03-03-00249	Ditto as above but 6 inch dia	10	Each
03-03-00250	Ditto as above but 8 inch dia	5	Each
03-03-00251	Ditto as above but 10 inch dia	2	Each
03-03-00252	Flanged air valves for ductile pipes with bolts, nuts & gaskets, 3 inch dia PN 25 ISO flanges	20	Each
03-03-00253	Flanged foot valves with strainers 4 inch dia	20	Each
03-03-00254	Ditto as above but 6 inch dia	15	Each
03-03-00255	Ditto as above but 8 inch dia	15	Each
03-03-00256	Ditto as above but 10 inch dia	2	Each
03-03-00257	Ditto as above but 12 inch dia	10	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00258	Blank flanges for 100 mm dia ductile pipes	90	Each
03-03-00259	Same as above but for 150 mm dia ductile pipes.	30	Each
03-03-00260	Ditto as above but 200 mm dia ductile pipes.	10	Each
03-03-00261	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	150	Each
03-03-00262	As above but pipe with slots of 2.3 mm width, length of 6 m, outer diameter 8 5/8 inch	50	Each
03-03-00263	Ball bearing type 6314	20	Each
03-03-00264	Ball bearing type 7314	20	Each
03-03-00265	Gate valves for ductile pipes with bolts, nuts & gaskets, 4 inch dia PN 38 ISO flanges	10	Each
03-03-00266	Gate valves for ductile pipes with bolts, nuts & gaskets, 6 inch dia PN 38 ISO flanges	10	Each
03-03-00267	Flanged non-return valves for ductile pipes with bolts, nuts & gaskets 4 inch dia PN 38 ISO flanges	10	Each
03-03-00268	Flanged non-return valves for ductile pipes with bolts, nuts & gaskets 6 inch dia PN 38 ISO flanges	10	Each
03-03-00269	Same as above but, Q=22cum/hr (min), H=165m (max), (BP 45-	3	Set
03-03-00270	Spare part for Ingersoll -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.	4	Set
03-03-00271	Over load range about (18-28) A	100	Each
03-03-00272	Same as above but (28-35) A	100	Each
03-03-00273	Same as above but (30-40) A	100	Each
03-03-00274	Same as above but (40-50) A	100	Each
03-03-00275	Same as above but (50-63) A	100	Each
03-03-00276	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	2	Each
03-03-00277	Same as above but size 800 KVA	1	Each
03-03-00278	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	1	Each
03-03-00279	Change over switch 3 ph ,400V, 50A for generator & main electrical power	110	Each
03-03-00280	Ditto but 63 A	70	Each
03-03-00281	Ditto but 100 A	210	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00282	Ditto but 125 A	110	Each
03-03-00283	Ditto but 150 A	110	Each
03-03-00284	Ditto but 200 A	10	Each
03-03-00285	Ditto but 250 A	10	Each
03-03-00286	Ball bearing type 62142 RS	10	Each
03-03-00287	Ball bearing type 51216	10	Each
03-03-00288	Ball bearing type 6015	20	Each
03-03-00289	Ball bearing type 5205 Z	10	Each
03-03-00290	Ball bearing type 6302	6	Each
03-03-00291	Ball bearing type N 1306	6	Each
03-03-00292	Ball bearing type MJ 1.1/4	10	Each
03-03-00293	Ball bearing type 6305	6	Each
03-03-00294	Ball bearing type 7312	6	Each
03-03-00295	Ball bearing type MJ 1.3/8	6	Each
03-03-00296	Ball bearing type 2312	10	Each
03-03-00297	Ball bearing type 62082 Z	6	Each
03-03-00298	Ball bearing type 62072 Z	6	Each
03-03-00299	Ball bearing type 7307	6	Each
03-03-00300	Ball bearing type RMS 12 MS 13	4	Each
03-03-00301	Water flow meter to be installed on discharge pipes of size ND 3	25	Each
03-03-00302	Water flow meter to be installed on discharge pipes of size ND 4	25	Each
03-03-00303	Water flow meter to be installed on discharge pipes of size ND 28	1	Each
03-03-00304	Water flow meter to be installed on discharge pipes of size ND 32	1	Each
03-03-00305	Impeller for Grundfos pump size 4"*7/8	100	Each
03-03-00306	Same as item above size 5"*7/8	50	Each
03-03-00307	Same as item above size 3"*3/4	50	Each
03-03-00308	Same as item above size 4"*3/4	50	Each
03-03-00309	Timer relay (delay by off) 0.1 to 35, with 1 NO & 1 NC contact, type LA3 DRO	50	Each
03-03-00310	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	2	Set
03-03-00311	Ditto as above but: Qmin=10M3/H, Hmax=260M, Ms 6000	1	Set
03-03-00312	Ditto as above but Qmin=12M3/H, Hmax=220M, Ms 6000	2	Set
	Water Quality and Pollution Prevention		
03-03-00313	Calcium hypo chlorite 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.	81,000	Kg
03-03-00314	Chlorine gas (purity 99.7%) in one ton cylinder (empty cylinders will be provided by the Iraqi government) including repairing of old chlorine cylinders before refilling.	110	Ton
03-03-00315	Chlorine gas (purity 99.7%) in 65 Kg cylinder (empty cylinders will be provided by the Iraqi government) including repairing of old chlorine cylinders before refilling.	60	Ton

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00316	Aluminum sulfate for purifying water, AL ₂ O ₃ =16.5% Min, FE ₂ O ₃ =0.02% Max, PB=Nil, AS=1ppm Max, insoluble in water = 0.3% Max, pH (1% solution) = 1.7, solubility in water = 70 gm in 100 cc at 100 degree centigrade, granule size less than 1.19 mm = 3%, packed in export quality polyethylene bags of 50 Kg each.	310	Ton
03-03-00317	Slow dissolving chlorine tablets of each 200 gm for disinfecting water (used also for swimming pool), packed in 2 Kg plastic container (or any suitable size).	50	Kg
03-03-00318	Chlorine solution dosing pump, type ALLDOS, KM 220-1 or equivalent, capacity 24Lit/hr, Back pressure = 10 Bar, Strokes (No Load) = 120, single phase, 240 V, 50 Hz, 1,500 RPM. With O&M manuals and spare parts catalogue in Arabic/English, and spare parts for two years operation to be included as well as section line with none return valve including cleaning system for flushing.	120	Set
03-03-00319	V-notch, full vacuum chlorinator, wall mounted, single cylinder operation for open application, including 10 M of 6.5mm vacuum tube, 16 M of 19 mm solution hose, hose clips, bottle of leach detector, instruction manual and spare parts for two years operation. Capacity = 250 g/hr, water gauge = 150 psi, gas gauge = 200 psi, operating pressure 15M, back pressure = 0 with injector set. With O&M manuals and spare parts catalogue in Arabic/English <u>HOSE/PIPE TO BE SUPPLIED SEPARATELY</u>	6	Set
03-03-00320	Ditto as above but, capacity = 500 g/hr	6	Set
03-03-00321	Ditto as above but, capacity = 1,000 g/hr	4	Set
03-03-00322	Same as above, floor mounted, capacity = 2,000 g/hr	2	Set
03-03-00323	Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 <u>Valve Body - Part No. IPXN 83388</u>	52	Each
03-03-00324	Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 <u>Valve Cover RPVC - Part No: IPXN 82822</u>	52	Each
03-03-00325	Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 <u>Valve Seat RPVC - Part No: IPNX 82821</u>	52	Each
03-03-00326	Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 <u>Ball Pyrex - Part No. NPXA 150</u>	52	Each
03-03-00327	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 Diaphragm - Part No. 10-2257-401	12	Each
03-03-00328	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Oil Gauge Window - Part No. 10 147</u>	22	Each
03-03-00329	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Double Ball Valve - Part No. 10 137-41</u>	12	Each
03-03-00330	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Ball Cage - Part No. 10 786-41</u>	12	Each
03-03-00331	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Ball - Part No. 10 139</u>	12	Each
03-03-00332	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>cover for discharge (Non-return) Valve</u>	12	Each
03-03-00333	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Pressure Spring - Part No. 10 890</u>	12	Each
03-03-00334	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Adjusting Spindle - Part No. 10 2081-4</u>	12	Each
03-03-00335	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 <u>Cup Nut - Part No. 50 208</u>	12	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00336	Aluminum Sulfate Diaphragm dosing pump with variable manual stroke control mechanism with 2.5 meter suction hose and 3.5 meter discharge hose and relief valve for pump protection against over pressure Q=500 l/hr, H=2 bar 240v, 50 HZ, single phase with all accessories required for installation and spare parts for 2 years	8	Set
03-03-00337	Vertical Multistage booster pump for chlorination purpose. Q=4 cum/hr, H=120 m with electrical drive motor and control panel, 280V, 50Hz, 2 phase with spare parts for two years of operation	10	Set
03-03-00338	HDPE flexible pipe, heavy duty for chlorination purpose, diameter 1 inch with joints (12-16)	200	ML
03-03-00339	HDPE flexible pipe, heavy duty for chlorination purpose, diameter 3/4 inch with joints (12-16) bar	200	ML
03-03-00340	Base for mounting 65 Kg chlorine gas cylinders vertically with a (0-150) kg balance for monitoring of chlorine weight	2	Each
03-03-00341	Spare parts for powder chlorinator type G020 from Dosapro Milton Roy - Pump Series GTM Model A Filter for foot valve. See Instruction Manual, page I-4,	12	Each
03-03-00342	Valve Seat for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A	12	Each
03-03-00343	Valve Housing for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A	12	Each
03-03-00344	Ball for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	20	Each
03-03-00345	Ball Seat for foot valve. See Instruction Manual, page I-4, Fig	10	Each
03-03-00346	4-Function Valve. See Instruction Manual, page I-4, Fig 1.4a, B.	14	Each
03-03-00347	Valve Housing for Injection Nozzle. See Instruction Manual, page I-4, Fig 1.4a, C	14	Each
03-03-00348	Spring for Injection Nozzle. See Instruction Manual, page I-4, Fig 1.4a, C	14	Each
03-03-00349	Ball for Injection Nozzle. See Instruction Manual, page I-4, Fig	16	Each
03-03-00350	Ball Seat for Injection Nozzle. See Instruction Manual, page I-4, Fig 1.4a, C	16	Each
03-03-00351	Valve Body Seat for Injection Nozzle. See Instruction Manual, page I-4, Fig 1.4a, C	16	Each
03-03-00352	Stroke Adjustment Knob for Mechanical assembly. See Dosapro Instruction Manual, page I-1, Fig 1.2a	14	Each
03-03-00353	O-Ring for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	20	Each
03-03-00354	Stroke Adjustment Screw for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	20	Each
03-03-00355	Crosshead for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	20	Each
03-03-00356	Male Eccentric Piece for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	14	Each
03-03-00357	Stroke Locking Device for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	14	Each
03-03-00358	Half stop ring for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	14	Each
03-03-00359	Tangential Wheel for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	14	Each
03-03-00360	Stop Bearing for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	14	Each
03-03-00361	Cover Seal for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	16	Each
03-03-00362	Liquid End Mounting Assembly. See Instruction Manual, page I-1, Fig 1.2a	16	Each
03-03-00363	Liquid End. See Instruction Manual, page I-1, Fig 1.2a	16	Each
03-03-00364	Ball bearings for powder chlorinator, size SKF 6200	14	Each
03-03-00365	Ball bearings for powder chlorinator, size SKF 6201	64	Each
03-03-00366	Ball bearings for powder chlorinator, size SKF 6202	64	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00367	Ball bearings for powder chlorinator, size SKF 6203	64	Each
03-03-00368	Gas masks/breathing apparatus for protection from chlorine gas used in water treatment facilities	110	Each
03-03-00369	Glass tube special for OZONE Generator type G250 from company (SHOTT GERATE) or equivalent. Glass thickness 1mm and diameter 4 cm and length 126 cm	15	Each
03-03-00370	Fuse 0.5A, V 10KV, thickness 1mm, internal diameter 5mm and length 15cm part number L r 7004310	20	Each
03-03-00371	Spare parts for V-notch chlorinator type V-50 BM25-164	20	Each
03-03-00372	Spare parts for V-notch chlorinator type V-50 BM25-164: flexible connection part	40	Each
03-03-00373	Ditto but Hose clamp, part number U. 553 (19.5MM)	40	Each
03-03-00374	Ditto but Hose clamp, part number U.553 (25 MM)	40	Each
03-03-00375	Ditto but Hose adapter, part number P. 40112	40	Each
03-03-00376	Ditto but Auxiliary cylinder valve, part number U. 12 43 B	40	Each
03-03-00377	Ditto but Lead gasket, part number P.2476 B	40	Each
03-03-00378	Ditto but Lead gasket, part number P.2619	40	Each
03-03-00379	Ditto but Solution discharge line, part number RK811-4305	70	Each
03-03-00380	Ditto but Strainer 3/4inch, part number U. 810	70	Each
03-03-00381	Ditto but Wreck, part number P.5822	70	Each
03-03-00382	Aluminum Sulfate Diaphragm dosing pump with variable manual stroke control mechanism with 2.5 meter suction hose and 3.5 meter discharge hose and relief valve for pump protection against over pressure Q=100 l/hr, H=2 bar 240v, 50 HZ, single phase with all accessories required for installation and spare parts for 2 years operation and O&M manual in English/ Arabic with parts	2	Set
03-03-00383	Same as item above but: Q=500/hr, H= 2 bar	6	
03-03-00384	Pipes and fittings for vacuum gas chlorinator type ALLDOS, capacity 4000 g/hr. Ref: ALLDOS Quotation Nr. 39529 for Erbil	1	Set
03-03-00385	Same as item above but: Quotation Nr. 39531 for Ifraz plant (19)	1	Set
	Waste Management (Liquid and Solid)		
03-03-00386	Dumper with half cubic meter bucket, 15hp, with two years spare parts	5	Each
03-03-00387	Tractor and trailer C/W, 2 years spare parts, operators, maintenance & parts manuals in English	9	Each
03-03-00388	Garbage collector truck , capacity 11 cum, 4 ton, type forward control with left hand drive, wheel base 4300mm, 6 cyl. in line 4- stroke, liquid cooled direct injection diesel engine with exhaust driven turbocharger and intercooler, color-white, including garbage collector body with export specifications for Iraq with manufacturer recommended first service and fast moving spare	5	Each
03-03-00389	Same as above but Capacity 2.5 MTN, 6 CUM.	5	Each
03-03-00390	Spare parts for mechanical damper, AUSA model 108 DH with Hatz engine 1 D8 1 z with the following specification:- engine 14 BHP at 2900 rpm, lifting capacity : up to 1000 kgs - gears: 4 forward and 4 reverse- brakes: hydraulic- rear tyers : 135 R 12, front tyers : 6.00- 16- max.speed : 21 km/h- steering: mechanical - hopper capacity: 0.5 CM. heaped - accidental tipping protection: mechanical blocking system for the hopper lever, piston set	10	Each
03-03-00391	Same as above but: Piston ring set.	10	Each
03-03-00392	Same as above but: washer set	10	Each
03-03-00393	Same as above but: back tyres	40	Each
03-03-00394	Same as above but: front tyres	40	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00395	Same as above but: connecting road bearing	10	Set
03-03-00396	Same as above but: main crank shaft bearing	10	Each
03-03-00397	Same as above but: cylinder head	10	Set
03-03-00398	Same as above but: fuel pump	10	Set
03-03-00399	Same as above but: nozzle	10	Set
03-03-00400	Same as above but: oil pump	10	Set
03-03-00401	Same as above but: starter motor	10	Set
03-03-00402	Caterpillar grader type 120 H, with spare parts for two years	2	Each
03-03-00403	Tip truck with dumper storage plan, Capacity 12 MT with spare parts for two years operation	2	Each
03-03-00404	Wheel loader model: general purpose bucket with straight edge teeth engine: diesel engine flywheel horse power: : gross 185 hp at 2200 rpm - tyre: 20.5-22-16 pr (13) tubeless tyres	4	Each
03-03-00405	CESSPIT EMPTIER, TRUCK CAPACITY 9 cum, type, forward control with left hand drive, wheel base 4700mm, 6 cyl. in line 4-stroke, liquid cooled direct injection diesel engine with exhaust driven turbocharger and intercooler, color-white, including Cesspit Emptier body with export specifications for Iraq with Manufacturer recommended first service and fast moving spare parts kit with manual in English and spare parts catalogue	2	Each
03-03-00406	Tyre with internal tube, size 1200x20 for tip trucks, type Scania.	220	Each
03-03-00407	Tyre with internal tube, size 1200x24 for tip trucks, type Scania/	120	Each
03-03-00408	Tyre with internal tube, size 1300x24 for grader, type caterpillar.	40	Each
03-03-00409	Tyre with internal tube, size 1400x24 for grader.	30	Each
03-03-00410	Tyre with internal tube, size 17.5x25 for shovel, type Kawasaki	28	Each
03-03-00411	Tyre with internal tube, size 20.5x25 for caterpillar Shovel.	44	Each
03-03-00412	Tyre with internal tube, size 16x205 for Light vehicles	120	Each
03-03-00413	Tyre with internal tube, size 16.9/14 x 28 for Anter tractor	20	Each
03-03-00414	Batteries, size 12x19x135 ampere for shovel and Bulldozer.	100	Each
03-03-00415	Batteries, size 12x11x170 ampere for pick-up and Land Cruiser	50	Each
03-03-00416	Mobile workshop, for maintaining and repairing sanitation vehicles complete with repairing tools and spare parts for two	2	Each
03-03-00417	Diesel operated air compressor type (AIR MAN rotary PDR-370 ser no. 13.8201) complete set with spare parts for two years	1	Each
03-03-00418	Centrifugal Compressor Sewer Cleaner type Vactor 2100 Series.Design: Exclusive Vactor Model- Flex(R), Vacuum power: Dual centrifugal compressor, Power source: 6 cyl.aux.engine, pickup hose 203mm diameter, debris body capacity: up to 12 M3, water tank capacity 5678 L, water pump: Vactor jet Rodder, 100 GPM at 2500 PSI, Pump operating speed: 13 cycles per minute. Mounted on a suitable vehicle truck	1	Set
03-03-00419	Vehicle Fuel injection pump tester (bench), made including 12 injector pipes	1	Set
03-03-00420	Lathe machine 1.5M long, driven by 3 phase electrical motor 400V 50HZ	1	Each
03-03-00421	Hydraulic press 150MTN	1	Each
03-03-00422	Vertical drilling machine medium size, driven by electrical motor 400 V 50 HZ	1	Each
03-03-00423	Water pump for Scania garbage collector truck type 94G, 18CUM, 12MTN complete Part No. 1314406	7	Each
03-03-00424	Injection pump for Scania truck type 94G.Part No. 348987	14	Each
03-03-00425	Turbo charger for Scania truck type 94G.Part No. 1322999	14	Each
03-03-00426	Electronically control for Garbage body of CALABRESE for Scania garbage collector type 94G part no. P/N 7380470-	14	Each
03-03-00427	spare parts for Caterpillar Grader Model 120H: Piston part No.	24	Each
03-03-00428	Ring Piston(Top)Part No. 107-7787	24	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00429	Ring piston (Intermediate) Part No. 7E-5786	24	Each
03-03-00430	Ring Piston (Oil) part No. 7C-5232	24	Each
03-03-00431	Connecting rod bearing Part No. 7W- 9415	4	Set
03-03-00432	Crank shaft bearing Part No. 107-7708	4	Set
03-03-00433	Crank Shaft Assy Part No. 1051- 1725	4	Each
03-03-00434	Cylinder Head Gasket Part No.107-7832	4	Each
03-03-00435	Cylinder Head Assy part No.119-3065	4	Each
03-03-00436	Cam shaft Part No. 134-5276	4	Each
03-03-00437	Thrust Washer 107-7602	4	Set
03-03-00438	Starter Motor 111-4275	4	Each
03-03-00439	Air compressor 1046-6046	4	Each
03-03-00440	Cylinder Head cover 119-2960	4	Each
03-03-00441	Cylinder Block 100-4948	2	Each
03-03-00442	Turbo charger 115-5853	4	Each
03-03-00443	Water pump Part No. 7E-7398	4	Each
03-03-00444	Oil Pump 119-2924	4	Each
03-03-00445	Oil Filter 2P-2717	100	Each
03-03-00446	Radiator 7C-2099	4	Each
03-03-00447	Fuel Filter 1R-0751	100	Each
03-03-00448	Air filter primary 6I-2499	20	Each
03-03-00449	Air Filter secondary 6I-2500	20	Each
03-03-00450	injector Part No. 107-7733	24	Each
03-03-00451	Control Gp-system electronic. Part No. 149-6082.	4	Each
03-03-00452	Gp-Planetary Part No. 9w- 5128	2	Each
03-03-00453	Alternator 6N-9294	4	Each
03-03-00454	Transmission 149-6082	2	Each
03-03-00455	Spare parts for Scania Garbage collector P94GB, piston part No 1332749	22	Set
03-03-00456	Ring piston (Top) 371993	22	Set
03-03-00457	Ring set (Medium) 22995	22	Set
03-03-00458	Ring set (bottom) 245486	22	Set
03-03-00459	Connecting rod bearing Part No. 346879	22	Set
03-03-00460	Crank shaft bearing STD 279609	22	Set
03-03-00461	Crank shaft Assy Part No.357780	22	Each
03-03-00462	Cylinder Head Assy part No.1321236	22	Each
03-03-00463	Washer thrust Part No. 255573	22	Set
03-03-00464	Starter Motor Part No. 349575	20	Each
03-03-00465	Alternator Part No. 1377400	22	Each
03-03-00466	Turbo charger 1395244	22	Each
03-03-00467	Cylinder Block Part No. 350859	3	Each
03-03-00468	Clutch release bearing 1407430	22	Each
03-03-00469	Clutch friction disc Part No. 1335282	22	Each
03-03-00470	Clutch cover Part No. 1335281	22	Each
03-03-00471	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 - Air compressor Part No. 29-01/46	10	
03-03-00472	Same as item above but: Crank shaft part No. 21-15/1	3	Each
03-03-00473	Same as item above but: Piston Part No. 21-15/3	30	Each
03-03-00474	Same as item above but: Ring set Part No. 21-15/6	30	Each
03-03-00475	Same as item above but: Big end bearing Part No. 21-15/11	10	Set
03-03-00476	Same as item above but: Main bearing Part No.21-15/12	10	Set
03-03-00477	Same as item above but: Thrust Washer Part No. 21-15/13	10	Set
03-03-00478	Same as item above but: Connecting rod Part No. 21-15/7	2	Set
03-03-00479	Same as item above but: Inlet Valve Part No. 21-11/18	10	Set
03-03-00480	Same as item above but: Exhaust valve No. 21-11/19	10	Set

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00481	Same as item above but: Cylinder Liner Part No. 21-01/8	10	Set
03-03-00482	Same as item above but: Cylinder Block Part No. 21-01/1	2	Each
03-03-00483	Same as item above but: Liner Gasket Part No. 21-01/9	10	Set
03-03-00484	Same as item above but: Liner Gasket Part No. 21-01/10	10	Set
03-03-00485	Same as item above but: Cylinder head part No. 21-7/1	10	Each
03-03-00486	Same as item above but: Cylinder head gasket Part No. 21-07/5	20	Each
03-03-00487	Same as item above but: Oil Pump case Part No. 21-21/11	10	Each
03-03-00488	Same as item above but: Oil pump gear Part No. 21-21/14	10	Each
03-03-00489	Same as item above but: Oil pump gear Part No. 21-21/16	10	Each
03-03-00490	Same as item above but: Oil Pump cover Part No. 21-21/18	10	Each
03-03-00491	Same as item above but: Turbo charger Part No. 21-29/1	10	Each
03-03-00492	Same as item above but: Injection Pump Part No. 22-13/1	10	Each
03-03-00493	Same as item above but: Injector Part No. 22-13/18	10	Set
03-03-00494	Same as item above but: Nozzle Part No. 22-13/19	10	Set
03-03-00495	Same as item above but: Radiator part No. 23-01/1	6	Each
03-03-00496	Same as item above but: Air compressor Part No. 29-01/46	10	Each
03-03-00497	Spare parts for Valtra Valmet Tractors: Front tyre size 12.4R24 with inner tube	100	Each
03-03-00498	Same as item above but: Rear tyre size 16.9R30 with inner tube	100	Each
03-03-00499	Same as item above but: Trailer tyre size 400/60-15.5 with inner	100	Each
03-03-00500	Spare parts for Excavator type POCLAIN 788, : Gland bearing STD part No. A77405	4	Set
03-03-00501	Cylinder liner Part No. J904166	24	Each
03-03-00502	Pistons Part No. A77730	24	Each
03-03-00503	Ring set part No. A77729	8	Set
03-03-00504	Big end bearing Part No. STD A77465	8	Set
03-03-00505	Main bearing Part No STD A77896	8	Set
03-03-00506	Crank Shaft Part No. J918323	8	Each
03-03-00507	Turbo charger Part No. J802798	8	Each
03-03-00508	Gasket cylinder head Part No. J283338	16	Each
	Training / Personnel Development / Capacity		
03-03-00509	A4 paper, ream	100	Ream
03-03-00510	Desk-top Computer. Pentium III or latest model SVGA color monitor complete with all necessary attachments.	11	Set
03-03-00511	LaserJet printer, A3 & A4., with 1 extra toner cartridge	8	Set
03-03-00512	Photocopier, with minimum copying speed of 45ppm, A4 & A3 cassettes, with voltage stabilizer, supplied complete with manufacturers recommended service and spare parts for two years operation. operation. service and parts manuals	3	Set
03-03-00513	2 WD pick up double cabin, 4 door, LHD, 2000 cc, petrol engine.	9	Each
03-03-00514	Builders level, automatic, in carry case, NI 50 with 400 degree /7001135.9800.0005 33 tripod with screw/707234.000.000 141 leveling rod/707626.0000.000 supplied in carrying case with operation instructions & necessary accessories	3	Set
03-03-00515	Electronic Theodolite with stand & other accessories, ETH	3	Set
03-03-00516	Vehicle, 4WD 5-door station wagon, back door swing-out type with standard UN and export specifications for Iraq including air conditioner, front and rear seat belts, fire extinguisher and manufacturer recommended spare parts for two years operation.	1	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00517	Spare parts for Photocopier type SHARP SF-2025. Ref: Parts Catalogue: Sharp parts guide (code: 00Z SF2030PG-M): Drum (OPC Drum) , Part No. SF-230 DM	2	Each
03-03-00518	Same as above but: Developer (Black) part No. SF-230 DVI	2	Each
03-03-00519	Same as above but: Toner (Black) part No. SF-230 TI	10	
03-03-00520	Same as above but: 80 K Maintenance Kit part No. SF-240 KA	1	Each
03-03-00521	Same as above but: Heater lamp , part No. RLMPU 0574 FCZZ	1	Each
03-03-00522	Same as above but: Thermister part No. RDTCT 0122FCZZ	1	Each
03-03-00523	Same as above but: Thermostat , part No. RTHM-0014FCZZ	1	Each
03-03-00524	Shovel KOMATSO D65 (Chain loader) with export specification for Iraq with manufacturer recommended first service and fast moving spare parts kit with manual in English and spare parts for	2	Each
03-03-00525	Portable pipe cutting machine	2	Each
03-03-00526	Engineering drawing board, Hydraulic type.Re	4	Each
03-03-00527	DesignJet plotter plus A0 size, with floor stand and accessories color, with terminal switch primax with cable and accessories (T-switch) with 5 additional cartridges for the plotter with additional	1	Set
03-03-00528	DeskJet Printer, 8color.	1	Each
03-03-00529	UPS, for ddesk top computer	1	Each
03-03-00530	Scanner A3, type 600 DPI	3	Each
03-03-00531	Lap top computer Tcomplete with carrying bag.	1	Each
03-03-00532	Video camera model, complete set with all accessories.	1	Set
03-03-00533	Measuring wheel up to 10,000 meter typ	2	Set
03-03-00534	Automatic builder leveling machine BIC with operation manual, stand and all accessories for the set	1	Set
03-03-00535	Automatic builder leveling machine B2A with operation manual, stand and all accessories for the set,	1	Set
03-03-00536	Theodolite GP1-2 GYROSTATHON with stand & other	1	Set
03-03-00537	Mini bus , 26 seater , color white, with standard UN & Iraq export specifications including air conditioning, heating, AM/FM radio, tape recorder & recommended spare parts for two years operations	1	Each
03-03-00538	Excavator in line -4 strock , HP 10KW traction force 157 KN with export specification for Iraq with manufacturer recommended first service and first moving spare parts kit. With manual and spare parts catalogue in English and spare parts for 2 years	1	Each
	Construction of Water Supply Systems		
03-03-00539	Construction of Haj Omeran water project in Erbil governorate for which the detailed supply list will be prepared after preparing the feasibility study.	1	Each
03-03-00540	Construction of Rania water project in Suleimaniyah governorate for which the detailed supply list will be prepared after preparing the feasibility study.	1	Each
	Training/Personnel Development/ Capacity Building		
03-03-00541	Desk-top Computer Pentium III 733 MHZ hard drive, 64mb RAM, floppy disk, 16 Bit audio card, 52x CD ROM, 15" SVGA color monitor-pre-loaded with English/Arabic windows 98 & ms office professional win 98 style English keyboard, mouse and pad, external speakers or latest equivalent	3	Each
03-03-00542	LaserJet printer with 4 MB RAM A3 & A4., with 1 extra toner cartridge complete	3	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00543	Photocopier, capacity to copy 45 pages per minute or equivalent, A4 & 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	2	Each
03-03-00544	Vibration measurement instrument (Evaluation Vibration Analyzing Method) type SPM T 30 - 2 - PRGM with PC + PRGM	1	Each
03-03-00545	Pick up vehicle, 2 WD double cabin, 4 door, LHD, 2000 cc, petrol engine	4	Each
03-03-00546	Builders level, automatic, in carry case, NI 50 with 400 degree /7001135.9800.0005 33 tripod with screw/707234.000.000 141 leveling rod/707626.0000.000 supplied in carrying case with operation instructions & necessary accessories	1	Each
03-03-00547	Digital altimeter for elevation 2.5 M division, 5000 M range	10	Each
03-03-00548	Spare parts for Photocopier type SHARP SF-2025. Ref: Parts Catalogue: Sharp parts guide (code: 00Z SF2030PG-M):Drum (OPC Drum) Part No. SF-230 DM	2	Each
03-03-00549	Same as above but: Dveloper (Black) part No. SF-230 DVI	2	Each
03-03-00550	Same as above but: Toner (Black) part No. SF-230 TI	10	
03-03-00551	Same as above but: 80 K Maintenance Kit part No. SF-240 KA	1	Each
03-03-00552	Same as above but: Heater lamp, part No. RLMPU 0574 FCZZ	1	Each
03-03-00553	Same as above but: Thermister part No. RDTCT 0122FCZZ	1	Each
03-03-00554	Same as above but:Thermostat, part No. RTHM-0014FCZZ	1	Each
03-03-00555	Tip truck with dumper storage plan, capacity 12 MT with spare parts for 2 Years operation	4	Each
03-03-00556	Grease suitable for all mechanical parts.	200	Kg
03-03-00557	Portable pipe cutting machine	12	Each
03-03-00558	Engineering drawing board, Hydraulic type.	3	Each
03-03-00559	DesignJet plotter plus A0 size with floor stand and accessories, color, with terminal switch primax with cable and accessories (T-switch) with 5 additional cartridges for the plotter with additional	1	Each
03-03-00560	DeskJet Printer, color.	1	Each
03-03-00561	Printing machine for Maps, with spare parts for two years operation and accessories	2	Each
03-03-00562	Voltage Stabilize, type GT2107,	4	Each
03-03-00563	Scanner A3, type 600 DPI	3	Each
03-03-00564	Water Tanker vehicle Capacity 9,000 liters, complete with all accessories, Water pump and spare parts for two years operation.	2	Each
03-03-00565	Pick up 4 WD, 2 door, 4.5 L petrol single cabin, Long wheel base, white color, including air-conditioning, power steering, Mud guard, with AM, FM radio and tape recorder, export specification for Iraq, manual English and Arabic, and spare parts list for two	1	Each
03-03-00566	Pick up vehicle 2WD, petrol engine, 5- speed manual floor shift, 6 seater, LHD, loading capacity 2.5 Ton, single cabin, Long wheel base, white color, including air-conditioning, power steering, Mud gard, with AM, FM radio and tape recorder, export specification for Iraq, manual English and Arabic, and spare parts list for two	1	Each
03-03-00567	Service truck with rear cab crane 8.5MTN capacity & fixed body with spare parts for two years operation	1	Each
03-03-00568	Lap top computer complete with carrying bag.	3	Each
03-03-00569	Measuring wheel up to 10,000 meter type A0101005.	2	Each
	Training / Personnel Development / Capacity		
03-03-00570	Water tanker vehicle complete with all accessories and spare parts for 2years operation	1	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00571	Zip drive	2	Each
03-03-00572	Fire Extinguisher	20	Each
03-03-00573	Front tyre: for Forklift size 15x815	2	Each
03-03-00574	Rear tyres: for Forklift size 10x650	2	Each
03-03-00575	Mats (1.6 X 0.8) meter (Local Product)	300	Each
	Capacity Building/Dhk. Urban, Supplies for Capacity Building.		
03-03-00576	Pentium 4/1.7 GHZ, RAM/256, HD 40 GB, Video Card 32 bite, Monitor 17 inch, CD ROM 52X LG, Sound + Keyboard + Mouse, Multimedia kit, CD Writable 12x8x40 yamaha, Zip internal 100 MB, 12/400 MB, 12/400 MB	2	Each
03-03-00577	Printer, HP 1200A	2	Each
03-03-00578	UPS/1200 for disk top computer	2	Each
03-03-00579	External voice/data fax modem 56 KBPS (3-com U.S. Rebletic)	1	Each
	Envirenmental Sanitation		
03-03-00580	Hydraulic Oil	3,757	Liter
PROJECT	Household Water Security		
CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
	Capacity Building/Sul. Rural, Supplies for Capacity Building.		
03-03-00581	Steel shelves, (2.30 x 2.00 x 0.80)m	160	EACH
03-03-00582	Wooden pallets (1.95 x 0.80 x 0.025)m	150	EACH
	Household Water Security Urban Household water security (Construction of New Water Projects).		
03-03-00583	Sand of TEN 0.95 for Compact Units filter media UCD 500 M3/H	175	MT
	Environmental Sanitation Capacity Building Urban		
03-03-00584	Complete engine of AUSA Dumper Ref: PO 45013412	5	Each
03-03-00585	Complete engine of Valtra Tractor. Ref: PO 45018275	10	Each
03-03-00586	Complete engine of Scania garbage collector. Ref: P.O 45024410	9	Each
03-03-00587	Complete engine of Volvo water tanker. Ref: PO 45024408	10	Each
	Environmental Sanitation Capacity Building Urban		
03-03-00588	Piston set for AUSA dumper Ref: PO 45024408	20	Each
03-03-00589	Piston ring set for AUSA dumper Ref: PO 45024408	24	Each
03-03-00590	Washer set for AUSA dumper Ref: PO 45024408	20	Each
03-03-00591	Back tires for AUSA dumper Ref: PO 45025564	90	Each
03-03-00592	Front tires for AUSA dumper Ref: PO 45025564	50	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00593	Connecting road bearing for AUSA dumper Ref.: PO 45024408	18	Each
03-03-00594	Main crank shaft bearing for AUSA dumper Ref.: PO 45024408	18	Each
03-03-00595	Cylinder head for AUSA dumper Ref.: PO 45024408	12	Each
03-03-00596	Fuel pump for AUSA dumper Ref.: PO 45024408	20	Each
03-03-00597	Nozzle for AUSA dumper Ref.: PO 45024408	44	Each
03-03-00598	Oil pump component as follows: (4 Each) Table No. Fig. No. Part No. 12 3 01242401 12 4 03797310 12 9 03797600 12 20 03798720	24	Each
03-03-00599	Battery charger which mounted on engine flywheel for AUSA dumper. Ref.: PO 45024408	50	Each
03-03-00600	Hydraulic pump for AUSA dumper Ref.: PO 45024408	18	Each
03-03-00601	Starter motor for AUSA dumper Ref.: PO 45024408	12	Each
03-03-00602	Complete engine of Kawasaki wheel loader. Ref: PO 45024271	6	Each
03-03-00603	Complete engine of Caterpillar grader. Ref.: PO 45017620.	6	Each
03-03-00604	Tyre with internal tube, size 1200x20 for tip trucks, type Scania Ref: CIX 980016	315	Each
03-03-00605	Tyre with internal tube, size 1200x24 for tip trucks, type Scania/ Volvo Ref: 45025551	150	Each
03-03-00606	Tyre with internal tube, size 1400x24 for grader, type caterpillar.	131	Each
03-03-00607	Tyre with internal tube, size 17.5x25 for shovel, type Kawasaki.	70	Each
03-03-00608	Tyre with internal tube, size 20.5x25 for caterpillar Shovel.	100	Each
03-03-00609	Tyre with internal tube, size 16x750 for Tractor.	88	Each
03-03-00610	Tyre with internal tube, size 900x20 for faun road cleaner. Ref: CIX 980016	100	Each
03-03-00611	Tyre with internal tube, size 16.9/14 x 28 for Anter tractor.	139	Each
03-03-00612	Batteries, size 12x19x120 amp-hour for Hino tankers and trucks.	130	Each
03-03-00613	Batteries, size 12x17x88 amp-hour.	130	Each
03-03-00614	Batteries, size 12x13x70 amp-hour.	150	Each
03-03-00615	Batteries, size 12x11x60 amp-hour.	220	Each
03-03-00616	Automatic control panel for DEUTZ diesel generator L43. Ref: PO 45025142	2	Each
03-03-00617	Complete Engine of Volvo tip truck model FM10 Ref: PO 45016025	3	Each
03-03-00618	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Air compressor Part	3	
03-03-00619	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Crank shaft part No. 21-	6	Each
03-03-00620	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Piston set Part No. 21-	66	Each
03-03-00621	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Ring set Part No. 21-	66	Each
03-03-00622	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Big end bearing set Part	66	Set
03-03-00623	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Main bearing set Part	66	Set
03-03-00624	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Thrust Washer set Part	36	Set

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00625	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Connecting rod set Part	15	Set
03-03-00626	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Inlet Valve set Part No	42	Set
03-03-00627	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Exhaust valve set No. 21	42	Set
03-03-00628	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Cylinder Liner set Part	42	Set
03-03-00629	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Cylinder Block Part No	3	Each
03-03-00630	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Liner Gasket set Part	42	Set
03-03-00631	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Liner Gasket set Part	42	Set
03-03-00632	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Cylinder head set part	21	Each
03-03-00633	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457, Ref: PO 45016834: Cylinder head gasket set Part No. 21-07/5	40	Each
03-03-00634	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Oil Pump case Part No	46	Each
03-03-00635	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Oil pump gear Part No	46	Each
03-03-00636	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Oil pump gear Part No	46	Each
03-03-00637	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Oil Pump cover Part No	46	Each
03-03-00638	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Turbo charger set Part	19	Each
03-03-00639	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Injection Pump Part No	16	Each
03-03-00640	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Injector Part No. 22	51	Set
03-03-00641	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Nozzle Part No. 22	130	Set
03-03-00642	Spare Parts for valmet Valtra Tractor 700, chassis No. K47507, Engine No. K17457 Ref: PO 45016834: Radiator part No. 23	16	Each
03-03-00643	Spare parts for Valtra Valmet Tractors Ref: PO 45018275: Front tire size 12-4D24 with inner tube	220	Each
03-03-00644	Spare parts for Valtra Valmet Tractors Ref: PO 45018275: Rear tire size 16-0D20 with inner tube	220	Each
03-03-00645	Spare parts for Valtra Valmet Tractors Ref: PO 45018275: Trailer tires size 400/60-15.5 with inner tube	240	Each
03-03-00646	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Gland bearing STD part No. A77405	2	Set
03-03-00647	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Cylinder liner set Part No. I904166	6	set
03-03-00648	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Pistons Part set No. A77730	6	Each
03-03-00649	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Ring set part No. A77729	6	Set
03-03-00650	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Big end bearing Part No. STD A77465	6	Set
03-03-00651	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Main bearing Part No. STD A77896	6	Set
03-03-00652	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Crank Shaft Part No. I918323	1	Each
03-03-00653	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591: Turbo charger Part No. I802798	2	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-03-00654	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591- Gasket cylinder head set Part No. 1283337	4	Each
03-03-00655	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591- Hydraulic Low pressure pump	11	Each
03-03-00656	Spare parts for Excavator type POCLAIN 788, REF: PO. 45018591- Hydraulic high pressure pump	10	Each
03-03-00657	Complete engine of Toyota land cruiser. Ref PO. 45015286	5	Each
03-03-00658	Complete engine of Toyota Pick-up double cabinet. Ref PO.	11	Each
03-03-00659	Complete engine of Nissan patrol station. Ref PO. 45016865	5	Each
03-03-00660	Complete engine of Isuzu garbage collector 11 CUM. Ref PO.	8	Each
03-03-00661	Complete engine of Isuzu garbage collector 6 CUM. Ref PO.	6	Each
	Sub-Project: Supplies for Solid Waste Management		
03-03-00662	Stationary	1	set
03-03-00663	Garbage bags, 25 KG capacity	1,250	each
03-03-00664	Weighing scale, 10Kg capacity	12	each
03-03-00665	Volumetric barrels of 200 liter capacity	12	each
03-03-00666	Rubber gloves	600	each
03-03-00667	Masks	600	each
	Sub-Project: Capacity building		
03-03-00668	shelving units as per details	109	set