

A) ERBIL GOVERNORATE/URBAN AND SEMI-URBAN WATER SUPPLIES

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES

WATER TREATMENT AND TESTING

1. Water Treatment Chemicals

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00001	UNICEF Commodity Code: 356451 Calcium hypochlorite in powder form having minimum 65-70 % chlorine packed in 45 or 50 Kg plastic container/ drums of export quality.	0	40	0	40	Ton	1,740.00	69,600.00	98/4018 CCX 981802
03-04-00002	Chlorine gas (purity 99.7%) in one tonne cylinder (empty cylinders will be provided by the Iraqi government) including repairing of old chlorine cylinders before refilling.	0	10	0	10	Ton	425.00	4,250.00	97/4074 CCX 972881
03-04-00003	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.	0	8	0	8	Ton	470.00	3,760.00	97/4074 CCX 972881
03-04-00004	Aluminum sulphate for purifying water, AL2O3 =16.5% Min, FE2O3=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.	0	0	0		Ton	177.00	0.00	98/4024 CCX 981814
03-04-00005	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). Manufacturer name: CHLOR-CHEM LIMITED, Gorseley lane, Widnes, WA8 OHE, England Telephone: 051 495 1989 or 44 223 870 312. (or equivalent)	0	0	0		Kg	4.59	0.00	98/4024 CCX 981723
Sub-Total								77,610.00	
Primary Shipping Cost (12%)								9,313.20	
Levy (3%)								2,328.30	
Grand-Total								89,251.50	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES
WATER TREATMENT AND TESTING

2. Water Treatment Equipment

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00006	UNICEF Commodity Code: 439411 Chlorine solution dosing pump, KM 220-1, capacity l/hr = 24, Back pressure = 10 Bar, Strokes (No Load) = 120, , 240 V, single phase, 50 Hz, 1,500 RPM. With O&M manuals and spare parts catalogue in Arabic/English. From PORTACEL LIMITED, Cannon Lane, Tonbridge, Kent, England. Tel: Tonbridge(0732)364411 Telex: 95467(Portac G)	0	50	0	50	Set	923.91	46,195.50	97- 4126 CCX 983559
03-04-00007	UNICEF Commodity Code: 439411 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 HOSE/PIPE TO BE SUPPLIED SEPRATELY FOR EACH UNIT	0	0	0	0	Set	1,594.84	0.00	98/4023 CCX 981591
03-04-00008	UNICEF Commodity Code: 439411 Same as item 2, capacity = 500 g/hr	0	0	0	0	Set	3,996.40	0.00	
03-04-00009	UNICEF Commodity Code: 439411 Same as item 2, capacity = 1,000 g/hr	0	0	0	0	Set	3,996.40	0.00	
03-04-00010	UNICEF Commodity Code: 439411 Same as item 2, floor mounted, capacity= 3,500 g/hr.	0	0	0	0	Set	5,232.21	0.00	
03-04-00011	UNICEF Commodity Code: 439411 Same as item 2, floor mounted, capacity = 2,000 g/hr	0	0	0	0	Set	5,232.21	0.00	
03-04-00012	UNICEF Commodity Code: 439400 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Valve Body - Part No.JPXN 83388	0	100	0	100	Each	1.09	108.70	CCX 971509
03-04-00013	UNICEF Commodity Code: 439411 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Valve Cover RPVC - Part No: JPNX 82822	0	100	0	100	Each	13.15	1,315.20	
03-04-00014	UNICEF Commodity Code: 439411 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Valve Seat RPVC - Part No: JPNX 82821	0	100	0	100	Each	12.83	1,283.00	
03-04-00015	UNICEF Commodity Code: 439411 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Ball, Pyrex - Part No. NPXA 150	0	250	0	250	Each	22.83	5,706.25	
03-04-00016	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Diaphragm - Part No. 10-2257-401	0	100	0	100	Each	32.22	3,222.00	CCX 971509
03-04-00017	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Oil Gauge Window - Part No. 10.147	0	100	0	100	Each	5.00	500.00	
03-04-00018	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Double Ball Valve - Part No. 10.137-41	0	100	0	100	Each	27.70	2,770.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00019	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Ball Cage - Part No. 10.786-41	0	100	0	100	Each	3.35	335.00	
03-04-00020	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Ball - Part No. 10.139	0	250	0	250	Each	2.17	542.50	
03-04-00021	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Cover for discharge (Non-return) Valve	0	250	0	250	Each	20.00	5,000.00	
03-04-00022	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Pressure Spring, Part No. 10.890	0	100	0	100	Each	15.00	1,500.00	
03-04-00023	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Adjusting Spindle, Part No 10.2081-4	0	100	0	100	Each	15.00	1,500.00	
03-04-00024	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Cup Nut, Part No. 50.208	0	250	0	250	Each	3.00	750.00	
03-04-00025	Aluminum Sulphate 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 operation and O&M manual in English/ Arabic with parts catalogue.	0	0	0	0	Set	1,209.00	0.00	
03-04-00026	Vertical Multistage booster pump for chlorination purpose. Q=4 cum/hr, H=120 m with electrical drive motor and control panel, 380V, 50Hz, 3 phase with spare parts for two years of operation.	0	0	0	0	Set	3,048.78	0.00	
03-04-00027	Unicef commodity code: 367221 HDPE pipe, heavy duty for chlorination purpose, diameter 1 inch, with joints, (12-16)	0	500	0	500	M	0.43	215.00	98/4022 CCX 981409
03-04-00028	Unicef commodity code: 367221 HDPE pipe, heavy duty for chlorination purpose, diameter 3/4 inch, with joints, (12-16) bar	0	500	0	500	M	0.27	135.00	
03-04-00029	Base for mounting 65 Kg chlorine gas cylinders vertically with a (0-150) kg balance for monitoring of chlorine weight.	0	10	0	10	Each	500.00	5,000.00	
03-04-00030	Base for mounting 1 Ton chlorine gas cylinders vertically with a (0-2000) kg balance for monitoring of chlorine weight.	0	4	0	4	Each	1,000.00	4,000.00	
03-04-00031	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Valve Body, Part No: U82439	0	10	0	10	Each	20.00	200.00	
03-04-00032	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Stem (part of key 24), Part No: P85611	0	10	0	10	Each	5.00	50.00	
03-04-00033	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Flow meter assembly, 250mg/sec Part No: U82531	0	10	0	10	Each	80.00	800.00	
03-04-00034	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Flow meter assembly, 550mg/sec Part No: U82978	0	10	0	10	Each	130.00	1,300.00	
03-04-00035	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Flow meter assembly, 1800mg/sec Part No: U91837	0	10	0	10	Each	200.00	2,000.00	
03-04-00036	Spare parts for powder chlorinator type G020 Dosapro Milton Roy - Pump Series GTM Model A Filter for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	250	0	250	Each	2.00	500.00	
03-04-00037	Valve Seat for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	250	0	250	Each	15.00	3,750.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00038	Valve Housing for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	250	0	250	Each	25.00	6,250.00	
03-04-00039	Ball for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	250	0	250	Each	3.00	750.00	
03-04-00040	Ball Seat for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	250	0	250	Each	5.00	1,250.00	
03-04-00041	4-Function Valve. See Instruction Manual, page I-4, Fig 1.4a, B.	0	250	0	250	Each	30.00	7,500.00	
03-04-00042	Valve Housing for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	250	0	250	Each	15.00	3,750.00	
03-04-00043	Spring for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	250	0	250	Each	3.00	750.00	
03-04-00044	Ball for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	250	0	250	Each	3.00	750.00	
03-04-00045	Ball Seat for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	250	0	250	Each	5.00	1,250.00	
03-04-00046	Valve Body Seat for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	250	0	250	Each	15.00	3,750.00	
03-04-00047	Stroke Adjustment Knob for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	500	0	500	Each	5.00	2,500.00	
03-04-00048	O-Ring for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	250	0	250	Each	1.00	250.00	
03-04-00049	Stroke Adjustment Screw for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	250	0	250	Each	2.00	500.00	
03-04-00050	Crosshead for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	20.00	2,000.00	
03-04-00051	Male Eccentric Peice for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	5.00	500.00	
03-04-00052	Stroke Locking Device for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	25.00	2,500.00	
03-04-00053	Half stop ring for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	500	0	500	Each	2.00	1,000.00	
03-04-00054	Tangential Wheel for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	50	0	50	Each	5.00	250.00	
03-04-00055	Stop Bearing for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	10.00	1,000.00	
03-04-00056	Cover Seal for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	1.50	150.00	
03-04-00057	Liquid End Mounting Assembly. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	15.00	1,500.00	
03-04-00058	Liquid End. See Instruction Manual, page I-1, Fig 1.2a	0	100	0	100	Each	10.00	1,000.00	
03-04-00059	Ball bearings for powder chlorinator, size SKF 6200	0	100	0	100	Each	1.10	110.20	
03-04-00060	Ball bearings for powder chlorinator, size SKF 6201	0	750	0	750	Each	1.10	826.50	
03-04-00061	Ball bearings for powder chlorinator, size SKF 6202	0	100	0	100	Each	1.24	124.00	
03-04-00062	Ball bearings for powder chlorinator, size SKF 6203	0	100	0	100	Each	1.37	137.00	
Sub-Total								129,025.85	
Primary Shipping Cost (12%)								15,483.10	
Levy (3%)								3,870.78	
Grand-Total								148,379.73	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES
WATER TREATMENT AND TESTING

3. Pipes and Specials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul					
03-04-00063	UNICEF Commodity Code: 412713 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.	0	0	0	0	Each	14.77	0.00	98/4022 CCX 981485
03-04-00064	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 3.0 inch	0	0	0		Each	24.44	0.00	
03-04-00065	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 4.0 inch	0	0	0		Each	34.74	0.00	
03-04-00066	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 6.0 inch	0	0	0		Each	57.20	0.00	
03-04-00067	Unicef Commodity code 432417 Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS21 (ISO R7), size 2.0 inch, PN 25. Food quality.	0	0	0		Each	13.34	0.00	98/4022 CCX 982538
03-04-00068	Unicef Commodity code 432417 Same as item 2, size 3.0 inch, PN 20.	0	0	0		Each	15.91	0.00	
03-04-00069	Unicef Commodity code 432417 Same as item 2, size 4.0 inch, PN 16.	0	0	0		Each	24.28	0.00	
03-04-00070	Unicef Commodity code 432417 Same as item 2, size 6.0 inch, PN 10.	0	0	0		Each	227.20	0.00	
03-04-00071	Unicef Commodity code 432417 Brass non-return valve set, FxF, threaded to BS21 (ISO R7), PN 20, size 2.0 inch. Food quality.	0	0	0		Each	7.10	0.00	98/4022 CCX 982538
03-04-00072	Unicef Commodity code 432417 Same as item 3, size 3.0 inch, PN 18	0	0	0		Each	22.42	0.00	

	Description	Dhk	Erb	Sul					
03-04-00073	Unicef Commodity code 432417 Same as item 3, size 4.0 inch, PN 16	0	0	0		Each	35.29	0.00	
03-04-00074	Unicef Commodity code 432417 Same as item 3, size 3.0 inch, PN 10	0	0	0		Each	227.20	0.00	
03-04-00075	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.	0	0	0				0.00	
03-04-00076	Unicef Commodity Code: 412837 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.	0	0	0		Each	1.01	0.00	98/4022 CCX 982538
03-04-00077	Unicef Commodity Code: 412837 Same as item 4, size 3.0 inch, PN 25	0	0	0		Each	2.71	0.00	
03-04-00078	Unicef Commodity Code: 412837 Same as item 4, size 4.0 inch, PN 25	0	0	0		Each	4.91	0.00	
03-04-00079	Unicef Commodity Code: 412837 Same as item 4, size 6.0 inch, PN 25	0	0	0		Each	146.66	0.00	
03-04-00080	Unicef Commodity Code: 412837 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.	0	0	0		Each	1.27	0.00	98/4022 CCX 982046
03-04-00081	Unicef Commodity Code: 412837 Same as item 5, size 3.0 inch, PN 25	0	0	0		Each	3.58	0.00	
03-04-00082	Unicef Commodity Code: 412837 Same as item 5, size 4.0 inch, PN 25	0	0	0		Each	6.46	0.00	
03-04-00083	Unicef Commodity Code: 412837 Same as item 5, size 6.0 inch, PN 25	0	0	0		Each	181.18	0.00	
03-04-00084	Unicef Commodity Code: 412837 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.	0	0	0		Each	1.96	0.00	98/4022 CCX 982046
03-04-00085	Unicef Commodity Code: 412837 Same as item 6, size 3.0 inch, PN 25	0	0	0		Each	5.38	0.00	
03-04-00086	Unicef Commodity Code: 412837 Same as item 6, size 4.0 inch, PN 25	0	0	0		Each	10.22	0.00	
03-04-00087	Unicef Commodity Code: 412837 Same as item 6, size 6.0 inch, PN 25	0	0	0		Each	7.00	0.00	
03-04-00088	Unicef Commodity Code: 412837 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	0	0	0		Each	44.88	0.00	98/4022 CCX 971707
03-04-00089	Unicef Commodity Code: 412837 Same as item 7, size 6.0 x 3.0 inch.	0	0	0		Each	55.11	0.00	
03-04-00090	Unicef Commodity Code: 412837 Same as item 7, size 6.0 x 2.0 inch.	0	0	0		Each	59.40	0.00	98/4022 CCX 982046
03-04-00091	Unicef Commodity Code: 412837 Same as item 7, size 4.0 x 3.0 inch.	0	0	0		Each	3.93	0.00	

	Description	Dhk	Erb	Sul					
03-04-00092	Unicef Commodity Code: 412837 Same as item 7, size 4.0 x 2.0 inch	0	0	0		Each	3.93	0.00	98/4022 CCX 981902
03-04-00093	Unicef Commodity Code: 412837 Same as item 7, size 3.0 x 2.0 inch	0	0	0		Each	2.13	0.00	
03-04-00094	Unicef Commodity Code: 412835 Viking Johnson coupling for 90 mm, PN 25, Standard length pipe	0	0	0		Each	21.23	0.00	
03-04-00095	Unicef Commodity Code: 412835 Same as item 8 but for 110 mm pipe.	0	0	0		Each	32.86	0.00	
03-04-00096	Unicef Commodity Code: 412835 Same as item 8 but for 160 mm pipe.	0	0	0		Each	21.00	0.00	
03-04-00097	V. J. Easi clamps for 90 mm, PN 25, Standard length pipe	0	1000	0	500	Each	15.00	7,500.00	
03-04-00098	Same as item 9 but for 110 mm pipe.	0	1000	0	500	Each	20.00	10,000.00	
03-04-00099	Same as item 9 but for 160 mm pipe.	0	500	0	500	Each	30.00	15,000.00	
03-04-00100	Unicef Commodity Code: 412834 Stainless steel repair clamps, quality A131304 with waffled rubber seal according to DIN 3535. Double section for 80 mm pipe. PN 24.	0	0	0	0	Each	40.53	0.00	98/4022 CCX 981903
03-04-00101	Unicef Commodity Code: 412834 Same as item 10 but for 100mm pipe.	0	0	0	0	Each	40.88	0.00	
03-04-00102	Unicef Commodity Code: 412834 Same as item 10 but for 150mm pipe.	0	0	0	0	Each	43.38	0.00	
03-04-00103	Unicef Commodity Code: 412834 Same as item 10 but for 200mm pipe, PN 16.	0	0	0	0	Each	60.34	0.00	
03-04-00104	Unicef Commodity Code: 412834 Same as item 10 but for 250mm pipe, PN 16.	0	0	0	0	Each	87.00	0.00	
03-04-00105	Unicef Commodity Code: 412834 Same as item 10 but for 300mm pipe, PN 16.	0	0	0	0	Each	122.54	0.00	
03-04-00106	Unicef Commodity Code: 412712 Ductile iron pipe with rubber gasket joints (Tyton joints) with rubber gaskets, 6 metres nominal length, 3 inch diameter. PN 25	0	1000	0	1000	Each	50.66	50,660.00	98/4022 CCX 981903
03-04-00107	Unicef Commodity Code: 412712 Same as item 11 but 4 inch dia.	0	9300	0	9300	Each	55.00	511,500.00	
03-04-00108	Unicef Commodity Code: 412712 Same as item 11 but 6 inch dia.	0	950	0	950	Each	95.33	90,563.50	
03-04-00109	Unicef Commodity Code: 412712 Same as item 11 but 8 inch dia.	0	1000	0	1000	Each	117.73	117,730.00	
03-04-00110	Unicef Commodity Code: 412712 Same as item 11 but 10 inch dia.	0	0	0	0	Each	150.05	0.00	
03-04-00111	Unicef Commodity Code: 412712 Same as item 11 but 12 inch dia.	0	0	0	0	Each	202.27	0.00	
03-04-00112	Unicef Commodity Code: 412712 Same as item 11 but 16 inch dia.	0	0	0	0	Each	260.00	0.00	
03-04-00113	Unicef Commodity Code: 412712 Same as item 11 but 24 inch dia.	0	0	0	0	Each	400.00	0.00	
03-04-00114	Unicef Commodity Code: 412835 Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, Fx F, 3 inch dia, PN 25.	0	0	0	0	Each	29.14	0.00	98/4022 CCX 98/2137
03-04-00115	Unicef Commodity Code: 412712 Same as item 12 but 4 inch dia.	0	30	0	30	Each	30.92	927.60	
03-04-00116	Unicef Commodity Code: 412712 Same as item 12 but 6 inch dia.	0	20	0	20	Each	40.76	815.20	
03-04-00117	Unicef Commodity Code: 412712 Same as item 12 but 8 inch dia.	0	20	0	20	Each	51.16	1,023.20	

	Description	Dhk	Erb	Sul					
03-04-00118	Unicef Commodity Code: 412712 Same as item 12 but 10 inch dia.	0	15	0	15	Each	164.08	2,461.20	98/4022 CCX 98/2137
03-04-00119	Unicef Commodity Code: 412712 Same as item 12 but 32 inch dia.	0	5	0	5	Each	350.00	1,750.00	
03-04-00120	Unicef Commodity Code: 412835 Equal elbows for ductile pipes with rubber gasket joints, 45 degree, with rubber gaskets, FxF, 3 inch diam, PN 25.	0		0	0	Each	21.19	0.00	
03-04-00121	Unicef Commodity Code: 412835 Same as item 13 but 4 inch diam	0	5	0	5	Each	22.89	114.45	
03-04-00122	Unicef Commodity Code: 412835 Same as item 13 but 6 inch diam	0	5	0	5	Each	35.29	176.45	
03-04-00123	Unicef Commodity Code: 412835 Same as item 13 but 8 inch diam	0	4	0	4	Each	58.62	234.48	
03-04-00124	Unicef Commodity Code: 412835 Same as item 13 but 10 inch diam	0	3	0	3	Each	154.55	463.65	
03-04-00125	Unicef Commodity Code: 412835 Same as item 13 but 12 inch diam	0	0	0	0	Each	171.70	0.00	98/4007 CCX 98/2126
03-04-00126	Unicef Commodity Code: 412835 Same as item 13 but 32 inch diam	0	0	0	0	Each	450.00	0.00	
03-04-00127	Unicef Commodity Code: 412835 Equal Tees for ductile pipes with rubber gasket joints, with rubber gaskets, FxFxF, 3 inch diam, PN 25.	0	0	0	0	Each	23.10	0.00	
03-04-00128	Unicef Commodity Code: 412835 Same as item 14 but 4 inch diam	0	20	0	20	Each	31.50	630.00	
03-04-00129	Unicef Commodity Code: 412835 Same as item 14 but 6 inch diam	0	20	0	20	Each	50.40	1,008.00	
03-04-00130	Unicef Commodity Code: 412835 Same as item 14 but 8 inch diam	0	10	0	10	Each	79.80	798.00	
03-04-00131	Unicef Commodity Code: 412835 Same as item 14 but 10 inch diam	0	10	0	10	Each	128.10	1,281.00	
03-04-00132	Unicef Commodity Code: 412835 Same as item 14 but 12 inch diam	0	5	0	5	Each	80.00	400.00	
03-04-00133	Unicef Commodity Code: 412835 Same as item 14 but 32 inch diam	0	0	0	0	Each	230.00	0.00	
03-04-00134	Unicef Commodity Code: 412835 Ductile Tee Socket with rubber, 3x3 inch dia, PN 25.	0	0	0	0	Each	26.29	0.00	98/4022 CCX 98 2137
03-04-00135	Unicef Commodity Code: 412835 Same as item 15 but 4x4 inch dia	0	10	0	10	Each	31.34	313.40	
03-04-00136	Unicef Commodity Code: 412835 Same as item 15 but 4x3 inch dia	0	0	0	0	Each	47.48	0.00	
03-04-00137	Unicef Commodity Code: 412835 Same as item 15 but 6x4 inch dia	0	0	0	0	Each	39.97	0.00	
03-04-00138	Unicef Commodity Code: 412835 Same as item 15 but 6x3 inch dia	0	0	0	0	Each	38.98	0.00	
03-04-00139	Unicef Commodity Code: 412835 Same as item 15 but 6x6 inch dia	0	10	0	10	Each	47.48	474.80	
03-04-00140	Unicef Commodity Code: 412835 Same as item 15 but 8x8 inch dia	0	8	0	8	Each	73.89	591.12	
03-04-00141	Unicef Commodity Code: 412835 Same as item 15 but 8x6 inch dia	0	0	0	0	Each	51.66	0.00	
03-04-00142	Unicef Commodity Code: 412835 Same as item 15 but 8x4 inch dia	0	0	0	0	Each	47.37	0.00	
03-04-00143	Unicef Commodity Code: 412835 Same as item 15 but 8x3 inch dia	0	0	0	0	Each	46.55	0.00	
03-04-00144	Unicef Commodity Code: 412835 Same as item 15 but 10x4 inch dia	0	0	0	0	Each	200.00	0.00	
03-04-00145	Unicef Commodity Code: 412835 Same as item 15 but 10x6 inch dia	0	0	0	0	Each	300.00	0.00	
03-04-00146	Unicef Commodity Code: 412835 Same as item 15 but 12x12 inch dia	0	0	0	0	Each	400.21	0.00	98/4022 CCX 98 2137
03-04-00147	Unicef Commodity Code: 412835 Same as item 15 but 10x10 inch dia	0	4	0	4	Each	347.08	1,388.32	

	Description	Dhk	Erb	Sul					
03-04-00148	Unicef Commodity Code: 412835 Same as item 15 but 32x32 inch dia	0	2	0	2	Each	500.00	1,000.00	
03-04-00149	Unicef Commodity Code: 412835 Parallel reducers for ductile pipes with rubber gasket joints, with rubber gaskets, FxF, 20x20 inch dia, PN 25.	0	0	0	0	Each	200.00	0.00	CCX 972291
03-04-00150	Unicef Commodity Code: 412835 Same as item 16 but 16 x 16 inch dia	0	0	0	0	Each	100.00	0.00	CCX 972291
03-04-00151	Unicef Commodity Code: 412835 Same as item 16 but 12 x 10 inch dia	0	0	0	0	Each	67.20	0.00	CCX 972291
03-04-00152	Unicef Commodity Code: 412835 Same as item 16 but 12 x 8 inch dia	0	0	0	0	Each	71.40	0.00	CCX 972291
03-04-00153	Unicef Commodity Code: 412835 Same as item 16 but 12 x 6 inch dia	0	0	0	0	Each	73.50	0.00	CCX 972291
03-04-00154	Unicef Commodity Code: 412835 Same as item 16 but 12 x 4 inch dia	0	0	0	0	Each	120.12	0.00	CCX 972291
03-04-00155	Unicef Commodity Code: 412835 Same as item 16 but 10 x 8 inch dia	0	0	0	0	Each	50.40	0.00	CCX 972291
03-04-00156	Unicef Commodity Code: 412835 Same as item 16 but 10 x 6 inch dia	0	0	0	0	Each	52.50	0.00	CCX 972291
03-04-00157	Unicef Commodity Code: 412835 Same as item 16 but 10 x 4 inch dia	0	0	0	0	Each	85.47	0.00	CCX 972291
03-04-00158	Unicef Commodity Code: 412835 Same as item 16 but 8 x 6 inch dia	0	0	0	0	Each	35.70	0.00	CCX 972290
03-04-00159	Unicef Commodity Code: 412835 Same as item 16 but 8 x 4 inch dia	0	0	0	0	Each	37.80	0.00	CCX 972290
03-04-00160	Unicef Commodity Code: 412835 Same as item 16 but 8 x 3 inch dia	0	0	0	0	Each	57.74	0.00	C972290
03-04-00161	Unicef Commodity Code: 412835 Same as item 16 but 6 x 4 inch dia	0	0	0	0	Each	25.20	0.00	CCX 972290
03-04-00162	Unicef Commodity Code: 412835 Same as item 16 but 6 x 3 inch dia	0	0	0	0	Each	27.30	0.00	CCX 972290
03-04-00163	Unicef Commodity Code: 412835 Same as item 16 but 4 x 3 inch dia	0	0	0	0	Each	14.70	0.00	CCX 972290
03-04-00164	Unicef Commodity Code: 412835 Equal sockets for ductile pipes with rubber gasket joints, FxF, 4 inch dia, PN 25.	0	0	0	0	Each	67.68	0.00	98/4007 CCX 98 2126
03-04-00165	Unicef Commodity Code: 412835 Same as item 17 but 6 inch dia	0	0	0	0	Each	108.12	0.00	
03-04-00166	Unicef Commodity Code: 412835 Same as item 17 but 8 inch dia	0	0	0	0	Each	138.45	0.00	
03-04-00167	Unicef Commodity Code: 412835 Same as item 17 but 10 inch dia	0	0	0	0	Each	160.00	0.00	
03-04-00168	Unicef Commodity Code: 412835 Same as item 17 but 12 inch dia	0	0	0	0	Each	200.00	0.00	
03-04-00169	Unicef Commodity Code: 412835 Same as item 17 but 32 inch dia	0	0	0	0	Each	520.00	0.00	
03-04-00170	Unicef Commodity Code: 412835 Standard socket & spigot joints for ductile pipes with rubber gasket joints, with rubber gaskets, FxM, 3 inch dia, PN 25.	0	0	0	0	Each	27.71	0.00	98/4022 CCX 98 2137
03-04-00171	Unicef Commodity Code: 412835 Same as item 18 but 4 inch dia	0	10	0	10	Each	32.93	329.30	
03-04-00172	Unicef Commodity Code: 412835 Same as item 18 but 6 inch dia	0	10	0	10	Each	45.83	458.30	
03-04-00173	Unicef Commodity Code: 412835 Same as item 18 but 8 inch dia	0	6	0	6	Each	60.43	362.58	
03-04-00174	Unicef Commodity Code: 412835 Same as item 18 but 10 inch dia	0	6	0	6	Each	121.19	727.14	

	Description	Dhk	Erb	Sul					
03-04-00175	Unicef Commodity Code: 412835 Same as item 18 but 12 inch dia	0	0	0	0	Each	174.33	0.00	
03-04-00176	Unicef Commodity Code: 412835 Same as item 18 but 18 inch dia	0	0	0	0	Each	220.00	0.00	
03-04-00177	Unicef Commodity Code: 412835 Same as item 18 but 20 inch dia	0	0	0	0	Each	220.00	0.00	
03-04-00178	Unicef Commodity Code: 412835 Same as item 18 but 32 inch dia	0	0	0	0	Each	320.00	0.00	
03-04-00179	Ductile Ion Adaptors from socket unit rubber joint to , PN 25 flanged end, 3 inch dia	0	0	0	0	Each	10.00	0.00	
03-04-00180	Same as item 19, 4 inch dia	0	0	0	0	Each	12.00	0.00	
03-04-00181	Same as item 19, 6 inch dia	0	0	0	0	Each	24.00	0.00	
03-04-00182	Same as item 19, 8 inch dia	0	0	0	0	Each	39.00	0.00	
03-04-00183	Same as item 19, 10 inch dia	0	0	0	0	Each	54.00	0.00	
03-04-00184	Same as item 19, 12 inch dia	0	0	0	0	Each	80.00	0.00	
03-04-00185	Same as item 19, 14 inch dia	0	0	0	0	Each	100.00	0.00	
03-04-00186	Same as item 19, 16 inch dia	0	0	0	0	Each	120.00	0.00	
03-04-00187	Same as item 19, 18 inch dia	0	0	0	0	Each	140.00	0.00	
03-04-00188	Same as item 19, 20 inch dia	0	0	0	0	Each	160.00	0.00	
03-04-00189	Same as item 19, 32 inch dia	0	0	0	0	Each	300.00	0.00	
03-04-00190	Unicef Commodity Code: 412835 Bolted flanged spigot joint for ductile pipes, with bolts, nuts & gaskets, 3 inch dia, PN 25, ISO flanges	0	0	0	0	Each	23.36	0.00	
03-04-00191	Unicef Commodity Code: 412835 Same as item 20 but 4 inch dia	0	0	0	0	Each	25.92	0.00	98/4007 CCX 98 2126
03-04-00192	Unicef Commodity Code: 412835 Same as item 20 but 6 inch dia	0	0	0	0	Each	37.01	0.00	
03-04-00193	Unicef Commodity Code: 412835 Same as item 20 but 8 inch dia	0	0	0	0	Each	64.13	0.00	
03-04-00194	Unicef Commodity Code: 412835 Same as item 20 but 10 inch dia	0	0	0	0	Each	100.00	0.00	
03-04-00195	Unicef Commodity Code: 412835 Same as item 20 but 12 inch dia	0	0	0	0	Each	140.00	0.00	
03-04-00196	Unicef Commodity Code: 412835 Same as item 20 but 14 inch dia	0	0	0	0	Each	170.00	0.00	
03-04-00197	Unicef Commodity Code: 412835 Same as item 20 but 16 inch dia	0	0	0	0	Each	190.00	0.00	
03-04-00198	Unicef Commodity Code: 412835 Same as item 20 but 18 inch dia	0	0	0	0	Each	200.00	0.00	
03-04-00199	Unicef Commodity Code: 412835 Same as item 20 but 20 inch dia	0	0	0	0	Each	250.00	0.00	
03-04-00200	Unicef Commodity Code: 412835 Same as item 20 but 32 inch dia	0	0	0	0	Each	380.00	0.00	
03-04-00201	Unicef Commodity Code: 412835 Flanged gate valves for dutile pipes with bolts, nuts & gaskets, 3 inch dia, PN 25, ISO flanges	0	50	0	50	Each	180.48	9,024.00	98/4022 CCX 98 2092
03-04-00202	Unicef Commodity Code: 412835 Same as item 21 but 4 inch dia	0	60	0	60	Each	188.77	11,326.20	
03-04-00203	Unicef Commodity Code: 412835 Same as item 21 but 6 inch dia	0	20	0	20	Each	296.85	5,937.00	
03-04-00204	Unicef Commodity Code: 412835 Same as item 21 but 8 inch dia	0	10	0	10	Each	711.98	7,119.80	
03-04-00205	Unicef Commodity Code: 412835 Same as item 21 but 10 inch dia	0	2	0	2	Each	759.06	1,518.12	
03-04-00206	Unicef Commodity Code: 412835 Same as item 21 but 12 inch dia	0	2	0	2	Each	956.24	1,912.48	
03-04-00207	Unicef Commodity Code: 412835 Same as item 21 but 14 inch dia	0	0	0	0	Each	1,200.00	0.00	
03-04-00208	Unicef Commodity Code: 412835 Same as item 21 but 16 inch dia	0	0	0	0	Each	1,400.00	0.00	
03-04-00209	Unicef Commodity Code: 412835 Same as item 21 but 18 inch dia	0	0	0	0	Each	1,650.00	0.00	
03-04-00210	Unicef Commodity Code: 412835 Same as item 21 but 20 inch dia	0	0	0	0	Each	1,900.00	0.00	
03-04-00211	Unicef Commodity Code: 412835 Same as item 21 but 32 inch dia	0	0	0	0	Each	3,000.00	0.00	

	Description	Dhk	Erb	Sul					
03-04-00212	Unicef Commodity Code: 432417 Flanged none-return valves for ductile pipes with bolts, nuts & gaskets, 3 inch dia, PN 25, ISO flanges	0	40	0	40	Each	79.90	3,196.00	98/4022 CCX 98 2110
03-04-00213	Unicef Commodity Code: 432417 Same as item 22 but 4 inch dia	0	30	0	30	Each	87.80	2,634.00	
03-04-00214	Unicef Commodity Code: 432417 Same as item 22 but 6 inch dia	0	10	0	10	Each	176.00	1,760.00	
03-04-00215	Unicef Commodity Code: 432417 Same as item 22 but 8 inch dia	0	5	0	5	Each	407.50	2,037.50	
03-04-00216	Unicef Commodity Code: 432417 Same as item 22 but 10 inch dia	0	5	0	5	Each	695.00	3,475.00	
03-04-00217	Unicef Commodity Code: 432417 Same as item 22 but 32 inch dia	0	5	0	5	Each	2,000.00	10,000.00	
03-04-00218	Unicef Commodity Code: 432417 Flanged air valves for dutile pipes with bolts, nuts & gaskets, 4 inch dia, PN 25, ISO flanges	0	20	0	20	Each	218.00	4,360.00	98/4007 CCX 98 2093
03-04-00219	Unicef Commodity Code: 432417 Same as item 23, 32 inch dia	0	4	0	4	Each	500.00	2,000.00	
03-04-00220	Unicef Commodity Code: 432417 Flanged foot valves with strainers 4 inch dia	0	0	0	0	Each	72.37	0.00	98/4022 CCX 98 2112
03-04-00221	Unicef Commodity Code: 432417 Same as item 24 but 6 inch dia	0	0	0	0	Each	133.70	0.00	
03-04-00222	Unicef Commodity Code: 432417 Same as item 24 but 8 inch dia	0	0	0	0	Each	184.53	0.00	
03-04-00223	Unicef Commodity Code: 432417 Same as item 24 but 10 inch dia	0	0	0	0	Each	238.67	0.00	
03-04-00224	Unicef Commodity Code: 432417 Same as item 24 but 12 inch dia	0	0	0	0	Each	325.95	0.00	
03-04-00225	Unicef Commodity Code: 413835 Surface box for roadways	0	0	0	0	Each	7.13	0.00	
03-04-00226	Unicef Commodity Code: 413835 Blank flanges for 100 mm dia ductile pipes	0	0	0	0	Each	10.98	0.00	98/4022 CCX 98 2137
03-04-00227	Unicef Commodity Code: 413835 Same as item 26 but for 150 mm dia ductile pipes.	0	0	0	0	Each	16.82	0.00	
03-04-00228	Unicef Commodity Code: 413835 Same as item 26 but 200 mm dia ductile pipes.	0	0	0	0	Each	117.42	0.00	
03-04-00229	Unicef Commodity Code: 413835 Same as item 26 but 250 mm dia ductile pipes.	0	0	0	0	Each	124.10	0.00	
03-04-00230	Mild steel GS riser pipes 3 inch dia, 3 m long	0	0	0	0	Each	14.00	0.00	
03-04-00231	Same as item 40 but 4 inch dia	0	0	0	0	Each	18.00	0.00	
03-04-00232	Same as item 40 but 5 inch dia	0	0	0	0	Each	30.00	0.00	
03-04-00233	UNICEF Commodity Code: 432512 Casing pipe, mild steel, commercial grade st-37 as per DIN 17100, food grade, for lining of water borehole One end male threaded, heavy duty female socket on the other end , To be produced according to DIN 4922 in lengths of 6 m, outer diameter 8 5/8 inch.	0	0	0	0	Each	140.00	0.00	98/4038 CCX 983912
03-04-00234	UNICEF Commodity Code: 432512 As in item 1 but pipe with slots of 2.3 mm width, length of 6 m, outer diameter 8 5/8 inch	0	0	0	0	Each	160.00	0.00	
Sub-Total:								886,981.79	
Primary ShipCost (12%):								106,437.81	
Levy (3%):								26,609.45	
Grand-Total:								1,020,029.06	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES
WATER TREATMENT AND TESTING

4. Other Materials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-00234	Unicef Commodity Code: 369737 Gas masks/breathing apparatus for protection from chlorine gas used in water treatment facilities	0	100	0	100	Each	60.69	6,069.00	98/4051 CCX 98 2230
03-04-00235	Battery, 12V x 11P x 60 amp-hour, for Toyota pick-up	0	0	0		Each	26.25	0.00	98/4035 CCX 98 2077
03-04-00236	Battery, 12V x 19P x 135 amp-hour, for Garbage collectors and sewage tankers (HINO, KB 422)	0	0	0		Each	71.00	0.00	98/4035 CCX 98 2077
03-04-00237	Battery, 12V x 13P x 90 amp-hour, for Land cruiser and Nissan patrol	0	0	0		Each	82.63	0.00	98/4029 CCX 98 2081
03-04-00238	Tyre with internal tube, size 750x16 for fork lifter	0	0	0		Set	35.87	0.00	98/4029 CJX 98 0416
03-04-00239	Tyre with internal tube, size 1200x24	0	0	0		Set	208.67	0.00	98/4054 CJX 98 0415
03-04-00240	Tyre with internal tube, size 1100x20	0	0	0		Set	166.54	0.00	98/4035 CJX 98 0418
03-04-00241	Tyre with internal tube, size 1000x20	0	0	0		Set	166.55	0.00	98/4252 CJX 98 0553
03-04-00242	Tyre with internal tube for fork lift type Komatso, capacity 3 ton, Size 6.00x 9	0	0	0		Set	29.17	0.00	98/4029 CJX 98 0416
03-04-00243	Ordinary Portland cement packed in 5-ply 50 kg paper bags (equivalent to BS12).	0	0	0		Ton	60.00	0.00	
03-04-00244	Concrete blocks size (20x20x40)cm	0	0	0		Each	0.20	0.00	
03-04-00245	UNICEF commodity code No. 491792 Hino water tanker truck Model code: FF3HJSA LHD Specification No. TL-FF013, 4*2 Forward control Body No. SS-LH-4989 All steel bonnet type safety cab, with full floating cab suspension, safety glass, colour- White-Engine: Hino H07 D, diesel, vertical 6 cylinder in line, overhead valve, water cooled, direct injection type. Maximum output: 141kW/(190HP) at 2900 rpm-Transmission 6-speed, direct drive, synchromesh 2nd-6th-Clutch: dry, single plate with damper springs, hydraulic control-Steering: Circulating ball- Wheel & Tire: 8-stud disc wheels (JIS type), 9.00-20-14PR-fuel tank:115 L-Tank volume: 8,578 Liters - Thickness of shell, end plate and buffer plate: 3.2 mm- Tank construction: Ellipse Section cylindrical tank with one compartment. Tank with a manhole hatch and air breather-pump: Centrifugal pump, 600l/min at 2500 rpm. Accessories: Suction and delivery hose 63.5mm*3m. 2 each hose packing (spare), 4 each strainer for hose and hose wrench. Material	0	0	0	3	Each	60,000.00	180,000.00	CJX 980694

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00246	Unicef Commodity Code: 491800 Excavator, POCLAIN type 788, wheel type, with jack hammer and (40, 60, 80, 100)cm width, 0.2 cum excavating bucket, France made. or present equivalent	0	0	0		Each	112,430.00	0.00	98/4006 CCX 98 2055
03-04-00247	Vehicle, pick up double cabin type TOYOTA, made as per Saudi Arabia standards, Containing air conditioning system with radio and tape recorder.	0	0	0		Each	11,018.33	0.00	98/4276 CJX 98 0562
03-04-00248	Same as item 14, Single Cabin	0	0	0		Each	10,000.00	0.00	
03-04-00249	Unicef Commodity Code: 452150 Computer, Lap-top, 18 mm thickpad 280XD, model 2635- 7AO, pentium 233 MHz, 3.2 Gb hard disk, 32Mb RAM, 3.5" floppy and 24X CD drives.	0	0	0		Each	2,187.00	0.00	98/4278 NCX 98 0817
03-04-00250	Laser jet printer, HP 6P	0	0	0		Each	810.00	0.00	98/4279 NCX 98 0818
03-04-00251	Desk-top computer: HP Vectra VE P11/333, 333MHz Intel pentium II, 3.2 Gb Hard Disk, 32Mb RAM, 3.5" diskette, 16 BIT audio card, 32X CD ROM, external speakers, preloaded with English + Arabic Win95 and MS Office 7.0	0	0	0		Each	2,500.00	0.00	98/4279 NCX 98 0818
03-04-00252	UNICEF Commodity Code: 451324 Photocopier, NP 6050 CANON NP 6062 with 10 Toner cartridges, 20 Bin Staple Sorter, Staples, Copy Drum, Spares for two years operations and English manual for Parts/Service/operation	0	0	0		Each	15,215.00	0.00	97/6011 CCX 97 2135
03-04-00253	Truck, 2 tonne capacity	0	0	0		Each	40,000.00	0.00	
03-04-00254	Unicef Commodity Code: 429200 Sewer rods made of flexible alloy for sewerage networks, size 8mm diameter and 2 metre long with standard jointing system.	0	0	0		Set	12.34	0.00	98/4051 CCX 98 3091
Sub-Total:								186,069.00	
Primary Shipping Cost (12%):								22,328.28	
Levy (3%):								5,582.07	
Grand-Total:								213,979.35	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES

PUMPS AND ASSOCIATED EQUIPMENT

5. Submersible Pumps and Specials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-00255	Unicef Commodity Code: 432287 Submersible pump with direct coupled electrical motor and with non-return valve, control panel, 150 m three core cable and cable termination kit. Q = 10 cum/hr (min), head = 210 m (max), (SP 16-24), 380 V, 50 Hz, 3 Ph for 6.0 and 8.0 inches cased borewell. TO BE INSTALLED ON NEW BOREWELLS. ALL CABLES TO BE PACKED SEPRATELY WITH EACH PUMP	0	0	0	0	Set	4,288.00	0.00	98/4020 CCX 98 1463
03-04-00256	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=135M (max), (SP 27-14).	0	0	0	0	Set	4,034.00	0.00	98/4020 CCX 98 1470
03-04-00257	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=185M (max), (SP 27-19).	0	0	0	0	Set	4,501.00	0.00	98/4016 CCX 98 1469
03-04-00258	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=270 M (max), (SP 27-28).	0	10	0	10	Set	5,645.00	56,450.00	98/4020 CCX 98 1470
03-04-00259	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=310 M (max), (SP 45-31).	0	15	0	15	Set	8,609.00	129,135.00	97/4266 CCX 98 0624
03-04-00260	Unicef Commodity Code: 432287 Same as item No.1, Q=2 cum/hr (min), head=115 M (max), (SP 8A-21).	0	0	0	0	Set	2,416.00	0.00	98/4005 CCX 98 1464
03-04-00261	Unicef Commodity Code: 432287 Same as item No.1, Q=16 cum/hr (min), head=280 M (max), (SP 25-30).	0	0	0	0	Set	4,500.00	0.00	
03-04-00262	Unicef Commodity Code: 432287 Same as item No.1, Q=4 cum/hr (min), head=220 M (max), (SP 8A-44).	0	0	0	0	Set	4,241.00	0.00	98/4020 CCX 98 2662
03-04-00263	Unicef Commodity Code: 432287 Same as item No.1, Q=22 cum/hr (min), head=120 M (max), (SP 46-10).	0	0	0	0	Set	4,173.00	0.00	
03-04-00264	Unicef Commodity Code: 432287 Same as item No.1, Q=50 cum/hr (min), head=135 M (max), (SP 77-10).	0	0	0	0	Set	7,772.00	0.00	
03-04-00265	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=270M (max), (SP 27-24).	0	15	0	15	Set	5,960.00	89,400.00	
03-04-00266	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=210M (max), (SP 46-15).	0	10	0	10	Set	6,568.00	65,680.00	
03-04-00267	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=310M (max), (SP 46-23).	0	15	0	15	Set	7,438.00	111,570.00	98/4016 CCX 98 1828

	Description	Dhk	Erb	Sul					
03-04-00268	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=400M (max), (SP 46-40).	0	5	0	5	Set	8,000.00	40,000.00	
03-04-00269	Unicef Commodity Code: 432287 Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH.Capacity 5.5 KW	0	0	0	0	Set	1,200.00	0.00	
03-04-00270	Unicef Commodity Code: 432287 Same as item 14 but capacity 11 KW for SP 27-11	0	0	0	0	Set	1,887.00	0.00	98/4020 CCX 98 1341
03-04-00271	Unicef Commodity Code: 432287 Same as item 14 but capacity 11.0KW for SP 27-14	0	0	0	0	Set	1,887.00	0.00	
03-04-00272	Unicef Commodity Code: 432287 Same as item 14 but capacity 15.0KW for SP 25-15	0	0	0	0	Set	2,183.00	0.00	
03-04-00273	Unicef Commodity Code: 432287 Same as item 14 but capacity 18.5KW for SP 46-15	0	5	0	5	Set	2,334.00	11,670.00	
03-04-00274	Unicef Commodity Code: 432287 Same as item 14 but capacity 22.0KW for SP 27-28	0	5	0	5	Set	8,304.00	41,520.00	
03-04-00275	Unicef Commodity Code: 432287 Same as item 14 but capacity 30.0KW for SP 45-21	0	10	0	10	Set	3,678.00	36,780.00	98/4020 CCX 98 1304
03-04-00276	Unicef Commodity Code: 432287 Same as item 14 but capacity 37.0KW for S45-31	0	10	0	10	Set	4,124.00	41,240.00	
03-04-00277	Unicef Commodity Code: 462380 Flexible electrical power cable for deep well submersible motors size 3x16 mm2	0	0	0	0	M.L.	3.13	0.00	98/4020 CCX 98 1425
03-04-00278	Unicef Commodity Code: 462380 Same as item 15 but size 3x10 mm 2	0	0	0	0	M.L.	2.17	0.00	
03-04-00279	Unicef Commodity Code: 462380 Same as item 15 but size 3x6 mm2	0	0	0	0	M.L.	1.24	0.00	
03-04-00280	Unicef Commodity Code: 462380 Same as item 15 but size 3x4 mm2	0	0	0	0	M.L.	0.96	0.00	
03-04-00281	Unicef Commodity Code: 432287 Control panel for submersible 11.00 KW motor with main switch circuit breaker phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 Volt, 50 Hz, 3 PH, auto-transformer starter.	0	0	0	0	Set	1,371.00	0.00	98/4020 CCX 98 1463
03-04-00282	Unicef Commodity Code: 432287 Same as item 16 but for 15.00 KW capacity motor	0	0	0	0	Set	1,415.00	0.00	
03-04-00283	Unicef Commodity Code: 432287 Same as item 16 but for 18.50 KW capacity motor	0	0	0	0	Set	1,457.00	0.00	
03-04-00284	Unicef Commodity Code: 432287 Same as item 16 but for 22.00 KW capacity motor	0	0	0	0	Set	1,527.00	0.00	
03-04-00285	Unicef Commodity Code: 432287 Same as item 16 but for 30.00 KW capacity motor	0	0	0	0	Set	1,706.00	0.00	
03-04-00286	Unicef Commodity Code: 432287 Same as item 16 but for 37.00 KW capacity motor	0	0	0	0	Set	2,128.00	0.00	
03-04-00287	Unicef Commodity Code: 432287 Same as item 16 but for 75.00 KW capacity motor	0	0	0	0	Set	2,762.00	0.00	

	Description	Dhk	Erb	Sul					
03-04-00288	Low lift submersible drainage pump with direct coupled electrical motor and with none return valve, control panel, complete set, 50 meters three core cable, Q=800 CUM/HR (Max), head 35 M (Min), 400 volt, 50 HZ and 3 PH. With O&M manual and spare parts catalogue. Packed suitable for land and sea transportation	0	4	0	4	Set	22,298.00	89,192.00	CCX 972141
Sub-Total:								712,637.00	
Primary Shipping Cost (12%):								85,516.44	
Levy (3%):								21,379.11	
Grand-Total:								819,532.55	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

6. Vertical Turbine Pumps

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00289	Deepwell turbine pump capacity Q=14cum/hr(min), head=160M (max), preferably BP27-16 type 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 operatoin, O&M manual in English with appropriate packings.	0	0	0	0	Set	8,216.31	0.00	98/4015 CCX 98 2121
03-04-00290	Same as item (1), Q=22cum/hr (min), H=165m (max), (BP 45-16)	0	2	0	2	Set	8,394.71	16,789.42	98/4015 CCX 98 2121
03-04-00291	Same as item (1), Q=14cum/hr (min), H=95m (max), (BP 27-10)	0	0	0	0	Set	6,174.60	0.00	98/4015 CCX 98 2831
03-04-00292	Same as item (1), Q=22cum/hr (min), H=155m (max), (BP 45-12)	0	0	0	0	Set	8,395.00	0.00	
03-04-00293	Vertical motor complete set for Grundfos vertical turbine pumps, 380V, 50Hz, 2900 rpm, 3PH and capacity 15KW.	0	0	0	0	Each	452.41	0.00	98/4015 CCX 98 7171
03-04-00294	Same as item 2 but capacity 11KW	0		0	0	Each	550.00	0.00	
03-04-00295	Same as item 2 but capacity 22KW	0	2	0	2	Each	653.27	1,306.54	
03-04-00296	Same as item 2 but capacity 30KW	0	3	0	3	Each	954.77	2,864.31	
03-04-00297	Diesel engine for operating vertical turbine pump, capacity 45 HP, complete set with clutch, 50 degrees Celcius max; and 1,200m max altitude	0	5	0	5	Set	6,282.30	31,411.50	98/4015 CCX 98 1515
03-04-00298	Right angle gear for Grundfos vertical turbine pump,type 2GS25/3GS26 for 20HP	0	0	0	0	Set	983.66	0.00	98/4015 CCX 98 1757
03-04-00299	Same as item 4 but type 2GS45/3GS46 for 40HP	0	0	0	0	Set	1,742.23	0.00	
03-04-00300	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	0	0	0	0	Each	11.78	0.00	98/4060 CCX 98 2847
03-04-00301	Same as item 5 but size 3 x 5/8 inch	0	0	0	0	Each	14.14	0.00	98/4015 CCX 98 1757
03-04-00302	Same as item 5 but size 3 x 3/4 inch	0	0	0	0	Each	13.97	0.00	
03-04-00303	Same as item 5 but size 4 x 3/4 inch	0	0	0	0	Each	15.39	0.00	
03-04-00304	Same as item 5 but size 4 x 7/8 inch	0	0	0	0	Each	18.26	0.00	
03-04-00305	Same as item 5 but size 5 x 7/8 inch	0	0	0	0	Each	17.55	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00306	Sealing set for shaft seal for Grundfos vertical turbine pumps size 5/8 inch	0	0	0	0	Each	24.17	0.00	98/4015 CCX 98 1757
03-04-00307	Same as item 6 but size 3/4 inch	0	0	0	0	Each	132.12	0.00	
03-04-00308	Same as item 6 but size 7/8 inch	0	0	0	0	Each	128.36	0.00	
03-04-00309	Same as item 6 but size 1 inch	0	0	0	0	Each	48.52	0.00	
03-04-00310	Shaft coupling for Grundfos vertical turbine pumps size 5/8 inch	0	0	0	0	Each	22.91	0.00	98/4015 CCX 98 1757
03-04-00311	Same as item 7 but size 3/4 inch	0	0	0	0	Each	22.38	0.00	
03-04-00312	Same as item 7 but size 7/8 inch	0	0	0	0	Each	30.35	0.00	
03-04-00313	Driver for Grundfos vertical turbine pump type BP 16/27/45 size 3/4 inch	0	0	0	0	Each	23.45	0.00	98/4015 CCX 98 1757
03-04-00314	Same as item 8 but size 5/8 inch	0	0	0	0	Each	23.45	0.00	
03-04-00315	Same as item 8 but size 7/8 inch	0	0	0	0	Each	30.35	0.00	
03-04-00316	Pump discharge head, complete set consisting of pump head, gasket, bolt & nut, stay bolts, nuts, pipe plug for BP 27-15, BP 27-12 & BP 45-7, size 3.0 inch	0	0	0	0	Each	523.48	0.00	98/4015 CCX 98 1757
03-04-00317	Same as item 9 but size 4.0 inch	0	0	0	0	Each	527.04	0.00	
03-04-00318	Line shaft with shaft with coupling for Grundfos vertical turbine pumps, size 5/8 inch x 1.8 m	0	0	0	0	Each	32.58	0.00	
03-04-00319	Same as item 10 but size 3/4 inch x 1.8 m	0	0	0	0	Each	45.83	0.00	98/4015 CCX 98 1757
03-04-00320	Same as item 10 but size 7/8 inch x 1.8 m	0	0	0	0	Each	68.93	0.00	
03-04-00321	Column pipes for Grundfos vertical turbine pumps, size 4.0 inch x 1.8 m	0	0	0	0	Each	98.46	0.00	
03-04-00322	Same as item 11 but size 5.0 inch x 1.8 m	0	0	0	0	Each	153.52	0.00	98/4015 CCX 98 1757
03-04-00323	Impeller for Grundfos vertical turbine pumps, size 3 x 5/8 inch	0	0	0	0	Each	17.09	0.00	
03-04-00324	Same as item 12 but size 3 x 3/4 inch	0	0	0	0	Each	15.80	0.00	
03-04-00325	Same as item 12 but size 4 x 3/4 inch	0	0	0	0	Each	15.80	0.00	98/4015 CCX 98 1757
03-04-00326	Same as item 12 but size 4 x 7/8 inch	0	0	0	0	Each	15.80	0.00	
03-04-00327	Bottom column pipe complete with shaft, coupling and bearing with thread in bottom end, size 3 x 5/8 inch	0	0	0	0	Each	125.32	0.00	
03-04-00328	same as item 13 but size 3 x 3/4 inch	0	0	0	0	Each	138.39	0.00	98/4015 CCX 98 1757
03-04-00329	same as item 13 but size 4 x 3/4 inch	0	0	0	0	Each	159.70	0.00	
03-04-00330	same as item 13 but size 4 x 7/8 inch	0	0	0	0	Each	185.65	0.00	
03-04-00331	Bowl assembly for BP 27-15	0	0	0	0	Each	1,639.17	0.00	98/4015 CCX 98 1757
03-04-00332	same as item 14 but BP 45-12	0	0	0	0	Each	1,926.35	0.00	
03-04-00333	Top column pipe complete with shaft coupling, bearing and mechanical shaft seal, size 3 x 5/8 inch	0	0	0	0	Each	227.71	0.00	
03-04-00334	Same as item 15 but size 3 x 3/4 inch	0	0	0	0	Each	285.55	0.00	98/4015 CCX 98 1757
03-04-00335	Same as item 15 but size 4 x 3/4 inch	0	0	0	0	Each	228.61	0.00	
03-04-00336	Same as item 15 but size 4 x 7/8 inch	0	0	0	0	Each	353.32	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00337	Diesel engine for operating vertical turbine pump complete set with clutch, MWM D-3011; max altitude 1,200m.	0	0	0	0	Set	4,107.00	0.00	
03-04-00338	Same as item 16 but MWM D-3022	0	0	0	0	Set	5,022.00	0.00	
03-04-00339	Same as item 16 but MWM D-3033	0	0	0	0	Set	6,079.00	0.00	
03-04-00340	Same as item 16 but MWM D-3274	0			0	Set	10,004.00	0.00	
Sub-Total:								52,371.77	
Primary ShippingCost (12%):								6,284.61	
Levy (3%):								1,571.15	
Grand-Total:								60,227.54	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

7. Booster Pumps and Spare Parts

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00341	Centrifugal booster pump for pumping treated water. Q=300 cum/hr, H=220M. Directly coupled with electrical driven motor with star-delta connection and with control panel. V=400V, P=50Hz, 3P. Max altitude 1,000m. With spare parts for two years operation, operation and maintenance manual in English, and spare parts catalogue. Packed suitable for sea and land transportation.	0	5	0	5	Set	32,163.00	160,815.00	
03-04-00342	Centrifugal multistage VERTICAL booster pump for chlorination purpose. Q=4 cum/hr, H=120M. Directly coupled with electrical driven motor with star-delta connection and with control panel. V=380V, P=50Hz, 3P. Max altitude 1,000m. With spare parts for two years operation, operation and maintenance manual in English, and spare parts catalogue. Packed suitable for sea and land transportation.	0	0	0	0	Set	8,000.00	0.00	
03-04-00343	Gland packing size 1/2 inch; pH 5-8.5 RPM = 2440 H = 80m	0	0	0	0	ML	5.61	0.00	98/4013 CCX 98 1868
03-04-00344	Gland packing size 3/4 inch pH 5-8.5 RPM = 2440 H = 150m	0	0	0	0	ML	31.42	0.00	
03-04-00345	Gland packing size 3/8 inch pH 5-8.5. RPM = 2900, 20 bar	0	0	0	0	ML	3.12	0.00	
03-04-00346	Gland packing size 5/8 inch pH 5-8.5 RPM = 2440 H = 40m	0	0	0	0	ML	8.92	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00347	High pressure multi-stage centrifugal booster pump for pumping treated water. Q=82 cum/hr, H=380m Coupled with electivrcal drivenmotor through a flexible coupling, with control panel including oil circuit breaker 12KV with all relays and protection devices. Shaft and impellers should be made of stainless steel, thermometers should be attached to both end bearings. Motor should be squirrel cage, 1500 rpm, 3300V, 50Hz. Max altitude 1,000m FOR NEW INSTALLATION, CABLES TO BE PACKED SEPRATELY WITH EACH SET.	0	4	0	4	Set	42,012.00	168,048.00	
03-04-00348	Same as item 7 but: Q=33 cum/hr, H=260m	0	5	0	5	Set	23,510.00	117,550.00	
03-04-00349	Centrifugal booster pump for pumping treated water . Q=100 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. Max altitude 1,000m. With spare parts for 2 years operation, spare parts/operation manual in English, and neccessary valves, non-return valves, flanges, elbows, reducers FOR NEW INSTALLATION. CABLES TO BE PACKED SEPRATLEY WITH EACH SET.	0	4	0	4	Set	10,455.00	41,820.00	
03-04-00350	Same as item 8 but: Q=100 cum/hr, H=60m	0	4	0	4	Set	4,002.00	16,008.00	
03-04-00351	Same as item 8 but: Q=68 cum/hr, H=348m	0	3	0	3	Set	40,064.00	120,192.00	
03-04-00352	Same as item 8 but: Q=200 cum/hr, H=100m	0	2	0	2	Set	15,000.00	30,000.00	
03-04-00353	Same as item 8 but: Q=60 cum/hr, H=60m	0	4	0	4	Set	7,500.00	30,000.00	
03-04-00354	Same as item 8 but: Q=50 cum/hr, H=80m	0	2	0	2	Set	10,000.00	20,000.00	
03-04-00355	Same as item 8 but: Q=100 cum/hr, H=100m	0	4	0	4	Set	15,000.00	60,000.00	
03-04-00356	Same as item 8 but: Q=100 cum/hr, H=80m	0	0	0	0	Set	10,000.00	0.00	
03-04-00357	Same as item 8 but: Q=250 cum/hr, H=200m	0	0	0	0	Set	40,000.00	0.00	
03-04-00358	Centrifugal booster pump for pumping treated water . Q=700 cum/hr, H= 200m Coupled with electrical driven motor with on line starter and automatic circuit breaker connection and with control panel. 3300V, 50Hz, 3 phase. Max altitude 1,000m. With spare parts for 2 years operation, spare parts/operation manual in English, and neccessary valves, non-return valves, flanges, elbows, reducers FOR NEW INSTALLATION. CABLES TO BE PACKED SEPRATLEY WITH EACH SET.	0	0	0	0	Set	85,000.00	0.00	
03-04-00359	Spare parts for Ingersol pumps*	0	0	0	0	Set	4,000.00	0.00	
03-04-00360	Ball Bearing.*	0	0	0	0	Set	25,000.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00361	Star-Delta Electrical Motor with control panel for booster pump. P=185 KW at 2960 RPM, V=400V, 50 HZ, 3P, mounting position: IM 1001 (IM B3), IP23/1C01	0	2	0	2	Set	10,526.00	21,052.00	
03-04-00362	Star-Delta 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 B3), IP23/1C01	0	2	0	2	Set	15,101.00	30,202.00	CCX 971471
03-04-00363	Star-Delta Electrical Motor with control panel for booster pump. P=185 KW at 1490 RPM, V=400V, 50 HZ, 3P, mounting position: IM 1001 (IM B3), IP23/1C01	0	2	0	2		12,000.00	24,000.00	CCX 971471
Sub-Total:								839,687.00	
Primary Shipping Cost (12%):								100,762.44	
Levy (3%):								25,190.61	
Grand-Total:								965,640.05	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES

PUMPS AND ASSOCIATED EQUIPMENT

8. Electrical Equipment and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00364	Control panel for submersible motor with main switch, circuit breaker, illuminated selector switch, contactor, phase failure relay, timing relay, overload relay, fuse holder, autotransformer, 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, 45 Amp	0	2	0	2	Each	1,526.18	3,052.36	98/4012 CCX 98 1460
03-04-00365	Same as item 1 but capacity 37 Kw, 72 Amp	0	1	0	1	Each	2,127.23	2,127.23	
03-04-00366	Control panel for star-delta motor with main switch, circuit breaker, illuminated selector switch, contactor, phase failure relay, timing relay, overload relay, fuse holder, autotransformer, ammeter and voltmeter, 380V, 50Hz, 3Ph. Capacity 45 Kw	0	2	0	2	Each	1,342.21	2,684.42	98/1615 CCX 98 1615
03-04-00367	Same as item 2 but capacity 75 Kw	0		0	0	Each	1,510.72	0.00	
03-04-00368	Same as item 2 but capacity 110 Kw	0		0	0	Each	2,638.00	0.00	
03-04-00369	Same as item 2 but capacity 200 Kw	0		0	0	Each	3,776.70	0.00	
03-04-00370	Same as item 2 but capacity 315 Kw	0		0	0	Each	4,570.85	0.00	
03-04-00371	Automatic air-circuit breaker, MCCB, 500V, 50Hz & 3P. Capcity 2000-2500	0		0	0	Each		0.00	
03-04-00372	Same as item 3 but capacity 1000-1250	0		0	0	Each	1,600.00	0.00	
03-04-00373	Same as item 3 but capacity 800-1000 amps	0	2	0	2	Each	1,362.38	2,724.76	97/4275 CCX 98 0354
03-04-00374	Same as item 3 but capacity 400-500	0	2	0	2	Each	750.00	1,500.00	
03-04-00375	Same as item 3 but capacity 80-100 amps	0	40	0	40	Each	47.61	1,904.40	97/4275 CCX 98 0354
03-04-00376	Same as item 3 but capacity 50-63 amps	0	20	0	20	Each	47.61	952.20	
03-04-00377	Same as item 3 but capacity 30-40 amps	0	10	0	10	Each	69.99	699.90	
03-04-00378	Flexible electrical power cable for 400V, size 1x240 mm2	0	0	0	0	ML	5.82	0.00	98/4026 CCX 98 1926
03-04-00379	Same as item 4 but size 1x150 mm2	0	0	0	0	ML	3.66	0.00	
03-04-00380	Same as item 4 but size 1x95 mm2	0	0	0	0	ML	2.44	0.00	
03-04-00381	Same as item 4 but size 1x50 mm2	0	0	0	0	ML	3.66	0.00	
03-04-00382	Same as item 4 but size 1x35 mm2	0	0	0	0	ML	1.06	0.00	
03-04-00383	Same as item 4 but size 1x25 mm2	0	0	0	0	ML	0.86	0.00	
03-04-00384	Same as item 4 but size 4x10 mm2	0	0	0	0	ML	2.27	0.00	98/4026 CCX 98 1919
03-04-00385	Same as item 4 but size 4x16 mm2	0	0	0	0	ML	3.38	0.00	
03-04-00386	Same as item 4 but size 3x25+16 mm2	0	0	0	0	ML	5.50	0.00	
03-04-00387	size 4x35 mm2 or (3x35+16mm2)	0	0	0	0	ML	6.90	0.00	98/4026 CCX 98 1919

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00388	size 4x50 mm2 or (3x50+25mm2)	0	0	0	0	ML	10.01	0.00	
03-04-00389	Oil for high tension transformers, 33/11KV and 11/0.4 KV	0	0	0	0	Litre	1.06	0.00	97/4274 CCX 98 0235
03-04-00390	Electric contactors, 500V, 50 Hz, coil voltage 380V, SIEMENS Germany, type 3TF 54	0	0	0	0	Each	583.98	0.00	98/4026 CCX 98 2038
03-04-00391	Same as item (6), type 3TF 56	0	0	0	0	Each	874.04	0.00	
03-04-00392	Agitator for water treatment plant. Motor type QU 100 L4 BA, 2.2KW, 1435 R.P.M, 380V with control panel, Gear type R/50, Rapp 17.67, MATR 5CV3, Eapp.ss1. ELECTRO AGITATOR, AFERFT 10/145, MATR 18926/CV3/380V, GIRAIIVTE O850, GIRT1 80 Italian	0	0	0	0	Set	2,500.00	0.00	
03-04-00393	Phase failure, three phase asymmetry and sequence relay, 380 V, 50 Hz. E. Dold u. Sohne KG Type BA 9041	0	200	0	200	Set	131.88	26,376.00	98/4012 CCX 98 2005
03-04-00394	Electric cable, high tension, 3.3KV, size 3 x 150mm	0	0	0	0	ML	75.00	0.00	
03-04-00395	Same as item 9 but size 3 x 95mm	0	0	0	0	Set	60.00	0.00	
03-04-00396	Self-amalgating electrical tape 19mm x 10m. for high tension voltage-moister resistant, ozone resistant	0	0	0	0	Each	4.26	0.00	98/4026 CCX 98 1921
03-04-00397	Insulating tape, low voltage, 19mm x 33m	0	0	0	0	Each	1.91	0.00	
03-04-00398	Shrinkable terminations (12,000V) three core for cable size (50-95)mm, 60 cm long	0	0	0	0	Set	191.97	0.00	
03-04-00399	Shrinkable terminations (36,000V) three core for cable size (95-150)mm, 120 cm long	0	0	0	0	Set	260.52	0.00	
Sub-Total:								42,021.27	
Primary Shipping Cost (12%):								5,042.55	
Levy (3%):								1,260.64	
Grand-Total:								48,324.46	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

9. Generators and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00400	Diesel generator complete set with control panel board consisting of automatic main failure switch, change-over switch, voltmeter, ammeter, hour meter, phase selector switch, frequency meter, starting key, high temperature warning, low oil pressure warning, low fuel warning and with 12 V electric starting system with battery, battery charger and voltage regulator, and with fresh waterloop cooling system, heavy duty air filter, cartridge oil and fuel filter, speed governor, silencer, exhaust flexible piping and with fuel tank to run 8 hours continuously and suitable for continuous operation. Maximum output power 1000 KVA, 400V, 3Ph and 50Hz. 50 deg C max; and 1,200 m max alt. The engine and alternator coupled by elastic joint and mounted on a common bed-frame with anti-vibration mountings and lifting eyes with complete tool-kit set. Supplies with O&M manual and spare parts catalogue in English. With spare parts for 2 years normal operation. Packed in wooden case suitable for sea and land transportation.	0	3	0	3	Set	100,000.00	300,000.00	CCX 981397
03-04-00401	Same as item 1, capacity 750 KVA.	0	2	0	2	Set	74,600.13	149,200.26	98/4019 CCX 98 1771
03-04-00402	Same as item 1, capacity 250 KVA.	0	0	0	0	Set	24,380.90	0.00	
03-04-00403	Unicef commodity code 461133 Diesel generator, 100 KVA, 400/220 V, 3- phase, 50 hz for contentious operation, complete set with control panel , compressing automatic mains circuit breaker, voltmeter, ammeter, hour meter emergency stop and key start, high temperature and low oil pressure warning lamp, low fuel warning 12 V voltage regulator, battery charger, water-cooled with tropical radiator , air, oil and fuel filters, speed governor , silencer, 1.5 M exhaust flexible piping, 185 liters tank to run for 8 hours, model TC 200 FIN TYPE: 8061 SI 16, also including:- Spare parts for two years operation. Operation and maintenance manuals and wiring diagram, in English and Arabic, if available - Tool Kit. Packed in strong wooden Crate.	0	20	0	20	Set	13,710.21	274,204.20	CCX 981913
Sub-Total:								723,404.46	
Primary Shipping Cost (12%):								86,808.54	

	Description	Dhk	Erb	Sul	Total	Unit			
Levy (3%):								21,702.13	
Grand-Total:								831,915.13	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES

PUMPS AND ASSOCIATED EQUIPMENT

10. Tools and Accessories

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
		Dhk	Erb	Sul					
03-04-404	Tools set for mechanical work	0	0	0	0	Set	256.66	0.00	98/4025 CCX 98 2204
03-04-405	Tools set for electrical work	0	0	0	0	Set	199.17	0.00	
03-04-406	Portable lubricating pump, hand-operated level type for dispensing lubricating oil or soft grease, consisting of a container fitted with carrying handle and strong foot-plate, with 2 M high pressure delivery hose and hydraulic connector. Capacity 16 litres and pressure 250 bar (reference number A1205017)	0	0	0	0	Set	262.50	0.00	98/4020 CCX 98 2225
03-04-407	Grease for all mechanical parts, type C3 or SHELL-ALVANIA R3 or R2, company: Shell company, USA	0	0	0	0	Kg	2.95	0.00	98/4020 CCX 98 2312
03-04-408	Portable pipe cutting machine	0	0	0	0	Each	500.00	0.00	
03-04-409	Pipe Wrench Size 200mm	0	0	0	0	Each	10.80	0.00	
03-04-410	Pipe Wrench Size 250mm	0	0	0	0	Each	13.50	0.00	
03-04-411	Pipe Wrench Size 350mm	0	0	0	0	Each	18.00	0.00	
03-04-412	Pipe Wrench Size 460mm	0	0	0	0	Each	40.00	0.00	
Sub-Total:								0.00	
Primary Shipping Cost (12%):								0.00	
Levy (3%):								0.00	
Grand-Total:								0.00	

PROJECT 3: URBAN AND SEMI-URBAN SANITATION EQUIPMENT

11. Sanitation Vehicles and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-00413	Tyre with internal tube, size 1100x20 for HINO type tankers and trucks.	0	0	0		Each	166.54	0	98/4035 CJX 980418
03-04-00414	Tyre with internal tube, size 1200x20 for tip trucks, type Scania.	0	0	0		Each	209.15	0	97/4288 CJX 98 0016
03-04-00415	Tyre with internal tube, size 1200x24 for tip trucks, type Scania/ Volvo.	0	0	0		Each	208.69	0	98/4250 CJX 980552
03-04-00416	Tyre with internal tube, size 1300x24 for grader, type Caterpillar.	0	0	0		Each	229.60	0	98/4250 CJX 980552
03-04-00417	Tyre with internal tube, size 1400x24 for grader.	0	0	0		Each	308.12	0	97/4288 CJX 98 0016
03-04-00418	Tyre with internal tube, size 17.5x25 for shovel, type Kawaski	0	0	0		Each	323.94	0	98/4250 CJX 980552
03-04-00419	Tyre with internal tube, size 20.5x25 for Caterpillar shovel.	0	0	0		Each	667.18	0	97/4288 CJX 98 0016
03-04-00420	Tyre with internal tube, size 16x750 for tractor.	0	0	0		Each	35.87	0	98/4035 CJX 98 0418

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00421	Tyre with internal tube, size 15x750 for tractor.	0	0	0		Each	56.59	0	984035 CJX 98 0418
03-04-00422	Tyre with internal tube, size 14x650 for pick-up.	0	0	0		Each	31.69	0	97/4288 CJX 98 0016
03-04-00423	Tyre with internal tube, size 900x20 for FAUN road cleaner.	0	0	0		Each	148.75	0	97/4288 CJX 98 0016
03-04-00424	Tyre with internal tube, size 9x600 for two MTN fork lifter	0	0	0		Each	73.31	0	
03-04-00425	Tyre with internal tube, size 15x9-28 for two MTN fork lifter	0	0	0		Each	250.00	0	
03-04-00426	Tyre with internal tube, size 16.9/14 x 28 for Anter tractor	0	0	0		Each	177.85	0	98/4250 CJX 98 0552
03-04-00427	Batteries, size 12x19x150 Amp-hour for HINO tankers and trucks.	0	0	0		Each	83.67	0	97/4288 CCX 98 0106
03-04-00428	Batteries, size 12x19x135 Amp-hour for shovel and bulldozer.	0	0	0		Each	71.00	0	98/4250 CCX 982592
03-04-00429	Batteries, size 12x19x90 Amp-hour for tractor and compressor.	0	0	0		Each	51.14	0	98/4250 CCX 98 2592
03-04-00430	Batteries, size 12x11x60 Amp-hour for pick-up and landcrusor.	0	0	0		Each	25.75	0	98/4250 CCX 98 2592
03-04-00431	Spare parts for HINO garbage collectors. Type:HINO KB 1980; KB 422 - 11802; EB 300 - 54123. Company: Morita Tokushu Kiko Co. Ltd., Osaka, Japan. Head assy, cyl. Part No:11110-2533	0	4	0	4	Each	694.00	2776	
03-04-00432	Same as item 19 but: Gkt. Cyl. Head Part No: 11115-1142	0	0	0		Each	35.00	0	
03-04-00433	Same as item 19 but: Liner cylinder Part No: 11467-1180	0	0	0		Each	64.00	0	
03-04-00434	Same as item 19 but: Gkt, cyl liner Part No: 11471-1110	0	0	0		Each	3.00	0	
03-04-00435	Same as item 19 but: Crankshaft assy Part No: 13471-1440	0	2	0	2	Each	1,860.00	3720	
03-04-00436	Same as item 19 but: Washer thrust, std Part No: 11011-1171	0	0	0		Each	43.00	0	
03-04-00437	Same as item 19 but: Washer thrust, 0.25 Part No: 11012-1170	0	0	0		Each	51.00	0	
03-04-00438	Same as item 19 but: Brg set c/s, std Part No: 11701-1160	0	12	0	12	Each	124.00	1488	
03-04-00439	Same as item 19 but: Brg set c/s, 0.25 Part No: 11701-1161	0	0	0		Each	137.00	0	
03-04-00440	Same as item 19 but: Ring set piston, std Part No: 13011-1	0	2	0	2	Each	120.00	240	
03-04-00441	Same as item 19 but: Ring set piston, 0.25 Part No: 13012-1220	0	12	0	12	Each	120.00	1440	
03-04-00442	Same as item 19 but: Brg set con. rod std. Part No: 13201-1280	0	0	0		Each	93.00	0	
03-04-00443	Same as item 19 but: Brg set con. rod 0.25 Part No: 13203-1170	0	0	0		Each	101.00	0	
03-04-00444	Same as item 19 but: Valve, intake Part No: 13711-1091	0	0	0		Each	7.00	0	
03-04-00445	Same as item 19 but: Valve, exhaust Part No: 13715-1500	0	0	0		Each	23.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00446	Same as item 19 but: Oil pump assy Part No: 15110-1011	0	0	0		Each	296.00	0	
03-04-00447	Same as item 19 but: Nozzle assy Part No: 23640-1240	0	0	0		Each	15.00	0	
03-04-00448	Same as item 19 but: Pump assy, fuel feed Part No: 22570-1040	0	12	0	12	Each	58.00	696	
03-04-00449	Same as item 19 but: Water pump assy Part No: 16100-1161	0	0	0		Each	175.00	0	
03-04-00450	Same as item 19 but: Compressor assy, air Part No: 29100-1033	0	0	0		Each	478.00	0	
03-04-00451	Same as item 19 but: Power strg pump assy Part No: 44310-1440	0	2	0	2	Each	477.00	954	
03-04-00452	Same as item 19 but: Plug assy, glow Part No: 19120-1020	0	0	0		Each	9.00	0	
03-04-00453	Same as item 19 but: Starter motor assy Part No: 28100-1400	0	0	0		Each	519.00	0	
03-04-00454	Same as item 19 but: Alternator assy Part No: 27020-1380	0	0	0		Each	215.00	0	
03-04-00455	Same as item 19 but: Regulator, alternator Part No: 27700-1100	0	0	0		Each	38.00	0	
03-04-00456	Same as item 19 but: Radiator sub assy Part No: 16081-1400	0	0	0		Each	925.00	0	
03-04-00457	Same as item 19 but: Disc assy, clutch Part No: 31250-1045	0	0	0		Each	124.00	0	
03-04-00458	Same as item 19 but: Plate, clutch press Part No: 31221-1120	0	0	0		Each	92.00	0	
03-04-00459	Same as item 19 but: Booster assy, clutch Part No: 32210-1812	0	0	0		Each	181.00	0	
03-04-00460	Same as item 19 but: Cylinder assy, master Part No: 31420-1060	0	0	0		Each	62.00	0	
03-04-00461	Same as item 19 but: Transmission assy, for se Part No: 33020-3770	0	0	0		Each	6,053.00	0	
03-04-00462	Same as item 19 but: Shaft assy, prop. rr Part No: 37760-7260	0	0	0		Each	680.00	0	
03-04-00463	Same as item 19 but: Valve assy, air brake Part No: 47160-1560	0	0	0		Each	288.00	0	
03-04-00464	Same as item 19 but: Starting relay Part No: 28300-1090	0	0	0		Each	24.00	0	
03-04-00465	Same as item 19 but: Booster assy, ps w/conrod Part No: 44260-1130	0	0	0		Each	917.00	0	
03-04-00466	Same as item 19 but: Gasket kit engine Part No: 04010-0160	0	0	0		Each	257.00	0	
03-04-00467	Same as item 19 but: Oil seal Part No: 9828-01109	0	0	0		Each	11.00	0	
03-04-00468	Same as item 19 but: Oil seal Part No: 9828-80105	0	0	0		Each	6.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00469	Same as item 19 but: Engine block Part No: KB 422-mo 82	0	0	0		Each	2,400.00	0	
03-04-00470	Same as item 19 but: Piston pin with bush	0	0	0		Each	5.00	0	
03-04-00471	Same as item 19 but: Power takeoff	0	0	0		Each	779.50	0	
03-04-00472	Same as item 19 but: Sewage pump	0	2	0	2	Each	1,000.00	2000	
03-04-00473	Spare parts for VOLVO trucks type N10 engine No. 149217 Fuel feed pump Part No: 240072-9	0	0	0		Each	149.00	0	
03-04-00474	Same as item 20 but: Ring set, std Par No: 275304	0	0	0		Each	150.00	0	
03-04-00475	Same as item 20 but: Piston set, std Par No: 275035	0	0	0		Each	450.00	0	
03-04-00476	Same as item 20 but: Cylinder liner kit Par No: 275631-2	0	0	0		Each	265.00	0	
03-04-00477	Same as item 20 but: Gasket kit Par No: 275631-2	0	0	0		Each	475.00	0	
03-04-00478	Same as item 20 but: Water pump Par No: 467204-4	0	0	0		Each	345.00	0	
03-04-00479	Same as item 20 but: Oil pump kit Par No: 275570-0	0	0	0		Each	169.00	0	
03-04-00480	Same as item 20 but: Mine breaking kit Par No: 270438-5	0	0	0		Each	17.00	0	
03-04-00481	Same as item 20 but: Thrust washer kit Par No: 276758-0	0	0	0		Each	12.00	0	
03-04-00482	Same as item 20 but: Water pump kit Par No: 275608-8	0	0	0		Each	184.00	0	
03-04-00483	Same as item 20 but: Clutch servo repair kit Par No: 273447-3	0	0	0		Each	88.00	0	
03-04-00484	Same as item 20 but: Big end bearing kit Par No: 270099-5	0	0	0		Each	17.00	0	
03-04-00485	Same as item 20 but: Compressor repair kit Par No: 272665-1	0	0	0		Each	59.00	0	
03-04-00486	Same as item 20 but: Master cylinder kit Par No: 273880-1	0	0	0		Each	70.00	0	
03-04-00487	Same as item 20 but: Thermostat Par No: 467015-4	0	0	0		Each	15.00	0	
03-04-00488	Same as item 20 but: Fuel injection pump Par No: 243440-5	0	0	0		Each	5,487.00	0	
03-04-00489	Same as item 20 but: Turbo charger Par No: 467389-5	0	0	0		Each	775.00	0	
03-04-00490	Same as item 20 but: Starter motor Par No: 240340-0	0	0	0		Each	735.00	0	
03-04-00491	Same as item 20 but: Alternator Par No: 1505307-7	0	0	0		Each	287.00	0	
03-04-00492	Same as item 20 but: Clutch disk Par No: 267236-8	0	0	0		Each	268.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00493	Same as item 20 but: Compressor Par No: 351453-6	0	0	0		Each	557.00	0	
03-04-00494	Same as item 20 but: Servo commande Par No: 1673067	0	0	0		Each	269.00	0	
03-04-00495	Same as item 20 but: Raccord (liner) Par No: 966458	0	0	0		Each	8.00	0	
03-04-00496	GARBAGE COLLECTOR TRUCK , SCANIA, CAPACITY 11 cum, 4 tonne, 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, colour-white, including garbage collector 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.	0	5	0	5	Unit	60,000.00	300000	
03-04-00497	UNICEF Commodity Code : 491800 SCANIA, P94GB 4X2 NZ, 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, colour-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.	0	5	0	5	Unit	84,093.00	420465	98/4250 CCX 98 3402
03-04-00498	UNICEF COMMODITY CODE NO. 513100 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 : 5.00 * 12- Front tyers : 6.00- 16- Max.speed : 21 km/h- Steering: Mechanical - Hopper Capacity: 0.5 c.m. heaped - Accidental Tipping Protection: Mechanical blocking system for the hopper lever.	0	11	0	11	Each	7,805.00	85855	CCX983394
03-04-00499	Mobile workshop, for maintaining and repairing sanitation vehicles, complete with repairing tools.	0	0	0		Set	45,000.00	0	
03-04-00500	Unicef commodity code 491800 KAWASAKI Wheel loader Model: 80ZIV-2-2.9 M3. General purpose Bucket with straight edge Teeth engine: Nissan NE6T04 Diesel engine Flywheel horse power: : Gross 185 Hp at 2200 rpm - Tyer: 20.5-22-16 PR (L3) Tubeless Tyers - Sun Canopy, with out steel Cabin/ROPS Canopy nor Air conditioner AS per Supplier's offer L-ELKLC- 0820 of 11 June, 1998.	0	2	0	2	Set	72,268.90	144537.8	CIX 980691

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00501	Bulldozer, chain type, D65A, KOMATSU	0	0	0		Set	60,500.00	0	
03-04-00502	Unicef Commodity Code: 435311 Fork Lifter, 3 ton capacity	0	0	0		Set	24,724.00	0	97/4309 CCX 98 3091
03-04-00503	Drill Bit Set HSS for metal with tool box to fit one of each size. Comprising: 1.0, 1.5, 2.0, 2.5. 10 of each 3.0, 3.5, 4.0, 4.5, 5.0. 5 of each 5.5, 6.0, 6.5, 7.0, 8.0. 2 of each 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0 1 of each	0	0	0		Set	200.00	0	
03-04-00504	Hacksaw, adjustable 250-300mm with 10 blades. Luna Code: 4275-0208	0	0	0		Set	15.00	0	
03-04-00505	Tap and Die Set Metric M3 to M16 Comprising: second and bottom taps (II and III) with chuck tap wrench and tool holder, die with 2 die holders. Taps and dies in HSS sizes M3, 4, 5, 6, 8, 10, 12, 16.	0	0	0		Set	460.00	0	
03-04-00506	Engineers File Set, second cut, 10 inch blade with handles, total of 6, Comprising: flat, hand, half round, round, square, three square. Luna Code: 4493-0105	0	0	0		Set	60.00	0	
03-04	Screwdrivers with chrome plated blades, 12 total Slot: 0.6x3.2x75, 1.0x5.0x75 1.4x6.0x100, 1.4x8.0x100 1.0x6.0x38, 1.6x10,200, 2x12x250 Phillips: 1x75, 2x100, 2x38 3x150, 4x200.	0	0	0		Set	95.00	0	
03-04-00508	Impact Driver Kit, 5/16" Hex drive and 1/2" square drive with cross-point: No 2 & 3 Flat: 8 & 10mm Luna Code: 7266-0103	0	0	0		Set	14.00	0	
03-04-00509	Nut Splitter, 10-14mm, 14-18mm, total of 2 Luna Code: 7577	0	0	0		Set	29.00	0	
03-04-00510	Screw Extractor Set, 8 no. M3-M45 Luna Code: 0503-0309	0	0	0		Set	30.00	0	
03-04-00511	Pin Bolt Extractor, stud diameter 8-19mm Luna Code: 1202-0202	0	0	0		Set	35.00	0	
03-04-00512	Combination Spanners, chrome vanadium steel, 20 total: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32mm Luna Code: 5029-0204	0	0	0		Set	136.00	0	
03-04-00513	Extended Ring Spanner, chrome vanadium steel, 13 total: 24, 27, 30, 32, 36, 41, 46, 50, 55, 60, 65, 70, 75 Luna Code: 1055	0	0	0		Set	520.00	0	
03-04-00514	Extention Tube, dia 25mm, length 760mm Luna Code: 1057-0307	0	0	0		Set	32.00	0	
03-04-00515	Swivel Socket Wrenches, chrome vanadium steel, 6 total: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19 Luna Code: 6295-0209	0	0	0		Set	47.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00516	Torque Spanner 1/2". Range 60-300 Nm Luna Code: 5724-0307	0	0	0		Set	175.00	0	
03-04-00517	Torque Spanner 3/4". Range 400-1000 Nm Luna Code: 7746-0202	0	0	0		Set	446.00	0	
03-04-00518	Adjustable Spanners, chrome vanadium steel, 3 total Length: 110mm, 255mm, 305mm. Luna Code: 1473	0	0	0		Set	51.00	0	
03-04-00519	Socket set 1/2" square drive with T-bar, ratchet handle, extension bar and universal joint. Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 30, 32. Luna Code: 4340-0100	0	0	0		Set	228.00	0	
03-04-00520	Socket set 3/4" square drive with T-bar, ratchet handle, extension bar and universal joint. Sockets: 22, 24, 27, 30, 32, 36, 38, 41, 46, 50. Luna Code: 1146-0102	0	0	0		Set	312.00	0	
03-04-00521	Sockets for internal hexagon holes, 1/2" square drive, total 9 5, 6, 7, 8, 9, 10, 12, 14, 17 Luna Code: 9422-0100	0	0	0		Set	64.00	0	
03-04-00522	Heavy Duty Sockets, 1/2" square drive, total 10 11, 12, 13, 14, 15, 17, 19, 21, 22, 24. Luna Code: 1054-0102	0	0	0		Set	18.00	0	
03-04-00523	Allen Keys, metric, set of 7 2.5, 3, 4, 5, 6, 8, 10. Luna Code: 9453-0102	0	0	0		Set	11.00	0	
03-04-00524	Allen Keys, imperial, set of 7 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8. Luna Code: 9453-1001	0	0	0		Set	11.00	0	
03-04-00525	Hand Drill, max. chuck dia. 13mm, 2 speed. Luna Code: 4259-0505	0	0	0		Set	21.00	0	
03-04-00526	Circlip Pliers, set of 4 Straight: Internal capacity 8-18mm, 18-48mm 45 Angle: Internal capacity 8-18mm, 18-48mm	0	0	0		Set	65.00	0	
03-04-00527	Oil Filter Spanner, chain wrench 60mm-140mm dia. Luna Code: 8506-0200	0	0	0		Set	20.00	0	
03-04-00528	Battery Acid Tester Luna Code: 1010-0105	0	0	0		Set	9.00	0	
03-04-00529	Honing Tool, (driven by drill machine), 2 total for brake cylinder, dia to be burnished 5/8-1" for engine block cylinder, dia to be burnished 2-7"	0	0	0		Set	89.00	0	
03-04-00530	Piston Ring Compressor, width of span 90-175mm Luna Code: 1012-0400	0	0	0		Set	19.00	0	
03-04-00531	Piston Ring Pliers, width of span 90-150mm Luna Code: 1013-0300	0	0	0		Set	15.00	0	
03-04-00532	Pullers, 3 no sets, 3 leg, clamp depth 140mm range 125mm, with centre points 25, 40mm Kukko no. 24B see attached photocopy for details. Kukko no. 15/C see attached photocopy for details.	0	0	0		Set	1,095.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00533	Jump Leads, heavy duty, cable core 16mm ² , 3m long Luna Code: 2235-0300	0	0	0		Set	25.00	0	
03-04-00534	Battery charger, with start help and battery charger functions and cables max. start current 220A charge voltage 12, 24V max. charge current 30A	0	0	0		Set	211.00	0	
03-04-00535	Chain Wrench, heavy duty, 3" dia max. length 600mm Luna Code: 0742-0235	0	0	0		Set	100.00	0	
03-04-00536	Pipe Wrench, heavy duty, 3" dia max. length 600mm Luna Code: 5049-0408	0	0	0		Set	105.00	0	
03-04-00537	Pipe Wrench, heavy duty, 2" dia max. length 450mm Luna Code: 4049-0200	0	0	0		Set	54.00	0	
03-04-00538	Water Pump Pliers, total of 2 Length 250mm, 400mm	0	0	0		Set	57.00	0	
03-04-00539	Pliers, set of 5 Flat nose, length 160mm Snipe nose, length 160mm Round nose, length 140mm Combination, length 150mm, 180mm	0	0	0		Set	56.00	0	
03-04-00540	Self-grip Wrenches, set of 4, see attached photocopy 0975-0103, 0985-0108, 0975-0308, 7427-0109	0	0	0		Set	67.00	0	
03-04-00541	Welding Tongs, set of 4, see attached photocopy 0980-0103, 0985-0108, 0986-0107, 0989-0104	0	0	0		Set	81.00	0	
03-04-00542	Valve Spring Compressor, 80-250mm span Luna Code: 1015-0209	0	0	0		Set	21.00	0	
03-04-00543	Valve Grinder, cup dia. 15 & 20mm	0	0	0		Set	7.00	0	
03-04-00544	Pry Bars, 680mm, 820mm (see attached photocopy) Luna Code: 6445-0307 & 6445-0604	0	0	0		Set	76.00	0	
03-04-00545	Wire Stripper, 160mm Luna Code: 9363-0101	0	0	0		Set	13.00	0	
03-04-00546	Crimping Pliers, 230mm length, 4-10mm ² capacity Luna Code: 5972-0102	0	0	0		Set	117.00	0	
03-04-00547	POP Rivet Lazy Tong Punch for 4.8mm rivets with adapter for 3.2mm and 4mm POP rivets Luna Code: 0960-0305	0	0	0		Set	180.00	0	
03-04-00548	Drifts, set of 6 3, 4, 5, 6, 7, 8mm dia. Luna Code: 1672-0104	0	0	0		Set	20.00	0	
03-04-00549	Assorted Chisels and Punches, total of 6 Flat 120x10, 150x8mm Cross Cut 120x14mm Hole Punch 120x3, 150x4mm Centre Punch 120x10mm	0	0	0		Set	18.00	0	
03-04-00550	Assorted Hammers, total of 8 Cross Pien: 150g, 300g, 500g Ball Pien: 160g, 450g, 620g Metal Sledge: 1Kg, 3Kg.	0	0	0		Set	85.00	0	
03-04-00551	Assorted Mallets, total of 4 Copper 1.25Kg with handle Lead 5Kg Plastic 450g with handle Rubber 1.2Kg with handle	0	0	0		Set	89.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00552	Electrician's Knife with assorted blades Luna Code: 6417-0103	0	0	0		Set	7.00	0	
03-04-00553	Crowbar, steel length 1500mm Luna Code: 6063-0308	0	0	0		Set	16.00	0	
03-04-00554	Universal Saw, Stanley no. 2-15-715, with 2 spare blades Blade length 315mm, TPI 12.5	0	0	0		Set	25.00	0	
03-04-00555	Measuring Tape, metric 5m Luna Code: 0505-0307	0	0	0		Set	14.00	0	
03-04-00556	Measuring Tape, metric 2m Luna Code: 0505-0109	0	0	0		Set	8.00	0	
03-04-00557	Engineers Streight Edge, 40x5x1000mm Luna Code: 2505-0501	0	0	0		Set	28.00	0	
03-04-00558	Workshop Square, steel, long leg 400mm, short leg 200mm Luna Code: 2538-0601	0	0	0		Set	9.00	0	
03-04-00559	Engineers Universal Bevels 200mm, 25x5 Luna Code: 2544-0502	0	0	0		Set	21.00	0	
03-04-00560	Feeler Guages, Metric 0.05-1.00mm 20blades Luna Code: 2595-0502	0	0	0		Set	5.00	0	
03-04-00561	Vernier Calipers, snap lock, 150mm Luna Code: 5267-0106	0	0	0		Set	32.00	0	
03-04-00562	Pipe Cutters 1/8-1 1/4" Luna Code: 0605-0108	0	0	0		Set	97.00	0	
03-04-00563	Pipe Flaring Tools, 6, 8, 10, 12, 14, 15, 16mm. Luna Code: 6610-0207	0	0	0		Set	55.00	0	
03-04-00564	Magnets, 520mm Luna Code: 0258-0108	0	0	0		Set	11.00	0	
03-04-00565	Hydraulic Workshop Press, hand pumped with fixed head. Floor mounted Operating pressure 20 tonnes Ram stroke 150mm Luna Code: 8170-0304	0	0	0		Set	1,046.00	0	
03-04-00566	Pillar Drill for light production. V-belt drive, rectangular slotted table, rack mechanizm for raising and lowering, 90-0-90 degree titlting, 16mm chuck, 380V, 3 phase supply, motor rating 550W Max drill size 25mm Depth of drilling 125mm Spindle speeds 125-2060rpm Luna Code: 9054-0105	0	0	0		Set	592.00	0	
03-04-00567	Pedestal Grinder, 380V, 3 phase supply, motor power 775W. With eyeshields and pedestal: hieght to spindle centre 980mm 2 grinding wheels, min 200x25x20mm Luna Code: 6173-0404	0	0	0		Set	455.00	0	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00568	Air compressor, with automatic start and stop and unloading valve to permit starting without backpressure in the cylinders. 380V 3 phase supply. With 4 spare filters and F-R-L combination Min. displacement 600litres/min Free air discharge at 6 bar 500litres/min Max. working pressure 10 bar Motor rating 4kW Air receiver volume 200 liter With: PVC hose 2x1m with quick couplings Air pump nozzle with pressure gauge 0-10 bar Air gun for cleaning Air impact tool, hammering screwdriver 1/2" socket, 8000rpm Air filing grinder with 3, 6mm collets, sdia 6mm, 25000 rpm speed air drilling machine, chuck capacity 13mm. Luna Code: 9535-0104	0	0	0		Set	1,785.00	0	
03-04-00569	Welding rectifier, 3 phase 380V, max power requirement 15.4 kVA. Adjustment range 30-250A With: Set of cables 2x10m, 35mm^2 core Luna Code: 4309-0109	0	0	0		Set	927.00		
03-04-00570	Gas welding Equipment to cut materials 1-150mm and weld materials 1-15mm, including Gas Tube Trolley for oxygen and acetylene cylinders, max load 150kg 2 Pressure Reducing Valves Gas Spanner for opening and regulating cylinders Burner Handle with non-return valve and quick release coupling Welding Heads for 160, 315, 500, 800, 1250, 1800, 2000 litres Cutter insert with wheel control valve Cutter insert with lever control valve Cutter tips for 10, 20, 50, 100, 150mm stock thickness 2 wheeled cutter stud Cleaning needles Twin Hose, 10m, int. dia 6mm Luna Code: 5604-0108	0	0	0		Set	530.00		
03-04-00571	Grease Gun, pneumatic, 500cm^3 capacity for cartridges or bulk grease. Luna Code: 5038-0104	0	0	0		Set	121.00		
03-04-00572	Fixed spout oil can, 0.175 litres Luna Code: 5816-0102	0	0	0		Set	5.00		
03-04-00573	Drum Pump, rotating hand pump for petrol etc. 30 litres/min for 200 litre drums, with 2m flexible outlet hose Luna Code: 6476-0101	0	0	0		Set	77.00		
03-04-00574	Bolt Cutter, length 760mm, max. cutting material 13mm Luna Code: 8420-0302	0	0	0		Set	123.00		

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00575	Oil Measuring cans 0.5 litre, 1.0 litre, 2.0 litre, 5.0 litre Luna Code: 5998	0	0	0		Set	22.00		
03-04-00576	Funnel, 2 no dia. 75mm and dia. 200mm Luna Code: 3335	0	0	0		Set	1.50		
03-04-00577	Protective Clothing Including: Welding Gloves, leather 10 pair. Welding Screen with 10 spare glasses 2 no. Welding Goggles, DIN 5A 2 no. Anti-mist protective goggles 5 no. Leather Work Gloves 10 pair	0	0	0		Set	100.00		
03-04-00578	Soldering Gun, 65W with cutting, flat and chisel bits Luna Code: 7306-0162	0	0	0		Set	38.00		
03-04-00579	Soldering Iron, 120W with angled bit Luna Code: 8274-0325	0	0	0		Set	40.00		
03-04-00580	Portable Electric Drill, 2 speed variable, 220V Chuck Capacity 1-13mm Spindle Speed up to 2100rpm Rating 500W Luna Code: 4088-0106	0	0	0		Set	243.00		
03-04-00581	Angle Grinder for 125mm dia discs Spindle Speed 1000rpm Rating 800W Luna Code: 4120-0106	0	0	0		Set	198.00		
03-04-00582	Angle Grinder for 230mm dia discs Spindle Speed 6000rpm Rating 2300W Luna Code: 4121-0204	0	0	0		Set	510.00		
03-04-00583	Ratchet Lever Puller Hoist, max load 15 tonnes, lifting height 1.5m Luna Code: 3792-1152	0	0	0		Set	286.00		
03-04-00584	Rapid Action Chain Block, max load 30tonnes, lift 3m Luna Code: 3786-0509	0	0	0		Set	500.00		
03-04-00585	Hydraulic Jacks: 4 tonne, lifting height 120mm 10 tonne, lifting height 140mm 30 tonne, lifting height 180mm	0	0	0		Set	266.00		
03-04-00586	Hydraulic and pneumatic trolley jack, 5 tonne Luna Code: 0999-0706	0	0	0		Set	810.00		
03-04-00587	Axel Stands, 10 tonnes , 5 tonnes Luna Code: 3826-0600 & 3826- 0501	0	0	0		Set	140.00		
03-04-00588	Wheel Barrow, 100 litre Luna Code: 6947-0300	0	0	0		Set	74.00		
03-04-00589	Unicef commodity code 491400 TOYOTA PICKUP Double cabin, 4 WD, long wheel base 2700 cc petrol engine, 5-speed floor shift, colour-white, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue	0	2	0	2	Set	11,018.33	22036.66	98/4276 CJX 98 0563

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00590	Unicef commodity code 491400 Toyota Land Cruiser 4WD Hard top, long wheel base, 4,500cc petrol engine, 13 seater, LHD, Model Code: FZJ75LV-MRU, color- white, with standard UN and export specifications for Iraq including air conditioner, front and rear seat belts and fire extinguisher	0	2	0	2	Set	12,420.97	24841.94	CJX 980563
03-04-00591	Tractor type: Massy Fergason with trailer	0	16	0	16	Set	25,449.00	407184	98/4251 CCX 98 2806
03-04-00592	Spare parts for Sanitary vehicles*	0	0	0		Set	500,000.00	0	
03-04-00593	UNICEF commodity code No. 491792 Hino water tanker truck Model code: FF3HJSA LHD Specification No. TL-FF013, 4*2 Forward control Body No. SS-LH-4989 All steel bonnet type safety cab, with full floating cab suspension, safety glass, colour- White-Engine: Hino H07 D, diesel, vertical 6 cylinder in line, overhead valve, water cooled, direct injection type. Maximum output: 141kW/(190HP) at 2900 rpm-Transmission 6-speed, direct drive, synchromesh 2nd-6th-Clutch: dry, single plate with damper springs, hydraulic control-Steering: Circulating ball- Wheel & Tire: 8-stud disc wheels (JIS type), 9.00-20-14PR-fuel tank:115 L-Tank volume: 8,578 Liters - Thickness of shell, end plate and buffer plate: 3.2 mm- Tank construction: Ellipse Section cylindrical tank with one compartment. Tank with a manhole hatch an air breather-pump: Centrifugal pump, 600l/min at 2500 rpm. Accessories: Suction and delivery hose 63.5mm*3m. 2 each hose packing (spare), 4 each strainer for hose and hose wrench. Material	0	1	0	1	Each	60,000.00	60000	CJX 980694
03-04-00594	Unicef commodity code 491800 Spare parts for tractor type: Valtra Valmet 700, 4*4, 320 DS diesel engine, 3 cylinders, turbocharged, water cooled, engine power 70 HP DIN/2200 rpm: Front tires	0	12	0	12	Each	175.00	2100	CCX 982806
03-04-00595	Same as item 119 but: Back [large] tires	0	12	0	12	Each	600.00	7200	
03-04-00596	Same as item 119 but: Fan belt	0	8	0	8	Each	15.00	120	
03-04-00597	Same item 119 but: Battery	0	4	0	4	Each	85.00	340	
03-04-00598	Same as item 119 but: Oil filter	0	100	0	100	Each	15.00	1500	
03-04-00599	Same as item 119 but: Fuel filter	0	100	0	100	Each	15.00	1500	
03-04-00600	Same as item 119 but: Fuel pump assembly	0	4	0	4	Each	150.00	600	
03-04-00601	Same as item 119 but: Engine Nozzle assembly	0	4	0	4	Each	150.00	600	
03-04-00602	Same as item 119 but: Complete washer set	0	4	0	4	Set	50.00	200	
03-04-00603	Same as item 119 but: Ring set piston	0	4	0	4	Set	120.00	480	
03-04-00604	Same as item 119 but: Big end bearing kit	0	4	0	4	Set	20.00	80	
03-04-00605	Tires for Wickman, 5 ton trailer	0	8	0	8	Each	150.00	1200	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00606	Unicef commodity code No. 513100 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 : 5.00 * 12- Front tyers : 6.00- 16- Max.speed : 21 km/h- Steering: Mechanical - Hopper Capacity: 0.5 c.m. heaped - Accidental Tipping Protection: Mechanical blocking system for the hopper lever: Nozzle assembly	0	3	0	3	Set	25.00	75	CCX 983394
03-04-00607	Same as item 120 but: Piston set	0	3	0	3	Set	200.00	600	
03-04-00608	Same as item 120 but: Ring set piston	0	3	0	3	Set	100.00	300	
03-04-00609	Same as item 120 but: Washer Set	0	3	0	3	Set	40.00	120	
03-04-00610	Same as item 120 but: Back tires	0	6	0	6	Each	100.00	600	
03-04-00611	Same as item 120 but: Front tires	0	6	0	6	Each	90.00	540	
03-04-00612	Diesel generator complete set with control panel board consisting of automatic main failure switch, change-over switch, voltmeter, ammeter, hour meter, phase selector switch, frequency meter, starting key, high temperature warning, low oil pressure warning, low fuel warning and with 12 V electric starting system with battery, battery charger and voltage regulator, and with fresh waterloop cooling system, heavy duty air filter, cartridge oil and fuel filter, speed governor, silencer, exhaust flexible piping and with fuel tank to run 8 hours continuously and suitable for continuous operation. Maximum output power 500 KVA, 400V, 3Ph and 50Hz. 50 deg C max; and 1,200 m max alt. The engine and alternator coupled by elastic joint and mounted on a common bed-frame with anti-vibration mountin and lifting eyes with complete tool-kit set. Supplies with O&M manual and spare parts catalogue in English. With spare parts for 2 years normal operation. Packed in wooden case suitable for sea and land transportation.	0	1	0	1	Set	68,000.00	68,000	
Sub-Total:							1,564,389.40		
Primary Shipping Cost (12%):							187,726.73		
Levy (3%):							46,931.68		
Grand-Total:							1,799,047.81		

PROJECT 3: URBAN AND SEMI-URBAN SANITATION EQUIPMENT

12. Other Materials

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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B) SULEIMANIYAH GOVERNORATE/URBAN AND SEMI-URBAN WATER SUPPLIES

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES

WATER TREATMENT AND TESTING

1. Water Treatment Chemicals

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
		Dhk	Erb	Sul					
03-04-00636	UNICEF Commodity Code: 356451 Calcium hypochlorite in powder form having minimum 65-70 % chlorine packed in 45 or 50 Kg plastic container/ drums of export quality.	0	0	30	30	Ton	1,740.00	52,200.00	98/4018 CCX 981802
03-04-00637	Chlorine gas (purity 99.7%) in one tonne cylinder (empty cylinders will be provided by the Iraqi government) including repairing of old chlorine cylinders before refilling.	0	0	60	60	Ton	425.00	25,500.00	97/4074 CCX 972881
03-04-00638	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.	0	0	20	20	Ton	470.00	9,400.00	97/4074 CCX 972881
03-04-00639	Aluminum sulphate 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.	0	0	15	15	Ton	177.00	2,655.00	98/4024 CCX 981814
03-04-00640	Slow dissolving chlorine tablets of each 200 gm for disinfecting water (used also for swimming pool), packed in 5 Kg plastic container (or any suitable size). Manufacturer name: CHLOR-CHEM LIMITED, Gorsey lane, Widnes, WA8 OHE, England Telephone: 051 495 1989 or 44 223 870 312. (or equivalent)	0	0	100	100	Pack	19.08	1,908.00	98/4024 CCX 981723
Sub-Total								91,663.00	
Primary Shipping Cost (15%)								13,749.45	
Levy (3%)								2,749.89	
Grand-Total								108,162.34	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES

WATER TREATMENT AND TESTING

2. Water Treatment Equipment

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00641	UNICEF Commodity Code: 439411 Chlorine solution dosing pump, KM 220-1, capacity 1/hr = 24, Back pressure = 10 Bar, Strokes (No Load) = 120, , 240 V, single phase, 50 Hz, 1,500 RPM. With O&M manuals and spare parts catalogue in Arabic/English. From PORTACEL LIMITED, Cannon Lane, Tonbridge, Kent, England. Tel: Tonbridge(0732)364411 Telex: 95467(Portac G)	0	0	30	30	Set	923.91	27,717.30	97/4126 CCX 983559
03-04-00642	UNICEF Commodity Code: 439411 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 HOSE/PIPE TO BE SUPPLIED SEPRATELY FOR EACH UNIT	0	0	0	0	Set	0.00	0.00	CCX974698 SCF 974255
03-04-00643	UNICEF Commodity Code: 439411 Same as item 2, capacity = 500 g/hr	0	0	0	0	Set	0.00	0.00	
03-04-00644	UNICEF Commodity Code: 439411 Same as item 2, capacity = 1,000 g/hr	0	0	0	0	Set	0.00	0.00	
03-04-00645	UNICEF Commodity Code: 439411 Same as item 2, floor mounted, capacity= 3,500 g/hr.	0	0	0	0	Set	0.00	0.00	
03-04-00646	UNICEF Commodity Code: 439411 Same as item 2, floor mounted, capacity = 2,000 g/hr	0	0	0	0	Set	0.00	0.00	
03-04-00647	UNICEF Commodity Code: 439400 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Valve Body - Part No.JPXN 83388	0	0	0	0	Each	0.00	0.00	CCX 971509
03-04-00648	UNICEF Commodity Code: 439411 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Valve Cover RPVC - Part No: JPNX 82822	0	0	0	0	Each	0.00	0.00	
03-04-00649	UNICEF Commodity Code: 439411 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Valve Seat RPVC - Part No: JPNX 82821	0	0	0	0	Each	0.00	0.00	
03-04-00650	UNICEF Commodity Code: 439411 Spare parts are for G20 Chlorine Dosing Pump serial No: X15593 form Wallace and Tiernan Ball, Pyrex - Part No. NPYA 150	0	0	0	0	0	0.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00651	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Diaphragm - Part No. 10-2257-401	0	0	0	0	Each	0.00	0.00	CCX 971509
03-04-00652	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Oil Gauge Window - Part No. 10.147	0	0	0	0	Each	0.00	0.00	
03-04-00653	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Double Ball Valve - Part No. 10.137-41	0	0	0	0	Each	0.00	0.00	
03-04-00654	UNICEF Commodity C: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Ball Cage - Part No. 10.786-41	0	0	0	0	Each	0.00	0.00	
03-04-00655	UNICEF Commodity Code: 439411 Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Ball - Par No. 10.139	0	0	0	0	Each	0.00	0.00	
03-04-00656	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Cover for discharge (Non-return) Valve	0	0	0	0	0	0.00	0.00	
03-04-00657	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Pressure Spring, Part No. 10.890	0	0	0	0	Each	0.00	0.00	
03-04-00658	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Adjusting Spindle, Part No 10.2081-4	0	0	0	0	Each	0.00	0.00	
03-04-00659	Spare parts are for KM 220-1 Chlorine Dosing Pump, Serial No: CO13977 from T.M. Products Cup Nut, Part No. 50.208	0	0	0	0	Each	0.00	0.00	
03-04-00660	Aluminum Sulphate 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 operation and O&M manual in English/ Arabic with parts catalogue.	0	0	0	0	Set	0.00	0.00	
03-04-00661	Vertical Multistage booster pump for chlorination purpose. Q=4 cum/hr, H=120 m with electrical drive motor and control panel, 380V, 50Hz, 3 phase with spare parts for two years of operation.	0	0	0	0	Set	0.00	0.00	
03-04-00662	Unicef commodity code: 367221 HDPE pipe, heavy duty for chlorination purpose, diameter 1 inch, with joints, (12-16)	0	0	100	100	M	0.52	52.00	98/4022 CCX 981409
03-04-00663	Unicef commodity code: 367221 HDPE pipe, heavy duty for chlorination purpose, diameter 3/4 inch, with joints, (12-16) bar	0	0	0	0	M.L	0.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00664	Base for mounting 65 Kg chlorine gas cylinders vertically with a (0-150) kg balance for monitoring of chlorine weight.	0	0	0	0	Each	0.00	0.00	
03-04-00665	Base for mounting 1 Ton chlorine gas cylinders vertically with a (0-2000) kg balance for monitoring of chlorine weight.	0	0	0	0	Each	0.00	0.00	
03-04-00666	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Valve Body, Part No: U82439	0	0	0	0	Each	0.00	0.00	
03-04-00667	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Stem (part of key 24), Part No: P85611	0	0	0	0	Each	0.00	0.00	
03-04-00668	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Flow meter assembly, 250mg/sec Part No: U82531	0	0	0	0	Each	0.00	0.00	
03-04-00669	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Flow meter assembly, 550mg/sec Part No: U82978	0	0	0	0	Each	0.00	0.00	
03-04-00670	Spare parts for V-notch Vacuum Chlorinators from Wallace & Tiernan Flow meter assembly, 1800mg/sec Part No: U91837	0	0	0	0	Each	0.00	0.00	
03-04-00671	Spare parts for powder chlorinator type G020-511M from Dosapro Milton Roy - Capacity : 22 liter/h , Head : 12 bar .As per attached ANNEX	0	0	1	1	Set	10,000.00	10,000.00	
03-04-00672	Valve Seat for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	0	0	0	Each	0.00	0.00	
03-04-00673	Valve Housing for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	0	0	0	Each	0.00	0.00	
03-04-00674	Ball for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	0	0	0	Each	0.00	0.00	
03-04-00675	Ball Seat for foot valve. See Instruction Manual, page I-4, Fig 1.4a, A.	0	500	0	500	Each	0.00	0.00	
03-04-00676	4-Function Valve. See Instruction Manual, page I-4, Fig 1.4a, B.	0	0	0	0	Each	0.00	0.00	
03-04-00677	Valve Housing for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	0	0	0	Each	0.00	0.00	
03-04-00678	Spring for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	0	0	0	Each	0.00	0.00	
03-04-00679	Ball for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	0	0	0	Each	0.00	0.00	
03-04-00680	Ball Seat for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	0	0	0	Each	0.00	0.00	
03-04-00681	Valve Body Seat for Injection Nozzel. See Instruction Manual, page I-4, Fig 1.4a, C.	0	0	0	0	Each	0.00	0.00	
03-04-00682	Stroke Adjustment Knob for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00683	O-Ring for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00684	Stroke Adjustment Screw for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00685	Crosshead for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00686	Male Eccentric Peice for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00687	Stroke Locking Device for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	30	0	30	Each	0.00	0.00	
03-04-00688	Half stop ring for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	2.00	0.00	
03-04-00689	Tangential Wheel for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00690	Stop Bearing for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00691	Cover Seal for Mechanical assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	1.50	0.00	
03-04-00692	Liquid End Mounting Assembly. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00693	Liquid End. See Instruction Manual, page I-1, Fig 1.2a	0	0	0	0	Each	0.00	0.00	
03-04-00694	Ball bearings for powder chlorinator, size SKF 6200	0	0	0	0	Each	0.00	0.00	
03-04-00695	Ball bearings for powder chlorinator, size SKF 6201	0	0	0	0	Each	0.00	0.00	
03-04-00696	Ball bearings for powder chlorinator, size SKF 6202	0	0	0	0	Each	0.00	0.00	
03-04-00697	Ball bearings for powder chlorinator, size SKF 6203	0	0	0	0	Each	0.00	0.00	
Sub-Total								37,769.30	
Primary Shipping Cost (15%)								5,665.40	
Levy (3%)								1,133.08	
Grand-Total								44,567.78	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES

WATER TREATMENT AND TESTING

3. Pipes and Specials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00698	UNICEF Commodity Code: 412713 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.	0	0	250	250	Each	14.77	3,692.50	CCX 98/4258
03-04-00699	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 3.0 inch	0	0	400	400	Each	14.77	5,908.00	
03-04-00700	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 4.0 inch	0	0	400	400	Each	24.44	9,776.00	
03-04-00701	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 6.0 inch	0	0	350	350	Each	34.74	12,159.00	
03-04-00702	Unicef Commodity code 432417 Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS21 (ISO R7), size 2.0 inch, PN 25. Food quality.	0	0	10	10	Each	13.34	133.40	982658
03-04-00703	Unicef Commodity code 432417 Same as item 2, size 3.0 inch, PN 25.	0	0	10	10	Each	15.91	159.10	
03-04-00704	Unicef Commodity code 432417 Same as item 2, 4.0 inch, PN 25.	0	0	20	20	Each	24.28	485.60	
03-04-00705	Unicef Commodity code 432417 Same as item 2, size 6.0 inch, PN 25.	0	0	10	10	Each	227.20	2,272.00	
03-04-00706	Unicef Commodity code 432417 Same as item2,size 2.0 inch,PN 25.	0	0	0	0	Each	7.72	0.00	
03-04-00707	Unicef Commodity code 4412832 Same as item2,size 1.5 inch,PN 25.	0	0	0	0	Each	5.35	0.00	
03-04-00708	Unicef Commodity code 412832 Same as item2,size 1.0 inch,PN 25.	0	0	0	0	Each	2.85	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00709	Unicef Commodity code 412832 Same as item2,size 0.75 inch,PN 25.	0	0	0	0	Each	2.15	0.00	
03-04-00710	Unicef Commodity code 432417 Brass non-return valve set, FxF, threaded to BS21 (ISO R7), PN 25, size 2.0 inch. Food quality.	0	0	0	0	Each	7.10	0.00	CCX982658
03-04-00711	Unicef Commodity code 432417 Same as item 3, size 3.0 inch, PN 25	0	0	0	0	Each	22.42	0.00	
03-04-00712	Unicef Commodity code 432417 Same as item 3, size 4.0 inch, PN 25.	0	0	0	0	Each	35.29	0.00	
03-04-00713	Unicef Commodity code 432417 Same as item 3, size 6.0 inch, PN 25.	0	0	0	0	Each	227.20	0.00	
03-04-00714	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.	0	0	0	0	Each	0.00	0.00	
03-04-00715	Unicef Commodity Code: 412837 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.	0	0	100	100	Each	1.01	101.00	
03-04-00716	Unicef Commodity Code: 412837 Same as item 4, size 3.0 inch, PN 25	0	0	100	100	Each	2.71	271.00	
03-04-00717	Unicef Commodity Code: 412837 Same as item 4, size 4.0 inch, PN 25	0	0	100	100	Each	4.91	491.00	
03-04-00718	Unicef Commodity Code: 412837 Same as item 4, size 6.0 inch, PN 25	0	0	20	20	Each	146.66	2,933.20	
03-04-00719	Unicef Commodity Code: 412837 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.	0	0	50	50	Each	1.27	63.50	
03-04-00720	Unicef Commodity Code: 412837 Same as item 5, size 3.0 inch, PN 25	0	0	60	60	Each	3.58	214.80	
03-04-00721	Unicef Commodity Code: 412837 Same as item 5, size 4.0 inch, PN 25	0	0	60	60	Each	6.46	387.60	
03-04-00722	Unicef Commodity Code: 412837 Same as item 5, size 6.0 inch, PN 25	0	0	20	20	Each	181.18	3,623.60	
03-04-00723	Unicef Commodity Code: 412837 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.	0	0	20	20	Each	1.96	39.20	
03-04-00724	Unicef Commodity Code: 412837 Same as item 6, size 3.0 inch, PN 25	0	0	20	20	Each	5.38	107.60	
03-04-00725	Unicef Commodity Code: 412837 Same as item 6, size 4.0 inch, PN 25	0	0	20	20	Each	10.22	204.40	
03-04-00726	Unicef Commodity Code: 412837 Same as item 6, size 6.0 inch, PN 25	0	0	10	10	Each	7.00	70.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00727	Unicef Commodity Code: 412837 Malleable cast iron, hot dip galvanized reducer joints for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), Fx F, size 6.0 x 4.0 inch, PN 25	0	0	10	10	Each	44.88	448.80	
03-04-00728	Unicef Commodity Code: 412837 Same as item 7, size 6.0 x 3.0 inch.	0	0	30	30	Each	55.11	1,653.30	
03-04-00729	Unicef Commodity Code: 412837 Same as item 7, size 6.0 x 2.0 inch.	0	0	20	20	Each	59.40	1,188.00	
03-04-00730	Unicef Commodity Code: 412837 Same as item 7, size 4.0 x 3.0 inch.	0	0	60	60	Each	3.93	235.80	
03-04-00731	Unicef Commodity Code: 412837 Same as item 7, size 4.0 x 2.0 inch	0	0	50	50	Each	3.93	196.50	
03-04-00732	Unicef Commodity Code: 412837 Same as item 7, size 3.0 x 2.0 inch	0	0	40	40	Each	2.13	85.20	
03-04-00733	Unicef Commodity Code: 412835 Viking Johnson coupling for 3 inch, PN 25, Standard length pipe	0	0	100	100	Each	21.20	2,120.00	
03-04-00734	Unicef Commodity Code: 412835 Same as item 8 but for 4 inch pipe.	0	0	100	100	Each	32.86	3,286.00	
03-04-00735	Unicef Commodity Code: 412835 Same as item 8 but for 6 inches pipe.	0	0	100	100	Each	21.00	2,100.00	
03-04-00736	V. J. Easi clamps for 3 inch, PN 25, Standard length pipe	0	0	50	50	Each	15.00	750.00	
03-04-00737	Same as item 9 but for 4 inches pipe.	0	0	30	30	Each	20.00	600.00	
03-04-00738	Same as item 9 but for 6 inch pipe.	0	0	30	30	Each	30.00	900.00	
03-04-00739	Same as item 9 but for 8 inch pipe.	0	0	30	30	Each	40.53	1,215.90	
03-04-00740	Same as item 9 but for 10 inch pipe.	0	0	30	30	Each	40.88	1,226.40	
03-04-00741	same as item 9 but for 12 inch pipe	0	0	30	30	Each	43.38	1,301.40	
03-04-00742	Unicef Commodity Code: 412834 Stainless steel repair clamps, quality A131304 with waffled rubber seal according to DIN 3535. Double section for 80 mm pipe. PN 25.	0	0	60	60	Each	40.53	2,431.80	
03-04-00743	Unicef Commodity Code: 412834 Same as item 10 but for 100mm pipe.	0	0	80	80	Each	40.88	3,270.40	
03-04-00744	Unicef Commodity Code: 412834 Same as item 10 but for 150mm pipe.	0	0	50	50	Each	43.38	2,169.00	
03-04-00745	Unicef Commodity Code: 412834 Same as item 10 but for 200mm pipe, PN 25.	0	0	50	50	Each	60.34	3,017.00	
03-04-00746	Unicef Commodity Code: 412834 Same as item 10 but for 250mm pipe, PN 25.	0	0	50	50	Each	87.00	4,350.00	
03-04-00747	Unicef Commodity Code: 412834 Same as item 10 but for 300mm pipe, PN 25.	0	0	50	50	Each	122.54	6,127.00	
03-04-00748	Unicef Commodity Code: 412712 Ductile iron pipe with rubber gasket joints (Tyton joints) with rubber gaskets, 6 metres nominal length, 3 inch diameter. PN 25	0	0	350	350	Each	50.66	17,731.00	98/4022 CCX 981903
03-04-00749	Unicef Commodity Code: 412712 Same as item 11 but 4 inch dia.	0	0	350	350	Each	55.00	19,250.00	
03-04-00750	Unicef Commodity Code: 412712 Same as item 11 but 6 inch dia.	0	0	250	250	Each	95.33	23,832.50	
03-04-00751	Unicef Commodity Code: 412712 Same as item 11 but 8 inch dia.	0	0	250	250	Each	117.73	29,432.50	
03-04-00752	Unicef Commodity Code: 412712 Same as item 11 but 10 inch dia.	0	0	200	200	Each	150.05	30,010.00	
03-04-00753	Unicef Commodity Code: 412712 Same as item 11 but 12 inch dia.	0	0	0	0	Each	202.27	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00754	Unicef Commodity Code: 412712 Same as item 11 but 16 inch dia.	0	0	0	0	Each	260.00	0.00	
03-04-00755	Unicef Commodity Code: 412712 Same as item 11 but 20 inch dia.	0	0	0	0	Each	330.00	0.00	
03-04-00756	Unicef Commodity Code: 412835 Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, 3 inch dia, PN 25.	0	0	50	50	Each	29.14	1,457.00	98/4022 CCX 98/2137
03-04-00757	Unicef Commodity Code: 412712 Same as item 12 but 4 inch dia.	0	0	50	50	Each	30.92	1,546.00	
03-04-00758	Unicef Commodity Code: 412712 Same as item 12 but 6 inch dia.	0	0	30	30	Each	40.76	1,222.80	
03-04-00759	Unicef Commodity Code: 412712 Same as item 12 but 8 inch dia.	0	0	30	30	Each	51.16	1,534.80	
03-04-00760	Unicef Commodity Code: 412712 Same as item 12 but 10 inch dia.	0	0	20	20	Each	164.08	3,281.60	
03-04-00761	Unicef Commodity Code: 412712 Same as item 12 but 12 inch dia.	0	0	0	0	Each	197.25	0.00	
03-04-00762	Unicef Commodity Code: 412835 Equal elbows for ductile pipes with rubber gasket joints, 45 degree, with rubber gaskets, FxF, 3 inch diam, PN 25.	0	0	40	40	Each	21.19	847.60	98/4022 CCX 98/2137
03-04-00763	Unicef Commodity Code: 412835 Same as item 13 but 4 inch diam	0	0	50	50	Each	22.89	1,144.50	
03-04-00764	Unicef Commodity Code: 412835 Same as item 13 but 6 inch diam	0	0	25	25	Each	35.29	882.25	
03-04-00765	Unicef Commodity Code: 412835 Same as item 13 but 8 inch diam	0	0	30	30	Each	58.62	1,758.60	
03-04-00766	Unicef Commodity Code: 412835 Same as item 13 but 10 inch diam	0	0	15	15	Each	154.55	2,318.25	
03-04-00767	Unicef Commodity Code: 412835 Same as item 13 but 12 inch diam	0	0	0	0	Each	171.70	0.00	
03-04-00768	Unicef Commodity Code: 412835 Same as item 13 but 20 inch diam	0	0	0	0	Each	250.00	0.00	98/4007 CCX 98/2126
03-04-00769	Unicef Commodity Code: 412835 Equal Tees for ductile pipes with rubber gasket joints, with rubber gaskets, FxFxF, 3 inch diam, PN 25.	0	0	30	30	Each	23.10	693.00	
03-04-00770	Unicef Commodity Code: 412835 Same as item 14 but 4 inch diam	0	0	30	30	Each	31.50	945.00	
03-04-00771	Unicef Commodity Code: 412835 Same as item 14 but 6 inch diam	0	0	20	20	Each	50.40	1,008.00	
03-04-00772	Unicef Commodity Code: 412835 Same as item 14 but 8 inch diam	0	0	20	20	Each	79.80	1,596.00	
03-04-00773	Unicef Commodity Code: 412835 Same as item 14 but 10 inch diam	0	0	10	10	Each	128.10	1,281.00	
03-04-00774	Unicef Commodity Code: 412835 Same as item 14 but 12 inch diam	0	0	0	0	Each	80.00	0.00	
03-04-00775	Unicef Commodity Code: 412835 Same as item 14 but 20 inch diam	0	0	0	0	Each	120.00	0.00	
03-04-00776	Unicef Commodity Code: 412835 Ductile Tee Socket with rubber, 3x3 inch dia, PN 25.	0	0	25	25	Each	26.29	657.25	98/4022 CCX 98 2137
03-04-00777	Unicef Commodity Code: 412835 Same as item 15 but 4x4 inch dia	0	0	25	25	Each	31.34	783.50	
03-04-00778	Unicef Commodity Code: 412835 Same as item 15 but 4x3 inch dia	0	0	25	25	Each	47.48	1,187.00	
03-04-00779	Unicef Commodity Code: 412835 Same as item 15 but 6x4 inch dia	0	0	20	20	Each	39.97	799.40	
03-04-00780	Unicef Commodity Code: 412835 Same as item 15 but 6x3 inch dia	0	0	20	20	Each	38.98	779.60	
03-04-00781	Unicef Commodity Code: 412835 Same as item 15 but 6x6 inch dia	0	0	15	15	Each	47.48	712.20	
03-04-00782	Unicef Commodity Code: 412835 Same as item 15 but 8x8 inch dia	0	0	15	15	Each	73.89	1,108.35	
03-04-00783	Unicef Commodity Code: 412835 Same as item 15 but 8x6 inch dia	0	0	15	15	Each	51.66	774.90	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00784	Unicef Commodity Code: 412835 Same as item 15 but 8x4 inch dia	0	0	15	15	Each	47.37	710.55	
03-04-00785	Unicef Commodity Code: 412835 Same as item 15 but 8x3 inch dia	0	0	15	15	Each	46.55	698.25	
03-04-00786	Unicef Commodity Code: 412835 Same as item 15 but 10x4 inch dia	0	0	15	15	Each	200.00	3,000.00	
03-04-00787	Unicef Commodity Code: 412835 Same as item 15 but 10x6 inch dia	0	0	15	15	Each	300.00	4,500.00	
03-04-00788	Unicef Commodity Code: 412835 Same as item 15 but 12x12 inch dia	0	0	15	15	Each	400.21	6,003.15	98/4022 CCX 98 2137
03-04-00789	Unicef Commodity Code: 412835 Same as item 15 but 10x10 inch dia	0	0	10	10	Each	347.08	3,470.80	
03-04-00790	Unicef Commodity Code: 412835 Same as item 15 but 20x20 inch dia	0	0	0	0	Each	500.00	0.00	
03-04-00791	Same as item 15 but 10 x 8 inch dia	0	0	10	10	Each	350.00	3,500.00	
03-04-00792	Same as item 15 but 12 x 8 inch dia	0	0	10	10	Each		0.00	
03-04-00793	Same as item 15 but 12 x 6 inch dia	0	0	10	10	Each		0.00	
03-04-00794	Same as item 15 but 12 x 4 inch dia	0	0		0	Each		0.00	
03-04-00795	Unicef Commodity Code: 412835 Parallel reducers for ductile pipes with rubber gasket joints, with rubber gaskets, FxF, 20x20 inch dia, PN 25.	0	0	0	0	Each	200.00	0.00	CCX 972291
03-04-00796	Unicef Commodity Code: 412835 Same as item 16 but 16 x 16 inch dia	0	0	0	0	Each	100.00	0.00	CCX 972291
03-04-00797	Unicef Commodity Code: 412835 Same as item 16 but 12 x 10 inch dia	0	0	0	0	Each	67.20	0.00	CCX 972291
03-04-00798	Unicef Commodity Code: 412835 Same as item 16 but 12 x 8 inch dia	0	0	10	10	Each	71.40	714.00	CCX 972291
03-04-00799	Unicef Commodity Code: 412835 Same as item 16 but 12 x 6 inch dia	0	0	10	10	Each	73.50	735.00	CCX 972291
03-04-00800	Unicef Commodity Code: 412835 Same as item 16 but 12 x 4 inch dia	0	0	10	10	Each	120.12	1,201.20	CCX 972291
03-04-00801	Unicef Commodity Code: 412835 Same as item 16 but 10 x 8 inch dia	0	0	10	10	Each	50.40	504.00	CCX 972291
03-04-00802	Unicef Commodity Code: 412835 Same as item 16 but 10 x 6 inch dia	0	0	10	10	Each	52.50	525.00	CCX 972291
03-04-00803	Unicef Commodity Code: 412835 Same as item 16 but 10 x 4 inch dia	0	0	10	10	Each	85.47	854.70	CCX 972291
03-04-00804	Unicef Commodity Code: 412835 Same as item 16 but 8 x 6 inch dia	0	0	20	20	Each	35.70	714.00	CCX 972290
03-04-00805	Unicef Commodity Code: 412835 Same as item 16 but 8 x 4 inch dia	0	0	20	20	Each	37.80	756.00	CCX 972290
03-04-00806	Unicef Commodity Code: 412835 Same as item 16 but 8 x 3 inch dia	0	0	20	20	Each	57.74	1,154.80	CCX 972290
03-04-00807	Unicef Commodity Code: 412835 Same as item 16 but 6 x 4 inch dia	0	0	20	20	Each	25.20	504.00	CCX 972290
03-04-00808	Unicef Commodity Code: 412835 Same as item 16 but 6 x 3 inch dia	0	0	20	20	Each	27.30	546.00	CCX 972290
03-04-00809	Unicef Commodity Code: 412835 Same as item 16 but 4 x 3 inch dia	0	0	20	20	Each	14.70	294.00	CCX 972290
03-04-00810	Unicef Commodity Code: 412835 Equal sockets for ductile pipes with rubber gasket joints, FxF, 4 inch dia, PN 25.	0	0	20	20	Each	67.68	1,353.60	98/4007 CCX 98 2126

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00811	Unicef Commodity Code: 412835 Same as item 17 but 6 inch dia	0	0	30	30	Each	108.12	3,243.60	
03-04-00812	Unicef Commodity Code: 412835 Same as item 17 but 8 inch dia	0	0	30	30	Each	138.45	4,153.50	
03-04-00813	Unicef Commodity Code: 412835 Same as item 17 but 10 inch dia	0	0	15	15	Each	160.00	2,400.00	
03-04-00814	Unicef Commodity Code: 412835 Same as item 17 but 12 inch dia	0	0	0	0	Each	200.00	0.00	
03-04-00815	Unicef Commodity Code: 412835 Same as item 17 but 20 inch dia	0	0	0	0	Each	320.00	0.00	
03-04-00816	Same as item 17 but 16 inch dia.	0	0	0	0	Each	260.00	0.00	
03-04-00817	Unicef Commodity Code: 412835 Standard socket & spigot joints for ductile pipes with rubber gasket joints, with rubber gaskets, FxM, 3 inch dia, PN 25.	0	0	40	40	Each	27.71	1,108.40	98/4022 CCX 98 2137
03-04-00818	Unicef Commodity Code: 412835 Same as item 18 but 4 inch dia	0	0	40	40	Each	32.93	1,317.20	
03-04-00819	Unicef Commodity Code: 412835 Same as item 18 but 6 inch dia	0	0	30	30	Each	45.83	1,374.90	
03-04-00820	Unicef Commodity Code: 412835 Same as item 18 but 8 inch dia	0	0	30	30	Each	60.43	1,812.90	
03-04-00821	Unicef Commodity Code: 412835 Same as item 18 but 10 inch dia	0	0	20	20	Each	121.19	2,423.80	
03-04-00822	Unicef Commodity Code: 412835 Same as item 18 but 12 inch dia	0	0	0	0	Each	174.33	0.00	
03-04-00823	Unicef Commodity Code: 412835 Same as item 18 but 18 inch dia	0	0	0	0	Each	220.00	0.00	
03-04-00824	Unicef Commodity Code: 412835 Same as item 18 but 20 inch dia	0	0	0	0	Each	220.00	0.00	
03-04-00825	Unicef Commodity Code: 412835 Same as item 18 but 24 inch dia	0	0	0	0	Each	250.00	0.00	
03-04-00826	Ductile Iron Adaptors from socket unit rubber joint to , PN 25 flanged end, 3 inch dia	0	0	0	0	Each	10.00	0.00	
03-04-00827	Same as item 19, 4 inch dia	0	0	0	0	Each	12.00	0.00	
03-04-00828	Same as item 19, 6 inch dia	0	0	0	0	Each	24.00	0.00	
03-04-00829	Same as item 19, 8 inch dia	0	0	0	0	Each	39.00	0.00	
03-04-00830	Same as item 19, 10 inch dia	0	0	0	0	Each	54.00	0.00	
03-04-00831	Same as item 19, 12 inch dia	0	0	0	0	Each	80.00	0.00	
03-04-00832	Same as item 19, 14 inch dia	0	0	0	0	Each	100.00	0.00	
03-04-00833	Same as item 19, 16 inch dia	0	0	0	0	Each	120.00	0.00	
03-04-00834	Same as item 19, 18 inch dia	0	0	0	0	Each	140.00	0.00	
03-04-00835	Same as item 19, 20 inch dia	0	0	0	0	Each	160.00	0.00	
03-04-00836	Same as item 19, 24 inch dia	0	0	0	0	Each	200.00	0.00	
03-04-00837	Unicef Commodity Code: 412835 Bolted flanged spigot joint for ductile pipes, with bolts, nuts & gaskets, 3 inch dia, PN 25, ISO flanges	0	0	100	100	Each	23.36	2,336.00	
03-04-00838	Unicef Commodity Code: 412835 Same as item 20 but 4 inch dia	0	0	100	100	Each	25.92	2,592.00	98/4007 CCX 98 2126
03-04-00839	Unicef Commodity Code: 412835 Same as item 20 but 6 inch dia	0	0	50	50	Each	37.01	1,850.50	
03-04-00840	Unicef Commodity Code: 412835 Same as item 20 but 8 inch dia	0	0	60	60	Each	64.13	3,847.80	
03-04-00841	Unicef Commodity Code: 412835 Same as item 20 but 10 inch dia	0	0	40	40	Each	100.00	4,000.00	
03-04-00842	Unicef Commodity Code: 412835 Same as item 20 but 12 inch dia	0	0	0	0	Each	140.00	0.00	
03-04-00843	Unicef Commodity Code: 412835 Same as item 20 but 14 inch dia	0	0	0	0	Each	170.00	0.00	
03-04-00844	Unicef Commodity Code: 412835 Same as item 20 but 16 inch dia	0	0	0	0	Each	190.00	0.00	
03-04-00845	Unicef Commodity Code: 412835 Same as item 20 but 18 inch dia	0	0	0	0	Each	200.00	0.00	
03-04-00846	Unicef Commodity Code: 412835 Same as item 20 but 20 inch dia	0	0	0	0	Each	250.00	0.00	
03-04-00847	Unicef Commodity Code: 412835 Same as item 20 but 24 inch dia	0	0	0	0	Each	320.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00848	Unicef commodity Code 412835 Flanged gate valves for ductile pipes with bolts,nuts & gasgets,3 inches diam,PN 25,ISO flanges	0	0	50	50	Each	180.48	9,024.00	98/4022 CCX 98 2092
03-04-00849	Unicef commodity Code 412835 Flanged gate valves for ductile pipes with bolts,nuts & gasgets,4 inches diam,PN 25,ISO flanges	0	0	80	80	Each	188.77	15,101.60	
03-04-00850	Unicef Commodity Code: 412835 Same as item 21 but 6 inch dia	0	0	50	50	Each	296.85	14,842.50	
03-04-00851	Unicef Commodity Code: 412835 Same as item 21 but 8 inch dia	0	0	50	50	15	711.98	35,599.00	
03-04-00852	Unicef Commodity Code: 412835 Same as item 21 but 10 inch dia	0	0	10	10	Each	759.06	7,590.60	
03-04-00853	Unicef Commodity Code: 412835 Same as item 21 but 12 inch dia	0	0	0	0	Each	956.24	0.00	
03-04-00854	Unicef Commodity Code: 412835 Same as item 21 but 14 inch dia	0	0	0	0	Each	1,200.00	0.00	
03-04-00855	Unicef Commodity Code: 412835 Same as item 21 but 16 inch dia	0	0	0	0	Each	1,400.00	0.00	
03-04-00856	Unicef Commodity Code: 412835 Same as item 21 but 18 inch dia	0	0	0	0	Each	1,650.00	0.00	
03-04-00857	Unicef Commodity Code: 412835 Same as item 21 but 20 inch dia	0	0	0	0	Each	1,900.00	0.00	
03-04-00858	Unicef Commodity Code: 412835 Same as item 21 but 24 inch dia	0	0	0	0	Each	2,300.00	0.00	
03-04-00859	Unicef Commodity Code: 432417 Flanged non-returned valve for ductile pipes with bolts , nuts and gasgates PN 25 ISO flanges for 3 inch dia	0	0	30	30	Each	79.90	2,397.00	98/4022 CCX 98 2110
03-04-00860	Unicef Commodity Code: 432417 Same as item 22 but 4 inch dia	0	0	60	60	Each	87.80	5,268.00	
03-04-00861	Unicef Commodity Code: 432417 Same as item 22 but 6 inch dia	0	0	40	40	Each	176.00	7,040.00	
03-04-00862	Unicef Commodity Code: 432417 Same as item 22 but 8 inch dia	0	0	30	30	Each	407.50	12,225.00	
03-04-00863	Unicef Commodity Code: 432417 Same as item 22 but 10 inch dia	0	0	10	10	Each	695.00	6,950.00	
03-04-00864	Unicef Commodity Code: 432417 Same as item 22 but 12 inch dia	0	0	0	0	Each	1,089.00	0.00	
03-04-00865	Unicef Commodity Code : 432417 Same as item 22 but 14 inch	0	0	0	0	Each	1,120.00	0.00	
03-04-00866	Unicef Commodity Code : 432417 Same as item 22 but 16 inch	0	0	0	0	Each	1,200.00	0.00	
03-04-00867	Unicef Commodity Code : 432417 Same as item 22 but 20 inch	0	0	0	0	Each	1,500.00	0.00	
03-04-00868	Unicef Commodity Code: 432417 Flanged air valves for dutile pipes with bolts, nuts & gaskets, 4 inch dia, PN 25, ISO flanges	0	0	10	10	Each	218.00	2,180.00	98/4007 CCX 98 2093
03-04-00869	Unicef Commodity Code: 432417 Same as item 23, 6 inch dia	0	0	10	10	Each	325.00	3,250.00	
03-04-00870	Unicef Commodity Code: 432417 Flanged foot valves with strainers 4 inch dia	0	0	25	25	Each	72.37	1,809.25	98/4022 CCX 98 2112
03-04-00871	Unicef Commodity Code: 432417 Same as item 24 but 6 inch dia	0	0	30	30	Each	133.70	4,011.00	
03-04-00872	Unicef Commodity Code: 432417 Same as item 24 but 8 inch dia	0	0	25	25	Each	184.53	4,613.25	
03-04-00873	Unicef Commodity Code: 432417 Same as item 24 but 10 inch dia	0	0	10	10	Each	238.67	2,386.70	
03-04-00874	Unicef Commodity Code: 432417 Same as item 24 but 12 inch dia	0	0	5	5	Each	325.95	1,629.75	
03-04-00875	Unicef Commodity Code: 432417 Same as item 24 but 14 inch dia	0	0	0	0	Each	340.00	0.00	
03-04-00876	Unicef Commodity Code: 432417 Same as item 24 but 16 inch dia	0	0	0	0	Each	350.00	0.00	
03-04-00877	Unicef Commodity Code: 432417 Same as item 24 but 20 inch dia	0	0	0	0	Each	400.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00878	Unicef Commodity Code: 413835 Surface box for roadways	0	0	0	0	Each	7.13	0.00	98/4022 CCX 98 2137
03-04-00879	Unicef Commodity Code: 413835 Flanged end cup for 3 inch dia ductile pipes	0	0	50	50	Each	10.98	549.00	98/4022 CCX 98 2137
03-04-00880	Unicef Commodity Code: 413835 Same as item 26 but for 4 inch dia ductile pipes.	0	0	50	50	Each	16.82	841.00	
03-04-00881	Unicef Commodity Code: 413835 Same as item 26 but 6 inch dia ductile pipes.	0	0	50	50	Each	117.42	5,871.00	
03-04-00882	Unicef Commodity Code: 413835 Same as item 26 but 8 inch dia ductile pipes.	0	0	50	50	Each	124.10	6,205.00	
03-04-00883	Unicef Commodity Code: 413835 Same as item 26 but 75 mm dia ductile pipes.	0	0	50	50	Each	8.00	400.00	
03-04-00884	Mild steel GS riser pipes 3 inch dia, 3 m long	0	0	500	500	Each	14.00	7,000.00	
03-04-00885	Same as item 27 but 4 inch dia	0	0	300	300	Each	18.00	5,400.00	
03-04-00886	Same as item 27 but 2.5 inch dia	0	0	0	0	Each	11.00	0.00	
03-04-00887	Same as item 27 but 2.0 inch dia	0	0	0	0	Each	10.00	0.00	
03-04-00888	Same as item 27 but 6.0 inch dia	0	0	0	0	Each	21.00	0.00	
03-04-00889	UNICEF Commodity Code: 432512 Casing pipe, mild steel, commercial grade st-37 as per DIN 17100, food grade, for lining of water borehole One end male threaded, heavy duty female socket on the other end , To be produced according to DIN 4922 in lengths of 6 m, outer diameter 8 5/8 inch.	0	0	400	400	Each	181.57	72,628.00	98/4038 CCX 983912
03-04-00890	UNICEF Commodity Code: 432512 As in item 1 but pipe with slots of 2.3 mm width, length of 6 m, outer diameter 8 5/8 inch	0	0	100	100	Each	199.51	19,951.00	
03-04-00891	Pressure reduced valve 25 bar to 3 bar , dia.4"	0	0	0	0	Each	180.00	0.00	
03-04-00892	as item 30 but dia. 3"	0	0	0	0	Each	150.00	0.00	
Sub-Total:								549,301.90	
Primary Shipping Cost (15%):								82,395.28	
Levy (3%):								16,479.06	
Grand-Total:								648,176.24	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES
WATER TREATMENT AND TESTING

4. Other Materials

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00893	Unicef Commodity Code: 369737 Gas masks/breathing apparatus for protection from chlorine gas used in water treatment facilities	0	0	25	25	Each	60.69	1,517.25	98/4051 CCX 98 2230
03-04-00894	Battery, 12V x 11P x 60 amp-hour, for Toyota pick-up	0	0	0	0	Each	26.25	0.00	98/4035 CCX 98 2077
03-04-00895	Battery, 12V x 19P x 135 amp- hour, for Garbage collectors and sewage tankers (HINO, KB 422)	0	0	0	0	Each	71.00	0.00	98/4035 CCX 98 2077
03-04-00896	Battery, 12V x 13P x 90 amp-hour, for Land cruiser and Nissan patrol	0	0	0	0	Each	82.63	0.00	98/4029 CCX 98 2081

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00897	Tyre with internal tube, size 750x16 for fork lifter	0	0	0	0	Set	35.87	0.00	98/4029 CJX 98 0416
03-04-00898	Tyre with internal tube, size 1200x24	0	0	0	0	Set	208.67	0.00	98/4054 CJX 98 0415
03-04-00899	Tyre with internal tube, size 1100x20	0	0	0	0	Set	166.54	0.00	98/4035 CJX 98 0418
03-04-00900	Tyre with internal tube, size 1000x20	0	0	0	0	Set	166.55	0.00	98/4252 CJX 98 0553
03-04-00901	Tyre with internal tube for fork lift type Komatso, capacity 3 ton, Size 6.00x 9	0	0	0	0	Set	29.17	0.00	98/4029 CJX 98 0416
03-04-00902	Ordinary Portland cement packed in 5-ply 50 kg paper bags (equivalent to BS12).	0	0	750	750	Ton	60.00	45,000.00	
03-04-00903	Concrete blocks size (20x20x40)cm	0	0	0	0	Each	0.20	0.00	
03-04-00904	Unicef Commodity Code: 412460 Mild steel reinforcing bars of size 10 mm diameter and 6 m length (random), twisted and commercial grade, ultimate strength 4250-5350 kg/cm2, yield strength 2320-2450 kg/cm2 and average weight per meter 617 gm.	0	0	25	25	Ton	265.00	6,625.00	98/4006 CCX 98 1731
03-04-00905	Same as item 12, size 12mm	0	0	25	25	Ton	265.00	6,625.00	
03-04-00906	Hino water tanker truck Model code: FF3HJSA LHD Specification No. TL-FF013, 4*2 Forward control Body No. SS-LH-4989 All steel bonnet type safety cab, with full floating cab suspension, safety glass, colour-White-Engine: Hino H07 D, diesel, vertical 6 cylinder in line, overhead valve, water cooled , direct injection type. Maximum output: 141kW/(190HP) at 2900 rpm-Transmission 6-speed, direct drive, syncromesh 2nd-6th-Clutch: dry, single plate with damper springs, hydraulic control- Steering: Circulating ball- Wheel & Tire: 8-stud disc wheels (JIS type), 9.00-20-14PR-fuel tank:115 L-Tank volume: 8,578 Liters - Thickness of shell, end plate and buffer plate: 3.2 mm- Tank const: Ellipse Section cylindrical tank with one compartment. Tank with a manhole hatch an air breather-pump: Centrifugal pump, 600l/min at 2500 rpm. Accessories: Suction and delivery hose 63.5mm*3m. 2 each hose packing (spare), 4 each strainer for hose and hose wrench. Material Thickness: 3.2mm for shell, end plate, and buffer plate	0	0	0	0	Each	112,430.00	0.00	98/4006 CCX 98 2055
03-04-00907	Vehicle, pick up double cabin type TOYOTA, made as per Saudi Arabia standards, Containing air conditioning system with radio and tape recorder.	0	0	0	0	Each	11,018.33	0.00	98/4276 CJX 98 0562
03-04-00908	Same as item 14, Single Cabin	0	0	0	0	Each	10,000.00	0.00	
03-04-00909	Unicef Commodity Code: 452150 Computer, Lap-top, 18 mm thickpad 280XD, model 2635-7AO, pentium 233 MHz, 3.2 Gb hard disk, 32Mb RAM, 3.5" floppy and 24X CD drives.	0	0	0	0	Each	2,187.00	0.00	98/4278 NCX 98 0817
03-04-00910	Laser jet printer, HP 6P	0	0	2	2	Each	810.00	1,620.00	98/4279 NCX 98 0818

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00911	Desk-top computer: HP Vectra VE P11/333, 333MHz Intel pentium II, 3.2 Gb Hard Disk, 32Mb RAM, 3.5" diskette, 16 BIT audio card, 32X CD ROM, external speakers, preloaded with English + Arabic Win95 and MS Office 7.0	0	0	2	2	Each	2,500.00	5,000.00	98/4279 NCX 98 0818
03-04-00912	UNICEF Commodity Code: 451324 Photocopier, NP 6050 CANON NP 6062 with 10 Toner cartridges, 20 Bin Staple Sorter, Staples, Copy Drum, Spares for two years operations and English manual for Parts/Service/operation	0	0	2	2	Each	15,215.00	30,430.00	97/6011 CCX 97 2135
03-04-00913	Truck, 2 tonne capacity	0	0	0	0	Each	40,000.00	0.00	
03-04-00914	Unicef Commodity Code: 429200 Sewer rods made of flexible alloy for sewerage networks, size 8mm diameter and 2 metre long with standard jointing system.	0	0	0	0	Set	12.34	0.00	98/4051 CCX 98 3091
03-04-00915	Unicef Commodity Code 449600 Hand pallate truck Model HPS 20	0	0	2	2	Set	367.13	734.26	Commodity No 449600 CCX980497
03-04-00916	Potable Hydraulic crane max. capacity 1.5 Tones.	0	0	1	1	Set	1,000.00	1,000.00	
03-04-00917	Unicef Commodity Code 613460 Chain sling double leg mechanically coupled chain slingsdia 10 mm ally complete set ,max. capacity 4250 Kg.	0	0	6	6	Set	159.32	955.92	Commodity code 613460, CCX982222
03-04-00918	Paper photo coping writer A4 size (210x297)mm ,(43-256.08)	0	0	100	100	Ream	4.00	400.00	
03-04-00919	Paper photo coping writer A3 size (210x297)mm ,(43-256.08)	0	0	100	100	Ream	4.00	400.00	
03-04-00920	Work sweter for chlore protection	0	0	50	50	Back	35.00	1,750.00	
03-04-00921	Work sweter for working W/H .	0	0	50	50	Back	35.00	1,750.00	
Sub-Total:								103,807.43	
Primary Shipping Cost (15%):								15,571.11	
Levy (3%):								3,114.22	
Grand-Total:								122,492.76	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES

PUMPS AND ASSOCIATED EQUIPMENT

5. Submersible Pumps and Specials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
033-04-00922	Unicef Commodity Code: 432287 Submersible pump with direct coupled electrical motor and with non-return valve, control panel, 150 m three core cable and cable termination kit. Q = 10 cum/hr (min), head = 210 m, and preferably GrundFos (SP 16-24), 400 V, 50 Hz, 3 Ph for 6.0 inches cased borewell. TO BE INSTALLED ON NEW BOREWELLS. ALL CABLES TO BE PACKED SEPRATELY WITH EACH PUMP.	0	0	1	1	Set	4,288.00	4,288.00	Commodity code 432287, CCX 981456
033-04-00923	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=135M (max), (SP 27-14).	0	0	1	1	Set	4,034.00	4,034.00	Commodity code 432287, CCX 981456
033-04-00924	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=185M (max), (SP 27-19).	0	0	1	1	Set	5,000.00	5,000.00	Commodity code 432287, CCX 981456
033-04-00925	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=270 M (max), (SP 27-24).	0	0	1	1	Set	7,438.00	7,438.00	Commodity code 432287, CCX 981456
033-04-00926	Unicef Commodity Code: 432287 Same as item No.1, Q=2 cum/hr (min), head=115 M (max), (SP 8A-21).	0	0	1	1	Set	4,287.29	4,287.29	Commodity code 432287, CCX 981456
033-04-00927	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=120M (max), (SP 45-12).	0	0	1	1	Set	6,568.00	6,568.00	Commodity code 432287, CCX 981461
033-04-00928	Unicef Commodity Code: 432287 Same as item No.1, Q=16 cum/hr (min), head=280 M (max), (SP 25-30).	0	0	0	0	Set	4,500.00	0.00	98/4020 CCX 98 2662
033-04-00929	Unicef Commodity Code: 432287 Same as item No.1, Q=50 cum/hr (min), head=135 M (max), (SP 77-10).	0	0	0	0	Set	7,772.00	0.00	
033-04-00930	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=270M (max), (SP 27-24).	0	0	0	0	Set	5,960.00	0.00	
033-04-00931	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=210M (max), (SP 46-15).	0	0	0	0	Set	6,568.00	0.00	
033-04-00932	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=310M (max), (SP 46-23).	0	0	0	0	Set	7,438.00	0.00	
033-04-00933	Unicef Commodity Code: 432287 Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH.Capacity 5.5 KW	0	0	0	0	Set	1,200.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
033-04-00934	Unicef Commodity Code: 432287 Same as item 12 but capacity 11 KW for SP 27-11	0	0	0	0	Set	1,887.00	0.00	98/4016 CCX 98 1828
033-04-00935	Unicef Commodity Code: 432287 Same as item 12 but capacity 11.0KW for SP 27-14	0	0	2	2	Set	1,887.00	3,774.00	
033-04-00936	Unicef Commodity Code: 432287 Same as item 12 but capacity 15.0KW for SP 25-15	0	0	2	2	Set	2,183.00	4,366.00	98/4020 CCX 98 1341
033-04-00937	Unicef Commodity Code: 432287 Same as item 12 but capacity 18.5KW for SP 46-15	0	0	0	0	Set	2,334.00	0.00	
033-04-00938	Unicef Commodity Code: 432287 Same as item 12 but capacity 22.0KW for SP 27-28	0	0	2	2	Set	8,304.00	16,608.00	
033-04-00939	Unicef Commodity Code: 432287 Same as item 12 but capacity 30.0KW for SP 45-21	0	0	2	2	Set	3,678.00	7,356.00	
033-04-00940	Unicef Commodity Code: 432287 Same as item 12 but capacity 37.0KW for SP 45-31	0	0	2	2	Set	4,124.00	8,248.00	
033-04-00941	Unicef Commodity Code: 432287 Same as item 12 but capacity 18.5KW for SP 46-11	0	0	0	0	Set	2,100.00	0.00	98/4020 CCX 98 1304
033-04-00942	Unicef Commodity Code: 432287 Same as item 12 but capacity 22KW for SP27-24	0	0	2	2	Set	2,300.00	4,600.00	
033-04-00943	Unicef Commodity Code: 432287 Same as item 12 but capacity 30KW for SP46-18	0	0	0	0	Set	2,500.00	0.00	
033-04-00944	Unicef Commodity Code: 432287 Same as item 12 but capacity 37KW for SP 46-24	0	0	0	0	Set	2,800.00	0.00	
033-04-00945	Unicef Commodity Code: 462380 Flexible electrical power cable for deep well submersible motors size 3x16 mm2	0	0	0	0	M.L.	3.13	0.00	
033-04-00946	Unicef Commodity Code: 462380 Same as item 13 but size 3x10 mm 2	0	0	0	0	M.L.	2.17	0.00	
033-04-00947	Unicef Commodity Code: 462380 Same as item 13 but size 3x6 mm2	0	0	0	0	M.L.	1.24	0.00	98/4020 CCX 98 1425
033-04-00948	Unicef Commodity Code: 432287 Control panel for submersible 11.00 KW motor with main switch circuit breaker phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 Volt, 50 Hz, 3 PH, auto-transformer starter.	0	0	4	4	Set	1,371.00	5,484.00	
033-04-00949	Unicef Commodity Code: 432287 Same as item 14 but for 15.00 KW capacity motor	0	0	0	0	Set	1,415.00	0.00	
033-04-00950	Unicef Commodity Code: 432287 Same as item 14 but for 18.50 KW capacity motor	0	0	2	2	Set	1,457.00	2,914.00	
033-04-00951	Unicef Commodity Code: 432287 Same as item 14 but for 22.00 KW capacity motor	0	0	2	2	Set	1,527.00	3,054.00	98/4020 CCX 98 1463
033-04-00952	Unicef Commodity Code: 432287 Same as item 14 but for 30.00 KW capacity motor	0	0	2	2	Set	1,706.00	3,412.00	
033-04-00953	Unicef Commodity Code: 432287 Same as item 14 but for 37.00 KW capacity motor	0	0	2	2	Set	2,128.00	4,256.00	
033-04-00954	Unicef Commodity Code: 432287 Same as item 14 but for 75.00 KW capacity motor	0	0	2	2	Set	2,762.00	5,524.00	

	Description	Dhk	Erb	Sul	Total	Unit			
033-04-00955	Low-lift submersible drainage pump for raw water with direct coupled electrical motor 400V, 5HZ, 3 phase with complete control pannels and 30 meter 3 core cable Q=60 cubic meter/hour and Head=15 meter.	0	0	2	2	Set	3,000.00	6,000.00	
033-04-00956	Same as item 17 Q=200 Cubic meter/hour and Head= 30meter.	0	0	0	0	Set	4,000.00	0.00	
033-04-00957	Same as item 17 Q=300 Cubic meter/hour and Head= 20meter.	0	0	0	0	Set	6,000.00	0.00	
Sub-Total:								101,211.29	
Primary Shipping Cost (15%):								15,181.69	
Levy (3%):								3,036.34	
Grand-Total:								119,429.32	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

6. Vertical Turbine Pumps

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00958	UNICEF Commodity Code: 432254 Deepwell turbine pump complete with body(bowls and impellers), discharge coloumn(Coloum pipe elements and lineshaft), drivehead (electric motor), capacity Q=14cum/hr(min), head=160M (max), preferably BP27-16 type from Grundfos. Complete with bowl assembly, pump head and discharge flange with 3 inch BSP thread, electric motor 3x380/660V, 50Hz, (RPM 2900) 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 operatoin, O&M manual in English with appropriate packings.	0	0	0	0	Set	8,355.00	0.00	98/4015 CCX 98 2121
03-04-00959	Same as item (1), Q=22cum/hr (min), H=165m (max), (BP 45-16)	0	0	0	0	Set	8,394.71	0.00	Commodity 432253 , CCX 982722
03-04-00960	Same as item (1), Q=14cum/hr (min), H=95m (max), (BP 27-10)	0	0	0	0	Set	6,174.60	0.00	98/4015 CCX 98 2831
03-04-00961	Same as item (1), Q=22cum/hr (min), H=155m (max), (BP 45-12)	0	0	0	0	Set	8,395.00	0.00	
03-04-00962	Vertical motor complete set for Grundfos vertical turbine pumps, 380V, 50Hz, 2900 rpm, 3PH and capacity 15KW.	0	0	0	0	Each	452.41	0.00	98/4015 CCX 98 7171
03-04-00963	Same as item 2 but capacity 11KW	0	0	0	0	Each	550.00	0.00	
03-04-00964	Same as item 2 but capacity 22KW	0	0	0	0	Each	653.27	0.00	
03-04-00965	Same as item 2 but capacity 30KW	0	0	0	0	Each	954.77	0.00	
03-04-00966	Diesel engine for operating vertical turbine pump, capacity 45 HP, complete set with clutch, 50 degrees Celcius max; and 1,200m max	0	0	0	0	Set	6,282.30	0.00	98/4015 CCX 98 1515
03-04-00967	Right angle gear for Grundfos vertical turbine pump,type 2GS25/3GS26 for 20HP	0	0	0	0	Set	983.66	0.00	98/4015 CCX 98 1757
03-04-00968	Same as item 4 but type 2GS45/3GS46 for 40HP	0	0	0	0	Set	1,742.23	0.00	
03-04-00969	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	0	0	0	0	Each	11.78	0.00	98/4060 CCX 98 2847
03-04-00970	Same as item 5 but size 3 x 5/8 inch	0	0	0	0	Each	14.14	0.00	98/4015 CCX 98 1757
03-04-00971	Same as item 5 but size 3 x 3/4 inch	0	0	0	0	Each	13.97	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-00972	Same as item 5 but size 4 x 3/4 inch	0	0	0	0	Each	15.39	0.00	
03-04-00973	Same as item 5 but size 4 x 7/8 inch	0	0	0	0	Each	18.26	0.00	
03-04-00974	Same as item 5 but size 5 x 7/8 inch	0	0	0	0	Each	17.55	0.00	
03-04-00975	Sealing set for shaft seal for Grundfos vertical turbine pumps size 5/8 inch	0	0	0	0	Each	24.17	0.00	
03-04-00976	Same as item 6 but size 3/4 inch	0	0	0	0	Each	132.12	0.00	98/4015 CCX 98 1757
03-04-00977	Same as item 6 but size 7/8 inch	0	0	0	0	Each	128.36	0.00	
03-04-00978	Same as item 6 but size 1 inch	0	0	0	0	Each	48.52	0.00	
03-04-00979	Shaft coupling for Grundfos vertical turbine pumps size 5/8 inch	0	0	0	0	Each	22.91	0.00	
03-04-00980	Same as item 7 but size 3/4 inch	0	0	0	0	Each	22.38	0.00	98/4015 CCX 98 1757
03-04-00981	Same as item 7 but size 7/8 inch	0	0	0	0	Each	30.35	0.00	
03-04-00982	Driver for Grundfos vertical turbine pump type BP 16/27/45 size 3/4 inch	0	0	0	0	Each	23.45	0.00	
03-04-00983	Same as item 8 but size 5/8 inch	0	0	0	0	Each	23.45	0.00	
03-04-00984	Same as item 8 but size 7/8 inch	0	0	0	0	Each	30.35	0.00	98/4015 CCX 98 1757
03-04-00985	Pump discharge head, complete set consisting of pump head, gasket, bolt & nut, stay bolts, nuts, pipe plug for BP 27-15, BP 27-12 & BP 45-7, size 3.0 inch	0	0	0	0	Each	523.48	0.00	
03-04-00986	Same as item 9 but size 4.0 inch	0	0	0	0	Each	527.04	0.00	
03-04-00987	Line shaft with shaft with coupling for Grundfos vertical turbine pumps, size 5/8 inch x 1.8 m	0	0	0	0	Each	32.58	0.00	
03-04-00988	Same as item 10 but size 3/4 inch x 1.8 m	0	0	0	0	Each	45.83	0.00	98/4015 CCX 98 1757
03-04-00989	Same as item 10 but size 7/8 inch x 1.8 m	0	0	0	0	Each	68.93	0.00	
03-04-00990	Column pipes for Grundfos vertical turbine pumps, size 4.0 inch x 1.8 m	0	0	0	0	Each	98.46	0.00	
03-04-00991	Same as item 11 but size 5.0 inch x 1.8 m	0	0	0	0	Each	153.52	0.00	
03-04-00992	Impeller for Grundfos vertical turbine pumps, size 3 x 5/8 inch	0	0	0	0	Each	17.09	0.00	98/4015 CCX 98 1757
03-04-00993	Same as item 12 but size 3 x 3/4 inch	0	0	0	0	Each	15.80	0.00	
03-04-00994	Same as item 12 but size 4 x 3/4 inch	0	0	0	0	Each	15.80	0.00	
03-04-00995	Same as item 12 but size 4 x 7/8 inch	0	0	0	0	Each	15.80	0.00	
03-04-00996	Bottom column pipe complete with shaft, coupling and bearing with thread in bottom end, size 3 x 5/8 inch	0	0	0	0	Each	125.32	0.00	98/4015 CCX 98 1757
03-04-00997	same as item 13 but size 3 x 3/4 inch	0	0	0	0	Each	138.39	0.00	
03-04-00998	same as item 13 but size 4 x 3/4 inch	0	0	0	0	Each	159.70	0.00	
03-04-00999	same as item 13 but size 4 x 7/8 inch	0	0	0	0	Each	185.65	0.00	
03-04-01000	Bowl assembly for BP 27-15	0	0	0	0	Each	1,639.17	0.00	98/4015 CCX 98 1757
03-04-01001	same as item 14 but BP 45-12	0	0	0	0	Each	1,926.35	0.00	
03-04-01002	Top column pipe complete with shaft coupling, bearing and mechanical shaft seal, size 3 x 5/8 inch	0	0	0	0	Each	227.71	0.00	98/4015 CCX 98 1757
03-04-01003	Same as item 15 but size 3 x 3/4 inch	0	0	0	0	Each	285.55	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01004	Same as item 15 but size 4 x 3/4 inch	0	0	0	0	Each	228.61	0.00	
03-04-01005	Same as item 15 but size 4 x 7/8 inch	0	0	0	0	Each	353.32	0.00	
03-04-01006	Diesel engine for operating vertical turbine pump complete set with clutch, MWM D-3011; max altitude 1,200m.	0	0	0	0	Set	4,107.00	0.00	
03-04-01007	Same as item 16 but MWM D-3022	0	0	3	3	Set	5,022.00	15,066.00	
03-04-01008	Same as item 16 but MWM D-3033	0	0	3	3	Set	6,079.00	18,237.00	
03-04-01009	Same as item 16 but MWM D-3274	0	0	3	3	Set	10,004.00	30,012.00	
03-04-01010	Vertical electrical turbine pump type BK 550 -36 ,flow = 1800 m³/h, H=132 m., RPM =985, 770KW, efficiency =82.5 . Code No.: (2-410.0074) Order No. :(K-4-26170) YR: 1980 No. 1632943 HRH056R 06F2 D010 950KW 11,000V 64A 989 RPM Cassino 0.85 rotor 930V 631A year 1980*	0	0	1	1	Set	270,000.00	270,000.00	
03-04-01011	ELECTRIC MOTOR LEORY SOMER MOTOR,200V,3Phase,50HZ,2950 RPM,315KW,for pump size 6UZDI,working ton with pair of coupling ,made by Ingirsol-Dressor pumps	0	0	1	1	Set	17,245.00	17,245.00	
								350,560.00	
Primary Shipping Cost (15%):								52,584.00	
Levy (3%):								10,516.80	
Grand-Total:								413,660.80	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

7. Booster Pumps and Spare Parts

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01012	Centrifugal booster pump for pumping treated water. Q=680 cum/hr, H=200M. Directly coupled with electrical driven motor with soft starter and automatic circuit breaker connection and with control panel. 380V,50HZ,3phase,Max altitude 1,000 m, with spare parts /operation manual in english ,and necessary valves,non return valves,flanges elbows,reducers for new instalation. Cables to be packed separately with each set.	0	0	1	1	Set	70,000.00	70,000.00	
03-04-01013	Same as item 1 but Q= 340 Cubm./hr Head = 200m.	0	0	2	2	Set	25,.00	51,458.00	Commodity code 432272, CCX 980726
03-04-01014	Same as item 1 but Q= 200 Cubm./hr Head = 100m.	0	0	4	4	Set	10,500.00	42,000.00	Commodity code 432272, CCX 980726

* amended 4 August 99

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01015	Same as item 1 but Q= 60 Cubm./hr Head = 60m.	0	0	2	2	Set	5,561.50	11,123.00	
03-04-01016	Same as item 1 but Q= 50 Cubm./hr Head = 80m.	0	0	1	1	Set	6,000.00	6,000.00	
03-04-01017	Same as item 1 but Q= 150 Cubm./hr Head = 100m.	0	0	1	1	Set	12,000.00	12,000.00	Commodity code 993432272, CCX980727
03-04-01018	Same as item 1 but Q= 250 Cubm./hr Head = 200m.	0	0	1	1	Set	30,000.00	30,000.00	
03-04-01019	Same as item 1 but Q= 675 Cubm./hr Head = 52.5m.	0	0	1	1	Set	25,000.00	25,000.00	
03-04-01020	Same as item 1 but Q= 100 Cubm./hr Head = 50m.	0	0	2	2	Set	3,300.00	6,600.00	Commodity 432272, CCX 980727
03-04-01021	Same as item 1 but Q= 50 Cubm./hr Head = 200m.	0	0	2	2	Set	8,000.00	16,000.00	
03-04-01022	Same as item 1 but Q= 200 Cubm./hr Head = 200m.	0	0	1	1	Set	18,898.00	18,898.00	Commodity code 432272, CCX 981611
03-04-01023	Wash water pump Cde No 2-410.0074.order No K-426170.year1980. Maqnufacture No (5-3012.000).Pump type BS300..1512CuM/Hr,H 15M, 1480RPM.2177KW.Eff 80%.ComPANY Sulze Espana.SA Madrid	0	0	0	0	Set	80,000.00	0.00	
03-04-01024	Clarifier Sludge pump Type KRT 100-185114.Company KSB Gernmany Q 50CuM/Hr,H 1 M,1450 RPM.Power 1.5M,380V,50HZ.	0	0	0	0	each	1,200.00	0.00	98/4013 CCX 98 1868
03-04-01025	Sludge pump Type KRT 100-240/54, company KSB Germany.Q 100CuM/Hr,H 8.5 M.N 1450RPM.Power 3.5KW.380V,50HZ.	0	0	0	0	each	1,500.00	0.00	
03-04-01026	Pump cde No 2-410.0074..order No K-4261170 year 1980. Man No (5-3012.000). Pump type BK 550-36/6.Q1627CuM/Hr,H 257M N 985RPM,1380KW.Eff 82.5.Company Sulze-Espana SA Madrid	0	0	0	0	each	250,000.00	0.00	
03-04-01027	Pump cde No 2-410.0074..order No K-4-26170 year 1980. Man No (5-3011.000). Pump type BK 550-36/7.Q1627CuM/Hr,H 295M N 985RPM,1604KW.Eff 81.5%.Company Sulze-Espana SA Madrid	0	0	0	0	each	270,000.00	0.00	
03-04-01028	Submersible drainage pump with direct coupled electrical motor with non return valve, control pannel complete set,50M three core cable , tail cable and cable termination kit.Q2CuM/Hr.H10M,380V.50Hz, 3Phase.	0	0	0	0	each	300.00	0.00	
03-04-01029	Pump. Order No K-4-26170.Year 1980...152CUM/HR,H 15M,1480RPM,77KW.Company Sulze-Espana s.A Madrid	0	0	0	0	Set	30,000.00	0.00	
03-04-01030	Same as item 7 but: Q=1500 cum/hr, H=165m	0	0	0	0	Set	126,000.00	0.00	
03-04-01031	spare parts for Ingersol pumps*	0	0	0	0	Set	125,000.00	0.00	
03-04-01032	Same as item 8 but: Q=340 cum/hr, H=200m	0	0	0	0	Set	40,000.00	0.00	
03-04-01033	Same as item 8 but: Q=200 cum/hr, H=200m	0	0	0	0	Set	25,000.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01034	Same as item 8 but: Q=200 cum/hr, H=100m	0	0	0	0	Set	15,000.00	0.00	
03-04-01035	Same as item 8 but: Q=60 cum/hr, H=60m	0	0	0	0	Set	7,500.00	0.00	
03-04-01036	Same as item 8 but: Q=50 cum/hr, H=80m	0	0	0	0	Set	10,000.00	0.00	
03-04-01037	Same as item 8 but: Q=150 cum/hr, H=100m	0	0	0	0	Set	15,000.00	0.00	
03-04-01038	Same as item 8 but: Q=100 cum/hr, H=80m	0	0	0	0	Set	10,000.00	0.00	
03-04-01039	Same as item 8 but: Q=250 cum/hr, H=200m	0	0	0	0	Set	40,000.00	0.00	
03-04-01040	Centrifugal booster pump for pumping treated water . Q=700 cum/hr, H= 200m Coupled with electrical driven motor with on line starter and automatic circuit breaker connection and with control panel. 3300V, 50Hz, 3 phase. Max altitude 1,000m. With spare parts for 2 years operation, spare parts/operation manual in English, and neccessary valves, non-return valves, flanges, elbows, reducers FOR NEW INSTALLATION. CABLES TO BE PACKED SEPRATLEY WITH EACH SET.	0	0	1	1	Set	85,000.00	85,000.00	0
03-04-01041	Spare parts for Ingersol-Dressor pump Type 28KKM-5. Impeller 1 set. Pump Shaft 1No. Pump shaft coupling 1No.Impeller lock pin 5No.wearing ring 6Nos.shaft sleeve 2Nos.distance sleeve 2Nos.Bearing 1set.coupling 1No	0	0	0	0	Set	50,000.00	0.00	.
03-04-01042	Ball Bearing.*	0	0	0	0	Set	15,000.00	0.00	0
03-04-01043	Centrifugal booster pump for pumping treated water . Q=1500 cum/hr, H= 200m Coupled with electrical driven motor through a flexiable coupling ,w ith control panel including oil circuit breaker 12KV with all relays and protection devices. Shaft and impellers should be made of stainless steel,thermometerss should be attached to both end bearings. Motor should be sqirel cage,1500 rpm,3300 V,50HZ.Max altitude 1000 M for new installation ,cables to be packed separately with each set. flanges, elbows, reducers FOR NEW INSTALLATION. CABLES TO BE PACKED SEPRATLEY WITH EACH SET.	0	0	0	0	Set	70,000.00	0.00	85,000
03-04-01044	Diesel driven centrifugal pumping system. Capacity 30 Cum/hr,H=50M. Altitude 1200M,	0	0	3	3	set	6,706.00	20,118.00	
03-04-01045	Same as item 12 but Q=30cum/hr,H=130m	0	0	10	10	set	6,840.00	68,400.00	
03-04-01046	Same as item 12 but Q=10cum/hr,H=80m	0	0	10	10	Set	4,297.32	42,973.20	
Sub-Total:								505,570.20	
Primary Shipping Cost (15%):								75,835.53	
Levy (3%):								15,167.11	
Grand-Total:								596,572.84	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

8. Electrical Equipment and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01047	Control panel for star delta motor with main switch,circuit breaker,illuminated selector,phase failure relay,timeing relay,fuse holder,autotransformer,ammeter and voltmeter,380V,50 HZ,3phase . Capacity 55KW	0	0	2	2	Each	1,385.76	2,771.52	UNICEF commodity code 432272
03-04-01048	Same as item 1 but capacity 45 Kw.	0	0	2	2	Each	2,127.23	4,254.46	
03-04-01049	Same as item 1 but capacity 75 Kw.	0	0	2	2	Each	2,560.00	5,120.00	
03-04-01050	same as item 1 but capacity 110 KW	0	0	2	2	Each	2,960.00	5,920.00	
03-04-01051	same as item 1 but capacity 200KW	0	0	2	2	Each	3,776.71	7,553.42	
03-04-01052	same as item 1 but capacity 315KW	0	0	0	0	Each	4,200.00	0.00	
03-04-01053	Electronic Cards for rectifier.Rectifier type GFD 110/30118,Fn63..input 3X380V.bc.30/18A.Characteristic IUoU consumption 63A Serial No(23703 ,23704),23661),company EBG Austria	0	0	0	0	Each	300.00	0.00	98/1615 CCX 98 1615
03-04-01054	Same as item 2 but type EED2a	0	0	0	0	Each	320.00	0.00	
03-04-01055	Same as item 2 but TYPE EFD 1	0	0	0	0	Each	340.00	0.00	
03-04-01056	Same as item 2 BUT TYPE EJD1-100/4b	0	0	0	0	Each	360.00	0.00	
03-04-01057	Same as item 2 but TYPE EGN4-380	0	0	0	0	Each	380.00	0.00	
03-04-01058	Same as item2 but type EGL1-100	0	0	0	0	Each	400.00	0.00	
03-04-01059	Same as item 2 but Type EGDLa-110	0	0	0	0	Each	420.00	0.00	
03-04-01060	Same as item 2 but Type RDG III-2	0	0	0	0	Each	440.00	0.00	97/4275 CCX 98 0354
03-04-01061	Same as item 2 but Type RFB 501-2	0	0	0	0	Each	460.00	0.00	
03-04-01062	Same as item 2 but Type EEKI-220/I	0	0	0	0	Each	480.00	0.00	97/4275 CCX 98 0354
03-04-01063	Same as item 2 but Type HDB 45/125-b	0	0	0	0	Each	490.00	0.00	
03-04-01064	Same as item 2 but HBW22/50-b	0	0	0	0	Each	500.00	0.00	
03-04-01065	Automatic air circuit breaker MCCB,500V,50HZ & 3P.Capacity 1600 Amp	0	0	4	4	Each	600.00	2,400.00	
03-04-01066	Same as in item 3 but capacity 1000-1250Amp	0	0	5	5	Each	550.00	2,750.00	
03-04-01067	Same as in item 3 but capacity 800-1000Amp	0	0	4	4	each	350.00	1,400.00	
03-04-01068	Same as in item 3 but capacity 400-500Amp	0	0	8	8	Each	230.00	1,840.00	
03-04-01069	Same as in item 3 but capacity 80-100Amp	0	0	20	20	Each	51.63	1,032.60	
03-04-01070	Same as in item 3 but capacity 50-63Amp	0	0	20	20	Each	51.63	1,032.60	
03-04-01071	Same as in item 3 but capacity 30-40Amp	0	0	20	20	Each	60.99	1,219.80	
03-04-01072	Flexible electrical power cable for 400V, size 1x240 mm2(copper)	0	0	400	400	ML	8.27	3,308.00	98/4026 CCX 98 1926

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01073	Same as item 4 but size 1x150 mm2	0	0	400	400	ML	5.31	2,124.00	
03-04-01074	Same as item 4 but size 1x95 mm2	0	0	500	500	ML	3.62	1,810.00	
03-04-01075	Electrical cable ,high tension ,3.3 KV, size 3X150mm	0	0	400	400	ML	15.00	6,000.00	
03-04-01076	Same as item 4 but size 3X95 mm2	0	0	200	200	ML	20.00	4,000.00	
03-04-01077	Same as item 4 but size 4x10 mm2	0	0	0	0	ML	2.27	0.00	98/4026 CCX 98 1919
03-04-01078	Same as item 4 but size 4x16 mm2	0	0	0	0	ML	3.38	0.00	
03-04-01079	Same as item 4 but size 3x25+16 mm2	0	0	0	0	ML	5.50	0.00	
03-04-01080	size 4x35 mm2 or (3x35+16mm2)	0	0	0	0	ML	6.90	0.00	98/4026 CCX 98 1919
03-04-01081	size 4x50 mm2 or (3x50+25mm2)	0	0	0	0	ML	10.01	0.00	
03-04-01082	Oil for high tension transformers, 33/11KV and 11/0.4 KV	0	0	5000	5000	Litre	1.06	5,300.00	97/4274 CCX 98 0235
03-04-01083	Electric contactors, 500V, 50 Hz, coil voltage 380V, SIEMENS Germany, type 3TF 48	0	0	4	4	Each	583.98	2,335.92	98/4026 CCX 98 2038
03-04-01084	Same as item (6), type 3TF 52	0	0	3	3	Each	874.04	2,622.12	
03-04-01085	same as item 6 but type 54	0	0	10	10	Each	890.00	8,900.00	
03-04-01086	same as item 6 but type 56	0	0	10	10	Each	910.00	9,100.00	
03-04-01087	Agitator for water treatment plant. Motor type QU 100 L4 BA, 2.2KW, 1435 R.P.M, 380V with control panel, Gear type R/50, Rapp 17.67, MATR 57339 CV3, Eapp.ss1. ELECTRO AGITATOR, AFERFT 10/145, MATR 18926/CV3/380V, GIRAI VTE O850, GIRT1 80 Italian	0	0	0	0	Set	2,500.00	0.00	
03-04-01088	Phase failure, three phase asymmetry and sequence relay, 380 V, 50 Hz. E. Dold u. Sohne KG Type BA 9041	0	0	50	50	Set	131.88	6,594.00	98/4012 CCX 98 2005
03-04-01089	Self-amulgating electrical tape 19mm x 10m. for high tension voltage-moister resistant, ozone resistant	0	0	550	550	Each	4.26	2,343.00	98/4026 CCX 98 1921
03-04-01090	Insulating tape, low voltage, 19mm x 33m	0	0	350	350	Each	1.91	668.50	
03-04-01091	Shrinkable terminations (12,000V) three core for cable size (50-95)mm, 60 cm long	0	0	40	40	Set	191.97	7,678.80	
03-04-01092	Shrinkable terminations (36,000V) three core for cable size (95-150)mm, 120 cm long	0	0	15	15	Set	260.52	3,907.80	
03-04-01093	Electrical transformer type (TAA21) , oil colled 11 / 0.4 KV , 250 KVA , 50 HZ	0	0	5	5	Set	10,000.00	50,000.00	
03-04-01094	Electrical transformer type (TAA21) , oil colled 11 / 0.4 KV , 100 KVA , 50 HZ	0	0	4	4	Set	8,000.00	32,000.00	
03-04-01095	Soft starter IDP ,132 KW	0	0	1	1	Set	1,300.00	1,300.00	
03-04-01096	Soft starter IDP ,250 KW	0	0	1	1	Set	1,500.00	1,500.00	
03-04-01097	SMC Dialog plus Allen - Bradely IDP for 250KW	0	0	2	2	Each	250.00	500.00	
03-04-01098	SMC Dialog plus Allen - Bradely IDP for 132KW	0	0	2	2	Each	200.00	400.00	
03-04-01099	Voltage transformer,rated power=3000KVA,rated primary voltage 1100 V rated secondary ,rated secondary voltage 3300V,rated frequency 50Hz,with link fuse and high voltage automatic circuit breaker 3300 V,50Hz with protection.	0	0	1	1	Each	25,000.00	25,000.00	
03-04-01100	Automatic air circuit breaker V=400,50Hz,3Ph,A=2500, Type Merline green	0	0	2	2	Set	650.00	1,300.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01101	Automatic circuit breaker V=400,50Hz,3Ph,A=1000, Type Merline green	0	0	1	1	Set	470.61	470.61	CCX98 0354
03-04-01102	Control panel soft starter for LEORY SOMER MOTOR, 3 phase,400V,50Hz,250KW with flexible single core copper cable size 240Sqmm(200ML)	0	0	2	2	Set	1,370.00	2,740.00	
03-04-01103	Control panel soft starter soft starter for 3 phase 400V,50HZ, 400KW with flexible single core copper cable size 240Sqmm(200ML)	0	0	2	2	Set	2,300.00	4,600.00	
03-04-01104	Cooling system for cooling induction motor metrico system N.W.LTD. FAN code 40830,job Ref 14225,motor power 1.5HP,speed =2900rpm,class F,electrical supply 380V,3phase,50Hz, Serial No 11945.Company Andrews HOUSE,7 PORTLAND PLACE, STALY BRIDGE,CHESSHIRE <SK 153AO TEL,061- 303 8391/2	0	0	3	3	set	360.00	1,080.00	
03-04-01105	High voltage out door link fuse 36KV with spare fusees	0	0	0	0	Set	0.00	0.00	
03-04-01106	Out door Link fuse 36KV, 70A with spare fuses	0	15	15	30	Set	350.00	10,500.00	
03-04-01107	Out door Link fuse36KV, 250A	0	0	15	15	Set	520.00	7,800.00	
03-04-01108	Outdoor link fuse 36 KV, 180A with spare fuses	0	0	15	15	Set	380.00	5,700.00	
03-04-01109	Circuit breaker 3 phase ,400 Volt , 50 Ampere	0	0	10	10	Set	240.00	2,400.00	
03-04-01110	As item 29 but 60 A	0	0	10	10	Set	260.00	2,600.00	
03-04-01111	As item 29 but 100 A	0	0	10	10	Set	320.00	3,200.00	
03-04-01112	As item 29 but 150 A	0	0	8	8	Set	350.00	2,800.00	
03-04-01113	As item 29 but 200A	0	0	8	8	Set	400.00	3,200.00	
03-04-01114	As item 29 but 250A	0	0	0	0	Set	0.00	0.00	
03-04-01115	As item 29 but 300 A	0	0	5	5	Set	470.00	2,350.00	
03-04-01116	High voltage high braking capacity fuse link with optical indicator type H220 Rated Voltage 36 KV.	0	0	0	0	Set	0.00	0.00	
Sub-Total:								265,427.15	
Primary Shipping Cost (15%):								39,814.07	
Levy (3%):								7,962.81	
Grand-Total:								313,204.03	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

9. Generators and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01117	Diesel generator complete set with control panel board consisting of automatic main failure switch, change-over switch, voltmeter, ammeter, hour meter, phase selector switch, frequency meter, starting key, high temperature warning, low oil pressure warning, low fuel warning and with 12 V electric starting system with battery, battery charger and voltage regulator, and with fresh waterloop cooling system, heavy duty air filter, cartridge oil and fuel filter, speed governor, silencer, exhaust flexible piping and with fuel tank to run 8 hours continuously and suitable for continuous operation. Maximum output power 2500 KVA, 400V, 3Ph and 50Hz. 50 deg C max; and 1,200 m max alt. The engine and alternator coupled by elastic joint and mounted on a common bed-frame with anti-vibration mountings and lifting eyes with complete tool-kit set. Supplies with O&M manual and spare parts catalogue in English. With spare parts for 2 years normal operation. Packed in wooden case suitable for sea and land transportation.	0	0	0	0	Set	225,000.00	0.00	
03-04-01118	Same as item 1, capacity 40 KVA.	0	0	0	0	Set	7,212.73	0.00	CCX98/771 commodity code 461133
03-04-01119	Same as item 1, capacity 30 KVA.	0	0	0	0	Set	6,000.00	0.00	
03-04-01120	Same as item 1, capacity 100 KVA.	0	0	5	5	Set	13,710.21	68,551.05	
Sub-Total:								68,551.05	
Primary Shipping Cost (15%):								10,282.66	
Levy (3%):								2,056.53	
Grand-Total:								96,738.20	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

10. Tools and Accessories

Item	Description	Quantity		Total	Unit	Unit Price in USD	Total Price in USD	Ref.	
03-04-01301	Tools set for mechanical work	0	0	5	5	Set	256.66	1,283.30	Commodity No 429260, CCX 982204
03-04-01302	Tools set for electrical work	0	0	10	10	Set	256.66	2,566.60	
03-04-01303	Portable lubricating pump, hand-operated level type for dispensing lubricating oil or soft grease, consisting of a container fitted with carrying handle and strong foot-plate, with 2 M high pressure delivery hose and hydraulic connector. Capacity 16 litres and pressure 250 bar (reference number A1205017)	0	0	10	10	Set	210.61	2,106.10	
03-04-01304	Grease for all mechanical parts, type C3 or SHELL-ALVANIA R3 or R2, company: Shell company, USA	0	0	20	20	Set	2.95	59.00	
03-04-01305	Portable pipe cutting machine	0	0	5	5	Each	100.00	500.00	
03-04-01306	Pipe Wrench Size 200mm	0	0	5	5	Each	100.00	500.00	
03-04-01307	Pipe Wrench Size 250mm	0	0	8	8	Each	100.00	800.00	
03-04-01308	Pipe Wrench Size 350mm	0	0	6	6	Each	100.00	600.00	
03-04-01309	Pipe Wrench Size 460mm	0	0	4	4	Each	100.00	400.00	
03-04-01310	Welding machine operated by diesel engine, mobile on solid rubber wheel , over load protection max. capacity 350 A with all standard accessories. 50 degree C max., 1200 m. Altitude max.	0	0	2	2	Each	4,696.60	9,393.20	
03-04-01311	Circlip pliers ,set of 4 Straight : internal capacity 8-18mm ,18-48mm . 45 Angle : internal capacity 8-18mm ,18*48mm .	0	0	1	1	Each	65.00	65.00	
03-04-01312	Oil filter spanner , chain wrench 60mm -140mm .dia	0	0	1	1	Each	20.00	20.00	
03-04-01313	Battery Acid tester	0	0	0	0	Each	9.00	0.00	
03-04-01314	Honing Tool ,(driven drmachine)2total for break cylender ,dia to be bumshed 5/8-1" for engine block cylender ,dia to be bumshed 2-7"	0	0	1	1		89.00	89.00	
03-04-01315								0.00	
03-04-01316	Peston Ring piler width of span 90-150mm .	0	0	2	2	Each	15.00	30.00	
03-04-01317	Pullers 3no sets , 3 leg ,clamp depth 140mm range 125mm with center points .	0	0	2	2	Each	196.00	392.00	
03-04-01318	Kukko no 24B	0	0	2	2	Each	629.00	1,258.00	
03-04-01319	Kukko no 5/C	0	0	2	2	Each	270.00	540.00	
03-04-01320	Jump leads heavy duty , cable core 16mm² , 3M.L	0	0	4	4	Each	25.00	100.00	
03-04-01321	Batttery charger ,with start help and battery charger function max start curent 220A charge voltage 12,24V max charge curent 30A	0	0	2	2	Each	211.00	422.00	
03-04-01322	chain Wrenches ,havy duty ,3" dia max. length 600mm .	0	0	1	1	Each	100.00	100.00	
03-04-01323	Pipe Wrenches ,havy duty ,3" dia max. length 600mm .	0	0	3	3	Each	105.00	315.00	

	Description			Sul	Total	Unit			
03-04-01324	Pipe Wrenches ,havy duty ,2" dia max. length 600mm .	0	0	5	5	Each	54.00	270.00	
03-04-01325	Water pump pliers ,total of 2 length 250mm ,400mm .	0	0	2	2	Each	57.00	114.00	
03-04-01326	Pliers set of 5 Flat nose ,length 160mm Snip nose ,length 160mm Round nose ,140mm Combination ,length 150mm , 180mm	0	0	1	1	Each	56.00	56.00	
03-04-01327	Self -grip Wrenches set of 4	0	0	4	4	Each	67.00	268.00	
03-04-01328	Welding tongs set of 4	0	0	2	2	Each	81.00	162.00	
03-04-01329	Valve spring compressor 80-250mm span	0	0	3	3	Each	21.00	63.00	
03-04-01330	valve grinder , cup dia 15&20mm	0	0	6	6	Each	7.00	42.00	
03-04-01331	Pry brass ,680mm ,820mm	0	0	54	54	Each	18.00	972.00	
03-04-01332	Wire Stripper ,160mm .	0	0	4	4	Each	58.00	232.00	
03-04-01333	Crimping pilers ,230mm length , 4-10mm² , capacity .	0	0	2	2	Each	13.00	26.00	
03-04-01334	POP Rivet Lazy tong punch for 4.8mm rivet with adapter for 3.2mm and 4mm POP rivet .	0	0	3	3	Each	180.00	540.00	
03-04-01335	Drifts set of 6	0	0	6	6	Each	20.00	120.00	
03-04-01336	Assorted chisels and punches Flat 120X10 ,150X8mm Cross cut 120X14 Hole punch 120X3, 150X4mm Center punch 120X10	0	0	5	5	Each	18.00	90.00	
03-04-01337	Assorted Mallets Copper 1.25Kg with handle Lead 5Kg Plastic 450g with handle Rubber 1.2Kg with handle	0	0	2	2	Each	89.00	178.00	
03-04-01338	Electrician's Knife with assorted blades	0	0	1	1	Each	16.00	16.00	
03-04-01339	Rowbar ,steel length 1500mm	0	0	4	4	Each	60.00	240.00	
03-04-01340	Universal Saw ,Stanley no.2-15-715 ,with 2spar blades blade length 315mm .TPI 12.5	0	0	2	2	Each	60.00	120.00	
03-04-01341	Drill Bit Set HSS for metal with tool box to fit 1 ofn each size comprising : dimeters 1.0 to 13mm in 0.5mm rise 1.0,1.5,2.0,2.5 10of each 3,3.5,4,4.5,5 5of each 5.5,6,6.5,7,8 2of each 12,12.5,13 1of each	0	0	5	5	Each	200.00	1,000.00	
03-04-01342	Hacksaw , Adjustable 250-300mm with 10blades	0	0	3	3	Each	15.00	45.00	
03-04-01343	Tap and Die set Metric M3 to M16 Comprising : Second and bottom taps (II and III) with chuck tap wrench and tool holder , dies with 2 die hokets ,taps and dies in HSS sizes M3,4,5,6,8,10,12,16	0	0	2	2	Each	460.00	920.00	
03-04-01344	Engineers file sSet ,Second cut ,10" blade with handle comrising . Flay , Hand, half round , squar , three square	0	0	1	1	Each	60.00	60.00	
03-04-01345	Hand Drill ,max chuck dia .13mm ,2speed .	0	0	1	1	Each	21.00	21.00	
03-04-01346	Allen Keys imperial set 3/32,1/8,5/32,3/16,1/4,5/16,3/8	0	0	2	2	Each	11.00	22.00	
03-04-01347	Allen Keys imperial set 2.5,3,4,5,6,8,10	0	0	3	3	Each	11.00	33.00	
03-04-01348	Heavy duty Socket 1/2" squar driver	0	0	2	2	Each	18.00	36.00	

	Description			Sul	Total	Unit			
03-04-01349	Gland packing size 1/2 inch ,PH 5-8.5 RPM=2440, H=80M	0	0	10	10	Set	13.65	136.50	UNICEF COMMODITY CODE 432990
03-04-01350	Gland packing size 3/4 inch ,PH 5-8.5 RPM=2440, H=150M	0	0	10	10	Set	30.30	303.00	UNICEF COMMODITY CODE 432990
03-04-01351					0			0.00	
03-04-01352	Socket set 3/4"drive with T-bar, ratched handle ,extension bar & universal jjoint	0	0	4	4	Each	228.00	912.00	
03-04-01353	UNICEF Commodity Code: 444139 ATLAS COPCO well drilling rig AQUA Drill 2500 mounted on truck NL 106X4 with mud pump type Gardiner Denver 7 1/2 inchX10 inch driven by 4/71 Detroid diesel engine,drilling tools and spare parts for 2 years operation and compressor for water drilling rig.With O&Mmanuals and spare parts catalogue in Arabic/English	0	0	1	1	Set	822,150.00	822,150.00	
								850,686.70	
15%								127,603.05	
3%								25,520.60	
Grand-Total:								1,003,810.35	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES									
WATER TREATMENT AND TESTING									
10 B. Expansion of New Sul. Water project .									
Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description			Sul					
03-04-01354	Expansion of New Sul. Water project	0	0	0					
03-04-01355	Expansion of the project stage pump houses .	0	0	Lump sum			2902738	2000000	
03-04-01356	Installation of pumps with control panel .	0	0	Lump sum			1000000	835323	
Sub-Total:								2835323	
Grand-Total:									

PROJECT 3: URBAN AND SEMI-URBAN SANITATION EQUIPMENT

11. Sanitation Vehicles and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01121	Tyre with internal tube, size 1100x20 for HINO type tankers and trucks.	0	0	0	0	Each	166.54	0.00	98/4035 CJX 980418
03-04-01122	Tyre with internal tube, size 1200x20 for tip trucks, type Scania.	0	0	0	0	Each	209.15	0.00	97/4288 CJX 98 0016
03-04-01123	Tyre with internal tube, size 1200x24 for tip trucks, type Scania/ Volvo.	0	0	0	0	Each	208.69	0.00	98/4250 CJX 980552
03-04-01124	Tyre with internal tube, size 1300x24 for grader, type Caterpillar.	0	0	0	0	Each	229.60	0.00	98/4250 CJX 980552
03-04-01125	Tyre with internal tube, size 1400x24 for grader.	0	0	0	0	Each	308.12	0.00	97/4288 CJX 98 0016
03-04-01126	Tyre with internal tube, size 17.5x25 for shovel, type Kawasaki	0	0	0	0	Each	323.94	0.00	98/4250 CJX 980552
03-04-01127	Tyre with internal tube, size 20.5x25 for Caterpillar shovel.	0	0	0	0	Each	667.18	0.00	97/4288 CJX 98 0016
03-04-01128	Tyre with internal tube, size 16x750 for tractor.	0	0	0	0	Each	35.87	0.00	98/4035 CJX 98 0418
03-04-01129	Tyre with internal tube, size 15x750 for tractor.	0	0	0	0	Each	56.59	0.00	98/4035 CJX 98 0418
03-04-01130	Tyre with internal tube, size 14x650 for pick-up.	0	0	0	0	Each	31.69	0.00	97/4288 CJX 98 0016
03-04-01131	Tyre with internal tube, size 900x20 for FAUN road cleaner.	0	0	0	0	Each	148.75	0.00	97/4288 CJX 98 0016
03-04-01132	Tyre with internal tube, size 9x600 for two MTN fork lifter	0	0	0	0	Each	73.31	0.00	
03-04-01133	Tyre with internal tube, size 15x9-28 for two MTN fork lifter	0	0	0	0	Each	250.00	0.00	
03-04-01134	Tyre with internal tube, size 16.9/14 x 28 for Anter tractor	0	0	0	0	Each	177.85	0.00	98/4250 CJX 98 0552
03-04-01135	Batteries, size 12x19x150 Amp-hour for HINO tankers and trucks.	0	0	0	0	Each	83.67	0.00	97/4288 CCX 98 0106
03-04-01136	Batteries, size 12x19x135 Amp-hour for shovel and bulldozer.	0	0	0	0	Each	71.00	0.00	98/4250 CCX 982592
03-04-01137	Batteries, size 12x19x90 Amp-hour for tractor and compressor.	0	0	0	0	Each	51.14	0.00	98/4250 CCX 98 2592
03-04-01138	Batteries, size 12x11x60 Amp-hour for pick-up and landcrusor.	0	0	0	0	Each	25.75	0.00	98/4250 CCX 98 2592
03-04-01139	Spare parts for HINO garbage collectors. Type:HINO KB 1980; KB 422 - 11802; EB 300 - 54123. Company: Morita Tokushu Kiko Co. Ltd., Osaka, Japan. Head assy, cyl. Part No:11110-2533	0	0	0	0	Each	694.00	0.00	
03-04-01140	Same as item 19 but: Gkt. Cyl. Head Part No: 11115-1142	0	0	0	0	Each	35.00	0.00	
03-04-01141	Same as item 19 but: Liner cylinder Part No: 11467-1180	0	0	0	0	Each	64.00	0.00	
03-04-01142	Same as item 19 but: Gkt, cyl liner Part No: 11471-1110	0	0	0	0	Each	3.00	0.00	
03-04-01143	Same as item 19 but: Crankshaft assy Part No: 13471-1440	0	0	0	0	Each	1,860.00	0.00	
03-04-01144	Same as item 19 but: Washer thrust, std Part No: 11011-1171	0	0	0	0	Each	43.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01145	Same as item 19 but: Washer thrust, 0.25 Part No: 11012-1170	0	0	0	0	Each	51.00	0.00	
03-04-01146	Same as item 19 but: Brg set c/s, std Part No: 11701-1160	0	0	0	0	Each	124.00	0.00	
03-04-01147	Same as item 19 but: Brg set c/s, 0.25 Part No: 11701-1161	0	0	0	0	Each	137.00	0.00	
03-04-01148	Same as item 19 but: Ring set piston, std Part No: 13011-1640	0	0	0	0	Each	120.00	0.00	
03-04-01149	Same as item 19 but: Ring set piston, 0.25 Part No: 13012-1220	0	0	0	0	Each	120.00	0.00	
03-04-01150	Same as item 19 but: Brg set con. rod std. Part No: 13201-1280	0	0	0	0	Each	93.00	0.00	
03-04-01151	Same as item 19 but: Brg set con. rod 0.25 Part No: 13203-1170	0	0	0	0	Each	101.00	0.00	
03-04-01152	Same as item 19 but: Valve, intake Part No: 13711-1091	0	0	0	0	Each	7.00	0.00	
03-04-01153	Same as item 19 but: Valve, exhaust Part No: 13715-1500	0	0	0	0	Each	23.00	0.00	
03-04-01154	Same as item 19 but: Oil pump assy Part No: 15110-1011	0	0	0	0	Each	296.00	0.00	
03-04-01155	Same as item 19 but: Nozzle assy Part No: 23640-1240	0	0	0	0	Each	15.00	0.00	
03-04-01156	Same as item 19 but: Pump assy, fuel feed Part No: 22570-1040	0	0	0	0	Each	58.00	0.00	
03-04-01157	Same as item 19 but: Water pump assy Part No: 16100-1161	0	0	0	0	Each	175.00	0.00	
03-04-01158	Same as item 19 but: Compressor assy, air Part No: 29100-1033	0	0	0	0	Each	478.00	0.00	
03-04-01159	Same as item 19 but: Power strg pump assy Part No: 44310-1440	0	0	0	0	Each	477.00	0.00	
03-04-01160	Same as item 19 but: Plug assy, glow Part No: 19120-1020	0	0	0	0	Each	9.00	0.00	
03-04-01161	Same as item 19 but: Starter motor assy Part No: 28100-1400	0	0	0	0	Each	519.00	0.00	
03-04-01162	Same as item 19 but: Alternator assy Part No: 27020-1380	0	0	0	0	Each	215.00	0.00	
03-04-01163	Same as item 19 but: Regulator, alternator Part No: 27700-1100	0	0	0	0	Each	38.00	0.00	
03-04-01164	Same as item 19 but: Radiator sub assy Part No: 16081-1400	0	0	0	0	Each	925.00	0.00	
03-04-01165	Same as item 19 but: Disc assy, clutch Part No: 31250-1045	0	0	0	0	Each	124.00	0.00	
03-04-01166	Same as item 19 but: Plate, clutch press Part No: 31221-1120	0	0	0	0	Each	92.00	0.00	
03-04-01167	Same as item 19 but: Booster assy, clutch Part No: 32210-1812	0	0	0	0	Each	181.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01168	Same as item 19 but: Cylinder assy, master Part No: 31420-1060	0	0	0	0	Each	62.00	0.00	
03-04-01169	Same as item 19 but: Transmission assy, for se Part No: 33020-3770	0	0	0	0	Each	6,053.00	0.00	
03-04-01170	Same as item 19 but: Shaft assy, prop. rr Part No: 37760-7260	0	0	0	0	Each	680.00	0.00	
03-04-01171	Same as item 19 but: Valve assy, air brake Part No: 47160-1560	0	0	0	0	Each	288.00	0.00	
03-04-01172	Same as item 19 but: Starting relay Part No: 28300-1090	0	0	0	0	Each	24.00	0.00	
03-04-01173	Same as item 19 but: Booster assy, ps w/conrod Part No: 44260-1130	0	0	0	0	Each	917.00	0.00	
03-04-01174	Same as item 19 but: Gasket kit engine Part No: 04010-0160	0	0	0	0	Each	257.00	0.00	
03-04-01175	Same as item 19 but: Oil seal Part No: 9828-01109	0	0	0	0	Each	11.00	0.00	
03-04-01176	Same as item 19 but: Oil seal Part No: 9828-80105	0	0	0	0	Each	6.00	0.00	
03-04-01177	Same as item 19 but: Engine block Part No: KB 422-mo 82	0	0	0	0	Each	2,400.00	0.00	
03-04-01178	Same as item 19 but: Piston pin with bush	0	0	0	0	Each	5.00	0.00	
03-04-01179	Same as item 19 but: Power takeoff	0	0	0	0	Each	779.50	0.00	
03-04-01180	Same as item 19 but: Sewage pump	0	0	0	0	Each	1,000.00	0.00	
03-04-01181	Complete engine for VOLVO trucks type N10 engine No. 149217	0	0	0	0	Each	20,000.00	0.00	
03-04-01182	Same as item 20 but: Ring set, std Par No: 275304	0	0	0	0	Each	150.00	0.00	
03-04-01183	Same as item 20 but: Piston set, std Par No: 275035	0	0	0	0	Each	450.00	0.00	
03-04-01184	Same as item 20 but: Cylinder liner kit Par No: 275631-2	0	0	0	0	Each	265.00	0.00	
03-04-01185	Same as item 20 but: Gasket kit Par No: 275631-2	0	0	0	0	Each	475.00	0.00	
03-04-01186	Same as item 20 but: Water pump Par No: 467204-4	0	0	0	0	Each	345.00	0.00	
03-04-01187	Same as item 20 but: Oil pump kit Par No: 275570-0	0	0	0	0	Each	169.00	0.00	
03-04-01188	Same as item 20 but: Mine breaking kit Par No: 270438-5	0	0	0	0	Each	17.00	0.00	
03-04-01189	Same as item 20 but: Thrust washer kit Par No: 276758-0	0	0	0	0	Each	12.00	0.00	
03-04-01190	Same as item 20 but: Water pump kit Par No: 275608-8	0	0	0	0	Each	184.00	0.00	
03-04-01191	Same as item 20 but: Clutch servo repair kit Par No: 273447-3	0	0	0	0	Each	88.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01192	Same as item 20 but: Big end bearing kit Par No: 270099-5	0	0	0	0	Each	17.00	0.00	
03-04-01193	Same as item 20 but: Compressor repair kit Par No: 272665-1	0	0	0	0	Each	59.00	0.00	
03-04-01194	Same as item 20 but: Master cylinder kit Par No: 273880-1	0	0	0	0	Each	70.00	0.00	
03-04-01195	Same as item 20 but: Thermostat Par No: 467015-4	0	0	0	0	Each	15.00	0.00	
03-04-01196	Same as item 20 but: Fuel injection pump Par No: 243440-5	0	0	0	0	Each	5,487.00	0.00	
03-04-01197	Same as item 20 but: Turbo charger Par No: 467389-5	0	0	0	0	Each	775.00	0.00	
03-04-01198	Same as item 20 but: Starter motor Par No: 240340-0	0	0	0	0	Each	735.00	0.00	
03-04-01199	Same as item 20 but: Alternator Par No: 1505307-7	0	0	0	0	Each	287.00	0.00	
03-04-01200	Same as item 20 but: Clutch disk Par No: 267236-8	0	0	0	0	Each	268.00	0.00	
03-04-01201	Same as item 20 but: Compressor Par No: 351453-6	0	0	0	0	Each	557.00	0.00	
03-04-01202	Same as item 20 but: Servo commande Par No: 1673067	0	0	0	0	Each	269.00	0.00	
03-04-01203	Same as item 20 but: Raccord (liner) Par No: 966458	0	0	0	0	Each	8.00	0.00	
03-04-01204	GARBAGE COLLECTOR TRUCK , HINO, CAPACITY 11 cum, 4 tonne, 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, colour-white, including garbage collector body with export specifications for iraq,Air conditioned cabbinet with sterio tape and receiver, with Manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue.	0	0	16	16	Unit	60,000.00	960,000.00	
03-04-01205	UNICEF Commodity Code : 491800 SCANIA, P94GB 4X2 NZ, 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, colour-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.	0	0	0	0	Unit	84,093.00	0.00	98/4250 CCX 98 3394

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01206	Dumper with half cubic meter bucket, French made or equivalent, 15HP, with two years spare parts	0	0	0	15	Each	7,800.00	117,000.00	SCF98/4289,CC X 983394
03-04-01207	Mobile workshop, for maintaining and repairing sanitation vehicles, complete with repairing tools.	0	0	0	0	Set	45,000.00	0.00	
03-04-01208	Shovel, KAWASAKI (Small size) with closed cabinet with spare parts for 2 years operation and spare parts/operation manual in English	0	0	4	4	Set	64,000.00	256,000.00	CJX980690 CODE NO491800
03-04-01209	Bulldozer, chain type, D65A, KOMATSU	0	0	0	0	Set	60,500.00	0.00	
03-04-01210	Unicef Commodity Code: 435311 Fork Lifter, 3 ton capacity	0	0	0	0	Set	24,724.00	0.00	97/4309 CCX 98 3091
03-04-01211	Drill Bit Set HSS for metal with tool box to fit one of each size. Comprising: 1.0, 1.5, 2.0, 2.5. 10 of each 3.0, 3.5, 4.0, 4.5, 5.0. 5 of each 5.5, 6.0, 6.5, 7.0, 8.0. 2 of each 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0 1 of each	0	0	0	0	Set	200.00	0.00	
03-04-01212	Hacksaw, adjustable 250-300mm with 10 blades. Luna Code: 4275-0208	0	0	0	0	Set	15.00	0.00	
03-04-01213	Tap and Die Set Metric M3 to M16 Comprising: second and bottom taps (II and III) with chuck tap wrench and tool holder, die with 2 die holders. Taps and dies in HSS sizes M3, 4, 5, 6, 8, 10, 12, 16.	0	0	0	0	Set	460.00	0.00	
03-04-01214	Engineers File Set, second cut, 10 inch blade with handles, total of 6, Comprising: flat, hand, half round, round, square, three square. Luna Code: 4493-0105	0	0	0	0	Set	60.00	0.00	
03-04-01215	Screwdrivers with chrome plated blades, 12 total Slot:0.6x3.2x, 1.0x5.0x75 1.4x6.0x100, 1.4x8.0x100 1.0x6.0x38, 1.6x10,200, 2x12x250 Phillips: 1x75, 2x100, 2x38 3x150, 4x200.	0	0	0	0	Set	95.00	0.00	
03-04-01216	Impact Driver Kit, 5/16" Hex drive and 1/2" square drive with cross-point: No 2 & 3 Flat: 8 & 10mm Luna Code: 7266-0103	0	0	0	0	Set	14.00	0.00	
03-04-01217	Nut Splitter, 10-14mm, 14-18mm, total of 2 Luna Code: 7577	0	0	0	0	Set	29.00	0.00	
03-04-01218	Screw Extractor Set, 8 no. M3-M45 Luna Code: 0503-0309	0	0	0	0	Set	30.00	0.00	
03-04-01219	Pin Bolt Extractor, stud diameter 8-19mm Luna Code: 1202-0202	0	0	0	0	Set	35.00	0.00	
03-04-01220	Combination Spanners, chrome vanadium steel, 20 total: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32mm Luna Code: 5029-0204	0	0	0	0	Set	136.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01221	Extended Ring Spanner, chrome vanadium steel, 13 total: 24,27, 30, 32, 36, 41, 46, 50, 55, 60, 65, 70, 75 Luna Code: 1055	0	0	0	0	Set	520.00	0.00	
03-04-01222	Extention Tube, dia 25mm, length 760mm Luna Code: 1057-0307	0	0	0	0	Set	32.00	0.00	
03-04-01223	Swivel Socket Wrenches, chrome vanadium steel, 6 total: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19 Luna Code: 6295-0209	0	0	0	0	Set	47.00	0.00	
03-04-01224	Torque Spanner 1/2". Range 60-300 Nm Luna Code: 5724-0307	0	0	0	0	Set	175.00	0.00	
03-04-01225	Torque Spanner 3/4". Range 400-1000 Nm Luna Code: 7746-0202	0	0	0	0	Set	446.00	0.00	
03-04-01226	Adjustable Spanners, chrome vanadium steel, 3 total Length: 110mm, 255mm, 305mm. Luna Code: 1473	0	0	0	0	Set	51.00	0.00	
03-04-01227	Socket set 1/2" square drive with T-bar, ratchet handle, extention bar and universal joint. Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 30, 32. Luna Code: 4340-0100	0	0	0	0	Set	228.00	0.00	
03-04-01228	Socket set 3/4" square drive with T-bar, ratchet handle, extention bar and universal joint. Sockets: 22, 24, 27, 30, 32, 36, 38, 41, 46, 50. Luna Code: 1146-0102	0	0	0	0	Set	312.00	0.00	
03-04-01229	Sockets for internal hexagon holes, 1/2" square drive, total 9 5, 6, 7, 8, 9, 10, 12, 14, 17 Luna Code: 9422-0100	0	0	0	0	Set	64.00	0.00	
03-04-01230	Heavy Duty Sockets, 1/2" square drive, total 10 11, 12, 13, 14, 15, 17, 19, 21, 22, 24. Luna Code: 1054-0102	0	0	0	0	Set	18.00	0.00	
03-04-01231	Allen Keys, metric, set of 7 2.5, 3, 4, 5, 6, 8, 10. Luna Code: 9453-0102	0	0	0	0	Set	11.00	0.00	
03-04-01232	Allen Keys, imperial, set of 7 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8. Luna Code: 9453-1001	0	0	0	0	Set	11.00	0.00	
03-04-01233	Hand Drill, max. chuck dia. 13mm, 2 speed. Luna Code: 4259-0505	0	0	0	0	Set	21.00	0.00	
03-04-01234	Circlip Pliers, set of 4 Streight: Internal capacity 8-18mm, 18-48mm 45 Angle: Internal capacity 8-18mm, 18-48mm	0	0	0	0	Set	65.00	0.00	
03-04-01235	Oil Filter Spanner, chain wrench 60mm-140mm dia. Luna Code: 8506-0200	0	0	0	0	Set	20.00	0.00	
03-04-01236	Battery Acid Tester Luna Code: 1010-0105	0	0	0	0	Set	9.00	0.00	
03-04-01237	Honing Tool, (driven by drill machine), 2 total for brake cylinder, dia to be burnished 5/8-1" for engine block cylinder, dia to be burnished 2-7"	0	0	0	0	Set	89.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01238	Piston Ring Compressor, width of span 90-175mm Luna Code: 1012-0400	0	0	0	0	Set	19.00	0.00	
03-04-01239	Piston Ring Pliers, width of span 90-150mm Luna Code: 1013-0300	0	0	0	0	Set	15.00	0.00	
03-04-01240	Pullers, 3 no sets, 3 leg, clamp depth 140mm range 125mm, with centre points 25, 40mm Kukko no. 24B see attached photocopy for details. Kukko no. 15/C see attached photocopy for details.	0	0	0	0	Set	1,095.00	0.00	
03-04-01241	Jump Leads, heavy duty, cable core 16mm ² , 3m long Luna Code: 2235-0300	0	0	0	0	Set	25.00	0.00	
03-04-01242	Battery charger, with start help and battery charger functions and cables max. start current 220A charge voltage 12, 24V max. charge current 30A	0	0	0	0	Set	211.00	0.00	
03-04-01243	Chain Wrench, heavy duty, 3" dia max. length 600mm Luna Code: 0742-0235	0	0	0	0	Set	100.00	0.00	
03-04-01244	Pipe Wrench, heavy duty, 3" dia max. length 600mm Luna Code: 5049-0408	0	0	0	0	Set	105.00	0.00	
03-04-01245	Pipe Wrench, heavy duty, 2" dia max. length 450mm Luna Code: 4049-0200	0	0	0	0	Set	54.00	0.00	
03-04-01246	Water Pump Pliers, total of 2 Length 250mm, 400mm	0	0	0	0	Set	57.00	0.00	
03-04-01247	Pliers, set of 5 Flat nose, length 160mm Snipe nose, length 160mm Round nose, length 140mm Combination, length 150mm, 180mm	0	0	0	0	Set	56.00	0.00	
03-04-01248	Self-grip Wrenches, set of 4, see attached photocopy 0975-0103, 0985-0108, 0975-0308, 7427-0109	0	0	0	0	Set	67.00	0.00	
03-04-01249	Welding Tongs, set of 4, see attached photocopy 0980-0103, 0985-0108, 0986-0107, 0989-0104	0	0	0	0	Set	81.00	0.00	
03-04-01250	Valve Spring Compressor, 80-250mm span Luna Code: 1015-0209	0	0	0	0	Set	21.00	0.00	
03-04-01251	Valve Grinder, cup dia. 15 & 20mm	0	0	0	0	Set	7.00	0.00	
03-04-01252	Pry Bars, 680mm, 820mm (see attached photocopy) Luna Code: 6445-0307 & 6445-0604	0	0	0	0	Set	76.00	0.00	
03-04-01253	Wire Stripper, 160mm Luna Code: 9363-0101	0	0	0	0	Set	13.00	0.00	
03-04-01254	Crimping Pliers, 230mm length, 4-10mm ² capacity Luna Code: 5972-0102	0	0	0	0	Set	117.00	0.00	
03-04-01255	POP Rivet Lazy Tong Punch for 4.8mm rivets with adapter for 3.2mm and 4mm POP rivets Luna Code: 0960-0305	0	0	0	0	Set	180.00	0.00	
03-04-01256	Drifts, set of 6 3, 4, 5, 6, 7, 8mm dia. Luna Code: 1672-0104	0	0	0	0	Set	20.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01257	Assorted Chisels and Punches, total of 6 Flat 120x10, 150x8mm Cross Cut 120x14mm Hole Punch 120x3, 150x4mm Centre Punch 120x10mm	0	0	0	0	Set	18.00	0.00	
03-04-01258	Assorted Hammers, total of 8 Cross Pien: 150g, 300g, 500g Ball Pien: 160g, 450g, 620g Metal Sledge: 1Kg, 3Kg.	0	0	0	0	Set	85.00	0.00	
03-04-01259	Assorted Mallets, total of 4 Copper 1.25Kg with handle Lead 5Kg Plastic 450g with handle Rubber 1.2Kg with handle	0	0	0	0	Set	89.00	0.00	
03-04-01260	Electrician's Knife with assorted blades Luna Code: 6417-0103	0	0	0	0	Set	7.00	0.00	
03-04-01261	Crowbar, steel length 1500mm Luna Code: 6063-0308	0	0	0	0	Set	16.00	0.00	
03-04-01262	Universal Saw, Stanly no. 2-15-715, with 2 spare blades Blade length 315mm, TPI 12.5	0	0	0	0	Set	25.00	0.00	
03-04-01263	Measuring Tape, metric 5m Luna Code: 0505-0307	0	0	0	0	Set	14.00	0.00	
03-04-01264	Measuring Tape, metric 2m Luna Code: 0505-0109	0	0	0	0	Set	8.00	0.00	
03-04-01265	Engineers Streight Edge, 40x5x1000mm Luna Code: 2505-0501	0	0	0	0	Set	28.00	0.00	
03-04-01266	Workshop Square, steel, long leg 400mm, short leg 200mm Luna Code: 2538-0601	0	0	0	0	Set	9.00	0.00	
03-04-01267	Engineers Universal Bevels 200mm, 25x5 Luna Code: 2544-0502	0	0	0	0	Set	21.00	0.00	
03-04-01268	Feeler Guages, Metric 0.05-1.00mm 20blades Luna Code: 2595-0502	0	0	0	0	Set	5.00	0.00	
03-04-01269	Vernier Calipers, snap lock, 150mm Luna Code: 5267-0106	0	0	0	0	Set	32.00	0.00	
03-04-01270	Pipe Cutters 1/8-1 1/4" Luna Code: 0605-0108	0	0	0	0	Set	97.00	0.00	
03-04-01271	Pipe Flaring Tools, 6, 8, 10, 12, 14, 15, 16mm. Luna Code: 6610-0207	0	0	0	0	Set	55.00	0.00	
03-04-01272	Magnets, 520mm Luna Code: 0258-0108	0	0	0	0	Set	11.00	0.00	
03-04-01273	Hydraulic Workshop Press, hand pumped with fixed head. Floor mounted Operating pressure 20 tonnes Ram stroke 150mm Luna Code: 8170-0304	0	0	0	0	Set	1,046.00	0.00	
03-04-01274	Pillar Drill for light production. V-belt drive, rectangular slotted table, rack mechanizm for raising and lowering, 90-0-90 degree titling, 16mm chuck, 380V, 3 phase supply, motor rating 550W Max drill size 25mm Depth of drilling 125mm Spindle speeds 125-2060rpm Luna Code: 9054-0105	0	0	0	0	Set	592.00	0.00	
03-04-01275	Pedistal Grinder, 380V, 3 phase supply, motor power 775W. With eyeshields and pedistal: hieght to spindle centre 980mm 2 grinding wheels, min 200x25x20mm Luna Code: 6173-0404	0	0	0	0	Set	455.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01276	Air compressor, with automatic start and stop and unloading valve to permit starting without backpressure in the cylinders. 380V 3 phase supply. With 4 spare filters and F-R-L combination Min. displacement 600litres/min Free air discharge at 6 bar 500litres/min Max. working pressure 10 bar Motor rating 4kW Air receiver volume 200 liter With: PVC hose 2x1m with quick co Air pump nozzle with pressure gauge 0-10 bar Air gun for cleaning Air impact tool, hammering screwdriver 1/2" socket, 8000rpm Air filing grinder with 3, 6mm collets, shank dia 6mm, 25000 rpm speed air drilling machine, chuck capacity 13mm. Luna Code: 9535-0104	0	0	0	0	Set	1,785.00	0.00	
03-04-01277	Welding rectifier, 3 phase 380V, max power requirement 15.4 kVA. Adjustment range 30-250A With: Set of cables 2x10m, 35mm ² core Luna Code: 4309-0109	0	0	0	0	Set	927.00	0.00	
03-04-01278	Gas welding Equipment to cut materials 1-150mm and weld materials 1-15mm, including Gas Tube Trolley for oxygen and acetylene cylinders, max load 150kg 2 Pressure Reducing Valves Gas Spanner for opening and regulating cylinders Burner Handle with non-return valve and quick release coupling Welding Heads for 160, 315, 500, 800, 1250, 1800, 2000 litres Cutter insert with wheel control valve Cutter insert with lever control valve Cutter tips for 10, 20, 50, 100, 150mm stock thickness 2 wheeled cutter stud Cleaning needles Twin Hose, 10m, int. dia 6mm Luna Code: 5604-0108	0	0	0	0	Set	530.00	0.00	
03-04-01279	Grease Gun, pneumatic, 500cm ³ capacity for cartridges or bulk grease. Luna Code: 5038-0104	0	0	0	0	Set	121.00	0.00	
03-04-01280	Fixed spout oil can, 0.175 litres Luna Code: 5816-0102	0	0	0	0	Set	5.00	0.00	
03-04-01281	Drum Pump, rotating hand pump for petrol etc. 30 litres/min for 200 litre drums, with 2m flexible outlet hose Luna Code: 6476-0101	0	0	0	0	Set	77.00	0.00	
03-04-01282	Bolt Cutter, length 760mm, max. cutting material 13mm Luna Code: 8420-0302	0	0	0	0	Set	123.00	0.00	
03-04-01283	Oil Measuring cans 0.5 litre, 1.0 litre, 2.0 litre, 5.0 litre Luna Code: 5998	0	0	0	0	Set	22.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01284	Funnel, 2 no dia. 75mm and dia. 200mm Luna Code: 3335	0	0	0	0	Set	1.50	0.00	
03-04-01285	Protective Clothing Including: Welding Gloves, leather 10 pair. Welding Screen with 10 spare glasses 2 no. Welding Goggles, DIN 5A 2 no. Anti-mist protective goggles 5 no. Leather Work Gloves 10 pair	0	0	0	0	Set	100.00	0.00	
03-04-01286	Soldering Gun, 65W with cutting, flat and chisel bits Luna Code: 7306-0162	0	0	0	0	Set	38.00	0.00	
03-04-01287	Soldering Iron, 120W with angled bit Luna Code: 8274-0325	0	0	0	0	Set	40.00	0.00	
03-04-01288	Portable Electric Drill, 2 speed variable, 220V Chuck Capacity 1-13mm Spindle Speed up to 2100rpm Rating 500W Luna Code: 4088-0106	0	0	0	0	Set	243.00	0.00	
03-04-01289	Angle Grinder for 125mm dia discs Spindle Speed 1000rpm Rating 800W Luna Code: 4120-0106	0	0	0	0	Set	198.00	0.00	
03-04-01290	Angle Grinder for 230mm dia discs Spindle Speed 6000rpm Rating 2300W Luna Code: 4121-0204	0	0	0	0	Set	510.00	0.00	
03-04-01291	Ratchet Lever Puller Hoist, max load 15 tonnes, lifting height 1.5m Luna Code: 3792-1152	0	0	0	0	Set	286.00	0.00	
03-04-01292	Rapid Action Chain Block, max load 30tonnes, lift 3m Luna Code: 3786-0509	0	0	0	0	Set	500.00	0.00	
03-04-01293	Hydraulic Jacks: 4 tonne, lifting height 120mm 10 tonne, lifting height 140mm 30 tonne, lifting height 180mm	0	0	0	0	Set	266.00	0.00	
03-04-01294	Hydraulic and pneumatic trolley jack, 5 tonne Luna Code: 0999-0706	0	0	0	0	Set	810.00	0.00	
03-04-01295	Axel Stands, 10 tonnes , 5 tonnes Luna Code: 3826-0600 & 3826-0501	0	0	0	0	Set	140.00	0.00	
03-04-01296	Wheel Barrow, 100 litre Luna Code: 6947-0300	0	0	0	0	Set	74.00	0.00	
03-04-01297	TOYOTA PICKUP Double cabin, 4 WD, long wheel base 2700 cc petrol engine, 5-speed floor shift, colour-white, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue	0	0	0	0	Set	11,018.33	0.00	98/4276 CJX 98 0562
03-04-01298	Same as item 114 but single cabin	0	0	0	0	Set	10,000.00	0.00	
03-04-01299	Tractor with closed cabinett with trailerType Massef Fargason	0	0	20	20	Set	7,805.00	156,100.00	98/4251 CCX 98 2806
03-04-01300	Spare parts for Sanitary vehicles *	0	0	0	0	Set	0.00	0.00	
Sub-Total:							1,489,100.00		
Primary Shipping Cost (15%):							223,365.00		
Levy (3%):							44,673.00		
Grand-Total:							1,757,138.00		

C) DOHUK GOVERNORATE, URBAN & SEMI-URBAN WATER SUPPLIES

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES									
WATER TREATMENT AND TESTING									
1. Water Treatment Chemicals									
Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01357	UNICEF Commodity Code: 342315 Chlorine gas (purity 99.7%) in one tonne cylinder (empty cylinders will be provided by the Iraqi government) including repairing of old chlorine cylinders before refilling.	70	0	0	70	Ton	425.00	29,750.00	97/4074 CCX 972881
03-04-01358	UNICEF Commodity Code: 342315 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.	4	0	0	4	Ton	470.00	1,880.00	97/4074 CCX 972881
03-04-01359	UNICEF Commodity Code: 482850 Aluminum sulphate for purifying water, AL2O3 =16.5% Min, FE2O3=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.	10	0	0	10	Ton	177.00	1,770.00	98/4024 CCX 981814
Sub-Total								33,400.00	
Primary Shipping Cost (15%)								5,010.00	
Levy (3%)								1,002.00	
Grand-Total								39,412.00	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES

WATER TREATMENT AND TESTING

2. Water Treatment Equipment

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01360	UNICEF Commodity Code: 439411 Chlorine solution dosing pump, KM 220-1, capacity l/hr = 24, Back pressure = 10 Bar, Strokes (No Load) = 120, , 240 V, single phase, 50 Hz, 1,500 RPM. With O&M manuals and spare parts catalogue in Arabic/English. From PORTACEL LIMITED, Cannon Lane, Tonbridge, Kent, England. Tel: Tonbridge(0732)364411 Telex: 95467(Portac G)	20	0	0	20	Set	970.00	19,400.00	97-4126 CCX 983559
03-04-01361	UNICEF Commodity Code: 439411 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 HOSE/PIPE TO BE SUPPLIED SEPRATELY FOR EACH UNIT	0	0	0	0	Set	1,594.84	0.00	98/4023 CCX 981591
03-04-01362	UNICEF Commodity Code: 439411 Same as item 2, capacity = 500 g/hr	5	0	0	5	Set	3,996.40	19,982.00	
03-04-01379	UNICEF Commodity Code: 439411 Aluminum Sulphate 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 operation and O&M manual in English/ Arabic with parts catalogue.	2	0	0	2	Set	1,209.00	2,418.00	97-4070 CCX 971510
03-04-01413	Same as item No. 10, Vertical Multistage booster pump for chlorination purpose. Q=4 cum/hr, H=80 m with electrical drive motor and control panel, 380V, 50Hz, 3 phase with spare parts for two years of operation.	8	0	0	8	Set	3,048.78	24,390.24	
03-04-01414	Spare parts for gas chlorinators type V50 from Wallace and Tiernen Company as follw: Lead gasket part No. P5778	1000	0	0	1000	Each	0.80	800.00	
03-04-01415	Same as item No. 20, Lead gasket part No. P2476	1000	0	0	1000	Each	0.80	800.00	
03-04-01416	Same as item No. 20, Lead gasket part No. P2519	1000	0	0	1000	Each	0.80	800.00	
03-04-01417	Spare parts for gas chlorinators dosing system C111/C113, Vacum regulators 111-202, Capacity 500Gram/Hour to 4000Gram/Hour, from ALLDOS Eichler GmbH. (See ANX-DHK-CHLOR-1).	1	0	0	1	Set	2,800.00	2,800.00	
03-04-01418	Spare parts for gas chlorinators dosing system , Capacity 200Gram/Hour-500Gram/Hour , from ALLDOS Eichler GmbH. (See ANX-DHK-CHLOR-2).	1	0	0	1	Set	2,000.00	2,000.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01419	Spare parts for gas chlorinators dosing system , Capacity 200Gram/Hour-4000Gram/Hour , from ALLDOS Eichler Gmbh. (See ANX-DHK-CHLOR-3).	1	0	0	1	Set	2,500.00	2,500.00	
03-04-01420	Spare parts for gas chlorinators dosing system , Capacity 200Gram/Hour-4000Gram/Hour , from ALLDOS Eichler Gmbh. (See ANX-DHK-CHLOR-4).	1	0	0	1	Set	3,800.00	3,800.00	
03-04-01421	Spare parts for powder chlorinator model G020-511M, capacity 22L/Hour, Head presure 12 bar, from DOSAPRO MILTON ROY. B.P.S 27360 point-Saint-Pieree, France. See (ANX-DHK-CHLOR-5)	1	0	0	1	Set	2,500.00	2,500.00	
03-04-01422	Spare parts for booster pumps for chlorination systems, type 50 FP 5E, capacity 4M3/Hour, Head 120M, from Ingersoll Dresser Pumps, France. See (ANH-DHK-CHLOR-6).	1	0	0	1	Set	10,000.00	10,000.00	
Sub-Total								92,190.24	
Primary Shipping Cost (15%)								13,828.54	
Levy (3%)								2,765.71	
Grand-Total								108,784.48	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES
WATER TREATMENT AND TESTING

3. Pipes and Specials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-01423	UNICEF Commodity Code: 412713 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, socketed 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.	2000	0	0	2000	Each	14.77	29,540.00	98/4022 CCX 981485
03-04-01424	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 3.0 inch	2500	0	0	2500	Each	24.44	61,100.00	
03-04-01425	UNICEF Commodity Code: 412713 Same as item 1, PN 25, size 4.0 inch	2500	0	0	2500	Each	34.74	86,850.00	
03-04-01427	Unicef Commodity code 432417 Brass gate valve set with hand wheel, clockwise closing, FxF, threaded to BS21 (ISO R7), size 2.0 inch, PN 25. Food quality.	100	0	0	100	Each	13.34	1,334.00	98/4022 CCX 982538
03-04-01428	Unicef Commodity code 432417 Same as item 2, size 3.0 inch, PN 20.	100	0	0	100	Each	15.91	1,591.00	
03-04-01429	Unicef Commodity code 432417 Same as item 2, size 4.0 inch, PN 16.	75	0	0	75	Each	24.28	1,821.00	
03-04-01431	Unicef Commodity code 432417 Brass non-return valve set, FxF, threaded to BS21 (ISO R7), PN 20, size 2.0 inch. Food quality.	0	0	0	0	Each	7.10	0.00	98/4022 CCX 982538
03-04-01432	Unicef Commodity code 432417 Same as item 3, size 3.0 inch, PN 18	10	0	0	10	Each	22.42	224.20	
03-04-01433	Unicef Commodity code 432417 Same as item 3, size 4.0 inch, PN 16	20	0	0	20	Each	35.29	705.80	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01435	UNICEF Commodity Code: 412837 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.	0	0	0	0		0.00	0.00	
03-04-01436	Unicef Commodity Code: 412837 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.	100	0	0	100	Each	1.01	101.00	98/4022 CCX 982538
03-04-01437	Unicef Commodity Code: 412837 Same as item 4, size 3.0 inch, PN 25	100	0	0	100	Each	2.71	271.00	
03-04-01438	Unicef Commodity Code: 412837 Same as item 4, size 4.0 inch, PN 25	100	0	0	40	Each	4.91	196.40	
03-04-01440	Unicef Commodity Code: 412837 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.	100	0	0	100	Each	1.27	127.00	98/4022 CCX 982046
03-04-01441	Unicef Commodity Code: 412837 Same as item 5, size 3.0 inch, PN 25	100	0	0	100	Each	3.58	358.00	
03-04-01442	Unicef Commodity Code: 412837 Same as item 5, size 4.0 inch, PN 25	100	0	0	100	Each	6.46	646.00	
03-04-01444	Unicef Commodity Code: 412837 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.	100	0	0	100	Each	1.96	196.00	98/4022 CCX 982046
03-04-01445	Unicef Commodity Code: 412837 Same as item 6, size 3.0 inch, PN 25	100	0	0	100	Each	5.38	538.00	
03-04-01446	Unicef Commodity Code: 412837 Same as item 6, size 4.0 inch, PN 25	100	0	0	100	Each	10.22	1,022.00	
03-04-01448	Unicef Commodity Code: 412837 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	0	0	0	0	Each	44.88	0.00	CCX 971707
03-04-01451	Unicef Commodity Code: 412837 Same as item 7, size 4.0 x 3.0 inch.	50	0	0	50	Each	3.93	196.50	98/4022 CCX 981902
03-04-01452	Unicef Commodity Code: 412837 Same as item 7, size 4.0 x 2.0 inch	50	0	0	50	Each	3.93	196.50	
03-04-01453	Unicef Commodity Code: 412837 Same as item 7, size 3.0 x 2.0 inch	50	0	0	50	Each	2.13	106.50	
03-04-01454	Unicef Commodity Code: 412835 Viking Johnson coupling for 90 mm, PN 25, Standard length pipe	50	0	0	50	Each	21.23	1,061.50	
03-04-01455	Unicef Commodity Code: 412835 Same as item 8 but for 110 mm pipe.	50	0	0	50	Each	32.86	1,643.00	
03-04-01456	Unicef Commodity Code: 412835 Same as item 8 but for 160 mm pipe.	50	0	0	50	Each	21.00	1,050.00	
03-04-01457	V. J. Easi clamps for 90 mm, PN 25, Standard length pipe	25	0	0	25	Each	15.00	375.00	
03-04-01458	Same as item 9 but for 110 mm pipe.	25	0	0	25	Each	20.00	500.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01459	Same as item 9 but for 160 mm pipe.	25	0	0	25	Each	30.00	750.00	
03-04-01460	Same as item 9 but for 220 mm pipe.	25	0	0	25	Each	50.00	1,250.00	
03-04-01461	Unicef Commodity Code: 412834 Stainless steel repair clamps, quality A131304 with waffled rubber seal according to DIN 3535. Double section for 80 mm pipe. PN 24.	0	0	0	0	Each	40.53	0.00	98/4022 CCX 981903
03-04-01467	Unicef Commodity Code: 412712 Ductile iron pipe with rubber gasket joints (Tyton joints) with rubber gaskets, 6 metres nominal length, 3 inch diameter. PN 25	0	0	0	0	Each	50.66	0.00	98/4022 CCX 981903
03-04-01468	Unicef Commodity Code: 412712 Same as item 11 but 4 inch dia.	500	0	0	500	Each	55.00	27,500.00	
03-04-01469	Unicef Commodity Code: 412712 Same as item 11 but 6 inch dia.	500	0	0	500	Each	95.33	47,665.00	
03-04-01470	Unicef Commodity Code: 412712 Same as item 11 but 8 inch dia.	500	0	0	500	Each	117.73	58,865.00	
03-04-01471	Unicef Commodity Code: 412712 Same as item 11 but 10 inch dia.	800	0	0	800	Each	150.05	120,040.00	
03-04-01472	Unicef Commodity Code: 412712 Same as item 11 but 12 inch dia.	200	0	0	200	Each	202.27	40,454.00	
03-04-01473	Unicef Commodity Code: 412712 Same as item 11 but 16 inch dia.	100	0	0	100	Each	260.00	26,000.00	
03-04-01474	Unicef Commodity Code: 412835 Equal elbows for ductile pipes with rubber gasket joints, 90 degree, with rubber gaskets, FxF, 3 inch dia, PN 25.	0	0	0	0	Each	29.14	0.00	98/4022 CCX 98/2137
03-04-01475	Unicef Commodity Code: 412712 Same as item 12 but 4 inch dia.	10	0	0	10	Each	30.92	309.20	
03-04-01476	Unicef Commodity Code: 412712 Same as item 12 but 6 inch dia.	10	0	0	10	Each	40.76	407.60	
03-04-01477	Unicef Commodity Code: 412712 Same as item 12 but 8 inch dia.	10	0	0	10	Each	51.16	511.60	
03-04-01478	Unicef Commodity Code: 412712 Same as item 12 but 10 inch dia.	10	0	0	10	Each	164.08	1,640.80	
03-04-01479	Unicef Commodity Code: 412712 Same as item 12 but 12 inch dia.	10	0	0	10	Each	197.25	1,972.50	
03-04-01480	Unicef Commodity Code: 412835 Equal elbows for ductile pipes with rubber gasket joints, 45 degree, with rubber gaskets, FxF, 3 inch diam, PN 25.	0	0	0	0	Each	21.19	0.00	98/4022 CCX 98/2137
03-04-01481	Unicef Commodity Code: 412835 Same as item 13 but 4 inch diam	10	0	0	10	Each	22.89	228.90	
03-04-01482	Unicef Commodity Code: 412835 Same as item 13 but 6 inch diam	10	0	0	10	Each	35.29	352.90	
03-04-01483	Unicef Commodity Code: 412835 Same as item 13 but 8 inch diam	10	0	0	10	Each	58.62	586.20	
03-04-01484	Unicef Commodity Code: 412835 Same as item 13 but 10 inch diam	10	0	0	10	Each	154.55	1,545.50	
03-04-01485	Unicef Commodity Code: 412835 Same as item 13 but 12 inch diam	10	0	0	10	Each	171.70	1,717.00	
03-04-01486	Unicef Commodity Code: 412835 Equal Tees for ductile pipes with rubber gasket joints, with rubber gaskets, FxFxF, 3 inch diam, PN 25.	0	0	0	0	Each	23.10	0.00	98/4007 CCX 982126
03-04-01487	Unicef Commodity Code: 412835 Same as item 14 but 4 inch diam	20	0	0	20	Each	31.50	630.00	
03-04-01488	Unicef Commodity Code: 412835 Same as item 14 but 6 inch diam	20	0	0	20	Each	50.40	1,008.00	
03-04-01489	Unicef Commodity Code: 412835 Same as item 14 but 8 inch diam	10	0	0	10	Each	79.80	798.00	
03-04-01490	Unicef Commodity Code: 412835 Same as item 14 but 10 inch diam	10	0	0	10	Each	128.10	1,281.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01491	Unicef Commodity Code: 412835 Same as item 14 but 12 inch diam	5	0	0	5	Each	80.00	400.00	
03-04-01492	Unicef Commodity Code: 412835 Ductile Tee Socket with rubber, 4x3 inch dia, PN 25.	0	0	0	0	Each	47.48	0.00	
03-04-01493	Unicef Commodity Code: 412835 Same as item 15 but 6x4 inch dia	10	0	0	10	Each	39.97	399.70	98/4022 CCX 98 2137
03-04-01495	Unicef Commodity Code: 412835 Same as item 15 but 6x6 inch dia	15	0	0	15	Each	47.48	712.20	
03-04-01496	Unicef Commodity Code: 412835 Same as item 15 but 8x8 inch dia	5	0	0	5	Each	73.89	369.45	
03-04-01497	Unicef Commodity Code: 412835 Same as item 15 but 8x6 inch dia	5	0	0	5	Each	51.66	258.30	
03-04-01498	Unicef Commodity Code: 412835 Same as item 15 but 8x4 inch dia	10	0	0	10	Each	47.37	473.70	
03-04-01500	Unicef Commodity Code: 412835 Same as item 15 but 10x4 inch dia	5	0	0	5	Each	200.00	1,000.00	
03-04-01501	Unicef Commodity Code: 412835 Same as item 15 but 10x6 inch dia	5	0	0	5	Each	300.00	1,500.00	
03-04-01502	Unicef Commodity Code: 412835 Same as item 15 but 10 x 8 inch dia	5	0	0	5	Each	400.21	2,001.05	
03-04-01503	Unicef Commodity Code: 412835 Parallel reducers for ductile pipes with rubber gasket joints, with rubber gaskets, FxF, 20x20 inch dia, PN 25.	2	0	0	2	Each	200.00	400.00	
03-04-01504	Unicef Commodity Code: 412835 Same as item 16 but 12 x 10 inch dia	2	0	0	2	Each	67.20	134.40	98/4022 CCX 98 2137
03-04-01505	Unicef Commodity Code: 412835 Same as item 16 but 12 x 8 inch dia	2	0	0	2	Each	71.40	142.80	
03-04-01506	Unicef Commodity Code: 412835 Same as item 16 but 12 x 6 inch dia	2	0	0	2	Each	73.50	147.00	
03-04-01507	Unicef Commodity Code: 412835 Same as item 16 but 12 x 4 inch dia	2	0	0	2	Each	120.12	240.24	CCX 972291
03-04-01508	Unicef Commodity Code: 412835 Same as item 16 but 10 x 8 inch dia	2	0	0	2	Each	50.40	100.80	CCX 972291
03-04-01509	Unicef Commodity Code: 412835 Same as item 16 but 10 x 6 inch dia	2	0	0	2	Each	52.50	105.00	CCX 972291
03-04-01510	Unicef Commodity Code: 412835 Same as item 16 but 10 x 4 inch dia	2	0	0	2	Each	85.47	170.94	CCX 972291
03-04-01511	Unicef Commodity Code: 412835 Same as item 16 but 8 x 6 inch dia	2	0	0	2	Each	35.70	71.40	CCX 972291
03-04-01512	Unicef Commodity Code: 412835 Same as item 16 but 8 x 4 inch dia	2	0	0	2	Each	37.80	75.60	CCX 972291
03-04-01514	Unicef Commodity Code: 412835 Same as item 16 but 6 x 4 inch dia	2	0	0	2	Each	25.20	50.40	CCX 972291
03-04-01516	Unicef Commodity Code: 412835 Same as item 16 but 4 x 3 inch dia	2	0	0	2	Each	14.70	29.40	CCX 972290
03-04-01517	Unicef Commodity Code: 412835 Equal sockets for ductile pipes with rubber gasket joints, FxF, 4 inch dia, PN 25.	5	0	0	5	Each	67.68	338.40	CCX 972290
03-04-01518	Unicef Commodity Code: 412835 Same as item 17 but 6 inch dia	4	0	0	4	Each	108.12	432.48	CCX 972290
03-04-01519	Unicef Commodity Code: 412835 Same as item 17 but 8 inch dia	2	0	0	2	Each	138.45	276.90	CCX 972290
03-04-01520	Unicef Commodity Code: 412835 Same as item 17 but 10 inch dia	2	0	0	2	Each	160.00	320.00	CCX 972290
03-04-01521	Unicef Commodity Code: 412835 Same as item 17 but 12 inch dia	2	0	0	2	Each	200.00	400.00	CCX 972290
03-04-01522	Unicef Commodity Code: 412835 Same as item 17 but 16 inch dia	2	0	0	2	Each	260.00	520.00	98/4007 CCX 98 2126

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01525	Unicef Commodity Code: 412835 Same as item 18 but 4 inch dia	10	0	0	10	Each	32.93	329.30	
03-04-01526	Unicef Commodity Code: 412835 Same as item 18 but 6 inch dia	10	0	0	10	Each	45.83	458.30	
03-04-01527	Unicef Commodity Code: 412835 Same as item 18 but 8 inch dia	10	0	0	10	Each	60.43	604.30	
03-04-01528	Unicef Commodity Code: 412835 Same as item 18 but 10 inch dia	10	0	0	10	Each	121.19	1,211.90	
03-04-01529	Unicef Commodity Code: 412835 Same as item 18 but 12 inch dia	10	0	0	10	Each	174.33	1,743.30	98/4022 CCX 98 2137
03-04-01533	Ductile Iron Adaptors from socket unit rubber joint to , PN 25 flanged end, 3 inch dia	0	0	0	0	Each	10.00	0.00	
03-04-01534	Same as item 19, 4 inch dia	10	0	0	10	Each	12.00	120.00	
03-04-01535	Same as item 19, 6 inch dia	10	0	0	10	Each	24.00	240.00	
03-04-01536	Same as item 19, 8 inch dia	10	0	0	10	Each	39.00	390.00	
03-04-01537	Same as item 19, 10 inch dia	10	0	0	10	Each	54.00	540.00	
03-04-01538	Same as item 19, 12 inch dia	10	0	0	10	Each	80.00	800.00	
03-04-01544	Unicef Commodity Code: 412835 Bolted flanged spigot joint for ductile pipes, with bolts, nuts & gaskets, 3 inch dia, PN 25, ISO flanges	0	0	0	0	Each	23.36	0.00	
03-04-01545	Unicef Commodity Code: 412835 Same as item 20 but 4 inch dia	10	0	0	10	Each	25.92	259.20	
03-04-01546	Unicef Commodity Code: 412835 Same as item 20 but 6 inch dia	10	0	0	10	Each	37.01	370.10	
03-04-01547	Unicef Commodity Code: 412835 Same as item 20 but 8 inch dia	10	0	0	10	Each	64.13	641.30	
03-04-01548	Unicef Commodity Code: 412835 Same as item 20 but 10 inch dia	10	0	0	10	Each	100.00	1,000.00	
03-04-01549	Unicef Commodity Code: 412835 Same as item 20 but 12 inch dia	10	0	0	10	Each	140.00	1,400.00	
03-04-01555	Unicef Commodity Code: 412835 Flanged gate valves for ductile pipes with bolts, nuts & gaskets, 3 inch dia, PN 25, ISO flanges	0	0	0	0	Each	180.48	0.00	
03-04-01556	Unicef Commodity Code: 412835 Same as item 21 but 4 inch dia	50	0	0	50	Each	188.77	9,438.50	
03-04-01557	Unicef Commodity Code: 412835 Same as item 21 but 6 inch dia	25	0	0	25	Each	296.85	7,421.25	
03-04-01558	Unicef Commodity Code: 412835 Same as item 21 but 8 inch dia	5	0	0	5	Each	711.98	3,559.90	
03-04-01559	Unicef Commodity Code: 412835 Same as item 21 but 10 inch dia	5	0	0	5	Each	759.06	3,795.30	
03-04-01560	Unicef Commodity Code: 412835 Same as item 21 but 12 inch dia	2	0	0	2	Each	956.24	1,912.48	98/4022 CCX 98 2092
03-04-01566	Unicef Commodity Code: 432417 Flanged, non-return valves for ductile pipes with bolts, nuts & gaskets, PN 25, ISO flanges, 3 inch diameter.	0	0	0	0	Each	79.90	0.00	
03-04-01567	Unicef Commodity Code: 432417 Same as item 22 but 4 inch dia	10	0	0	10	Each	87.80	878.00	
03-04-01568	Unicef Commodity Code: 432417 Same as item 22 but 6 inch dia	10	0	0	10	Each	176.00	1,760.00	
03-04-01569	Unicef Commodity Code: 432417 Same as item 22 but 8 inch dia	10	0	0	10	Each	407.50	4,075.00	
03-04-01570	Unicef Commodity Code: 432417 Same as item 22 but 10 inch dia	2	0	0	2	Each	695.00	1,390.00	
03-04-01571	Unicef Commodity Code: 432417 Same as item 22 but 12 inch dia	2	0	0	2	Each	1,089.00	2,178.00	98/4022 CCX 98 2110
03-04-01573									
03-04-01574	Unicef Commodity Code: 432417 Flanged air valves for ductile pipes with bolts, nuts & gaskets, 4 inch dia, PN 25, ISO flanges	10	0	0	10	Each	218.00	2,180.00	
03-04-01575	Unicef Commodity Code: 432417 Flanged foot valves with strainers 4 inch dia	0	0	0	0	Each	72.37	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01576	Unicef Commodity Code: 432417 Same as item 24 but 16 inch dia	2	0	0	2	Each	350.00	700.00	
03-04-01577	Unicef Commodity Code: 413835 Surface box for roadways	0	0	0	0	Each	7.13	0.00	
03-04-01578	Unicef Commodity Code: 413835 Blank flanges for 100 mm dia ductile pipes	0	0	0	0	Each	10.98	0.00	
03-04-01579	Mild steel GS riser pipes 3 inch dia, 3 m long	0	0	0	0	Each	14.00	0.00	98/4022 CCX 98 2137
03-04-01580	UNICEF Commodity Code: 432512 Casing pipe, mild steel, commercial grade st-37 as per DIN 17100, food grade, for lining of water borehole One end male threaded, heavy duty female socket on the other end , To be produced according to DIN 4922 in lengths of 6 m, outer diameter 8 5/8 inch.	200	0	0	200	Each	140.00	28,000.00	
03-04-01581	UNICEF Commodity Code: 432512 As in item 28 but pipe with slots of 2.3 mm width, length of 6 m, outer diameter 8 5/8 inch	70	0	0	70	Each	160.00	11,200.00	
03-04-01582	Steel spiral welded pipes size 500mm, thickness 8mm, PN 25 bar, each 6m length for suction line.	0	0	0	0	Each	300.00	0.00	
03-04-01583	Steel spiral welded pipes size 400mm, thickness 10mm, PN 40 bar, each 6m length for suction line.	0	0	0	0	Each	240.00	0.00	
03-04-01584	Electrically operated flanged gate valve with bolts, nuts and gaskets size 400mm for the delivery line to control the quantity of pumped water, PN 40 bar, with all electrical accessories.	2	0	0	2	Each	2,000.00	4,000.00	
03-04-01585	Flanged gate valve size 500mm with bolts, nuts and gaskets for the suction line, PN 25	2	0	0	2	Each	1,800.00	3,600.00	
03-04-01586	Flanged fast closing spring locked non-returned valve size 400mm with bolts, nuts and gaskets for the delivery line, PN 40	5	0	0	5	Each	2,910.00	14,550.00	98/4038 CCX 983912
03-04-01587	Flexible couplings for jointing steel pipes with the valves. The spigots should be manufactured from steel or malleable iron and shall comprise two glands with bolts and two rubber joints. Size 500mm, PN 25	2	0	0	2	Each	100.00	200.00	
03-04-01588	Flexible couplings for jointing steel pipes with the valves. The spigots should be manufactured from steel or malleable iron and shall comprise two glands with bolts and two rubber joints. Size 400mm, PN 40	2	0	0	2	Each	100.00	200.00	
03-04-01589	Same as item No. 30, Steel spiral welded pipes, size 600MM, PN 20 bars, 12M length	250	0	0	250	Each	880.00	220,000.00	
Sub-Total:								869,479.89	
Primary Shipping Cost (15%):								130,421.98	
Levy (3%):								26,084.40	
Grand-Total:								1,025,986.27	

PROJECT 1: URBAN AND SEMI-URBAN WATER SUPPLIES
WATER TREATMENT AND TESTING

4. Other Materials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01590	Vehicle, pick up double cabin type TOYOTA, made as per Saudi Arabia standards, Containing air conditioning system with radio and tape recorder.	5	0	0	5	Each	11,018.33	55,091.65	98/4276 CJX 98 0562
03-04-01591	Unicef Commodity Code: 452150 Computer, Lap-top, 18 mm thickpad 280XD, model 2635-7AO, pentium 233 MHz, 3.2 Gb hard disk, 32Mb RAM, 3.5" floppy and 24X CD drives.	3	0	0	3	Each	2,187.00	6,561.00	98/4278 NCX 98 0817
03-04-01592	Laser jet printer, HP 6P	3	0	0	3	Each	810.00	2,430.00	98/4279 NCX 98 0818
03-04-01593	Toyota Land_Cruiser pick-up, 4WD, single cab, long wheelbase, color white, including airconditioning, power steering, fire extenguisher FR/RR mud guard, AM/FM radio & tape with export specifications for Iraq with spare parts for two years operation, maintenance kits & English catalogue.	2	0	0	2	Set	13,800.00	27,600.00	
03-04-01594	Toyota pick-up, 2WD, loading capacity 2MTN, single cab, long wheelbase, color white, including airconditioning, power steering, fire extenguisher FR/RR mud guard, AM/FM radio & tape with export specifications for Iraq with spare parts for two years operation, maintenance kits & English catalogue.	1	0	0	1	Set	9,800.00	9,800.00	
03-04-01595	Tyre with internal tubes size 1100 * 20 for water tankers.	40	0	0	40	Set	215.08	8,603.20	CJX 970357
03-04-01596	Same as item No. 6, size 1200 * 20. For Tip trucks.	50	0	0	50	Set	240.62	12,031.00	CJX 970357
03-04-01597	Same as item No. 6, size 1200 24 for Volvo tip trucks.	20	0	0	20	Set	258.47	5,169.40	CJX 970357
03-04-01598	Same as item No. 6, size 17.5 * 25. For Kawasaki Shovel.	5	0	0	5	Set	403.92	2,019.60	CJX 970357
03-04-01599	Same as item No. 6, size 16 * 750.	30	0	0	30	Set	45.07	1,352.10	CJX 970359
03-04-01600	Same as item No. 6, size 15 * 750.	12	0	0	12	Set	71.11	853.32	CJX 970357
03-04-01601	Same as item No. 6, size 14 * 650.	12	0	0	12	Set	36.46	437.52	CJX 970359
03-04-01602	Same as item No. 6, size 900* 20.	20	0	0	20	Set	171.12	3,422.40	CJX 970359
03-04-01603	Same as item No. 6, size 9 * 600 for 2MTN forklifter.	12	0	0	12	Set	73.31	879.72	CJX 970347
03-04-01604	Same as item No. 6, size 15* 9-28 for forklifter.	5	0	0	5	Set	250.00	1,250.00	
03-04-01605	Batttries size 12*19*150 Amp/Hour for tankers & tip trucks.	30	0	0	30	Set	86.06	2,581.80	CJX 971937
03-04-01606	Same as item No. 16, size 12 * 19* 135 Amp/Hour.	50	0	0	50	Set	73.95	3,697.50	CJX 971937
03-04-01607	Same as item No. 16, size 12 * 19* 90 Amp./Hour.	50	0	0	50	Set	52.34	2,617.00	CJX 971937
03-04-01608	Same as item No.1 6, size 12 * 11 * 66 Amp/hour.	15	0	0	15	Set	26.82	402.30	CJX 971937
03-04-01609	Same as item No.16, size 12 * 21 * 200 Amp/Hour for Generators 1250KVA.	20	0	0	20	Set	130.00	2,600.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01610	Water tanker capacity 10000 litter, SCANIA or VOLVO manufacture, with export specifications for Iraq & spare appts for two years operation.	3	0	0	3	Set	85,000.00	255,000.00	
03-04-01611	Desk-top computer: HP Vectra VE P11/333, 333MHz Intel pentium II, 3.2 Gb Hard Disk, 64Mb RAM, 3.5" diskette, 16 BIT audio card, 32X CD ROM, external speakers, preloaded with English + Arabic key board, Win95 and MS Office 7.0	7	0	0	7	Set	1,734.32	12,140.24	97/4278 NCX 980817
03-04-01612	UNICEF Commodity Code: 454200 HP-6L laser jet, with 5 additional toner cartridges.	7	0	0	7	Set	806.32	5,644.24	
03-04-01613	Pre-fabricated compact unit(Treatment plant) of capacity 500CUM/Hour including clarifying tanks, intermediate storage tank, Alum dosers, filters, Chemical strelization & pumps. For more details see (ANX-DHK-COMPACT)	2	0	0	2	Set	320,000.00	640,000.00	
Sub-Total:								1,062,183.99	
Primary Shipping Cost (15%):								159,327.60	
Levy (3%):								31,865.52	
Grand-Total:								1,253,377.11	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES

PUMPS AND ASSOCIATED EQUIPMENT

5. Submersible Pumps and Specials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
		Dhk	Erb	Sul	Total	Unit			
03-04-01614	Unicef Commodity Code: 432287 Submersible pump with direct coupled electrical motor and with non-return valve, control panel, 150 m three core cable and cable termination kit. Q = 10 cum/hr (min), head = 210 m, and should be GrundFos (SP 16-24), with head cover connections for installation in new deep wells, 400 V, 50 Hz, 3 Ph for 6.0 inches cased borewell. TO BE INSTALLED ON NEW BOREWELLS. ALL CABLES TO BE PACKED SEPRATELY WITH EACH PUMP.	3	0	0	3	Set	4,288.00	12,864.00	98/4020 CCX 98 1463
03-04-01615	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=135M (max), (SP 27-14).	2	0	0	2	Set	4,034.00	8,068.00	98/4020 CCX 98 1470
03-04-01616	Unicef Commodity Code: 432287 Same as item No.1, Q=14cum/hr (min), head=270 M (max), (SP 27-28).	2	0	0	2	Set	5,645.00	11,290.00	98/4020 CCX 98 1470
03-04-01617	Unicef Commodity Code: 432287 Same as item No.1, Q=16 cum/hr (min), head=280 M (max), (SP 25-30).	2	0	0	2	Set	4,500.00	9,000.00	
03-04-01618	Unicef Commodity Code: 432287 Same as item No.1, Q=22cum/hr (min), head=310M (max), (SP 46-23).	2	0	0	2	Set	7,438.00	14,876.00	
03-04-01619	Unicef Commodity Code: 432287 Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH.Capacity 5.5 KW	0	0	0	0	Set	1,200.00	0.00	
03-04-01620	Unicef Commodity Code: 432287 Same as item 9 but capacity 11 KW for SP 27-11	5	0	0	5	Set	1,887.00	9,435.00	98/4016 CCX 98 1828
03-04-01621	Unicef Commodity Code: 432287 Same as item 9 but capacity 18.5KW for SP 46-15	2	0	0	2	Set	2,334.00	4,668.00	
03-04-01622	Unicef Commodity Code: 432287 Same as item 9 but capacity 22.0KW for SP 27-28	3	0	0	3	Set	8,304.00	24,912.00	
03-04-01623	Unicef Commodity Code: 432287 Same as item 9 but capacity 30.0KW for SP 45-21	2	0	0	2	Set	3,678.00	7,356.00	
03-04-01624	Unicef Commodity Code: 462380 Flexible electrical power cable for deep well submersible motors size 3x16 mm2	0	0	0	0	M.L.	3.13	0.00	
03-04-01625	Unicef Commodity Code: 462380 Same as item 10 but size 3x10 mm 2	1000	0	0	1000	M.L.	2.17	2,170.00	
03-04-01626	Unicef Commodity Code: 462380 Same as item 10 but size 3x6 mm2	1000	0	0	1000	M.L.	1.24	1,240.00	98/4020 CCX 98 1425

		Dhk	Erb	Sul	Total	Unit			
03-04-01627	Unicef Commodity Code: 432287 Control panel for submersible 11.00 KW motor with main switch circuit breaker phase failure relay, timer relay, over load relay, ammeter, and voltmeter, 380 Volt, 50 Hz, 3 PH, auto-transformer starter.	0	0	0	0	Set	1,371.00	0.00	
03-04-01628	Unicef Commodity Code: 432287 Same as item 11 but for 22.00 KW capacity motor	4	0	0	4	Set	1,527.00	6,108.00	98/4020 CCX 98 1463
03-04-01629	Unicef Commodity Code: 432287 Same as item No.1, complete set of submersible pump, Q=2cum/hr (min), head=200 M (max), (SP 8A- 37).	2	0	0	2	Set	3,400.00	6,800.00	
03-04-01630	Unicef Commodity Code: 432287 (motor for submersible pump) Same as item 9 but capacity 3.7 KW.	5	0	0	5	Set	1,100.00	5,500.00	
03-04-01631	Unicef Commodity Code: 432287 (motor for submersible pump) Same as item 9 but capacity 75 KW for SP 77-19.	3	0	0	3	Set	4,500.00	13,500.00	
03-04-01632	Submersible pump with direct coupled electrical motor complete set, type Pleuger(West Germany), three phase, 380-400volt, 50HZ, 1450 RPM, Q= 600CUM/H, H=40M. Each pump should be supplied with suitable size of submersible cable 100M length with electrical joints for connecting cable. Should be delivered with Non-return valve & delivery valve. each be should be supplied with suitable star-delta starter with all protection units.	3	0	0	3	Set	55,000.00	165,000.00	same item of SCF98-4005 CCX981597 but with deffirent specifications .
03-04-01633	Motor set for the submersible pump type plueger Q=750M3/H, H=70M, procured under SCF98- 4005, CCX981597 for Dohuk. Capacity of motor is 180KW, 380- 400V, 1450RPM with tail cable & cable joints.	2	0	0	2	Set	25,000.00	50,000.00	
Sub-Total:								352,787.00	
Primary Shipping Cost (15%):								52,918.05	
Levy (3%):								10,583.61	
Grand-Total:								416,288.66	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

6. Vertical Turbine Pumps

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-01634	UNICEF Commodity Code: 432254 Deepwell turbine pump complete with body(bowls and impellers), discharge coloumn(Coloum pipe elements and lineshaft), drivehead (electric motor), capacity Q=14cum/hr(min), head=160M (max), preferably BP27-16 type from Grundfos. Complete with bowl assembly, pump head and discharge flange with 3 inch BSP thread, electric motor 3x380/660V, 50Hz, (RPM 2900) 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 operatoin, O&M manual in English with appropriate packings.	2	0	0	2	Set	8,216.31	16,432.62	98/4015 CCX 98 2121
03-04-01635	Same as item (1), Q=22cum/hr (min), H=165m (max), (BP 45-16)	1	0	0	1	Set	8,394.71	8,394.71	98/4015 CCX 98 2121
03-04-01636	Vertical motor complete set for Grundfos vertical turbine pumps, 380V, 50Hz, 2900 rpm, 3PH and capacity 15KW.	1	0	0	1	Each	452.41	452.41	98/4015 CCX 98 7171
03-04-01637	Same as item 2 but capacity 22KW	1	0	0	1	Each	653.27	653.27	
03-04-01638	Driver for Grunfos vertical turbine pump type BP 16/27/45 size 3/4 inch	8	0	0	8	Each	23.45	187.60	98/4015 CCX 98 1757
03-04-01639	Same as item 8 but size 5/8 inch	8	0	0	8	Each	23.45	187.60	
03-04-01640	Same as item 8 but size 7/8 inch	8	0	0	8	Each	30.35	242.80	
03-04-01641	Diesel engine for operating vertical turbine pump complete set with clutch, MWM D-3011; max altitude 1,200m.	0	0	0	0	Set	4,107.00	0.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01642	UNICEF Commodity Code: 432253 Deep well diesel turbine pumping system, operating at 2,900 RPM for pumping clean water to fit in a 8 inch bore well, Q=10 cum/hr and head = 120 M at 1,200 metres altitude/elevation, 50 deg centigrade complete set with pump head, discharge flange, right angle gear drive connected to engine by universal shaft. Air or water cooled diesel engine unit with industrial clutch, electric starter, heavy duty oil bath, air cleaner, speed governor, silencer exhaust pipe, mounted fuel tank, with column pipes and line shafts, foot valve with strainer, water level indicator, tool-kit, spare parts for 2 years operation, O&M manual in English and spare parts catalogue with appropriate seaworthy packing. Please note that temperatures in summer exceeds 50 degree Celsius and reaches -15 degree Celsius in winter, with well head connections and accessories.	3	0	0	3	Set	8,355.00	25,065.00	CCX 98-2722
03-04-01643	Same as item 17, but BP 16-16, Q=10CUM/H (min), H=160M (max).	4	0	0	4	Set	8,400.00	33,600.00	
Sub-Total								85,216.01	
Primary Shipping Cost (15%):								12,782.40	
Levy (3%):								2,556.48	
Grand-Total:								100,554.89	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

7. Booster Pumps and Spare Parts

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01644	Spare parts for booster pumps size & type 201 NMC, Q=390M3/H, H=320M, 6 stages, From Ingersoll Dresser Pumps(France). S/N=SP17200048-02. See(ANX-DHK-BOOSTER-1)	1	0	0	1	Set	13,000.00	13,000.00	
03-04-01645	Spare parts for booster pumps size & type 202 NML, Q=500M3/H, H=175M, S/N=SP17200048-01 From Ingersoll Dresser pumps (France) See(ANX-DHK-BOOSTER-2)	1	0	0	1	Set	9,500.00	9,500.00	
03-04-01646	Spare parts for booster pumps size & type 202 FP 4E , Q=200M3/H, H=170M, 6 stages, S/N=SP17200048-01. From Ingersoll Dresser Pumps (France) (See(ANX-DHK-BOOSTER-3).				4	Each*	9,500.00	9,500.00	
03-04-01647	Spare parts for booster pumps size & type MEM 200-150-400L, Q=420M3/H, H=60M, S/N=SP17200023-02/1. From Ingersoll Dresser Pumps (France). See(ANX-DHK-BOOSTER-4)	1	0	0	1	Set	10,000.00	10,000.00	
03-04-01648	Spare parts for booster pumps size & type 152FP 4M, Q=150M3/H, H=120M, S/N=SP17200023-04/1. From ingersoll Dresser Pumps (France). See(ANX-DHK-BOOSTER-5)	1	0	0	1	Set	9,000.00	9,000.00	
03-04-01649	Spare parts for booster pumps size & type 152 NM3L, Q=350M3/H, H=100M, S/N=SP17200023-07/2. From Ingersoll Dresser pumps. See(ANX-DHK-BOOSTER-6)	1	0	0	1	Set	8,000.00	8,000.00	
03-04-01650	Spare parts for booster pumps size & type 150-125- 400FLP, Q=150M3/H, H=60M, S/N=SP17200023-08/2. From Ingersoll Dresser Pumps (France).See(ANX-DHK-BOOSTER-7).	1	0	0	1	Set	8,000.00	8,000.00	
03-04-01651	Spare parts for motor for booster pumps, type LS 315 MR-T, Capacity 132KW, No. 132684HH001. From Ingersoll Dresser Pumps (France). See(ANX-DHK-BOOST)	1	0	0	1	Set	3,500.00	3,500.00	
03-04-01652	Spare parts for motor for booster pumps, type LS 355, Capacity 355, No. 903289 DIH KO1. From Ingersoll Dresser Pumps (France). See (ANX-DHK-BOOSTER-9)	1	0	0	1	Set	3,500.00	3,500.00	

* amended 4 August 99

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01653	Centrifugal multi stage booster pump for pumping treated water. Q=500 cum/hr, H=120m Coupled with electrivcal driven motor . Thermol senser to be provided for monitoring bearinge tempreture, with mechanical sealing in bothy sides with soft starter and automatic circuit breaker connection and with control panel. 380V, 50Hz, 3 phases, max altitude 1,000m and necessary valves, non-return valves, flanges, elbows, reducers for new installation, cable to be be packed separatly with the set. Should be from Ingersoll Dresser Pumps (France).	3	0	0	3	Set	70,000.00	210,000.00	
0								284,000.00	
Primary Shipping Cost (15%):								42,600.00	
Levy (3%):								8,520.00	
Grand-Total:								335,120.00	

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

8. Electrical Equipment and Spares

Item	Description	Quantity	Total	Unit	Unit Price in USD	Total Price in USD	Ref.
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	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01654	Automatic air-circuit breaker, MCCB, 500V, 50Hz & 3P. Capacity 800-1000 Amps.	2	0	0	2	Each	470.61	941.22	97/4275 CCX 98 0354
03-04-01655	Phase failure, three phase asymmetry and sequence relay, 380 V, 50 Hz. E. Dold u. Sohne KG Type BA 9041	10	0	0	10	Set	131.88	1,318.80	98/4012 CCX 98 2005
03-04-01656	Electric cable, high tension, 3.3KV, size 3 x 150mm	200	0	0	200	ML	75.00	15,000.00	
03-04-01657	High tension circuit breaker oil type, for 11KV, 200 Amp, with all protections to trip line for temperature oil minimum level, gas trip.	1	0	0	1	Set	2,000.00	2,000.00	
03-04-01658	Spare parts for control panels of booster pumps provided by Ingersol Company. See ANX-DHK-ELECT.	1	0	0	1	set	25,000.00	25,000.00	
Sub-Total:							44,260.02		
Primary Shipping Cost (15%):							6,639.00		
Levy (3%):							1,327.80		
Grand-Total:							52,226.82		

PROJECT 2: URBAN AND SEMI-URBAN WATER SUPPLIES
PUMPS AND ASSOCIATED EQUIPMENT

9. Generators and Spares

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01659	Diesel generator complete set with control panel board consisting of automatic main failure switch, change-over switch, voltmeter, ammeter, hour meter, phase selector switch, frequency meter, starting key, high temperature warning, low oil pressure warning, low fuel warning and with 12 V electric starting system with battery, battery charger and voltage regulator, and with fresh waterloop cooling system, heavy duty air filter, cartridge oil and fuel filter, speed governor, silencer, exhaust flexible piping and with fuel tank to run 8 hours continuously and suitable for continuous operation. Maximum output power 2500 KVA, 400V, 3Ph and 50Hz. 50 deg C max; and 1,200 m max alt. The engine and alternator coupled by elastic joint and mounted on a common bed-frame with anti-vibration mountings and lifting eyes with complete tool-kit set. Supplies with O&M manual and spare parts catalogue in English. With spare parts for 2 years normal operation. Packed in wooden case suitable for sea and land transportation.	0	0	0	0	Set	225,000.00	0.00	
03-04-01660	Same as item No.1 Generator capacity 100 KVA.(To be from Genelec Groupes Electrogenes Generating Sets (France Co.))	2	0	0	2	Set	12,000.00	24,000.00	98-4001 CCX981770
03-04-01661	UNICEF commodity code 461132, generator capacity 50 KVA.(From same above company).	3	0	0	3	Set	8,523.00	25,569.00	
03-04-01662	Electronic Control Unit type TE802-AT92B, supplied voltage is 12 Vcc, Operating field is 6.5-16.5 Volt for control the running of generators manufactured by Genelec Groupes Electrogenes Generating sets (France Company), provided under SCF98-4001, PO NO. (CCX 981770).	4	0	0	4	Set	700.00	2,800.00	
03-04-01663	Same as item no. 9, supplied voltage is 24Vcc, Operating field is 12-33 Volt.	4	0	0	4	Set	750.00	3,000.00	
03-04-01664	Same as item No. 1, UNICEF commodity 461133, CCX981397, Generator size 1000KVA, 330/220V, 3 phase, 50Hz with spare parts for two years operation.	1	0	0	1	Set	110,000.00	110,000.00	
Sub-Total:								165,369.00	
Primary Shipping Cost (15%):								24,805.35	
Levy (3%):								4,961.07	
Grand-Total:								195,135.42	

PROJECT 3: URBAN AND SEMI-URBAN SANITATION EQUIPMENT

11. Sanitation Vehicles and Spares

[illegible]

SPARE PARTS FOR BOOSTER PUMPS AND CONTROL PANELS

Ingersoll -Dresser pompes

Route d'Augers

72234 s

Arnage

Cedex

FRANCE

ANX-DHK-ELECT.

Item	Description	Quantity	Unit	Remarks
1	Spare parts for soft starter type IDP3			
1,01	Control module (standard) part number :40888-899-01	40	Each	
1,02	Power modulefor 180 A SMC controller part number: 40382-809-03	12	Each	
1,03	Same as item 1.02 but: for135A controller part number : 40382-802-03	6	Each	
1,04	Same as item 1.02 but: for 240 A controller part number : 40382-809-05	3	Each	
1,05	Same as item 1.02 but for 650 A controllerpart number : 40382-818-01	6	Each	
1,06	Same as item 1.02 but: for 850 A controller part number : 40382-819-01	3	Each	
1,07	Individual SCRfor 650 A controllerpart number : 40382-811-01	36	Each	
1,08	Same as item 1.07 but:for 850 A controller part number : 40382-812-03	12	Each	
1,09	MOV fuse for650 A & 850 A Controllerspart number 40382-816-01	200	Each	
1,10	Inter face boardfor 180 A & 240 A Controllers part number 40382-805-01	14	Each	
1,11	Same as item 1.10 but for 650 A & 850 A controller part number : 40382-814-04	4	Each	
1,12	Fanfor 180 A &240A controller part number : 40382-804-01	4	Each	
1,13	Same as item 1.12 but:for 650 A & 850 A controllerpart number : 40382-815-01	12	Each	
1,14	Trr : tra 400/115 V reference : 4402 for IDP3 75 KW to 525 KW	24	Each	
1,15	P3: control voltage relay reference : 8489 2290 for IDP3 55 KW to 525 KW	24	Each	
1,16	KA1 : PTC probe relyreference :RT3-A- 400 V 50 /60 HZ for IDP3 55 KW to 525 KW	40	Each	
1,17	T 5 Auto transformer55 KW 310 *180 *26 for IDP3-55 KW	8	Each	
1,18	Over load relay 80/110 A reference CT6-110 for IDP3 55 KW	6	Each	
1,19	FT1 over load relay 0.62/1A reference CT3-12-1 for IDP3 90 KW – 525 KW	20	Each	
1,20	Fuse CYL . Gg T4 /800 A Prefrence : P095072 for IDP 3 355 KW	30	Each	
1,21	Fuse CYL . Gg T2/400 A P refrence : M095047 for IDP 3 132 KW	24	Each	
1,22	Fuse CYL . AM 22*58 refrence : AM 125 A for IDP 3 55 KW	24	Each	
2	spare parts for pumps size & type 201NMC 390 m ³ /h ,320 m , number of stage 6 S/N: SP 17200048-02			<u>ANX-DHK-BOOSTER-1</u>

2.01	Wear ring part no. 1500	12	Each	
2.02	Pump shaft part no. 2110	3	Each	
2.03	Impeller part no. 2250	6	Each	
2.04	Spacer sleeve for Impeller part no. 2410	10	Each	
2.05	Sleeve part no.2420	10	Each	
2.06	Shaft Sleeve part no.2450	10	Each	
2.07	Spacer Sleeve for bearing part no.2461	10	Each	
2.08	Inner race centring sleeve with collar part no.2472	8	Each	
2.09	Radial ball bearing part no.3011	8	Each	
2.1	Radial roller bearing part no.3012	12	Each	
2.11	Gland part no.4120	4	Each	
2.12	Gland packing part no.4130	30	M	
2.13	Gasket part no.4590	3	Each	
2.14	Coupling Rubber	5	Set	
2.15	Flexible coupling	2	Each	
3	spare parts for pump size & type 202NML 500 m ³ /h ,175 m , number of stage 4 S/N: SP 17200048-01			<u>ANX-DHK-BOOSTER-2</u>
3.01	Wear ring part no. 1500	24	Each	
3.02	Pump shaft part no. 2110	4	Each	
3.03	Impeller part no. 2250	4	Each	
3.04	Spacer sleeve for Impeller part no. 2410	12	each	
3.05	Sleeve part no.2420	12	Each	
3.06	Shaft Sleeve part no.2450	12	Each	
3.07	Spacer Sleeve for bearing part no.2461	16	Each	
3.08	Inner race centring sleeve with collar part no.2472	8	Each	
3.09	Radial ball bearing part no.3011	6	Each	
3.1	Radial roller bearing part no.3012	12	Each	
3.11	Gland part no.4120	4	Each	
3.12	Gland packing part no.4130	50	m	
3.13	Gasket part no.4590	6	Each	
3.14	coupling Rubber	8	Set	
3.15	Flexible coupling	2	Each	
4	spare parts for pump size & type 202 FP 4 E 200m ³ /h ,170 m , S/N: SP 17200048-01			<u>ANX-DHK-BOOSTER-3</u>
4.01	Wear ring part no. 1500	6	Each	
4.02	Pump shaft part no. 2110	2	Each	
4.03	Impeller part no. 2250	2	Each	
4.04	Spacer sleeve for Impeller part no. 2410	6	Each	
4.05	Sleeve part no.2420	6	Each	
4.06	Shaft Sleeve part no.2450	6	Each	
4.07	Spacer Sleeve for bearing part no.2461	6	Each	
4.08	Inner race centring sleeve with collar part no.2472	4	Each	
4.09	Radial ball bearing part no.3011	4	Each	*
4.1	Radial roller bearing part no.3012	4	Each	
4.11	Gland part no.4120	2	Each	
4.12	Gland packing part no.4130	30	m	
4.13	Gasket part no.4590	2	Each	
4.14	coupling Rubber	4	Set	
4.15	Flexible coupling	1	Each	
5	spare parts for pump size & type MEM 200-150-400L420m ³ /h ,60m S/N: SP 17200023-02/1			<u>ANX-DHK-BOOSTER-4</u>
5.01	Wear ring part no. 1500	12	Each	
5.02	Pump shaft part no. 2110	4	Each	

5.03	Impeller part no. 2250	6	Each	
5.04	Spacer sleeve for Impeller part no. 2410	8	Each	
5.05	Sleeve part no.2420	8	Each	
5.06	Shaft Sleeve part no.2450	8	Each	
5.07	Spacer Sleeve for bearing part no.2461	6	Each	
5.08	Inner race centring sleeve with collar part no.2472	6	Each	
5.09	Radial ball bearing part no.3011	6	Each	
5.10	Radial roller bearing part no.3012	10	Each	
5.11	Gland part no.4120	4	Each	
5.12	Gland packing part no.4130	40	m	
5.13	Gasket part no.4590	4	Each	
5.14	coupling Rubber	6	Set	
5.15	Flexible coupling	4	Each	
6	Spare parts for pump size & type 152FP 4M 150m ³ /h ,120m S/N: SP 17200023-04/1			<u>ANX-DHK-BOOSTER-5</u>
6.01	Wear ring part no. 1500	6	Each	
6.02	Pump shaft part no. 2110	2	Each	
6.03	Impeller part no. 2250	2	Each	
6.04	Spacer sleeve for Impeller part no. 2410	8	Each	
6.05	Sleeve part no.2420	8	Each	
6.06	Shaft Sleeve part no.2450	8	Each	
6.07	Spacer Sleeve for bearing part no.2461	6	Each	
6.08	Inner race centring sleeve with collar part no.2472	6	Each	
6.09	Radial ball bearing part no.3011	6	Each	
6.1	Radial roller bearing part no.3012	10	Each	
6.11	Gland part no.4120	4	Each	
6.12	Gland packing part no.4130	40	m	
6.13	Gasket part no.4590	4	Each	
6.14	Coupling Rubber	6	Set	
6.15	Flexible coupling	4	Each	
7	Spare parts for pump size & type 152 NM3L 350m ³ /h ,100m S/N: SP 17200023-07/2			<u>ANX-DHK-BOOSTER-6</u>
7.01	Wear ring part no. 1500	6	Each	
7.02	Pump shaft part no. 2110	2	Each	
7.03	Impeller part no. 2250	2	Each	
7.04	Spacer sleeve for Impeller part no. 2410	8	Each	
7.05	Sleeve part no.2420	8	Each	
7.06	Shaft Sleeve part no.2450	8	Each	
7.07	Spacer Sleeve for bearing part no.2461	6	Each	
7.08	Inner race centring sleeve with collar part no.2472	6	Each	
7.09	Radial ball bearing part no.3011	6	Each	
7.1	Radial roller bearing part no.3012	10	Each	
7.11	Gland part no.4120	4	Each	
7.12	Gland packing part no.4130	40	m	
7.13	Gasket part no.4590	4	Each	
7.14	Coupling Rubber	6	Set	
7.15	Flexible coupling	4	Each	
8	Spare parts for pump size & type 150 -125 -400LFLP 150m ³ /h ,60m S/N: SP 17200023-08/2			<u>ANX-DHK-BOOSTER-7</u>
8.01	Wear ring part no. 1500	6	Each	
8.02	Pump shaft part no. 2110	2	Each	
8.03	Impeller part no. 2250	2	Each	
8.04	Spacer sleeve for Impeller part no. 2410	8	Each	

8.05	Sleeve part no.2420	8	Each	
8.06	Shaft Sleeve part no.2450	8	Each	
8.07	Spacer Sleeve for bearing part no.2461	6	Each	
8.08	Inner race centring sleeve with collar part no.2472	6	Each	
8.09	Radial ball bearing part no.3011	6	Each	
8.1	Radial roller bearing part no.3012	10	Each	
8.11	Gland part no.4120	4	Each	
8.12	Gland packing part no.4130	40	m	
8.13	Gasket part no.4590	4	Each	
8.14	Coupling Rubber	6	Set	
8.15	Flexible coupling	4	Each	
9	Spare part for motor, Type LS 315 MR – T 132 KW number 132684HH001			<u>ANX-DHK-BOOSTER-8</u>
9.01	Fan Part number 7	2		
9.02	Drive end bearing Part number 30	6		
9.03	Non drive end bearing Part number 50	4		
10	Spare part for motor, TypeE LS 355 355 KW number 903289 DIH KO1			<u>ANX-DHK-BOOSTER-9</u>
10.01	Fan Part number 7	4		
10.02	Drive end bearing Part number 30	12		
10.03	Non drive end bearing Part number 50	8		

SPARE PARTS OF GAS CHLORINATOR						
ANX-DHK-CHLOR-2						
Spare part list 12.5157-302p						
Hauptregler 200-500 gm/h						
As par drawing no 12.5157-300						
SN	ITEM	PART NO.	DISCRIPTION	QUNT .	UNIT	REMARK
1	2	52-144	O- ring	12	NO	
2	4	12.516-400	adjusting spindle	5	NO	
3	5	52.105-2	O- ring	10	NO	
4	6	12.5165-410	diaphragm disk	10	NO	
5	8	520144	O- ring	10	NO	
6	9	12.5071-400	Diaphragm	12	NO	
7	11	12-5220.300	regulater lower	3	NO	
8	12	12.5150.400	regulater upper	3	NO	
9	16	12.2562.401	presser spring	10	NO	
ALLDOS Eichler Gmbh						
Reetzstr.85.D-76327pfinztal(soll)						
postfach 1210.D-76318 pfinztal						
Telefon:(07240)61-0						
Telefax:(07240)61-177						
Geschäftsführer Bernd Kistler						
Amtsgericht Karlsruhe HRB 4323						

	SPARE PARTS OF GAS CHLORINATOR					
	ANX-DHK-CHLOR-3					
	117-195 MOL					
	C 117 GECO					
	As par drawing no 12.3406-100/5407-20					
SN	ITEM	PART NO.	DISCRIPTION	QUNT .	UNIT	REMARK
1	1	C117-190P	dosing regulator	5	NO	
2	1.2	12.5282-400	knob	10	NO	
3	1.8	52-277	O- ring	40	NO	
4	1.54	125508	lock- washer	10	NO	
5	1.55	52.183	O- ring	20	NO	
6	1.56	12.5331-400	holding spindle	5	NO	
7	1.57	52.277	O- ring	10	NO	
8	1.72	12.5298-400	copling bushing	5	NO	
9	2.1	12.5369-401	measuring tube	7	NO	
10	2.4	12.5337-400	valve seat	15	NO	
11	2.5	52-408	O- ring	20	NO	
12	2.6	52-408	O- ring	20	NO	

	ALLDOS Eichler Gm			
	Reetzstr.85.D- 76327pfinztal(soll)			
	postfach 1210.D-76318 pfinztal			
	Telefon:(07240)61-0			
	Telefax:(07240)61-177			
	Geschäftsführer Bernd Kistler			
	Amtsgericht Karlsruhe HRB 4323			

SPAER PART S FOR GAS CHLORINATOR							
			ANX-DHK-CHLOR-4				
						Spaer part of injector	
			reetzstrabe 85-76327pfinztal (sollingen)				
			postfach1210.76318pfinztal				
			Tel .(07940)61-01fax (07240)61-177				
SN	ITEM	PART NO	DISCRIPTION	INJECTOR SIZE	QUNT.	UNIT	REMARK
1	2	12.593-4	Upper body	545-11	15	each	
2	2	12.593-4	Upper body	545-14	5	each	
3	4	12.376-4	Diaphragm ring	545-11	10	each	
4	5	52.125	O.ring	545-11,14	20	each	
5	5	52.205	O.ring	545-11,14	20	each	
6	6	12.175-4	Ring nut	545-11,14	10	each	
7	7	12.171-4	Piston	545-11,14	15	each	
8	8	12.120-4	Valve seat	545-11,14	30	each	
9	9	52.139	O.ring	545-11,14	20	each	
10	10	12.375-4	Diaphragm disk	545-11,14	10	each	
11	12	12.312-4	Diaphragm	545-11,14	30	each	
12	15	52.123-2	O.ring	545-11,14	20	each	
13	16	12.584-41	Nozzle A1		10	each	
14	16	12.584-43	Nozzle c1		5	each	
15	16	12.584-44	Nozzle D1		5	each	
16	17	1773-400	Spring		20	each	
17	19	12.591-41	Diffusor complete	A1	5	each	
18	19	12.591-44	Diffusor complete	D1	3	each	
19	20	52.141	O.ring		10	each	
20	21	53.056-25	Unian comector		6	each	

	SPARE PARTS OF POWDER CHLORINATOR PUMP					
	ANX-DHK-CHLOR-5					
	MODIL G020-511M					
	Capacity: 22 liter/h					
	Head(pressur):12 bar					
SN	key numbr	GE..51..	DISCRIPTION	QUNT .	UNIT	REMARK
1	C	29523	ingection nozzel	10	Set	
2	U	307124 2	liquid end assembly	5	Set	
3	A	29524	foot valve assembly	20	Set	
4	8	see FIG 2.1A	ingection nozzel	20	Set	
5	10 & 2	see FIG 2.1A	filter	15	Set	
6	45		Diaphragm	10	no	
7	5	see FIG 8.2A	Connicting rod	5	no	
8	14	see FIG 8.2A	o- ring	5	no	
9	15	see FIG 8.2A	stork adjustment screw	3	no	
10	8	see FIG 8.2A	bearing	3	no	

	DOSAPRO MILTON ROY					
	ASSISTANCE TECHNIQUE :Tel.02.32.68.30.02					
	PIECES DE RECHANGE : Tel.02.32.68.30.01 telecopie 02.32.68.30.92					
	ACCUEIL :Tel. 02.32.68.3000-Telecopie 02.32.68.3093 - Telex 180345					
	B.P.5. 27360 Pont-Saint-pierre ,FRANCE					

	SPARE PARTS OF CHLORENATION BOOSTER PUMP				
COMPANY NAME: Ingersoll - Dresser pumps					
Type 50 FP 5E				ANX-DHK-CHLOR-6	
Capacity : 4 m ³ /h					
Head : 120 m					
SN	PARTE NO.	DISCRIPTION	QUNT.	UNIT	REMARK
1	2110	Pump sheft	5	no	
2	2250	impller	16	no	
3	2450	sheft sleeve	20	no	
4	2420	interstage sleeve	20	no	
5	4120	gland	6	no	
6	9451	closing plate	10	no	
7	9621	screwed plug	10	no	
8	9929	sheftlock- nut	10	no	
9	_____	coupling ruber	20	set	there is not part number, See figure attached.
10	_____	coupling set	4	set	there is not part number, See figure attached.

	SPARE PARTS OF GAS CHLORINATOR					
	ANX-DHK-CHLOR-1					
	ALLDOS Dosing equipment					
	Gas dosing system C111/C113					
	Vacum Regulators 111-202					
	Dosing Reguulators					
	113-310-11320					
	113-300-1113340					
	113-390-113-395					
SN	ITEM	PART NO.	DISCRIPTION	QUNT .	UNIT	REMARK
1	1	12.5341-101p	inlet valve	6	each	
2	1.1	12.5055-400	valve seat	10	each	
3	1.2	12.544-400	valve seat support	5	each	
4	1.3	12.5304-300	inlet valve	6	each	
5	1.4	12.5320-400	filter	40	each	
6	1.5	12.5443-400	cartridge	4	each	
7	1.6	52.183	O- ring	20	each	
8	1.7	52.123-2	O- ring	20	each	
9	2.3	12.2519	diaphragm manometer	5	each	
10	3	12.374-205p	cylinder connection valve	10	each	
11	3.41	12.069-4	union nut	30	each	
12	3.43	54.002-4	flat gasket	200	each	
13	4.2	12.561-43	union nut	10	each	
14	9.5	12.2527-400	pressure spring	15	each	
15	9.24	12.5053-400	guid bush	15	each	
	ALLDOS Eichler GmbH					
	Reetzstr.85.D-76327pfinztal(soll)					
	postfach 1210.D-76318 pfinztal					
	Telefon:(07240)61-0					
	Telefax:(07240)61-177					
	Geschäftsführer Bernd Kistler					
	Amtsgericht Karlsruhe HRB 4323					

D) NORTHERN IRAQ, RURAL WATER AND SANITATION SUPPLIES

PROJECT 4: RURAL WATER SUPPLIES AND SANITATION

13. Metal pipes and Fittings

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01674	UNICEF Commodity Code: 412713 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 4.0 inch.	3700	840	750	5290	Each	34.74	183,774.60	CCX 980234
03-04-01675	UNICEF Commodity Code: 412713 As item 1, but ND 3.0 inch	2500	500	1250	4250	Each	24.44	103,870.00	CCX 980234
03-04-01676	UNICEF Commodity Code: 412713 As item 1, but ND 2.5 inch	2200	1000	2000	5200	Each	18.72	97,344.00	CCX 980234
03-04-01677	UNICEF Commodity Code: 412713 As item 1, but ND 2.0 inch	850	1500	3000	5350	Each	14.77	79,019.50	
03-04-01678	UNICEF Commodity Code: 412713 As item 1, but ND 1.5 inch	1800	3000	7,160	11960	Each	10.87	130,005.20	
03-04-01679	UNICEF Commodity Code: 412713 As item 1, but ND 1.0 inch	250	3000	2500	5750	Each	7.38	42,435.00	
03-04-01680	UNICEF Commodity Code: 412713 As item 1, but ND 0.75 inch	1500	3000	1000	5500	Each	4.78	26,290.00	
03-04-01681	UNICEF Commodity Code: 432417 Brass gate valve set with hand wheel, clockwise closing. Food quality, FxF. PN 20. ND 0.75 inch	100	50	50	200	Each	2.15	430.00	CCX 982658
03-04-01682	UNICEF Commodity Code: 432417 As item 8 but size 1.0 inch.	180	50	50	280	Each	2.84	795.20	
03-04-01683	UNICEF Commodity Code: 432417 As item 8 but size 1.5 inch.	200	50	50	300	Each	5.36	1,608.00	
03-04-01684	UNICEF Commodity Code: 432417 As item 8 but size 2.0 inch.	200	75	50	325	Each	7.72	2,509.00	
03-04-01685	UNICEF Commodity Code: 432417 As item 8 but size 2.5 inch.	250	50	50	350	Each	11.72	4,102.00	
03-04-01686	UNICEF Commodity Code: 432417 As item 8 but size 3.0 inch. PN 16.	300	75	10	385	Each	13.54	5,212.90	
03-04-01687	UNICEF Commodity Code: 432417 As item 13 but size 4.0 inch.	400	75	10	485	Each	24.28	11,775.80	
03-04-01688	UNICEF Commodity Code: 432417 As item 13 but size 6.0 inch.	35	0	0	35	Each	50.00	1,750.00	
03-04-01689	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized equal elbows, 90 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, .PN 25. Size 0.75 inch.	3500	300	500	4300	Each	0.25	1,075.00	CCX 982740
03-04-01690	Unicef Commodity Code: 412837 As item 16 but size 1.0 inch.	500	150	400	1050	Each	0.38	399.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01691	Unicef Commodity Code: 412837 As item 16 but size 1.5 inch.	350	100	350	800	Each	1.15	920.00	
03-04-01692	Unicef Commodity Code: 412837 As item 16 but size 2.0 inch.	200	100	200	500	Each	1.35	675.00	
03-04-01693	Unicef Commodity Code: 412837 As item 16 but size 2.5 inch.	380	50	150	580	Each	3.73	2,163.40	
03-04-01694	Unicef Commodity Code: 412837 As item 16 but size 3.0 inch.	200	50	50	300	Each	5.11	1,533.00	
03-04-01695	Unicef Commodity Code: 412837 As item 16 but size 4.0 inch.	400	50	25	475	Each	11.20	5,320.00	CCX 982747
03-04-01696	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), Fx F, PN 25. Size 1.0 inch.	50	0	0	50	Each	1.07	53.50	
03-04-01697	UNICEF Commodity Code: 412837. As in item 23 but size 1.5 inch.	100	0	0	100	Each	2.43	243.	
03-04-01698	UNICEF Commodity Code: 412837. As in item 23 but size 2.0 inch.	50	0	0	50	Each	3.16	157.80	
03-04-01699	UNICEF Commodity Code: 412837. As in item 23 but size 2.5 inch.	50	0	0	50	Each	6.46	323.00	
03-04-01700	UNICEF Commodity Code: 412837. As in item 23 but size 3.0 inch.	90	0	0	90	Each	6.36	572.40	
03-04-01701	UNICEF Commodity Code: 412837. As in item 23 but size 4.0 inch.	150	0	0	150	Each	57.62	8,643.00	
03-04-01702	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized equal T-joints for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), Fx Fx F. PN 25. Size 0.75 inch.	500	100	200	800	Each	0.37	296.00	CCX 982740
03-04-01703	UNICEF Commodity Code: 412837. As in item 29 but size 1.0 inch.	450	150	150	750	Each	0.56	420.00	
03-04-01704	UNICEF Commodity Code: 412837. As in item 29 but size 1.5 inch.	750	150	150	1050	Each	1.47	1,543.50	
03-04-01705	UNICEF Commodity Code: 412837. As in item 29 but size 2.0 inch.	350	150	150	650	Each	2.04	1,326.00	
03-04-01706	UNICEF Commodity Code: 412837. As in item 29 but size 2.5 inch.	150	150	150	450	Each	4.56	2,052.00	
03-04-01707	UNICEF Commodity Code: 412837. As in item 29 but size 3.0 inch.	500	150	50	700	Each	6.10	4,270.00	
03-04-01708	UNICEF Commodity Code: 412837. As in item 29 but size 4.0 inch.	650	50	25	725	Each	14.59	10,577.75	CCX 982747
03-04-01709	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized equal unions for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), Fx F. PN 25. Size 0.75 inch.	400	450	200	1050	Each	0.58	609.00	CCX 982063
03-04-01710	UNICEF Commodity Code: 412837. As in item 36 but size 1.0 inch.	650	150	200	1000	Each	0.70	700.00	
03-04-01711	UNICEF Commodity Code: 412837. As in item 36 but size 1.5 inch.	500	200	223	923	Each	1.32	1,218.36	
03-04-01712	UNICEF Commodity Code: 412837. As in item 36 but size 2.0 inch.	450	150	200	800	Each	1.92	1,536.00	
03-04-01713	UNICEF Commodity Code: 412837. As in item 36 but size 2.5 inch.	250	150	200	600	Each	3.31	1,986.00	
03-04-01714	UNICEF Commodity Code: 412837. As in item 36 but size 3.0 inch.	350	100	100	550	Each	5.26	2,893.00	
03-04-01715	UNICEF Commodity Code: 412835. As in item 36 but size 4.0 inch.	450	100	100	650	Each	24.93	16,204.50	CCX 982131
03-04-01716	UNICEF Commodity Code: 412835 Malleable cast iron, hot dip galvanized equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 25. Size 0.75 inch.	0	300	150	450	Each	0.22	99.00	CCX 982740
03-04-01717	UNICEF Commodity Code: 412835. As in item 43 but size 1.0 inch.	300	50	150	500	Each	0.30	150.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01718	UNICEF Commodity Code: 412835. As in item 43 but size 1.5 inch.	350	100	150	600	Each	0.57	342.00	CCX 982747
03-04-01719	UNICEF Commodity Code: 412835. As in item 43 but size 2.0 inch.	300	100	100	500	Each	1.03	515.00	
03-04-01720	UNICEF Commodity Code: 412835. As in item 43 but size 2.5 inch.	300	100	75	475	Each	2.25	1,068.75	
03-04-01721	UNICEF Commodity Code: 412835. As in item 43 but size 3.0 inch.	220	50	30	300	Each	2.71	813.00	
03-04-01722	UNICEF Commodity Code: 412835. As in item 43 but size 4.0 inch.	200	50	20	270	Each	9.90	2,673.00	CCX 982733
03-04-01723	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized equal sockets for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), Fx F. PN 25. Size 0.75.	250	150	0	400	Each	0.19	76.00	
03-04-01724	UNICEF Commodity Code: 412837. As in item 50 but size 1.0 inch.	500	50	0	550	Each	0.24	132.00	
03-04-01725	UNICEF Commodity Code: 412837. As in item 50 but size 1.5 inch.	350	40	0	390	Each	0.39	152.10	
03-04-01726	UNICEF Commodity Code: 412837. As in item 50 but size 2.0 inch.	250	40	0	290	Each	0.58	168.20	
03-04-01727	UNICEF Commodity Code: 412837. As in item 50 but size 2.5 inch.	0	40	0	40	Each	0.99	39.60	
03-04-01728	UNICEF Commodity Code: 412837. As in item 50 but size 3.0 inch.	450	40	0	490	Each	1.33	651.70	
03-04-01729	UNICEF Commodity Code: 412837. As in item 50 but size 4.0 inch.	300	40	0	340	Each	2.16	734.40	
03-04-01730	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized reducer joints for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), Fx F. PN 25. Size 4.0 x 3.0 inch.	250	100	20	370	Each	12.18	4,506.60	CCX 982747
03-04-01731	UNICEF Commodity Code: 412837. As in item 57 but size 4.0 x 2.5 inch.	300	50	20	370	Each	11.88	4,395.60	
03-04-01732	UNICEF Commodity Code: 412837. As in item 57 but size 4.0 x 2.0 inch.	300	50	30	380	Each	11.36	4,316.80	
03-04-01733	UNICEF Commodity Code: 412837. As in item 57 but size 3.0 x 2.5 inch.	400	50	30	480	Each	7.47	3,585.60	
03-04-01734	UNICEF Commodity Code: 412837. As in item 57 but size 3.0 x 2.0 inch.	450	100	40	590	Each	6.56	3,870.40	
03-04-01735	UNICEF Commodity Code: 412837. As in item 57 but size 3.0 x 1.5 inch.	200	100	40	340	Each	4.51	1,533.40	
03-04-01736	UNICEF Commodity Code: 412837. As in item 57 but size 3.0 x 1.0 inch.	250	100	20	370	Each	4.95	1,831.50	
03-04-01737	UNICEF Commodity Code: 412837. As in item 57 but size 2.5 x 2.0 inch.	150	100	40	290	Each	4.22	1,223.80	
03-04-01738	UNICEF Commodity Code: 412837. As in item 57 but size 2.5 x 1.5 inch.	650	100	50	800	Each	4.89	3,912.00	
03-04-01739	UNICEF Commodity Code: 412837. As in item 57 but size 2.5 x 1.0 inch.	400	50	50	500	Each	3.66	1,830.00	
03-04-01740	UNICEF Commodity Code: 412837. As in item 57 but size 2.5 x 0.75 inch	350	50	50	450	Each	3.90	1,755.00	
03-04-01741	UNICEF Commodity Code: 412837. As in item 57 but size 2.0 x 1.5 inch.	350	50	50	450	Each	1.54	693.00	
03-04-01742	UNICEF Commodity Code: 412837. As in item 57 but size 2.0 x 1.0 inch.	100	60	0	160	Each	1.85	296.00	
03-04-01743	UNICEF Commodity Code: 412837. As in item 57 but size 2.0 x 0.75 inch.	250	60	50	360	Each	1.99	716.40	
03-04-01744	UNICEF Commodity Code: 412837. As in item 57 but size 1.5 x 1.0 inch.	100	100	50	250	Each	0.76	190.00	CCX 982740
03-04-01745	UNICEF Commodity Code: 412837. As in item 57 but size 1.5 x 0.75 inch.	150	80	50	280	Each	1.23	344.40	CCX 982747
03-04-01746	UNICEF Commodity Code: 412837. As in item 57 but size 1.0 x 0.75 inch.	100	100	50	250	Each	0.34	85.00	CCX 982740
03-04-01747	UNICEF Commodity Code: 412837 Malleable cast iron, hot dip galvanized end plugs for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7). Male type. PN 25. Size 0.75 inch.	250	50	0	300	Each	0.17	51.00	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01748	UNICEF Commodity Code: 412837. As in item 74 but size 1.0 inch.	50	50	0	100	Each	0.20	20.00	
03-04-01749	UNICEF Commodity Code: 412837. As in item 74 but size 1.5 inch.	60	100	0	160	Each	0.41	65.60	
03-04-01750	UNICEF Commodity Code: 412837. As in item 74 but size 2.0 inch.	0	150	0	150	Each	0.75	112.50	
03-04-01751	UNICEF Commodity Code: 412837. As in item 74 but size 2.5 inch.	90	100	0	190	Each	1.87	355.30	CCX 982763
03-04-01752	UNICEF Commodity Code: 412837. As in item 74 but size 3.0 inch.	100	150	0	250	Each	2.29	572.50	
03-04-01753	UNICEF Commodity Code: 412837. As in item 74 but size 4.0 inch.	150	100	0	250	Each	8.06	2,015.00	
03-04-01754	UNICEF Commodity Code: 412417 Brass non return valve, for potable water, FxF. PN 20. Size 1.5 inch.	50	0	50	100	Each	4.51	451.00	CCX 982658
03-04-01755	UNICEF Commodity Code: 412417. As in item 81 but size 2.0 inch.	50	150	50	250	Each	7.10	1,775.00	
03-04-01756	UNICEF Commodity Code: 432417. As in item 81 but PN 16, size 2.5 inch.	65	100	25	190	Each	12.63	2,399.70	
03-04-01757	UNICEF Commodity Code: 432417. As in item 83 but size 3.0 inch.	90	100	0	190	Each	21.50	4,085.00	
03-04-01758	UNICEF Commodity Code: 432417. As in item 83 but size 4.0 inch.	85	50	0	135	Each	35.29	4,764.15	
03-04-01759	UNICEF Commodity Code: 432400 Water tap, brass, with T-handle and threaded as per ISO 228, size 20 mm (3/4 inch). PN 10	500	1500	300	2300	Each	2.59	5,957.00	CCX 980380
03-04-01760	UNICEF Commodity Code: 412829 Teflon pipe joint tape, 12 mm (1/2 inch) width, non-toxic, safe for water 1, supplied on plastic snap-cover spool, 15m long and 0.1mm thick.	0	150	300	450	Each	0.45	202.50	CCX981395
03-04-01761	UNICEF Commodity Code: 439241 Sealing material to be used for sealing cracks in concrete potable water reservoirs.	200	1500	0	1700	Kg	3.20	5,440.00	CCX 982789
03-04-01762	Brass foot valve, FxF. PN 25, size 4 inch	45	50	0	95	Each	35.00	3,325.00	
03-04-01763	As in item 90 but size 3 inch	40	100	0	140	Each	22.00	3,080.00	
03-04-01764	As in item 90 but size 2.5 inch	50	50	30	130	Each	18.00	2,340.00	
03-04-01765	As in item 90 but size 2.0 inch	10	50	30	90	Each	7.50	675.00	
03-04-01766	As in item 90 but size 1.5 inch	15	120	30	165	Each	4.02	663.30	
03-04-01767	As in item 90 but size 1.0 inch	15	0	30	45	Each	3.50	157.50	
03-04-01768	Brass air valve ,F*F PN 25, size 4 inch	40	20	20	80	Each	35.00	2,800.00	
03-04-01769	As in item 96 but size 3 inch	35	20	20	75	Each	22.00	1,650.00	
03-04-01770	As in item 96 but size 2.5 inch	20	20	20	60	Each	18.00	1,080.00	
03-04-01771	As in item 96 but size 2.0 inch	20	20	20	60	Each	7.50	450.00	
03-04-01772	As in item 96 but size 1.5 inch	25	20	20	65	Each	4.02	261.30	
03-04-01773	As in item 96 but size 1.0 inch	20	20	20	60	Each	3.50	210.00	
	Sub- total							846,290.01	
Primary Shipping Cost (15%):								126,943.50	
Levy (3%):								25,388.70	
Grand-Total:								998,622.21	

PROJECT 4: RURAL WATER SUPPLIES AND SANITATION

14. Construction and Sanitary

Materials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01774	Ordinary Portland cement packed in 5-ply 50 kg paper bags (equivalent to BS12).	1500	640	2000	4140	Ton	60.00	248,400.00	Local Procurement
03-04-01775	UNICEF Commodity Code: 412522 Mild steel deformed reinforcing bars in 6 meter length (+/- 100 mm), commercial grade tensile strength: 42.5-53.5 Kg/mm2 in bundles of 1 MT. size: Dia 10 mm : average weight 0.617 Kg/m	15	15	25	55	Ton	305.00	16,775.00	CCX 980143
03-04-01776	UNICEF Commodity Code: 412460 As in item 1 but size 12 mm dia.	25	10	100	135	Ton	305.00	41,175.00	
03-04-01777	UNICEF Commodity Code: 412460 As in item 1 but size 16 mm dia.	15	5	15	35	Ton	305.00	10,675.00	
03-04-01778	UNICEF Commodity Code: 429661 Mild steel binding wire (flexible), 2 mm diameter, fully annealed, used to tie reinforcing bars for concrete work, supplied in coils of 50 kg (approx).	850	1500	0	2350	Kg	0.57	1,339.50	
03-04-01779	Concrete hollow blocks of size 20x20x40 cm (to be procured locally). For Dohuk blocks should be solid and of size 15x20x40.	170	100	200	470	1000 Each	200.00	94,000.00	Local Procurement
03-04-01780	Steel door with door frame for latrine of size 0.8x1.80 metres (to be locally procured).	900	3000	1000	4900	Each	27.00	132,300.00	
03-04-01781	UNICEF Commodity Code: 412522 50x50 mm angle iron, mild steel, of 6 metres length.	100	0	0	100	Each	6.95	695.00	CCX 982603
03-04-01782	UNICEF Commodity Code: 429630 Cast iron manhole cover for medium duty carriage way, size 0.5x0.5 M.	200	3000	0	3200	Each	30.00	96,000.00	Local Procurement
03-04-01783	UNICEF Commodity Code: 429630 Cast iron manhole cover for light duty domestic use, size 0.3x0.3 M.	850	0	0	850	Each	10.00	8,500.00	
03-04-01784	Mud bricks, size 7x11x22 mm	115	30	200	345	1000 Each	50.00	17,250.00	Local Procurement
03-04-01785	UNICEF Commodity Code: 429115 Squatting FRP latrine pan with P-trap of standard design with 20 mm water seal, material: specification: as per IS 11246-1985 or equivalent.	950	3000	0	3950	Each	5.30	20,935.00	CCX 982816
03-04-01786	UNICEF Commodity Code: 367242 PVC pipes for sanitary purposes with spigot and socket type suitable for solvent cement joining, with ends protection. Size 110 mm OD, 5.8 length and 5-6 bar. Supplied with solvent cement of 3 litre for every 50 pipes.	850	2000	1000	3850	Each	12.65	48,702.50	CCX 980097

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01787	UNICEF Commodity Code:421932, Roofing Sheet, steel corrugated, galvanized, low carbon steel, lengthwise sinus sendzimir process, commercial prime quality. - Zinc Coated on both sides 275 G/M 2 - 11 Corrugations 16 X 76MM - 20 Gauge B.G. (0.26MM) before galvanizing - Overall width 900MM - Sheet length 2,000MM Packed in bundles of 100 sheets, export packed, covered with thick plastic, steel enveloped, banded on two wooden skids.	650	150	0	800	Each	2.96	2,368.00	CCX 982885
Sub-Total:								739,115.00	
Primary Shipping Cost (15%):								110,867.25	
Levy (3%):								22,173.45	
Grand-Total:								872,155.70	

PROJECT 4: RURAL WATER SUPPLIES AND SANITATION

15. Pumps and Spare Parts

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-01774	UNICEF Commodity Code: 432271 Diesel driven centrifugal water pumping system, diesel engine includes electrical starter. Two years spare parts. Altitude 1200 m. Capacity 10 m3/hr at 60 meter head. (HATZ Germany)	2	0	5	7	Set	2,620.16	18,341.12	CCX 982729
03-04-01775	UNICEF Commodity Code: 432271 As in item 1 but capacity 10 m3/hr at 80 meters head.	2	0	5	7	Set	3,000.33	21,002.31	
03-04-01776	UNICEF Commodity Code: 432271 As in item 1 but capacity 10 m3/hr at 120 meters head.	2	0	5	7	Set	5,000.00	35,000.00	
03-04-01777	As in item 1 but capacity 20 m3/hr at 120 meters head.	0	6	0	6	Set	5,000.00	30,000.00	
03-04-01778	UNICEF Commodity Code: 432287 Submersible pump type SP17-18, incl 6" motor 11KW, 3x380/415V, 50HZ motor cable with direct coupled electrical motor and with non-return valve, control panel complete set, 150 M three core cable; suitable for control panel, tail cable and cable terminal kit; Q=10-18 cum/hr (min), head=190-135 (max), 380V, 50Hz and 3Ph for 6 inch cased borewell. Discharge 2.5@BSP. Two years spare parts. CABLE TO BE SUPPLIED SEPERATELY FOR EACH PUMP AND TO BE INSTALLED ON NEW BOREWELL.	3	0	0	3	Set	4,274.54	12,823.62	CCX 982661
03-04-01779	UNICEF Commodity Code: 432287 As in item 5, submersible pump type SP30-14, incl 6" motor 16KW, Discharge 3"BSP, Q=12-25 cum/hr (min) and head = 147-120 M (max). For 6 inch cased borewell. CABLE TO BE SUPPLIED SEPERATELY FOR EACH PUMP AND TO BE INSTALLED ON NEW BOREWELL.	1	0	0	1	Set	4,327.00	4,327.00	CCX 981631
03-04-01780	UNICEF Commodity Code: 432287 As in item 5, submersible pump type SP8A-21, incl. 6" motor, discharge 3" BSP, Q=25 cum/hr (min) and head = 115 M (max). For 8 inch cased borewell. CABLE TO BE SUPPLIED SEPERATELY FOR EACH PUMP AND TO BE INSTALLED ON NEW BOREWELL.	1	0	0	1	Set	4,240.00	4,240.00	CCX 982662
03-04-01781	Same as item 5, submersible pump type SP10-30,	1	0	0	1	Set	4,287.00	4,287.00	CCX 981456
03-04-01782	UNICEF Commodity Code: 432287 As in item 5, submersible pump type SP8A-44, incl. 6" motor, discharge 3" BSP, Q= 4 - 11 cum/hr and head = 220 - 102 M (min). For 8 inch cased borewell. CABLE TO BE SUPPLIED SEPERATELY FOR EACH PUMP AND TO BE INSTALLED ON NEW BOREWELL, Item No.1229	1	0	0	1	Set	4,240.00	4,240.00	CCX 982662

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01783	UNICEF Commodity Code: 432253 Deep well Dutz turbine pumping system, operating at 2,700 RPM for pumping clean water to fit in a 8 inch bore well, Q=10 cum/hr and head = 120 M at 1,200 metres altitude/elevation, 50 deg centigrade complete set with pump head, discharge flange, right angle gear drive connected to engine by universal shaft. Air or water cooled diesel engine unit with industrial clutch, electric starter, heavy duty oil bath, air cleaner, speed governor, silencer exhaust pipe, mounted fuel tank, with column pipes and line shafts, foot valve with strainer, water level indicator, tool-kit, spare parts for 2 years operation, O&M manual in English and spare parts catalogue with appropriate seaworthy packing. Please note that temperatures in summer exceeds 50 degree Celsius and reaches -15 degree Celsius in winter.(Granfos Type / Deutz Diter)	8	20	22	50	Set	8,435.00	421,750.00	CCX 982722
03-04-01784	same as item 11 but Q = 8 cum/hr, H= 140 m	8	0	0	8	Set	8,689.00	69,512.00	
03-04-01785	UNICEF Commodity Code: 461132 Air-cooled diesel engine to drive a vertical turbine pump through a right angle gear. Including cardan shafts. With centrifugal clutch, elestarter, heavy duty oil bath, air cleaner, speed governor, silencer exhaust pipe, mounted fuel tank. Max altitude 1,200m. Two years spare parts. Please note that temperatures in summer exceeds 50 degree Celsius and reaches -15 degree Celsius in winter	2	10	0	12	Set	6,282.30	75,387.60	CCX 981515
03-04-01786	UNICEF Commodity Code: 432287 Franklin or Grundfos Electric Motor set for Grundfos submersible pumps with tail cable and cable joint and control panel. 400V, 50HZ, 3 PH. Max altitude 1,200m. CABLE TO BE SUPPLIED SEPERATELY FOR EACH MOTOR. For SP 60-3 pump, 5.5 KW. Borehole 6.	4	0	0	4	Set	2,159.29	8,637.16	CCX 982659
03-04-01787	UNICEF Commodity Code: 432287 As in item 13 but for SP 27-8, 7.5 KW, for 6 inch bore well.	4	0	0	4	Set	2,260.20	9,040.80	
03-04-01788	UNICEF Commodity Code: 432287 As in item 13 but for SP 27-14, 11 KW, for 6 inch bore well.	2	0	0	2	Set	2,412.94	4,825.88	
03-04-01789	UNICEF Commodity Code: 432287 As in item 13 but for SP 27-15, 15 KW, for 6 inch bore well.	2	0	0	2	Set	2,615.70	5,231.40	
03-04-01790	UNICEF Commodity Code: 432287 Electric Motor for driving vertical Grundfos turbine pump, squirrel cage motor, complete set, from 15 to 45 degree Celsius maximum with relative humidity < 90%, max altitude 1,200m, 380V, 50HZ, 3PH, 2900-3000 RPM, insulation class F, speed 2 poles, protection degree IP55. Capacity 15 KW.	2	0	0	2	Set	579.04	1,158.08	
03-04-01791	UNICEF Commodity Code: 432287 As in item 17 but capacity 22 KW	2	0	0	2	Set	931.01	1,862.02	
03-04-01792	UNICEF Commodity Code: 432254 Pump discharge head, complete set for Grundfos pump types consisting of pump head, gasket, bolt & nut, stay bolts, nuts and pipe plug, for BP27-15 (3 inch discharge)	0	0	10	10	Set	531.17	5,311.70	
03-04-01793	UNICEF Commodity Code: 432254 As in item 25 but for BP27-12 (3 inch discharge)	0	10	0	10	Set	531.17	5,311.70	

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01794	UNICEF Commodity Code: 432225 Deep well India Mark III Hand pump .	0	0	50	50	Set	95.35	4,767.50	
03-04-01795	Connecting rod for India Mark III	0	0	250	250	Each	2.25	562.50	
03-04-01796	Fast moving spare parts for India Mark III	0	0	20	20	Each	9.35	187.00	
03-04-01797	Mechanical Vlom tools kit for India Mark III	0	0	2	2	Set	62.15	124.30	
03-04-01798	Slow moving spares for India Mark III	0	0	1	1	Set	1,350.00	1,350.00	
03-04-01799	Standard fishing tools for retrieval of fallen connecting rods and 65mm. Riser pipes (for India Mark III).	0	0	2	2	Set	87.00	174.00	
03-04-01800	Electric driven pumping system, complete with control panel, cable, and all other neccesaties for new installation, Q= 10 cum/hr, H=80 m. Max altitude 1,200m.	0	2	0	2	Set	3,700.00	7,400.00	
03-04-01801	Same as item 43 but Q=10 cum/hr, H=100 m	0	2	0	2	Set	3,900.00	7,800.00	
03-04-01802	Same as item 43 but Q=10 cum/hr, H=120 m	0	2	0	2	Set	4,200.00	8,400.00	
03-04-01803	UNICEF Commodity Code: 432254 Deepwell turbine pump complete with body(bowls and impellers), discharge coloumn(Coloum pipe elements and lineshaft), drivehead (electric motor), capacity Q=15 cum/hr(max), head=124 M (min), preferably BP16-14 type from Grundfos. Complete with bowl assembly, pump head and discharge flange with 2.5 inch BSP thread, electric motor 3x380/660V, 50Hz, (RPM 2900) 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 operatoin, O&M manual in English with appropriate packings, Item No.1113	3	0	0	3	Set	8,200.00	24,600.00	
03-04-01804	Horizontal electrical motor for vertical Turbine pumps , 400 V , 50 Hz, 3 P and 1470 RPM : Capacity : 15 Kw	2	0	0	2	Set	400.00	800.00	
03-04-01805	Same as item No. 31, capacity 22 Kw	2	0	0	2	Set	600.00	1,200.00	
03-04-01806	Same as item No. 31, capacity 30 Kw	1	0	0	1	Set	900.00	900.00	
Sub-Total								800,554.69	
Primary Shipping Cost (12%):								120,083.20	
Levy (3%):								24,016.64	
Grand-Total:								944,654.53	

PROJECT 4: RURAL WATER SUPPLIES AND SANITATION

16. Materials for Deepwell Drilling

Operation:

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-01807	UNICEF Commodity Code: 412713 Casing pipe, mild steel, commercial grade st-37 as per DIN 17100, food grade, for lining of water borehole One end male threaded, heavy duty female socket on the other end , To be produced according to DIN 4922 in lengths of 6 m, outer diameter 8 5/8 inch.	100	555	600	1255	Each	181.57	227,870.35	CCX 981023
03-04-01808	UNICEF Commodity Code: 412713 As in item 1 but pipe with slots of 2.3 mm width, length of 6 m, outer diameter 8 5/8 inch	20	275	120	415	Each	199.51	82,796.65	
03-04-01809	UNICEF Commodity Code: 432512 As in item 1 but outer diameter 6 5/8 inch.	100	280	0	380	Set	148.05	56,259.00	
03-04-01810	UNICEF Commodity Code: 432512 As in item 2 but outer diameter 6 5/8 inch.	20	140	0	160	Set	163.05	26,088.00	
03-04-01811	UNICEF Commodity Code: 444139 ATLAS COPCO well drilling rig AQUA DRILL 2500 mounted on truck NL 106 x 4 with mud pump type Gardiner Denver 7 1/2 inch x 10 inch driven by 4/71 Detroit diesel engine, drilling tools and spare parts for 2 years of operation and Compreser for water drilling rig. With O&M manuals and spare parts catalogue in Arabic/English	0	0	1	1	Set	783,000.00	783,000.00	CCX 984208
03-04-01812	UNICEF Commodity Code: 442841 Desil Welding machine set type 350 A/s37, mobil on solid rubber wheels, with all standard accessories and spares for 2 years operation. To be used at 50 degree centigrade and 1200 m altitude	1	0	1	2	Set	5,143.00	10,286.00	CCX 981835
03-04-01813	UNICEF Commodity Code: 482554 Depth Indicator (sounding) for ground water measurement, portable, robust construction, measuring range 200 m, and 5 digit indication in metres and centimeters, model BFK-200/BOT.	1	1	0	2	Each	865.00	1,730.00	CCX 2698
03-04-01814	UNICEF Commodity Code: 444141 Bentonite according to API specifications	45	30	30	105	Ton	196.07	20,587.35	CCX 982167

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01815	UNICEF Commodity Code ; 444140 Drag Bits for Rotary drilling 4 BLADE design , Tungsten Carbide drag bits with 6 5/8" A.P.I REG pin connection , 4 No. 97/8" DIA , 6 No. 12 1/4" DIA. & 13 3/4 " DIA .	1	0	1	2	Each	10,686.66	21,373.32	CCX 980266
Sub-Total:								1,229,990.67	
Primary Shipping Cost (15%):								184,498.60	
Levy (3%):								36,899.72	
Grand-Total:								1,451,388.99	

PROJECT 4: RURAL WATER SUPPLIES AND SANITATION

17. Other Materials

Item	Description	Quantity			Total	Unit	Unit Price in USD	Total Price in USD	Ref.
03-04-01816	UNICEF Commodity Code: 451324 Photocopier, NP 6050 CANON NP 6062 with 10 Toner cartridges, 20 Bin Staple Sorter, Staples, Copy Drum, Spares for two years operations and English manual for Parts/Service/operation	0	0	2	2	Set	15,215.00	30,430.00	CCX 972135
03-04-01817	UNICEF Commodity Code: 451324 Photocopier, NP 6260 CANON NP 6260 with 10 Toner cartridges, 20 Bin Staple Sorter, Staples, Copy Drum, Spares for two years operations and English manual for Parts/Service/operation	0	0	2	2	Set	12,355.16	24,710.32	CCX 982826
03-04-01818	UNICEF Commodity Code:482834 Builder's Level Automatic Level , NI 50 with 400 degree/701135.9800.000S 33 tripod with screw/707234.0000.000 L41 Leveling rod/707626.0000.000 Supplied in carrying case, with operation instructions and necessary accessories	2	0	0	2	Set	580.00	1,160.00	CCX 972690
03-04-01819	Commodity code 482820 Measuring wheel up to 10000 m, resettable counter and walking stick type (A0101005)	4	0	0	4	Set	200.00	800.00	CCX 982421
03-04-01820	UNICEF Commodity Code: 482823 Electronic Theodolite with stand and other accessories, ETH50	0	1	0	1	Set	3,414.00	3,414.00	CCX 972690
03-04-01821	Optictheodolite suitable for working with ELDI 4 (Electro Optical Distance meter), UNICEF Commodity Code No. 482131, Ref. CCX 982628, manufactured by F.W. Breithaupt & Sohn, GmbH & CO. KG.P.O. Box 100569 D-3500 Kassel, Germany, Phone No.0561-772042, Telex No. 992258, Fax No. 0561-772049	0	1	0	1	Set	4,000.00	4,000.00	
03-04-01822	Desk-top computer: HP Vectra VE P11/333, 333MHz Intel pentium II, 3.2 Gb Hard Disk, 32Mb RAM, 3.5" diskette, 16 BIT audio card, 32X CD ROM, external speakers, preloaded with English + Arabic Win95 and MS Office 7.0	1	2	7	10	Set	1,734.32	17,343.20	NCX 980817
03-04-01823	UNICEF commodity code: 452150 Toshiba Satellite 320CDS Pentium233MHz MMX-4.1 GB hard drive, 32 Ram- 3.3" external floppy drive 12.1" , dual sacn colour monitor -20X CD-ROM- Lithium battery, mouse, battery pack &universal adapter (English) windows 95 &MSoffice 97.	0	3	0	3	Each	1,844.82	5,534.46	NCX 981102
03-04-01824	UNICEF Commodity Code: 454200 HP-6L laser jet printer, with 5 additional toner cartridges.	1	0	8	9	Set	738.97	6,650.73	NCX 980846
03-04-01825	UNICEF Commodity Code: 4325608 Paper for photocopiers and printers, size A4/210 x 297 mm	200	100	0	300	Ream	2.65	795.00	10-024075-01

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01826	Community maintenance tool kit consisting of the following: 1. Lubricating oil can, 200 ml capacity 2. Flat spanner set with open end one side and box type on other end of same size (10, 12, 14, 17, 19 and 22 mm) 3. Adjustable wrench, 200 mm length 4. Pipe wrench, 460 mm length 5. Pipe wrench, 600 mm length 6. Screw driver, 300 mm length 7. Grease gun, 0.6 litre capacity (A1205016) To be set packed in a cartoon box.	100	50	0	150	Set	52.55	7,882.50	CCX 982690
03-04-01827	UNICEF Commodity Code: 471131 Video camera model 9500 Panasonic NV-M9500E complete with all accessories	0	1	0	1	Set	1,230.70	1,230.70	NCX 980851
03-04-01828	UNICEF Commodity Code: 476112 VHS Video cassette tape, high grade, 2 hr (as JVC E-126 EHG or equivalent)	0	12	0	12	Each	3.90	46.80	
03-04-01829	Same as 20 but , 21 inch	0	1	0	1	Each	1,600.00	1,600.00	
03-04-01830	UNICEF Commodity Code: 472236 VCR Type SONY, SLV-X 825M1	0	1	0	1	Set	351.00	351.00	
03-04-01831	TOYOTA LAND CRUISER, 4 WD, Long wheel base, 5-door, STD 4500 cc petrol engine, 8 seater, 5-speed floor shift, colour-white, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue.	0	0	2	2	Each	13,561.65	27,123.30	
03-04-01832	UNICEF Commodity Code No. 491400 TOYOTA LAND CRUISER 4 WD Hard Top, Long wheel base, 4,500cc petrol engine, 13 seater, LHD, Model Code: FZJ75LV-MRU, Colour-white, with standard UN and export specification for Iraq including air conditioner, AM/FM Radio 2 speakers, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue.	0	2	0	2	Each	13,561.65	27,123.30	CJX 980563
03-04-01833	TOYOTA PICKUP Double cabin, 4 WD, long wheel base 2700 cc petrol engine, 5-speed floor shift, colour-white, left hand drive incl. air conditioner, power steering, fire extinguisher, FR/RR mud guards with export specifications for Iraq. With manufacturer recommended first service and fast moving spare parts kit, with manual in English and spare parts catalogue	0	0	2	2	Each	11,018.33	22,036.66	
03-04-01834	UNICEF Commodity Code: 454411 Colour scanner A4, HP 6250C Scan Jet with all software and cables.	1	1	0	2	Each	520.76	1,041.52	NCX 981167
03-04-01835	UNICEF Commodity Code: 491800 Super Shovel type Kawasaki KSS 70 Z with steel cabin, spare parts for 2 years operation and spars/service/operation manual (English)	1	0	0	1	Each	64,655.00	64,655.00	CJX 980690
03-04-01836	UNICEF Commodity Code: 491800 Kawasaki Wheel loader Model 80 ZIV-2, 2.9 M3 general purpose bucket with straight edge & teeth, -Engine:Nissan NE6TO4 diesel engine - Flywheel horsepower gross 185HP at 2,200 RPM - Tyre: 20.5-22 16 PR (L3) tubeless tyres- Sun canopy without steel Cabin/ ROPS Canopy nor air Conditioner as per supplier's offer L-ELKLC-0820 of 11 June, 1998.	0	1	0	1	Each	72,268.90	72,268.90	CJX 980691

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01837	UNICEF Commodity Code: 491800 Hydraulic Crane, TADANO TL 200E with spare parts for 2 years operation and spares/service/operation manual (English)	1	0	0	1	Each	120,000.00	120,000.00	CJX 9800412
03-04-01838	UNICEF Commodity Code: 451750 Voltage regulator for photocopier 8 Amp, 220-240 V	2	1	3	6	Each	267.12	1,602.72	CCX 982627
03-04-01839	UNICEF Commodity Code: 459100 UPS, 250 VA, 220/240 V, Model SU1400 INET	0	1	0	1	Each	506.00	506.00	CCX 980817
03-04-01840	UNICEF Commodity Code No. 491792 Hino Water Tank Truck Model Code: FF3HJSA LHD Specification No. TL-FF013, 4x2 Forward Control Body No. SS-LH4989 All Steel Bonnet Type Safety Cab, with Full Floating Cab Suspension, Safety Glass, Colour- White- Engine: Hino H07 D, Diesel, Vertical, 6 cylinder in line, overhead valve, water-cooled, direct injection type. Maximum output: 141kW/ (190 HP) at 2900 rpm- Transmission: 6-speed, direct drive, synchrmesh 2nd- 6th- clutch: Dry, Single Plate with Damper Spring, Hydraulic control- steering: Circulating Ball- Wheel & Tire: 8 stud Disk Weels (JIS Type), 9.00-20-14 Pr- Fuel Tank: 115 L. - Tank Volume: 8,578 Liters- Thickness of shell, end late and buffer plate: 3.2 mm- Tank construction: Ellipse Sectional cylindrical tank with one component. Tank with a manhole hatch with an air breather- Pump: Centrifugal Pump, 600l/min at 2500 rpm. Accessories: Suction and delivery hose 63.5 mmx3m. 2 each hose packing (spare), 4 each strainer for hose and hose wr	2	6	2	10	Each	60,000.00	600,000.00	CJX 980694
03-04-01841	UNICEF Commodity Code: Generator, 70 KVA diesel driven with spare parts for 2 years operation and Spares/Service/Operation manual (English)	0	0	1	1	Each	10,000.00	10,000.00	CCX 981913
03-04-01842	UNICEF Commodity Code: 461133 Diesel generator, 100 KVA,400/220V, 3-Phase, 50 Hz for continous operation complete set with control panel, comrising automatic mains circuit breaker, voltmeter, ammeter, hourmeter, emergency stop and keystart, high temperature and low oil pressure warnning lamp, low fuel warning; 12V voltage regulator, battery charger, water cooled with tropical radiator, air , oil & fuel filters, speed governor, scilencer, 1.5 m exhaust flexible piping, 185 liters fuel tank to run for 8 hours. Model TC 100 FM type:8061 SI 16 also including: spare parts for 2 years operation as per attached list:- operation and maintenance manual(s) and wiring diagram, in English and (if available) in Arabic- toolkit packed in strong wooden crate. ars operation and Spares/Service/Operation manual (English)	1	15	1	17	Each	11,988.44	203,803.48	CCX 981913

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01843	UNICEF Commodity Code: 461132 Diesel generator, 50 KVA,400/220V, 3-Phase, 50 Hz for continous operation complete set with control panel, comrising automatic mains circuit breaker, voltmeter, ammeter, hourmeter, emergency stop and keystart, high temperature and low oil pressure warnning lamp, low fuel warning; 12V voltage regulator, battery charger, water cooled with tropical radiator, air , oil & fuel filters, speed governor, scilencer, 1.5 m exhaust flexible piping, 142 liters fuel tank to run for 14 hours. Model TC 50 FM type:7450 I 15- engine, diesel IVECO including:- spare parts for 2 years operation as per attached list:- operation and maintenance manual(s) and wiring diagram, in English and (if available) in Arabic-toolkit packed in strong wooden crate. ars operation and Spares/Service/Operation manual (English)	1	2	2	5	Each	8,524.00	42,620.00	CCX 981913
03-04-01844	UNICEF Commodity Code: 461132 Generator, 30KVA diesel driven with spare parts for 2 years operation and Spares/Service/Operation manual (English)	0	0	9	9	Each	6,579.56	59,216.04	CCX 981913
03-04-01845	UNICEF Commodity Code: 439470 H2S strips for testing bacteriological contamination of water (small bottles)-manufactuin India.	750	150	0	900	Pcs	0.29	261.00	CCX 983484
03-04-01846	Slow dissolving chlorine tablet, in packs of 5 Kg or 4 Kg.	100	1500	500	2100	Kg	4.59	9,639.00	CCX 981723
03-04-01847	Floating Chlorinator	100	300	750	1150	Set	4.00	4,600.00	CCX 981723
03-04-01848	UNICEF Commodity Code: 461131 Generating set, diesel driven, aitude above sea level :1200meters, outside temperature range-5 to 50 degrees Celsius, capacity 4.0 KVA, including 2 spare oil filter, 2 spare fuel filter element, 1 fan belt unit.Description as per attachment. with spare parts for 2 years operation and spares/service/operation manual (English)	2	2	0	4	Each	2,690.00	10,760.00	CCX 982825
03-04-01849	A.V.O. Clampmeter, NATIONAL, BT 1102-5K, 1200K, 600V-AC, 50 Hz	3	0	0	3	Each	26.00	78.00	CCX980427
03-04-01850	Kyoritsu insulation tester (Megger), sensitivity upto 20Mohm, 5kV	3	0	0	3	Each	155.00	465.00	
03-04-01851	KOMATSUE Bulldozer D65 with 2 years spare parts and operation Operation and maintenance Manual in English and Arabic if possible.	0	1	1	2	Each	150,000.00	300,000.00	
03-04-01852	UNICEF Commodity Code:491800 Caterpillar Motograder Model 120 H powered by ACAT 3116 T Diesel Engine with rated flyweel power of 104Kw/140hp:Blade width- 3658mm. Operating Weight 12,455 Kg.as per spesification brochure AEHQ5123-01	0	0	1	1	Each	91,715.00	91,715.00	CCX 983374
03-04-01853	UNICEF Commodity Code : KOMATSU Motorgrader GD37	0	0	1	1	Each	91,715.00	91,715.00	
03-04-01854	UNICEF Commodity Code: 491740 Hino Heavy Duty Tipper Truck(Tail Gate type) Model:HINO ZY240H,Spec.NO. D-ZY199E Body No. S-DD-Y98144 -Cab: All Steel Welded Construction, Safety Glass Applied. -Gross Vehicle Weight:34,885Kg s. -Maximum Payload:20,000Kgs./13.2Cubic metersEngine;6Cylinder Diesel In line,over head Valve,Watercooled,Direct Enjection Type. Tyers:1200-24-18PR Fuel Tank:300liters	0	1	7	8	Each	69,319.32	554,554.56	CJX 980692

	Description	Dhk	Erb	Sul	Total	Unit			
03-04-01855	UNICEF Commodity Code:491990 Spare parts for Item 39	0	1	6	7	Each	8,961.10	62,727.67	
03-04-01856	Terrameter SAS 4000 resistivity, IP & SP with accessories including (Multi- electrode survey systems, borehole logging & standard field equipment) Mailing address Box 20086, S161 02 BROMMA, Sweden, (ABEM)	1	1	1	3	Set	15,000.00	45,000.00	
03-04-01857	Compact unit(DEGREMONT package plant) for drinking water production capacity 30 m3/hr contained feeding pumps, galvanized steel sedimentation tank,pressure filter, filterarion and backwash pumps, alum dosinators, and chlorinators all pumps (address 92508 Rueil- Malmaison Cedex- France).	1	4	1	6	Set	70,000.00	420,000.00	
03-04-01858	Crawler trencher for excavating trenches, diesel driven machine with: spare parts for 2 years operation :- operation and maintenance manual(s), in English and (if available) in Arabic- toolkit packed in strong wooden crate.	0	1	0	1	Set	60,000.00	60,000.00	
03-04-01859	Concrete mixer, size 1/8 yard ³ , diesel driven engine Lister or Elba Type	0	2	0	2	Set	500.00	1,000.00	
03-04-01860	Concrete mixer, size 1/4 yard ³ , diesel driven engine Lister or Elba Type	0	2	0	2	Set	700.00	1,400.00	
03-04-01861	Mobile workshop operation and maintenance manual(s), in English and (if available) in Arabic- toolkit packed in strong wooden crate.	0	1	0	1	Set	100,000.00	100,000.00	
03-04-01862	Engineering drawing board including all accessories	4	0	0	4	Set	200.00	800.00	
Sub-Total:								3,112,660.86	
Primary Shipping Cost (15%):								466,899.13	
Levy (3%):								93,379.83	
Grand-Total:								3,672,939.82	