

ANNEX AGR I - 10

Sector: AGRICULTURE

Sub-Sector: IRRIGATION

Activity: Water and soil analyses

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
05-10-00001	Spare Parts For Atomic Absorption And Auto-Analyzer Equipment's. See App. 10A codes (00001-00011) and codes (00017-00022)	Rehabilitation of soil and water analyses facilities. .(Soil test and water quality monitoring in all 15 Governorates)	As stated in App. 10A		Resemble requirement for repairs and replacement.	ALL YEAR	AS SOON AS POSSIBLE
05-10-00002	Water And Soil Analyses Equip-ment's And Materials. See App. 10A codes 00012-00016 and codes 00023-00073	Improvement of water and soil analyses processes. (Soil test and water quality monitoring in all 15 Governorates)	As stated in App. 10A		Resemble requirement for repairs and replacement.	ALL YEAR	AS SOON AS POSSIBLE

**APPENDIX 10 A .
WATER AND SOIL ANALYSIS EQUIPMENTS**

Code	DESCRIPTION	QUANTITY
	Hallow Cathod for Atomic Absorption Model Westinghouse or Varian or Pyeunicum " like that in Karl Kolb Catalogue of 1987"	
05-10-00003	- Element Cd	2
05-10-00004	- Element Pb	2
05-10-00005	- Element Cu	2
05-10-00006	- Element Mn	2
05-10-00007	- Element Zn	2
05-10-00008	- Element Hg	2
05-10-00009	- Element Co	2
05-10-00010	- Element Cr	2
05-10-00011	- Element Fe	2
05-10-00012	- Element Ca	2
05-10-00013	- Element Mg	2
	Flame Photometer Type IL " like that in the instrumentation laboratory catalogue No. 543 of 1976 (Spare Parts)"	
05-10-00014	- Lithium or Sample Pump (winding tubing)	20
05-10-00015	- Water Pump (winding tubing)	20
05-10-00016	- Mixing Chamber	10
05-10-00017	- Needle Filter	20
	Spare Parts for the AUTOANALYZER type Technicon, "like that in the Technicon Instr. Corp. Catalogue of 1982"	
05-10-00018	- Dual floating probe C/W 034 Nr. 171 B 191 - 06	10
05-10-00019	- Technicon Ink Red, Green Nr 061 - 9632 - 06	50
05-10-00020	- Dual floating probe C/W 066 171 B 191 - 02	10
05-10-00021	- Flow cell 15 x 1.5 Nr. 199 B0 28	10
05-10-00022	- (Levor V) wetting agent (50) type technicon P. No. T21 - 0332	5
05-10-00023	- Chart paper type technicon No. 061F 502 A2	150
05-10-00024	Turbidimeter dual range lamotte mod. " like that in the Thomas Scientific Catalogue of 1988" No. 9865 - K10	3
05-10-00025	Electro magnetic induction sensors Geonics EM - 38 " any catalogue"	2
05-10-00026	PH-meter digital No. 244 - 485 " like that in the Karl Kolb Catalogue of 1987"	5
05-10-00027	Conductivity and Temp. meter Nr. 243 - 670 " like that in the Karl Kolb Catalogue of 1987"	5
05-10-00028	Electrodes for the PH meter from Karl Kolb Catalogue Nr. 244 - 485	20
05-10-00029	Cells for the conductivity meter from Karl Kolb Catalogue	20
05-10-00030	Incubator BOD, low temp., lab line Ambi - Hi - Lo No. 6125 - F05 like that in the Thomas Scientific Catalogue of 1988	2

Code	DESCRIPTION	QUANTITY
05-10-00031	Oxygen meter Model YS1 - 51B like that in the Thomas Scientific Catalogue of 1988	3
05-10-00032	Protein digestion unit type Technicon BD20 / 40 "Control unit, heater unit" like that in the Technicon Catalogue of 1982	1
05-10-00033	Corkboring machine, like that in the Thomas Scientific Catalogue of 1988.	1
05-10-00034	Wiley mills intermediate model like that in the Thomas Scientific Catalogue of 1988	2
05-10-00035	Furance muffle thermolyne F - C2025 P with solid state proportioning controller No. 5310 - N14 like that in the Thomas Scientific Catalogue	1
05-10-00036	Hot plate model PC - 35 (127 x 178 m) 240 V like that in the Thomas Sci. Catalogue of 1988	6
05-10-00037	Water bath large electric 9818 - M81 like that in the Thomas Scientific Catalogue of 1988	2
05-10-00038	Shaker reciprocating Thomas, like that in the Thomas Sci. Catalogue of 1988	4
05-10-00039	Hot plate model H2 lindberg No. 5979 L20 (508 x 305 x 152) 240 V. like that in the Thomas Sci. Catalogue of 1988	5
05-10-00040	Shaker water bath incubator No. 8289 - B10, like that in the Thomas Sci. Catalogue of 1988	1
05-10-00041	Pipette Automatic Oxford 1 - 5m No. 7733 - J20 like that in the Thomas Sci. Catalogue of 1988	40
05-10-00042	Pipette Tips No. 7733 - J37 " Thomas Sci. Cat. "	20
05-10-00043	Dissolved solid meter (Lamotte Chem) No. 9865 H 75 Model DA - DS , like that in the Thomas Sci. Catalogue	3
05-10-00044	Pipette Automatic Oxford 5 - 10 ml, like that in the Thomas Sci. Catalogue	20
05-10-00045	Pipette Tips " Thomas Sci. Catalogue"	20
05-10-00046	Edel man auger, bottom, clay type dia 7cm	40
05-10-00047	Edel man auger, bottom, clay type dia 8 cm	20
05-10-00048	Edel man auger, bottom, sand type 10 cm	10
05-10-00049	Upper part normal / 60 cm, coupling sleeve	20
05-10-00050	Upper part long / 100 cm, coupling sleeve	80
05-10-00051	Electronic planimeter	2
05-10-00052	Electronic pentograph	1
05-10-00053	Map's printing machine	1
05-10-00054	Electric stapler	1
05-10-00055	Camera "Canon" with zoom and accessories	2
05-10-00056	Motor driving auger	1
05-10-00057	Farrell shear vane	1
05-10-00058	Solid state electronic penetrometer (Farrell) with computer	1
05-10-00059	Quick draw tensiometer	2
05-10-00060	Air drier	3
05-10-00061	Microscope, metal stage	1
05-10-00062	Stainless steel spatulas "like that in the Thomas Sci. Catalogue of 1988	100

Code	DESCRIPTION	QUANTITY
05-10-00063	Tygon clear PVC tubing inner braided B - 44 - 4 X Nr. 9562 V 79 like that in the Thomas Sci. Cat.	10
05-10-00064	Rubber bulbs 1955 - D50 for Burets	50
05-10-00065	Rubber bulbs spectrolin, rubber pipette fillers 7775 - F10, Thomas Sci. Cat. of 1988	10
05-10-00066	Comprator kit, hydrion microfine PH 0 - 14, like that in the Thomas Sci. Catalogue	10
05-10-00067	Sodium Salicylate	30 Kg
05-10-00068	Sulfand amide DF1 - B - 7	10 Kg
05-10-00069	Sulfuric acid analar 98%	100 liters
05-10-00070	Acetone analar	100 liters
05-10-00071	Conductivity meter	7
05-10-00072	Ele.sounding	7
05-10-00073	PH - meter	7

APPENDIX 10 B .
INSTRUMENTATION REQUIRMENTS

Code	DESCRIPTION	PART NO.	QUANTITY
	Bourden Gauge (Manometer)		
	Finite B_ Manometer Diameter of Gauge 6"		
	Sensitivity 0.1 Bar		
05-10-00074	Range 0 - 16 Bar		300
05-10-00075	Range 0 - 10 Bar		250
05-10-00076	Range 0 - 6 Bar		200
05-10-00077	Rocmeter (M. Bore - Hole Extensometer) Dial Gage Range 0 - 100 mm., Sensitivity 0.06 mm.		2
05-10-00078	Rocmeter Extensometer Indipoc P4 Electrical Device		1
05-10-00079	Teletensometer Indipoc P2 (Read Out Unit) Electrical Device		1
	Seba Hydrometer, Dipmeter For Measuring Water, Level Inside Open Air Piezometer		
05-10-00080	Length 100 m.		5
05-10-00081	Length 150 m.		5
05-10-00082	Interfels Dial Gage, Read Out Unit For Multi Road Extensometer. Range 0 - 100 mm. Sensitivity 0.06 mm.		2
05-10-00083	Battery (NI - CD) For MDS 910 1.2 V, 10 AH	VR 10 SF 023 CEI KRH 44 / 91	36
05-10-00084	Battery Globe GC 626 - 1, 12 V For SMA - 1 Strong Mottron Accelerograph		20
05-10-00085	Battery Charger For SMA - 1 Strong Motion Accelerograph	700084	5
05-10-00086	Film, Kodak 70mm. X50 Ft. For SMA - 1 Strong Motion Accelerograph	2497, SPEC 524	5
05-10-00087	Battery PP9 / 9V For Vibrating Wire Readout		20

APPENDIX 10 C .

SURVEYING EQUIPMENTS

Code	DESCRIPTION	QUANTITY
05-10-00088	Straight line white line depth recorder (Echo - Sounder) for rivers, canals and lakes to be mounted on small or rubber boats measure water depths up to 100 Mts.	6
05-10-00089	Electronic Planimeter to measure Area , Line length . X,Y coordinates , with display screen and recorded out - put , rechargeable , battery	6
05-10-00090	Dist . Measur . Range 3500M . for(1) prism (or a bout) Angle Accuracy 1 sec dist . Accuracy 2 mm + 2 ppm . With control unit . and all other standard complementary accessories .	6
05-10-00091	EDM - instruments with Robotic Total Station Dist . Measure Range (1500 M . for 1 prism or a bout) Angle accuracy 1 sec dist . Accuracy 2 mm + 2 ppm . With control unit . and all other standard complementary accessories .	6
05-10-00092	Geodatin field control unit with CPS - Gonass system with all standard accessories . Global Positioning system (GPS)	2