

# ANNEX AGR I -8

**Sector:** AGRICULTURE

**Sub-Sector:** IRRIGATION

**Activity:** Surveying and monitoring of water storage structures

**Priority within the Sector:** First

**Total requested fund :** \_\_\_\_\_

Code	Item Description and its complementary items ( if applicable )	Intended use (and targeted end user)	Qty. in unit	Requested fund US \$ ( 000 )	Allocation Criteria	Time frame	
						Optimal application	Optimal delivery
05-08-00001	Instrumentation Requirements . See App. 10B	Improving monitoring processes in dams and barrages. (All existing dams and barrages)	As stated in App. 10B		Survey / inspection	ALL YEAR	AS SOON AS POSSIBLE
05-08-00002	Surveying Equipment's See App. 10C	Improving monitoring processes in all irrigation projects. (All relevant projects in the 15 Governorates)	As stated in App. 10C		Survey / inspection and investigation	ALL YEAR	AS SOON AS POSSIBLE

## APPENDIX 8 .

### WATER WELL DRILLING REQUIREMENTS

Code	DESCRIPTION	QUANTITY
05-08-00003	<b>Truck Mounted Rotary Table Drilling Rig</b> , capable to drill water wells up to depth (250m) with operating tools and accessories.	*18 Units
05-08-00004	<b>Truck Mounted Top Head Drilling Rig</b> , capable to drill water wells up to depth (450 m) by using air and mud with operating tools, auxillary truck mounted compressors, accessories. drilling mud , foam , rock oil ,CMC,Quebracho , Quik trol , Quik gel.	*20 Units
05-08-00005	<b>Truck Mounted Top Head Drive Drilling Rig</b> , capable to drill water wells up to depth (800 m) by using air and mud with operating tools, auxillary truck mounted compressors, accessories, drilling mud ,foam , rock oil ,CMC , Quebracho , Quik trol , Quik gel.	2 unit
05-08-00006	Diesel truck mounted compressors for water well development ( capacity 250 psig -600 CFM ).	3
05-08-00007	Diesel truck mounted compressors for water well development ( capacity 500psig - 400 CFM ) .	3
05-08-00008	Diesel truck mounted compressors (Auxilliary) for drilling of (300-400 ) psig working pressure and (900-1000) ft3/min actual free air delivery	4
05-08-00009	<b>Spare Parts &amp; Accessories</b> for existing drilling rigs, type (Speed Star - 15) - Rotary Drive	10
05-08-00010	- Tri Cone rock Bits (size 15 & 17 1/2 inch) for medium & hard formations.	200
05-08-00011	- Swivel repair kit	50
05-08-00012	- Swivel hose	10
05-08-00013	- Steel wire for drawworks	700m
05-08-00014	- Mast jack and repair kit	14
05-08-00015	- Draw works (complete)	5
05-08-00016	- Rotary repair kits	4
05-08-00017	- Coupling for rotary drive	10
05-08-00018	- Hydraulic motors	6
05-08-00019	- Centralizing jacks for rigs	5 sets
05-08-00020	- Overhaul repair kits for engine	6 sets
05-08-00021	- Shaft for mud pumps 7 1/2 x 10	60
	<b>Spare Parts for Drilling Equipments</b>	
05-08-00022	- Standard auger , excavation diam 1500mm	1

\* amended 27 April 2000

<b>Code</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
05-08-00023	- Standard auger , excavation diam 2000mm	1
05-08-00024	- HD auger , excavation diam 1500mm	1
05-08-00025	- HD auger , excavation diam 2000mm	1
05-08-00026	- Rock auger , excavation diam 1500mm	1
05-08-00027	- Rock auger , excavation diam 2000mm	1
05-08-00028	- Tooth Esco T - 18	50
05-08-00029	- key	100
05-08-00030	- Rubber Retainer	100
05-08-00031	- T-18 tooth holder	20
05-08-00032	- Tooth Esco T -25	50
05-08-00033	- T-25 tooth holder	25
05-08-00034	- Flex Ball control	31
05-08-00035	- Kelly Bar for RT3, 4x12m	2
05-08-00036	- Remote Control	4
05-08-00037	-Revolving head	8
05-08-00038	- Thrust bearing	6
05-08-00039	- Kelly bar for RTC, 4x12m	1
05-08-00040	- Joint Complete	4
05-08-00041	- Bearing	18
05-08-00042	- Flex Ball	6
05-08-00043	- Joint	6
	<b>Spare Parts for Boring Rig</b>	
05-08-00044	- Kelly bar for BG14 bar type 3/32 2-Lock	1
05-08-00045	- Swivel ID - No. 218318	2
05-08-00046	- Bucket Dia 1350mm	2
05-08-00047	- Bucket Dia 900mm	2
05-08-00048	- Flat tooth fz 64	20
05-08-00049	- Flat tooth holder	20
05-08-00050	- Lock pin	20
05-08-00051	- Automatic operation Card(pms) cosisting of : 9.1 - Limit regulator	1
05-08-00052	- 9.2- Adapter ID No. 256404	1
05-08-00053	- 9.3- Adapter ID No. 256405	1
05-08-00054	- Main hydraulic pump for BG 14	1
05-08-00055	- 20-Ton rig , inclusive 50 meter rods and mechanical cones , mounted on truck with all necessary materials and data router with new computer system , interface with program , cones , rods , cables ,... etc	1
05-08-00056	- Terraloc 24channel seismograph MK6 with all its accessories.	1
05-08-00057	- ABEM Printer, Cable ,Thermal Paper	1
05-08-00058	- Bore Hole Pick Model 3315 up to 100 meter depth.	2

<b>Code</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
05-08-00059	-Flight Auger with standard Hexagon Connection , outer diameter ( 101 mm ) , length ( 5 ft )	60
05-08-00060	- P/S -Wave Transducers	5
05-08-00061	- Aw. Drill Rod, length ( 10 ft )	60
05-08-00062	- Sounding Line Measurement System , ( 50 M ) Long.	5
05-08-00063	- Outer tube for wire line core Model SK 6L length ( 1500 mm )	10
05-08-00064	- Lock Screw for H.S. Auger , diameter (7/8 in )	600
05-08-00065	<b>Spare parts and accessories for well pumps</b> - column bearing (spider ) different sizes	10200
05-08-00066	- steel shafts different diameter and length	6200
05-08-00067	- galvanized pipes different diameter	38000 meter
05-08-00068	- gear box different sizes	400
05-08-00069	- electrical cable different cross - sections	26000 meter
05-08-00070	- starters	160 pcs
05-08-00071	- vertical and submersible motors for wells	360
05-08-00072	- diesel engines for wells	500
05-08-00073	- foot valve different sizes	1000
05-08-00074	- bowel assembly different sizes	220
05-08-00075	- impeller with split cone and net different sizes	5000
05-08-00076	- chambers for pumps different sizes	2000
05-08-00077	- ball bearing different sizes	1500
05-08-00078	<b>Casing pipes</b> according to API. 5CT J - 55 standard (Blank and Slotted) and Johnson type screens .	300000 meter
05-08-00079	<b>Grouting drilling pipes</b> length 1.5 m/pc outside diameter 63.5 mm thickness 6.3 mm, weight/pc 16kg	1500
05-08-00080	Servicing rigs mounted on truck for water well maintenance and pumps installation	8
05-08-00081	-Steel pipes 4 inch dia with coupling for groutings	4000 m
05-08-00082	-Electric water level sounder for wells	60
05-08-00083	-Mobile caravan mounted on chassis	80
05-08-00084	-Shaft boring machine up to 3 m diameter - up to 100m. depth	1
05-08-00085	-Geoelectrical sounding	1
05-08-00086	- Electromagnetic	1
05-08-00087	-Well logging	1