

ANNEX AGRI -6

Sector : AGRICULTURE

Sub Sector:IRRIGATION

Activity:Rehabilitation of Pumping Stations

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
05-06-00001	Portable Centrifugal Pumping Set with accessories and generating sets. See App. 6A codes 00009 -00014 and 00025-00027 and 00030	For improving irrigation capacity&efficiency for approx . 500,000 hectares (All irrigation and drainage pumping atations.) and also for South and East Jazirah Projects	1291		Replacement for the existing pumps and new installation	APRIL	FEBRUARY
05-06-00002	Pumps and generating sets for water wells See App. 6A codes 00015-00020	For Irrigation and Drinking water supply(Farmers depend on ground-Water supply at Kerballa, Najf, Tamem, Anbar ,Diyala, Salah Aldeen and Basrah	5770		Replacement for the existing pumps	APRIL	FEBRUARY
05-06-00003	Dewatering Pumps See App. 6A codes 00024 and code 00029	Dewatering Pumps for existing pumping stations in all(15 Governorates)	6		Resemble requir and improving dewatering in the pumping stations	ALL YEAR	AS SOON AS POSSIBLE
05-06-00004	Pumps for Irrigation Projects See App. 6A code 00028	pumps for Irrigation projects	15		Improved and increased the irrigated areas	ALL YEAR	AS SOON AS POSSIBLE
05-06-00005	Different Types Of Pumps. See App. 6A codes 00021-00023	Rehabilitation of grouting processes (Saddam Dam at Ninava)	12		Alternative for the existing pumps	MARCH	JANUARY FEBRUARY
05-06-00006	Main Electrical Motor For Pumps See App. 6B	Rehabilitation of grouting processes (Pumping stations in all 15 Governorates)	58		Resemble requirement for repair	ALL YEAR	AS SOON AS POSSIBLE
05-06-00007	Spare Parts For Pumping Stations. See App. 9A	Maintenance of existing pumping stations (pumping stations exist in all 15 Governorates)	As stated in App. 9A		Resemble requirement for repair	ALL YEAR	AS SOON AS POSSIBLE

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
05-06-00008	Spare Parts For Al-Jazirah main Pumping Station. See App. 9B	Maintenance of (Al-Jazirah pumping station at Ninava)	As stated in App.9B		Resemble requirement for repair	ALL YEAR	AS SOON AS POSSIBLE

APPENDIX 6 A .
PUMPING SETS FOR IRRIGATION AND DRAINAGE

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
05-06-00009	Portable Centrifugal Pumping Set and Accessories, 3 x 380 V - 50 Hz. Motors, Q=1m3/sec, Total Head up to 100m., Static Suction Head(4 - 5)m.	400					
05-06-00010	Portable Centrifugal Pumping Set and Accessories. 3 x 380V-50Hz. Motors, Q=0.5 m3/sec Total Head up to 100 m ., Static Suction Head(4-5) m.	100					
05-06-00011	Portable Diesel Centrifugal Pumping set and ccessories, Q=1 m3/sec., Total Head upto 100 m Static Suction Head(4-5)m.	150					
05-06-00012	Portable Diesel Centrifugal Pumping Set and Accessories. discharge up to 0.5m3/sec, Total Head up to 100m., Static Suction Head(4-5)m.	100					
05-06-00013	Vertical and horizontal pumps set with electrical motors And Accessories, Q=(0.25- 5.5)m3/sec, Total head(3- 93)m	96					

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
05-06-00014	Electrical pumps discharge (100 - 600)m ³ /hr , Head up to 50m		100				
	Pumps For Water Wells (different energy used including solar energy)						
05-06-00015	*Turbine pumps driven by electrical motors Q=(5-20)L/sec, Total Head(70-100)m		1500				
05-06-00016	* Turbine pumps driven by diesel engine Q=(5-20)L/sec, Total Head(70-100)meter		2000				
05-06-00017	* Submersible Pumps Q=(5-30)L/sec., Total Head (100-350)m		1500				
05-06-00018	* Diesel generating sets mounted on a steel frame with a weather protecting cover and lighting systems capacity up to 150 KVA .		1500				
05-06-00019	* Diesel generating sets mounted on a steel frame, with a weather protecting cover , capacity (250-1500) KVA .		70				
05-06-00020	Desalination units for water wells complete with all accessories		200				

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
05-06-00021	Pump with coupling between Hydraulic unit and the pump including flexible Hose (C2 4½"x5") and accessories, Q=400L/min		4				
05-06-00022	Submersible Pump And Accessories, 54 KW, 3 x 380 V, 50 Hz. motors, Discharge 3 m3/min. Total Head 50 m.		3				
05-06-00023	Submersible Pump And Accessories, 30 KW, 3x380V, 50 Hz motors, Q=2 m3/min ., Total Head 30m.		5				
05-06-00024	Horizontal Pump Set and Accessorie. Q=3. 4m3/Sec , H=85m, 3x11KV, 3450 KW		1				
05-06-00025	Vertical Pumps Set with electrical Motors and Accessories, Q=2m3/sec, Head up to 50 m		15				
05-06-00026	Horizontal Centrifugal Pumps Set with electrical motors and accessories, Q= 0.3 - 1.0 m3/sec, Head up to 50 m		110				
05-06-00027	Vertical Pumps Set with electrical Motors and Accessories, Q=(0.4-3.7) m3/sec, H = 40m - 60 m		120				

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	
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05-06-00028	complete pump with motor, discharge up to (10)m ³ /sec. Total Head up to (70)m with all accessories, pipes needed and electrical and mechanical equipment required .		15				
05-06-00029	Submersible pump: V=380, R.P.M=1400, 50 HZ H=up to 30m, Q= 80 m ³ /hr		5				
05-06-00030	Submersible pumps, different discharges and heads		100				

**APPENDIX 6 B .
MAIN ELECTRICAL MOTOR FOR PUMPS**

CODE NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
05-06-00031	Horizontal electrical motor, Synchronous type, thyristor starting; (800kw, 6kv, 500rpm, 50Hz)		3				
05-06-00032	Vertical electric motor, slip ring type rotor resistance starting (250KW, 380V, 735rpm, 50HZ)		2				
05-06-00033	Vertical electric motor, slip ring type rotor resistance starting (630KW, 6KV, 500 rpm, 50HZ), (3x28) AMP (2x107) AMP		5				

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	
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05-06-00034	Vertical electric motor, slip ring type rotor resistance starting (350KW, 6KV, 500 rpm, 50HZ)		3				
05-06-00035	Vertical electric motor , Squirrel cage type (D.O.L starting) (700 KW, 6 KV, 500 rpm, 50 HZ)		3				
05-06-00036	Vertical electric motor, slip ring type rotor resistance starting (520 KW, 3300V, 500 rpm, 50 HZ)		6				
05-06-00037	Vertical electric motor (630KW, 6KV, 500rpm, 50 HZ)		2				
05-06-00038	Vertical electric motor. D.O.L starting, (500 KW, 6 KV, 600 rpm, 50 HZ)		4				
05-06-00039	Horizontal electric motor, slip ring type with resistance starting (700KW, 3300V, 1500-1600rpm, 50 HZ)		6				

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
05-06-00040	Vertical electric motor, slip ring with resistance starting, (800KW, 6600V, 750rpm, 50 HZ)		3				
05-06-00041	Vertical electric motor rotor resistance starting (315 KW, 500rpm, 3.3KV, 50HZ)		4				
05-06-00042	Horizontal Induction electric motor (250KW, 1000 rpm, 380V, 50HZ)		3				
05-06-00043	Vertical induction motor slip ring movable type , with rotor resistance (8 stages mounted in oil box), the upper bearing of the motor should be thrust bearing type, The motor is (500 KW, 3.3 KV, 500 r.p.m.)		4				
05-06-00044	Vertical motor 34Kw , 380v , 50 Hz , 371 RPM		3				
05-06-00045	3-phase Asynchronous Vertical motor 1350 Kw , 6Kv , 50 Hz , 590 RPM		2				
05-06-00046	3-phase Asynchronous Vertical motor 850 Kw , 6Kv , 50 Hz , 590 RPM		2				
05-06-00047	vertical motor slip ring with resistance (95KW, 380V, 500RPM, 50HZ)		3				