

UNICEF WATER AND SANITATION DP Phase X

SUB-PROJECT : Rural Household Water Security

Activity : Water quality and pollution prevention:

Code	Description	Quantity	Unit of Measurement
03-04-00001	UNICEF Commodity Code:51128 Slow dissolving chlorine tablet, in packs of 5 Kg or 4 Kg, (unit is Kg). Ref.: 45017978	7000	kg
03-04-00002	UNICEF Commodity Code: 439470 H2S strips for testing bacteriological contamination of water (small bottles)-	25000	Each
03-04-00003	Floating chlorinator,	2500	set
SUB-PROJECT : Rural Environmental Sanitation			
Activity: Human Waste Disposal			
Code	Description	Quantity	Unit of Measurement
03-04-00004	Ordinary Portland cement packed in 3-ply 50 kg paper bags (equivalent to BS12), (the unit is Ton)	7,100	Ton
03-04-00005	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, (the unit is Ton)	212	Ton
03-04-00006	Concrete hollow blocks of size 20x20x40 cm (to be procured locally). For Dohuk blocks should be solid and of size 15x20x40,	1,800,000	Each
03-04-00007	Steel door with door frame for latrine of size 0.8x1.90 metres (to be locally procured).	15,000	Each
03-04-00008	UNICEF Commodity Code: 429630 Manhole cover for medium duty carriage way, size 0.5x0.5 M.	6,200	Each
03-04-00009	UNICEF Commodity Code: 429630 Manhole cover for light duty domestic use, size 0.3x0.3 M.	9,000	Each
03-04-00010	Mud bricks, size 7x11x22 cm	4,420,000	Each
03-04-00011	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. CCX 982816	15,000	Each
03-04-00012	UNICEF Commodity Code: 367242 PVC pipes for sanitary purposes with spigot and socket type suitable for solvent cement joining, with ends protection. Size 90 mm OD, 6m length and 5-6 bar.	10,500	Each
03-04-00013	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 - thickness (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. CCX 982885	1,050,000	Each
03-04-00014	Wooden pole size 4"x6m	15,000	Each
03-04-00015	Mat size 1x1.6m	15,000	Each
SUB-PROJECT : Rural Household Water Security			

Activity: Rehabilitation / Maintenance of Water Supply Systems:			
Code	Description	Quantity	Unit of measurement
03-04-00016	Air-cooled diesel engine to drive a vertical turbine pump through a right angle gear. Including cardan shafts. With centrifugal clutch, electric starter, 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, (the unit is set), Ref.: PO No. 45002836, but HP= 45	10	Each
03-04-00017	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 100mm PN 25. Ref.: CCX 98 1485	500	Each
03-04-00018	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 75mm PN 25. Ref.: CCX 98 1485	500	Each
03-04-00019	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 62mm PN 25. Ref.: CCX 98 0234	500	Each
03-04-00020	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 50mm PN 25. Ref.: CCX 98 1485	750	Each
03-04-00021	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 37 mm PN 25. Ref.: CCX 98 25 62	750	Each
03-04-00022	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 25 mm PN 25. Ref.: CCX 98 25 62	500	Each
03-04-00023	Horizontal electrical motor for vertical Turbine pumps , through right angle gear, 400 V , 50 Hz, 3 P and 1470 RPM, Capacity 15 Kw, for BP 27-15, (the unit is set)	4	set
03-04-00024	Same as item 7, capacity 22 Kw, for BP 45-12, (the unit is set)	4	set
03-04-00025	Electrical drainage submersible pump Q=35m ³ /hr, head=50m, complete set with control panel, O&M manual in English with appropriate packing.(Unit is set)	4	set
03-04-00026	Same as above , but head=80m	4	set
03-04-00027	Same as above , but head=85m	2	set
03-04-00028	Same as above, but head=110m	2	set
03-04-00029	Electrical booster pump for pumping treated water Q=30m ³ /hr, head=70m, complete set consisting from pump unit, motor, coupling, control panel, extra flanges for connecting inlet and outlet pipes, O&M manual in English with appropriate packing.(Unit is set)	1	set
03-04-00030	Electrical booster pump for pumping treated water Q=30m ³ /hr, head=100m, complete set consisting from pump unit, motor, coupling, control panel, extra flanges for connecting inlet and outlet pipes, O&M manual in English with appropriate packing.(Unit is set)	3	set

03-04-00031	Electrical booster pump for pumping treated water Q=30m3/hr, head=150m, complete set consisting from pump unit, motor, coupling, control panel, extra flanges for connecting inlet and outlet pipes, O&M manual in English with appropriate packing.(Unit is set)		3 set
03-04-00032	Electrical booster pump for pumping treated water Q=30m3/hr, head=220m, complete set consisting from pump unit, motor, coupling, control panel, extra flanges for connecting inlet and outlet pipes, O&M manual in English with appropriate packing.(Unit is set)		2 set
03-04-00033	Electrical booster pump for pumping treated water Q=30m3/hr, head=240m, complete set consisting from pump unit, motor, coupling, control panel, extra flanges for connecting inlet and outlet pipes, O&M manual in English with appropriate packing.(Unit is set)		2 set
03-04-00034	UNICEF Commodity Code: 432287 Submersible pump GRUNDFOS type, Q= (10-18) m3/hr, head= 190-135 m, 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, with low level cut-out electrode and cable, two years spare parts. CABLE TO BE SUPPLIED SEPERATELY FOR EACH PUMP AND TO BE INSTALLED ON NEW BOREWELL, (the unit is set). Ref.: CCX 982661		9 set
03-04-00035	Spare Parts for Aquadrill 2500		1 Each
03-04-00036	Hydraulic Pump drive		1 Each
03-04-00037	Coupling shaft, part No. 6990103167		2 Each
03-04-00038	Gear box, part No. 6990102806		2 Each
03-04-00039	Compressor oil filter		1 Each
03-04-00040	Oil filter assay, part No. 6990103173		4 Each
03-04-00041	Compressor air cleaner		1 Each
03-04-00042	Safety element, part No. 3965296400		8 Each
03-04-00043	Primary element, part No. 3965296200		8 Each
03-04-00044	Compressor intake		1 Each
03-04-00045	Cylinder inlet control, part No. 6990101559		2 Each
03-04-00046	Compressor control		1 Each
03-04-00047	Regulator (porp), part No. 6990101666		2 Each
03-04-00048	Pilot valve, part No. 6990101667		2 Each
03-04-00049	Filter coalescing, part No. 6990100747		2 Each
03-04-00050	Compressor & air selector valve		1 Each
03-04-00051	Valve ball, part No. 3965088504		2 Each
03-04-00052	Air /oil tank group		1 Each
03-04-00053	Separator kit, part No. 3956357600		4 Each
03-04-00054	Compressor drive coupling & mounting		1 Each
03-04-00055	Coupling Assay, part No. 6990101388		2 Each
03-04-00056	Element, part No. 6990101389		2 Each
03-04-00057	Drive ring, part No. 6990101390		2 Each
03-04-00058	Drive nub, part No. 6990101728		2 Each
03-04-00059	Bushing, part No. 6990101729		2 Each
03-04-00060	Air valve		1 Each
03-04-00061	Hydraulic cylinder, part No. 3965153900		2 Each
03-04-00062	Control lever assay, part No. 3965301400		2 Each
03-04-00063	Hose air 2", part No. 3960097000		2 Each
03-04-00064	Hose air 2", part No. 3960197200		2 Each
03-04-00065	Hose air 2", part No. 6990100630		2 Each
03-04-00066	Cooler fan motor connection		1 Each
03-04-00067	Hydraulic motor, part No. 2999-0075 (x)		2 Each

03-04-00068	Lubricator ON- OFF valve		1	Each
03-04-00069	Lubricator, part No. 6990100674		2	Each
03-04-00070	Hydraulic pump1, 3, 4 & hydraulic pump gearbox		1	Each
03-04-00071	Coupling, part No. 3965348800		2	Each
03-04-00072	Hydraulic pump, part No. 6990102832		2	Each
03-04-00073	Hydraulic pump, part No. 6990103194		2	Each
03-04-00074	Hydraulic pump, part No. 6990100803		2	Each
03-04-00075	Hydraulic pump 2, 5		1	Each
03-04-00076	Hydraulic pump, part No. 6990102832		2	Each
03-04-00077	Hydraulic pump, part No. 6990102836		2	Each
03-04-00078	Slow feed circuit		1	Each
03-04-00079	Relief valve assy, part No. 6990101030		2	Each
03-04-00080	Relief valve cartridge, part No. 6990101032		2	Each
03-04-00081	Rotation gear box circuit		1	Each
03-04-00082	Air hose, part No. 6990100630		4	Each
03-04-00083	Valve assey, part No. 6990101039		2	Each
03-04-00084	Mast assembly bottom		1	Each
03-04-00085	Pipe seal, part No. 3965345200		4	Each
03-04-00086	Guide slip 8 inch, part No. 6990103068		4	Each
03-04-00087	Guide slip 114 mm, part No.3965359800		4	Each
03-04-00088	Guide slip 12-18 inch, part No.6990102823		4	Each
03-04-00089	Mud pump discharge piping		1	Each
03-04-00090	Air/Mud hose 2", part No. 6990103274		2	Each
03-04-00091	Air/Mud hose , part No. 6990103275		2	Each
03-04-00092	Nipple, part No. 6990103276		4	Each
03-04-00093	Coupler, part No. 6990103277		4	Each
03-04-00094	Clamp, part No. 6990103278		4	Each
03-04-00095	Air/Mud hose 2 1/2", part No. 6990103279		2	Each
03-04-00096	Air/mud hose, part No., 6990103280, (unit is meter)		8	Each
03-04-00097	Nipple, part No. 6990103281		4	Each
03-04-00098	Coupler, part No. 6990103282		4	Each
03-04-00099	Clamp, part No. 6990103283		4	Each
03-04-00100	Piston mud pump		1	Each
03-04-00101	Suction hose, part No. 31410008		2	Each
03-04-00102	Hose, part No. 9H080004		2	Each
03-04-00103	Nipple, part No. 20180036		4	Each
03-04-00104	Adapter, part No. 9910128		2	Each
03-04-00105	Clamp, part No. 5560011		8	Each
03-04-00106	Floating Sub assy.		1	Each
03-04-00107	Tube, air seal, part No. 6990102376		2	Each
03-04-00108	Tube, tourque, part No.6990102377		2	Each
03-04-00109	Wiper strip, part No.3960045600		2	Each
03-04-00110	O- ring, part No.3960120000		2	Each
03-04-00111	Floating sub shaft, part No.6990388400		2	Each
03-04-00112	Collart, part No.3960094700		2	Each
03-04-00113	Adaptor, part No.6990102487		2	Each
03-04-00114	Break- out cylinder		2	Each
03-04-00115	Repair kit, part No.3960042800,		2	Each
03-04-00116	Feed cylinder		1	Each
03-04-00117	Repair kit, part No.3965370000, (unit is set)		2	set
03-04-00118	Front outrigger cylinder		2	Each
03-04-00119	Repair kit, part No., 3965114000, (unit is set)		2	set
03-04-00120	Mast tilt cylinder		2	Each
03-04-00121	Repair kit, part No. 3965349800, (unit is set)		2	set
03-04-00122	Rear outrigger cylinder		2	Each
03-04-00123	Repair kit, part No. 3965175600, (unit is set)		2	set
03-04-00124	Jib boom Extend cylinder		2	Each
03-04-00125	Repair kit, part No.3965296100, (unit is set)		2	set
03-04-00126	Jib boom swing cylinder		2	Each

03-04-00127	Repair kit, part No.3965368300, (unit is set)	2	set
03-04-00128	Air valve cylinder	1	Each
03-04-00129	Repair kit, part No.3960175800, (unit is set)	2	set
03-04-00130	Slip box & holding wrench cylinder	1	Each
03-04-00131	Repair kit, part No.6990101364, (unit is set)	2	set
03-04-00132	Gear box slide cylinder	1	Each
03-04-00133	Repair kit, part No. 6990101364, (unit is set)	2	set
03-04-00134	Rotation gear box assembly	1	Each
03-04-00135	Bearing cup, part No.3965066900	4	Each
03-04-00136	Bearing cup, part No.3965066700	4	Each
03-04-00137	Bearing cone, part No.3965066600	4	Each
03-04-00138	Bearing cone, part No.3965071500	4	Each
03-04-00139	Hydraulic motor, part No. 3965311100	4	Each
03-04-00140	Shaft seal kit, part No.3965355100	2	Each
03-04-00141	Motor seal kit, part No.3965355000	2	Each
03-04-00142	Shaft seal, part No.6990101496	2	Each
03-04-00143	Pinion, part No.3965310600	4	Each
03-04-00144	Oil seal retainer, part No. 3965064400	2	Each
03-04-00145	O- ring, part No.3965067400	4	Each
03-04-00146	Oil seal, part No.3965152200	4	Each
03-04-00147	O- ringpart No.3960097800	4	Each
03-04-00148	O- ring, part No.3965311000	4	Each
03-04-00149	Drive gear, part No.3965309600	4	Each
03-04-00150	Pipe Wrench	1	Each
03-04-00151	Wrench assay, part No. 8092012890	4	Each
03-04-00152	Jaw hook, part No. 3965014400	6	Each
	SUB-PROJECT : Hygiene Promotion		
	Activity: School Sanitation		
Code	Description	Quantity	Unit of measurement
03-04-00153	Printing and deveoing IEC materials	1	lot
	Activity: Social Mobilization:		
Code	Description	Quantity	Unit of measurement
03-04-00154	Printing and deveoing IEC materials	1	lot
	SUB-PROJECT : Rural Household Water Security		
	Activity: Training and personnal development/ Capacity Building:		
Code	Description	Quantity	Unit of measurement
03-04-00155	UNICEF Commodity Code:51128 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, (unit is set). Ref: 45009206	450	set

03-04-00156	UNICEF Commodity Code: 2069 TOYOTA 4WD HI-LUX PICKUP Double cabin, Model code RZN169L-PRMDUV, long wheel base 2700 cc petrol engine, 5-speed manual 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. Ref: PO 45015283	10	Each
03-04-00157	UNICEF Commodity Code:459100 UPS, 250 VA, 220/240 V, Model SU1400 INET. Ref.: CCX 980817	6	Each
03-04-00158	UNICEF Commodity Code: 491792 Volvo Water Tanker Truck with Calabrese tank, Safety Cab, with Full Floating Cab Suspension, Safety Glass, Colour- White- Engine Type Volvo TD61F Diesel, 6 cylinder in-line 4-stork, direct injection diesel with turbocharger, liquid cooling,fuel tank size 300 liters, Tyre size 11.00R 20", tank Volume:9,000 Liters- , tank with a manhole hatch with an air breather- Pump: Centrifugal Pump, 500l/min at 30m head, spare parts for two years operation, with O & M and spare parts manuals in English. Ref: PO 45018278	5	Each
03-04-00159	Paper for photocopiers and printers, size A4/210 x 297 mm, (unit is ream).	230	Each
03-04-00160	As in item 6, but A3 size, unit is ream	55	Each
03-04-00161	Toner for photocopier Canon,Code F41-8001-000 for NP 4050/4080 colour black.	30	Each
03-04-00162	HP Colour LASER printer 8500, (unit is set). Ref.: 45006510	1	set
03-04-00163	UNICEF Commodity Code: 454200 HP laser jet 2100 printer or equivalent, A3 & A4. additional 4MB ram, with 1 extra toner cartridge, (unit is set). Ref: 45016317	5	set
03-04-00164	Desk-top computer. Pentium Vectra VL 600, 733 MHz, 10 GB hard drive, 64 MB Ram, floppy disk, 16 Bit Audiocard, 52x CD ROM, 15" SVGA colour monitor-pre-loaded with English/Arabic Windows 98 & MS office professional Win 98 Stlye English keyboard, mouse and pad, external speakers, (unit is set). Ref: 45016317.	10	set
03-04-00165	UNICEF Commodity Code: 451324 Photocopier, NP 6260 CANON with 10 toner cartidges, 20 bin stapler sorter, staples, copy drum, spare parts for two years opertions and English manual for parts/services/operation, (unit is set). Ref: 45011813	2	set
03-04-00166	UNICEF Commodity Code: 451750 Voltage regulator for photocopier 8 Amp, 220-240 V. Ref.: CCX 982627	4	Each

03-04-00167	UNICEF Commodity Code: 51108 LECIA T 1100, keyboard No. 10636840, 1 pcs. GDF12 tribrach with opt. plummet No. 10664828, 1 pcs. GEB77 plug-in battery, 12V/0.6 Ahm No. 10439149, 1 pcs. GKL22 Charger 230 Volt, EU-standard No. 106366983, 1 pcs. GST20 Tripod, telescopic No. 10296632, angle measurement according to DIN 18723, Battery module to be used continous for 12 hours, with operation and user manuals in English. Ref: 45008920.		2 Each
03-04-00168	UNICEF Commodity Code: 454411 Colour Scanner, SCANJET 6100C, inciuding software (COREL PHOTO-PAINT & ADOBE PHOTO - PAINT) and SCSI cable.(To be used with A4 paper) P/N C6267A. Ref: 980817		2 Each
03-04-00169	UNICEF Commodity Code: 1028 Battery, 12V x 11P x 60 amp-hour, for Toyota pick-up		10 Each
03-04-00170	UNICEF Commodity Code: 1028 Battery, 12V x 19P x 135 amp-hour, for Garbage collectors and sewage tankers (HINO, KB 422).		10 Each
03-04-00171	UNICEF Commodity Code: 1028 Battery, 12V x 13P x 90 amp-hour, for Land cruiser and Nissan patrol		10 Each
03-04-00172	UNICEF Commodity Code: 1028 Tyre with internal tube, size 1200x20		80 Each
03-04-00173	UNICEF Commodity Code: 710122 Service truck with rear cab crane 8.5 tons lifting capacity and fixed body. Ref: 45017638		2 Each
03-04-00174	Mobile concrete mixer (1000)L, Ref No. A0402009 (AQUA PLUS)		3 Each
03-04-00175	UNICEF Commodity Code: 610468 General Cargo diesel truck 16 ton, Ref: PO No. 45014222		3 Each
03-04-00176	Overhead projector PROXIMA DP 5800, with carrying case and all accessories, other specifications as per the supplier offer with 10 spare lamps, Ref: JDN E-1301		2 Each
03-04-00177	Trailer mounted test pump unit manually operated, lighth weight trailer mounted well test pumping test suitable for 4.5" to 6.5" dia. Water wells down to 120m, using submersible pumps, all components installed on trailer Ref. No. A 0308001(AQUA PLUS)		2 Each
	SUB-PROJECT : Rural Household Water Security		
	Activity: Construction Water Supply Systems:		
Code	Description	Quantity	Unit of measurement
03-04-00178	UNICEF Commodity Code:412713, casing pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water borehole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m, outer diameter 8 5/8 inch. Ref.: CCX 98 3912		820 Each
03-04-00179	UNICEF Commodity Code:412713, slotted casing pipe, mild steel, Grade ST-37 as per DIN 17100, food grade for lining of water borehole, one end male threaded, heavy duty female socket on the other end, to be produced according to DIN 4922 in lengths of 5.80 m, outer diameter 8 5/8 inch, Ref.: CCX 98 3912		270 Each
03-04-00180	Galvanized pipe for drinking water supply, mild steel, welding joint, 200mm diameter, 6m length		420 Each

03-04-00181	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 150mm PN 25. Ref.: CCX 98 1485	1750	Each
03-04-00182	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 100mm PN 25. Ref.: CCX 98 1485	5200	Each
03-04-00183	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 75mm PN 25. Ref.: CCX 98 1485	5500	Each
03-04-00184	GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 62mm PN 25. Ref.: CCX 98 0234	8750	Each
03-04-00185	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 50mm PN 25. Ref.: CCX 98 1485	12450	Each
03-04-00186	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 37 mm PN 25. Ref.: CCX 98 25 62	12050	Each
03-04-00187	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 25 mm PN 25. Ref.: CCX 98 25 62	8800	Each
03-04-00188	UNICEF Commodity Code:412713, GI pipe for drinking water supply, both ends male threaded ISO 7, female threaded socket fitted to one end, ND 19 mm PN 25. Ref.: CCX 98 25 62	7300	Each
03-04-00189	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 19 mm, PN 16.	170	Each
03-04-00190	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 25 mm, PN 16.	170	Each
03-04-00191	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 37 mm, PN 16.	225	Each
03-04-00192	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 50 mm, PN 16.	350	Each
03-04-00193	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 62 mm, PN 16.	350	Each
03-04-00194	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 75 mm, PN 16.	350	Each
03-04-00195	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 100 mm, PN 16.	300	Each
03-04-00196	Bronze heavy type gate valve set with hand wheel, clockwise closing, FxF, threaded to BS 21 (ISO R7), ND = 150 mm, PN 16.	55	Each

03-04-00197	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 19mm, PN 16. Ref.: CCX 98 2740	7000	Each
03-04-00198	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 25mm, PN 16. Ref.: CCX 98 2740	3000	Each
03-04-00199	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 37mm, PN 16. Ref.: CCX 98 2740	2800	Each
03-04-00200	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 50mm, PN 16. Ref.: CCX 98 2740	2300	Each
03-04-00201	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 62mm, PN 16. Ref.: CCX 98 2740	1900	Each
03-04-00202	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 75mm, PN 16. Ref.: CCX 98 2046	1750	Each
03-04-00203	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 100mm, PN 16. Ref.: CCX 98 2046	1450	Each
03-04-00204	GI equal elbows for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, 90 degree, FxF, ND 150mm, PN 16, REF: CCX 982046	70	Each
03-04-00205	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 16. Size 25mm. Ref.: CCX 982747	100	Each
03-04-00206	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 25. Size 37mm, Ref.: CCX 982747	250	Each
03-04-00207	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 16. Size 50mm, Ref.: CCX 982747	250	Each
03-04-00208	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 16. Size 62mm, Ref.: CCX 982747	200	Each
03-04-00209	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 16. Size 75mm, Ref.: CCX 982747	200	Each
03-04-00210	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 16. Size 100mm, Ref.: CCX 982747	150	Each
03-04-00211	GI equal elbows, 45 degrees, for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF, PN 16. Size 150mm.	20	Each
03-04-00212	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 19mm, PN 16, Ref.: CCX 98 2740	1350	Each
03-04-00213	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 25mm, PN 16, Ref.: CCX 982740	1350	Each

03-04-00214	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 37mm, PN 16, Ref.: CCX 982740	1750	Each
03-04-00215	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 50mm, PN 16, Ref.: CCX 982740	1250	Each
03-04-00216	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 62mm, PN 16, Ref.: CCX 982740	1550	Each
03-04-00217	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 75mm, PN 16, Ref.: CCX 982740	1250	Each
03-04-00218	GI equal tee joints for drinking water supply conforming to iso R 49 and threaded to ISO R 7, FxFxF, MD 100mm, PN 16, Ref.: CCX 98 2046	450	Each
03-04-00219	GI equal tee joints for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxFxF, MD 150mm, PN 16, Ref.: CCX 98 2046	105	Each
03-04-00220	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R7, FxF, PN 16 ND 19 mm. Ref.: CCX 98 2063	5500	Each
03-04-00221	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R7, FxF, PN 16 ND 25 mm. Ref.: CCX 98 2063	1850	Each
03-04-00222	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R7, FxF, PN 16 ND 37 mm. Ref.: CCX 98 2063	2500	Each
03-04-00223	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R7, FxF, PN 16 ND 50 mm. Ref.: CCX 98 2063	2250	Each
03-04-00224	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R7, FxF, PN 16 ND 62 mm. Ref.: CCX 98 2063	1800	Each
03-04-00225	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, PN 16 ND 75mm Ref.: CCX 98 2046	1600	Each
03-04-00226	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, PN 16 ND 100mm. Ref.: CCX 98 2046	1150	Each
03-04-00227	GI equal unions for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, PN 16 ND 150mm. Ref.: CCX 98 2046	125	Each
03-04-00228	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 19mm. Ref.: CCX 982733	4400	Each
03-04-00229	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 25mm . Ref.: CCX 982733	4300	Each
03-04-00230	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 37mm inch. Ref.: CCX 982733	4500	Each

03-04-00231	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 50mm. Ref.: CCX 982733	3800	Each
03-04-00232	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 62mm. Ref.: CCX 982733	2250	Each
03-04-00233	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 75mm. Ref.: CCX 982733	2250	Each
03-04-00234	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 100mm. Ref.: CCX 982733	1500	Each
03-04-00235	GI equal nipples (hexagonal or parallel) for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), MxM. PN 16. Size 150mm.	100	Each
03-04-00236	GI equal sockets for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF. PN 16. Size 19 mm, Ref.: CCX 982733	500	Each
03-04-00237	GI equal sockets for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF. PN 16. Size 25 mm, Ref.: CCX 982733	200	Each
03-04-00238	GI equal sockets for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF. PN 16. Size 37 mm, Ref.: CCX 982733	100	Each
03-04-00239	GI equal sockets for drinking water supply conforming to ISO R49 and threaded to BS21 (ISO R7), FxF. PN 16. Size 50 mm, Ref.: CCX 982733	100	Each
03-04-00240	GI reducer joints for drinking water supply conforming to ISO R 49 and threaded to ISO R 7, FxF, size 150mm x 100mm , PN 16, Ref.: CCX 98 2046	65	Each
03-04-00241	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. PN 16. Size 100 x 75 mm. Ref.: CCX 982747	350	Each
03-04-00242	UNICEF Commodity Code: 412837.As above but size 100 x 62 mm, Ref.: CCX 982747	270	Each
03-04-00243	UNICEF Commodity Code: 412837. As above but size 100 x 50 mm.Ref.: CCX 982747	270	Each
03-04-00244	UNICEF Commodity Code: 412837.As above but size 75 x 62 mm.Ref.: CCX 982747	350	Each
03-04-00245	UNICEF Commodity Code: 412837.As above but size 75 x 50 mm.Ref.: CCX 982747	350	Each
03-04-00246	UNICEF Commodity Code: 412837. As above but size 75 x 37 mm.Ref.: CCX 982747	350	Each
03-04-00247	UNICEF Commodity Code: 412837.As above but size 75 x 25 mm.Ref.: CCX 982747	350	Each
03-04-00248	UNICEF Commodity Code: 412837.As above but size 62 x 50 mm.Ref.: CCX 982747	450	Each
03-04-00249	UNICEF Commodity Code: 412837.As above but size 62 x 37 mm.Ref.: CCX 982747	400	Each
03-04-00250	UNICEF Commodity Code: 412837.As above but size 62x 25 mm.Ref.: CCX 982747	450	Each
03-04-00251	UNICEF Commodity Code: 412837.As above but size 62 x 19 mm.Ref.: CCX 982747	350	Each

03-04-00252	UNICEF Commodity Code: 412837.As above but size 50 x 37 mm.Ref.: CCX 982747	500	Each
03-04-00253	UNICEF Commodity Code: 412837.As above but size 50 x 25 mm.Ref.: CCX 982747	550	Each
03-04-00254	UNICEF Commodity Code: 412837.As above but size 50 x 19 mm. CCX 982747	450	Each
03-04-00255	UNICEF Commodity Code: 412837.As above but size 37 x 25 mm. CCX 982747	600	Each
03-04-00256	UNICEF Commodity Code: 412837.As above but size 37 x 19 mm. CCX 982747	450	Each
03-04-00257	UNICEF Commodity Code: 412837.As above but size 25 x 19 mm. CCX 982747	1350	Each
03-04-00258	UNICEF Commodity Code: 412417Brass non return valve, for potable water, FxF. PN 16. Size 37 mm.Ref.: CCX 982658	100	Each
03-04-00259	UNICEF Commodity Code: 412417. As above but size 50 mm. CCX 982658	100	Each
03-04-00260	UNICEF Commodity Code: 432417. As above but PN 16, size 62 mm.CCX 982658	130	Each
03-04-00261	UNICEF Commodity Code: 432417. As above but size 75 mm. CCX 982658	100	Each
03-04-00262	UNICEF Commodity Code: 432417. As above but size 100 mm. CCX 982658	60	Each
03-04-00263	As above but size 150 mm.	15	Each
03-04-00264	Brass air valve FxF, PN 16 size 100mm	35	Each
03-04-00265	Brass air valve FxF, PN 16 size 75mm	35	Each
03-04-00266	Brass air valve FxF, PN 16 size 63mm	35	Each
03-04-00267	Brass air valve FxF, PN 16 size 50 mm	35	Each
03-04-00268	Brass air valve FxF, PN 16 size 37mm	35	Each
03-04-00269	Brass air valve FxF, PN 16 size 25mm	10	Each
03-04-00270	UNICEF Commodity Code: 432400 Water tap, brass, with T-handle and threaded as per ISO 228, size 20 mm (3/4 inch). PN 10. Ref.: CCX 980380	6500	Each
03-04-00271	UNICEF Commodity Code: 432287 Submersible pump GRUNDFOS type, Q= (10-18) m3/hr, head= 190-135 m, 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, with low level cut-out electrode and cable, two years spare parts. CABLE TO BE SUPPLIED SEPERATELY FOR EACH PUMP AND TO BE INSTALLED ON NEW BOREWELL, (the unit is set). Ref.: CCX 982661	22	set
03-04-00272	UNICEF Commodity Code: 432287 As above, but Q= 4-8 m3/hr, head= 124-90 m. (the unit is set) Ref: CCX 982662	10	set
03-04-00273	UNICEF Commodity Code: 432287 As above but, but Q= 4-11 m3/hr, head= 220-100 m, (the unit is set), CCX 982662	12	set
03-04-00274	As above, but Q=18 m3/hr, head=200m	9	set
03-04-00275	As above but Q= 10m3/hr, head= 140m	7	set
03-04-00276	As above, but Q= 20m3/hr, head= 340m	5	set
03-04-00277	Solar powered Grundfos submersible pump, Qmax= 180m3/day, head=200m, liquid temp.=40C	11	set

03-04-00278	UNICEF Commodity Code: 432271 Diesel driven centrifugal surface mounted water pump, diesel engine, brackets with anti-vibration mountings, includes electrical starter. With two years spare parts. Altitude 1200m, capacity 10m ³ /hr and 60m head (Hatz type).(the unit is set) Ref: CCX 982729		12 set
03-04-00279	As above, but 80m head, CCX 982729		12 set
03-04-00280	As above, but 180m head		10 set
03-04-00281	Deep well turbine pumping system, operating at 2,700 RPM for pumping clean water to fit in a 8 inch bore well, Q=10 cum/hr and head = 133 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 centrifugal clutch, electric starter, heavy duty oil bath, air cleaner, speed governor, silencer exhaust pipe, mounted fuel tank, with column pipes and line shafts, foot valve with strainer, water level indicator, tool-kit, spare parts for 2 years operation, O&M manual in English and spare parts catalogue with appropriate seaworthy packing. Please note that temperatures in summer exceeds 50 degree Celsius and reaches -15 degree Celsius in winter. The engine should be (Dutez Type) and the pump (Rovatti Pump type 6V03/10, with the set 40 No. mild steel welded hot dip galvanized pipes of 3m length, (the unit is set)		17 set
03-04-00282	Same as above but Q = 8 cum/hr, H= 140 m, (the unit is set)		6 set
03-04-00283	Same as above but Q = 12 cum/hr, H= 180 m, (the unit is set)		12 set
03-04-00284	UNICEF Commodity Code: 432225 Handpump, INDIA MARK III, 40 m well- Cat No. 9184, complete set including connecting rods and riser pipes, (the unit is set), CCX 982659		10 set
03-04-00285	UNICEF Commodity Code: 432225 Shallow well hand pump (Nepal type), complete set. Ref: CCX 971543		10 Each
03-04-00286	UNICEF Commodity Code: 432254 Deepwell turbine pump complete with body(bowls and impellers), discharge column(Column 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 4x6MM ² and 4 PCS cable gland, spare parts for two years operatoin, O&M manual in English with appropriate packings, , (the unit is set)		2 set

03-04-00287	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 warning 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, operation and maintenance manual(s) and wiring diagram, in English and (if available) in Arabic- toolkit packed in strong wooden crate, with operation and Spares /Service / Operation manual (English). Ref.: PO No. 45013528		3 set
03-04-00288	Same as above, but 70 KVA		7 set
03-04-00289	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 warning 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, operation and maintenance manual(s) and wiring diagram, in English and (if available) in Arabic-toolkit packed in strong wooden crate, with operation and Spares / Service/ Operation manual (English), PO No. 45013531		8 set
03-04-00290	UNICEF Commodity Code: 461132 Diesel generator, 30 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 temperatur, PO No. 45013528		2 set
03-04-00291	UNICEF Commodity Code: 461133 Diesel generator, 200 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 temperatur, CCX 981972.		2 set
03-04-00292	Ordinary Portland cement packed in 3-ply 50 kg paper bags (equivalent to BS12), (the unit is Ton)		2120 ton
03-04-00293	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, (the unit is Ton)		70 ton
03-04-00294	UNICEF Commodity Code: 414060 As above but size 12 mm dia., (the unit is Ton)		235 ton
03-04-00295	UNICEF Commodity Code: 414060 As above but size 16 mm dia., (the unit is Ton)		120 ton
03-04-00296	As above but 25mm dia., (the unit is Ton)		30 ton

03-04-00297	UNICEF Commodity Code: 429661 Mild steel binding wire (flexible), 1 mm diameter, fully annealed, used to tie reinforcing bars for concrete work, supplied in coils of 50 kg (approx), (the unit is Kg)	3000	kg
03-04-00298	Concrete hollow blocks of size 20x20x40 cm (to be procured locally). For Dohuk blocks should be solid and of size 15x20x40,	800000	Each
03-04-00299	UNICEF Commodity Code: 412522 50x50x3 mm angle iron, mild steel, of 6 metres length.	300	Each
03-04-00300	Manhole cover for light duty manufactured from angle iron and plate, size 0.3x0.3 M.	150	Each
03-04-00301	Manhole cover for light duty manufactured from angle iron and plate, size 0.5x0.5 M.	750	Each
03-04-00302	Steel door with door frame for pump house of size 1 x 2 metres (to be locally procured).	50	Each
03-04-00303	Steel door with door frame for pump house of size 2.5 x 2.8 metres (to be locally procured).	35	Each
03-04-00304	Steel door with door frame for pump house of size 1.5 x 2.1 metres (to be locally procured).	20	Each
03-04-00305	Manhole cover for deep well pump house size 1x2 m	35	Each
03-04-00306	Steel window for pump house size 1.2x1.5m	110	Each