

AGENCY:	<b>UNICEF</b>		
PHASE:	<b>VII</b>		
SECTOR:	<b>Water and Sanitation</b>		
PROJECT:	<b>funded from savings</b>		
CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-11-00001	Mild steel deformed reinforcing bars in 6 meter length (+/- 100 mm), size: Dia 12 mm	1,000	Ton
03-11-00002	Centrifugal booster pump for pumping treated water from Ingersoll Dresser Pump(IDP). Q=82cum/hr, H=380m Coupled with electrical driven motor with soft starter and automatic circuit breaker connection and with control panel. 380V, 50Hz, 3 phase, 1450 RPM. Max altitude 1,000m. With spare parts for 2 years operation, spare parts/operation manual in English, and necessary valves, non-return valves, flanges, elbows, reducers FOR NEW INSTALLATION. CABLE TO BE PACKED SEPARATELY WITH EACH SET	6	Set
03-11-00003	Ditto, as above but: Q=68 cum/hr, H=343m	6	Each
03-11-00004	Ductile iron pipe with rubber gasket joints (Tighten joints) with rubber gaskets, 6 meters nominal length, 6 inch diameter. PN 25	35,000	Each
03-11-00005	Same as above but 8 inch diameter	20,500	Each
03-11-00006	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	8,000	Each
03-11-00007	Ditto but, PN 25, size 4 inch.	12,350	Each
03-11-00008	Spare part for Ingrsoll-Dresser pump Q=700m <sup>3</sup> /hr, H=220m, V=3300v, 50Hz, pump type 10UZD1 Motor S.N:67775 to 67779. Pump S.N: SP1720002703/03, 03/05, 03/06, 01/03. Shaft Sleeve= 24No. Ball bearing: 48 No.	1	Set
03-11-00009	Calcium hypochlorite in granular form having minimum 65-70% chlorine packed in 45 or 50 Kg plastic container/ drums of export quality. (Hypocal = Registered brand (HTH) of OLIN.	110,000	Kg
03-11-00010	Chlorine gas (purity 99.7%) in one ton cylinder (empty cylinders will be provided by the Iraqi government) including repairing of old chlorine cylinders before refilling.	100	Ton

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-11-00011	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.	40	Ton
03-11-00012	Aluminum sulfate 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.	230	Ton
03-11-00013	Gas masks/breathing apparatus for protection from chlorine gas used in water treatment facilities.	100	Each
03-11-00014	Aluminum sulfate Diaphragm dosing pump with variable manual stroke control mechanism with 2.5 meter suction hose and 3.5 meter discharge hose and relief valve for pump protection against over pressure Q=100 l/hr, H=2 bar 240v, 50 HZ, single phase with all accessories required for installation and spare parts for 2 years operation and O&M manual in English/ Arabic with parts catalogue.	2	Set
03-11-00015	Same as above but: Q=500/hr, H=2 bar	4	Set
03-11-00016	Desk-top Computer. Pentium III, 733 MHZ hard drive, 64mb RAM, floppy disk, 16 Bit audio card, 52x CD ROM, 15" SVGA color monitor-pre-loaded with English/ Arabic windows 98 & ms office professional win 98 style English keyboard, mouse and pad, external speakers or equivalent.B38	2	Each
03-11-00017	LaserJet printer with 4 MB RAM printer, or equivalent, A3 & A4., with extra toner cartridges	2	Each
03-11-00018	Photocopier, approx 45 copies per minute A4 & A3 cassettes, with voltage stabilizer, supplied complete with manufacturers recommended service and spare parts for two years operation, operation, service and parts manuals in English.	1	Each
03-11-00019	Vehicle 4 WD double cab pick up. 2700cc petrol engine, LHD, 4-door, 5 speed manual floor shift, 6 seater, white color. Optional items required as standard: power steering, owners, workshop repair, parts manual in English and spare parts kit. With Air-conditioning system.	1	Each
03-11-00020	Printing machine for Maps, type DYZO with spare parts for two years operation and accessories	1	Each
03-11-00021	Voltage stabilizer	2	Each
03-11-00022	UPS, for desk top computer	2	Each
03-11-00023	Scanner A3, type 600 DPI	1	Each
03-11-00024	Excavator, POCLAIN type 788, wheel type, with jack hammer and (40, 60, 80, 100) cm width, 0.2 cum excavating bucket, equivalent.	0	Each
03-11-00025	Lap top computer with carrying bag and accessories	1	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-11-00026	Survey instrument, <b>Total Station</b> , complete set with all accessories.	1	
03-11-00027	Measuring wheel up to 10,000 meter type A0101005.	2	Each
03-11-00028	JCB Sitemaster 3CX, one standard front bucket, rear excavator piped for rock breaker. Supplied with JCB rock breaker 2*18 inch. Peaks and 1*100 mm Chiesel 18 inch protrution, rear bucket: 0,45 meter, 0.6, 0.7, 0.85, with spare parts for two years operation, service and Manual English.	4	Each
03-11-00029	Electrical drainage submersible pump Q=35m <sup>3</sup> /hr, head=80m, complete set with control panel, O&M manual in English with appropriate packing. (Unit is set)	6	Set
03-11-00030	Electrical booster pump for pumping treated water Q=30m <sup>3</sup> /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)	4	Set
03-11-00031	Electrical booster pump for pumping treated water Q=68m <sup>3</sup> /hr, head=348m, 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
03-11-00032	Slow dissolving chlorine tablet, in packs of 5 Kg or 4 Kg, (unit is Kg)	5,700	Each
03-11-00033	H2S strips for testing bacteriological contamination of water (small bottles)	22,500	Each
03-11-00034	4WD PICK UP Double cabin, 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.	4	Each
03-11-00035	Hydraulic Crane, TADANO TL 100E with spare parts for 2 year operation and spares/servic/operation manual in English. Capacity cargo 10 ton.	0	Each
03-11-00036	Heavy Duty Tipper Truck: (tail gate type), Cab-All Steel Welded Construction, Safety Glass Applied. Maximum Payload: 20,000Kgs./ 13.2Cubic meters Engine; 6 Cylinder Diesel In line, over head Valve, Watercooled, Direct injection Type. Tyres:1200-24-18PR, with spare for O & M, Fuel Tank: 300 litres.	0	Each
03-11-00037	Hydraulic Crane, TADANO TL 200E with spare parts for 2 year operation and spares/servic/operation manual in English.	0	Each
03-11-00038	Excavator with standard bucket, rear excavator piped spares case backhoe loader/ excavator 590 SEL, 4-wheel drive/side shift extendahoe dipper, cab with press & heater, mirror & working light, air conditioner, spare parts for 2 years operation and spares/service/operation manual in English.	0	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-11-00039	Mobile concrete mixer (1000)L,	2	Each
03-11-00040	Desk-top Computer. Pentium III 450, 8.2 GB hard drive, 64 MB RAM, floppy disk, 16 Bit Audiocard, 52x CD ROM, 15" SVGA color monitor-pre-loaded with English/ Arabic windows 98 & MS office professional Win 98 Style English keyboard, mouse and pad, external speakers, (unit is set)	3	Set
03-11-00041	Computer laptop Pentium 233 MHz MMX-4.1 GB hard drive, 32 Ram-3.3" external floppy drive 12.1", dual scan colour monitor-20X CD-ROM-Lithium battery, mouse, battery pack & universal adapter (English) Windows 98 & MSoffice 2000. Or equivalent.	3	Each
03-11-00042	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 (A 1205016) To be packed in a carton box (unit is set)	382	Set
03-11-00043	Road Roller compactor type SAKAI, model SV90T, with spare parts for two years operation	0	Each
<b>Urban Household Water Security</b>			
03-11-00044	Motor set for Grundfos submersible pump with tail cable and cable joint and control panel, 400V, 50HZ, 3PH, capacity 15KW for SP (17-27)MS 6000	10	Set
03-11-00045	Ditto item above but capacity 18.5KW for SP (17-33) MS 6000	20	Set
03-11-00046	Ditto item above but capacity 22KW for SP(30-26) MS 6000	20	Set
03-11-00047	Special hand tools for submersible pumps	3	sets
03-11-00048	Steel tank for gasoline made from 6mm steel sheet of 6.4m length and 2.5m height of capacity 32000 litter painted with 2 coats of red lead and two coats of white color as per attached sketch.	1	Each
03-11-00049	Nylon tent for drilling rig (4x5) m	1	Each
03-11-00050	Battery 12 x 21 x 180 Ampere-hour for drilling rig carrier	2	Each
03-11-00051	Tyre with internal tube, size 1200 x 20 for VOLVO drilling rig carrier	6	Each
03-11-00052	Battery 12 x 19 x 150 Ampere-hour for drilling rig water tanker	2	Each
03-11-00053	Tool box (60x60x100) cm made from 4mm plate painted by 2 coats with red lead and 2 coats of white oil paint with flexible door at the front including lock as per attached sketch.	1	Each
03-11-00054	Traction hook	2	Each
03-11-00055	Water tank, (40 x 40 x 50) cm made from 4mm plate painted by 2 coats with red lead and 2 coats white oil paint with inlet 1" and outlet tap of size 3/4".	1	Each
03-11-00056	Steel rope (0.5)" with joints	25	Each

CODE	Description	QUANTIT Y	UNIT OF MEASURE
03-11-00057	Plastic hose 2.5"	20	Each
03-11-00058	Tool box (200x60x60) cm made from 4mm plate painted by 2 coats with red lead and 2 coats of white oil paint with flexible door at the front including lock as per attached sketch.	1	Each
03-11-00059	Tyre with internal tube, size 1100 x 20 for VOLVO water tanker.	4	Each
03-11-00060	Battery 12 x 19 x 150 Ampere-hour for drilling rig service truck	2	Each
03-11-00061	Battery 12 x 13 x 70 Ampere-hour for land-cruiser	1	Each
03-11-00062	Oil filter	10	Each
03-11-00063	Hydraulic motor power, 5 ton	1	Each
03-11-00064	Hydraulic fluid, unit is liter	50	Each
03-11-00065	Steel rope 3/4", unit is meter	60	Each
03-11-00066	Carrying hook	1	Each
03-11-00067	Pulley	8	Each