

ANNEX AGRI -9

Sector: AGRICULTURE

Sub-sector: IRRIGATION

Activity : Development and Utilization
of Groundwater Resources

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	
05-09-00001	Water Well Drilling Requirements See App. 8	Equipments, materiast and spares are needed for improving groundwater resources use. (in Governorates Keballa, Nineva, Anbar, Tamem, Diwala, Naiaf, Salah	As stated in App.8		Resemble requiement for repair and replacement	ALL YEAR	AS SOON AS POSSIBLE
05-09-00002	Spare Parts For Machinery And Equipments. See App.9C I - 9C II and 9C-IV	Maintenance of madhinery and equipments to maintain irrigation projects (All irrigation projects in the 15 Governorates projects)	As stated in App.9C		Resemble requiement for repair	ALL YEAR	AS SOON AS POSSIBLE
05-09-00003	Spare Parts For Drilling Rigs and Pumps. See App 9C.III and App.9A code 00088-00100	Rehabilitation Saddam Dam grouting processes. (Saddam Dam at Ninava)	As stated in App. 9A & 9C-III		Resemble requiement for repair	ALL YEAR	AS SOON AS POSSIBLE

APPENDIX 9 A . SPARE PARTS FOR PUMPING STATIONS

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
05-09-00004	Phase Failer-Protection relay 380 V A.C. 75%	200					
05-09-00005	Air BreakerContactor 380V-220 VA.C.	1500					
05-09-00006	Manual change over switch different capacities	200					
05-09-00007	Air BreakerContactor K-ID 1 220 VA.C.	10					
05-09-00008	Air Breaker Contactor ESU 250/3 220 VA.C.	10					
05-09-00009	plower different Capacity with spare parts	lot					
05-09-00010	Current transformer different types	200					
05-09-00011	Circuit Breaker different types	250					
05-09-00012	Control Transformer	100					

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	
05-09-00013	Copper busbar	150					
05-09-00014	Automatic Circuit Breaker	350					
05-09-00015	Circuit Breaker 11 kv 630 A , SF6	4					
05-09-00016	Voltage Transformer GZ 12, 11000/100 V	5					
05-09-00017	Voltage Transformer GZ 12 , 6000/100 V	5					
05-09-00018	Voltage Transformer GZ 12,380/220 V	50					
05-09-00019	Voltage Transformer GZ 12,33000/380 V (630 KVA)	2					
05-09-00020	Seat valve roller operated and way valve hand operated	4					
05-09-00021	Steel pipe for pump different diameter with accessories	20000 m					
05-09-00022	Electrical power cable different sizes	60000 m					
05-09-00023	Projector for nuderwater lightening	10					
05-09-00024	Circuit breaker for switch board and accessories	500					
05-09-00025	Lifting Gate gear box complete	150					
05-09-00026	Shock - obsorber for hydraulic gates different sizes	72					
05-09-00027	Out door Stationary substation 33/11 KV different capacities (MVA)with	10					
05-09-00028	Hydraulic spare parts for stop logs in Hydraulic structure	2					
05-09-00029	electrical tower and cables or aluminum wire	lot					
	Spare Parts for Pumping station						
05-09-00030	*Main power transformer different sizes and voltage	40					

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	
05-09-00031	*High voltage switch gear oil, vaccum and SF6 circuit breaker(different sizes and voltage) with eccessories and spare parts	30					
05-09-00032	*Low voltage moulded case circuit breaker different	120					
05-09-00033	*Low voltage air break contactor with coil 220 V, A	200					
05-09-00034	*bearing NU1036	5					
05-09-00035	*bearing NU238	5					
05-09-00036	*bearing NU29332	10					
05-09-00037	*bearing NU29348	3					
05-09-00038	*ball bearing NU309	5					
05-09-00039	*ball bearing 6309	3					
	Spare Parts for Pump type 720-P-1225 (Q=6m3/s)						
05-09-00040	*Pump bowl with guide bearing parts	3					
05-09-00041	*Suction bell mouth	3					
05-09-00042	*Casing	4					
05-09-00043	*Impeller	2					
05-09-00044	*Insert ring	4					
05-09-00045	*Shaft	2					
05-09-00046	*Bearing bush	40					
05-09-00047	*Shaft protection sleeve	40					
	Spare Parts for 6 KV & 11KV Switch Gear from Techono Commerze						
05-09-00048	*circuit breaker SCI 1 - 10 / 630 /350	4					
05-09-00049	*current transformer GS 12 30 / 5 /5A	6					
05-09-00050	*voltage transformer GZ 12 11 / 0.1 KV	2					
05-09-00051	*overcurrent time lag relay	10					

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	
05-09-00052	*neutral relay 2 RH 30 100 W A.C.	10					
05-09-00053	*neutral relay ZRH30 100 W A.C. with drop indicator	10					
05-09-00054	*neutral relay 2 RH 06 24 V D.C.	10					
05-09-00055	coil of under voltage 100 V A.C. 06-34	40					
05-09-00056	*3-pole minimum oil circuit breaker HL4-8,Vm = 12 KV, Im 1250 A, Hz = 50,Ith =39 KA,t=35,Im = 107 KA type HL4-8-6 1334	5					
	Spare Parts for Main Pump Type KAEA 1000 / 10 / 4 - 29						
05-09-00057	*main pump shaft with sleeves for pump KAEA 1000 / 10 / 4 - 29	1					
05-09-00058	*end bearing 712.97303.0 - 77st.	3					
05-09-00059	*axial bearing 29348TGL 2996	3					
05-09-00060	*shaft protection sleeve 711.13363.0-73	3					
05-09-00061	*shaft protection sleeve 711.13362.0-23	4					
05-09-00062	*shaft protection sleeve 711.13364.0-33	3					
05-09-00063	*wearing ring 711.26166.0 - 23	10					
05-09-00064	*seal ring MN 54.1A47 / 20	10					
05-09-00065	*rubber bellow form No. 5424	10					

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	
	Spare Parts for Pump HAEC 1200/5/2 - 091						
05-09-00066	*impeller		1				
05-09-00067	*wearing ring		3				
05-09-00068	*end bearing		1				
05-09-00069	*intermediate bearing		1				
05-09-00070	*shaft protection sleeve 0 - 83		1				
05-09-00071	*shaft protection sleeve 0 - 43		1				
05-09-00072	*shaft protection sleeve 0 - 73		1				
05-09-00073	*O-ring 230*5		6				
05-09-00074	*rubber for coupling 42		6				
05-09-00075	*drive shaft		1				
05-09-00076	*pump shaft		1				
05-09-00077	*Impeller for pump KDAEA 600/16/2 - 21		1				
05-09-00078	*Bearing 222 C		10				
05-09-00079	*Bearing 29324 D		10				
05-09-00080	*Bearing 6324		10				
05-09-00081	*Bearing 6312		5				
05-09-00082	*Bearing 6313		10				
05-09-00083	*Bearing HM 804848		5				
05-09-00084	*Bearing HM 807049		5				
05-09-00085	*Grease lubrication pump with motor complete		10				
05-09-00086	*Slip ring body for electric motor DSAKJ 5627-12		10 sets				
05-09-00087	*Synchro gear reducer U.S. motor parallel shaft type GSMA Frame 52 Ratio 3 : 1		10				
	Spare Parts for Drilling Rig type B1A						

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	
05-09-00088	Oil cooler with drive compilation DR.NO.5001605	10					
05-09-00089	*Rotary group A1028 ETL NO. 958654	30					
05-09-00090	*Pilot valve H ETL NR. 914110	20					
05-09-00091	*Pilot valve DFR1-SR10 10ETL NR909066	20					
05-09-00092	*Direct-circulation swivel compilation DR.NO.5000609	10					
05-09-00093	*Axial Cyl. roller bearing 81130	20					
05-09-00094	*Needle bearing 140/32 RSA3	20					
05-09-00095	*Hydraulic motor 6M076	10					
05-09-00096	*Power swivel B1A complete + 50% spare parts Dr.No.5103123	10					
05-09-00097	*Retaining Jaws dia 47-73 mm 5200254	200					
05-09-00098	*Retaining Jaws dia 70-114.3 mm 5200255	100					
05-09-00099	*Gear accessory to DRWG Dr. No.5400373	20					
05-09-00100	*Hub accessory to DRWG DR. No. 5400374	20					
	Spare Parts for Submersible Pumps type FLYGHT model CP 3300-180						
05-09-00101	*Inner seal unit	10	sets				
05-09-00102	*Outer seal unit	10	sets				
05-09-00103	*O-ring	10	sets				
	Spare Parts for Submersible Pumps type FLYGHT model 3201						
05-09-00104	*Upper seal unit	10	sets				
05-09-00105	*Lower seal unit	10	sets				
05-09-00106	*O-ring	10	sets				
	Spare Parts for Submersible Pumps type FLYGHT						

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	
05-09-00107	*Terminal board assy -Power cable entry assy - Shaft rotor unit - Impeller - Wear ring rotating - Locking assy - Washer -Screw - Compression spring - Stator 380 VA - Seal sleeve (33-37)mm - Seal sleeve (37-39)mm - Outer casing - Starter casing -Plate - Packing - Starter housing - Oil housing bottom - Bearing holder - Cable entry unit	20 10 8 15 10 15 15 100 100 10 25 25 3 3 10 20 3 5 5 10					
	spare part for Kirkuk Irrigation Project. 1./ MAIN PUMP						
05-09-00108	*Bearing different sizes with cover	1100					
05-09-00109	*Bearing bush (int.m.b.)1040438	4					
05-09-00110	*Bearing sleeve (int.m.b) 1040439	8					
05-09-00111	*Impeller	12					
05-09-00112	*Coupling	24					
05-09-00113	*Sleeve 58424	15					
05-09-00114	*Bearing sleeve (int.m.b) 1040368	40					
05-09-00115	*Bearing bush (int.m.b) 1040367	40					
05-09-00116	*Pump element with piston 600-25046-2	40					
05-09-00117	*Coupling	200					
05-09-00118	* Mechanical seal	200					
05-09-00119	* Shaft	50					
	2/OIL PRESSURERE DEVICE						
05-09-00120	*Control magnet valve s10 w 01	10					

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	
05-09-00121	*Pressure switch Ts 60- do 10.0mpa	10					
05-09-00122	*Pressure gauge P(0-16 mpa)	10					
05-09-00123	*silicon oil for transformer	30000	liter				
	3./ ELECTRIC PARTS						
05-09-00124	Three-pole H.V contactor for rated voltage 7.2Kv 50.4s for rated current 400 A for auxiliary voltage 110 D.C type vc 3ad 400c . made by GEC.452.58763 stranea RK 132946	10					
05-09-00125	H .V fuse type 36A 121 250A , 7.2 KV	100					
05-09-00126	H.V HRC fuse cartridge for 10 kv .type unvc with striker . 452.58763 stranea RK 132946	100					
05-09-00127	Auto - transformer for starting of H.V motor	120					
05-09-00128	Single- phase capacity of rated voltage6.1k .v of rated capacity150 KVAR for frequency 50/c/s type M3p6 - 150 M24 for indoor	40					
05-09-00129	Rotor for motors	20					
05-09-00130	Stator for motors	20					
05-09-00131	Compact HV vacuum contactor	50					
05-09-00132	Economy resistor for HV vacuum	150					
	4/AIR CONDITIONING PARTES						
05-09-00133	Circulation pump boiler type GHR-401 .N=100W	2					
05-09-00134	Control three way valve heating coil V5015 A - honey well- NO 25. CV=10 G=3.0 m3/n	2					
05-09-00135	Diverter - three - valve fan coil v 5066 honey well - N 40 KV =25 G=11.4M/H AP=8KPA	4					

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	
05-09-00136	Circulation pump fan coil GHR 651 N = 435W		4				
05-09-00137	Circulation pump-Chiller(T 501-4,G=8M3/h H=13 KPA)		2				
05-09-00138	Double shaft motor for fan coil unit with code 823478 -411		10				
05-09-00139	Circulation pump forfan coil unit GHN 402A-R/2 G=6KPA , N=0.42 KW		2				
05-09-00140	Circulation pump for boiler GHN 404 C-R/2 G=20 M3/h H=26 kpa N= 0.11/0.19 kw.		2				
05-09-00141	Circulation pump for Chiller type G 65/21 G = 50 m3/h H=60 kpa N = 0.8 kw		2				
05-09-00142	Circulation pump for cooling tower type G65/2 G =5.5 m3/h H=95 kpa N = 1.0 kw		2				
	Spare parts for pump type KDEA 800/16 10-31						
05-09-00143	Protective shaft sleeve		3				
05-09-00144	Protective shaft sleeve		3				
05-09-00145	Protective shaft sleeve		3				
05-09-00146	Impeller		1				
05-09-00147	bearing different sizes		1000				
05-09-00148	Coupling shell,divided .		2				
05-09-00149	Coupling ring,divided .		2				
05-09-00150	End bearing		3				
05-09-00151	Intermediate bearing		3				
05-09-00152	Mechanical seal		3				
05-09-00153	Coupling universal joint		2				
05-09-00154	Shaft		2				
05-09-00155	Crease lubrication pump		50				
	Spare Parts for type KAEA 800/10/ 6-21						
05-09-00156	Main pump shaft with sleeves 712-973-00-0-17 st.		1 set				
05-09-00157	End bearing 712-973-00-0-17 st.		2				
05-09-00158	Intermediate bearing 712-97523- 0-47 st .		2				

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	
05-09-00159	Seal ring m s4.1a.47120		2				
05-09-00160	Pretection tube .		2				
05-09-00161	intermediate shaft .		2				
05-09-00162	Cricuit beaker el- 630/220 a .c.motor drive bisi - sp-a 200-400		1				
05-09-00163	Cricuit beaker el- 400/220 ov a.c hand drive bisi - sp-a 100-2001800-1600		2				
	Spare parts for Generator sets type (NPG-...)						
05-09-00164	AVR p46x206020		10				
05-09-00165	Relay stop 64918 - 62800		10				
05-09-00166	Relay synchro device p 38x206020		10				
05-09-00167	Relay set bath barage p 22x206020		10				
05-09-00168	Relay set p 48x206020		10				
05-09-00169	Change over switch p 66x206020		5				
05-09-00170	Magnatic condition p 67x206020		10				
05-09-00171	Turbocharge 49167-00101		10				
05-09-00172	Diod rotor sets P 44x206020		100				
05-09-00173	Solonoid valve 04400x02010		50				
05-09-00174	Contactors EG 315 - 1 418018-N(coil 220v)		120				
05-09-00175	Contactors EG 160 - 1sk 418015-N(coil 220v)		70				

APPENDIX 9 B

SPARE PARTS FOR AL-JAZIRAH MAIN PUMP STATION

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
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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	
05-09-00176	PB 400 Input Card ref V08D ref 61136		5				
05-09-00177	PB 400 Output Card 24 / 48 V D.C., 0.5 A ref 61130		5				
05-09-00178	PB 400 Output Card 3A, 250V AC, ref 61100		2				
05-09-00179	PB 400 Power Supply CPLEX ref 61032		2				
05-09-00180	PB 400 Power Supply ALIM ref 61061		2				
05-09-00181	PB 80 Input Card 24V D.C., ref 60730		2				
05-09-00182	PB 80 Output Card 3A, 250V, A.C. ref 60740		5				
05-09-00183	D.C. Power Supply F 24V,3A/1A, ref 71035		1				
05-09-00184	D.C. Power supply F 12V, 0.6 A, ref 71031		1				
05-09-00185	Instantaneous or definite time over current		1				
05-09-00186	Motor protective relays medium voltage (I.T.M. 7860)		1				
05-09-00187	Voltage current convertor module HDOXO (FT 42295 / C)		1				
05-09-00188	High level input differential alarm modul (FT 42 - 166 / D)		1				
05-09-00189	Alarm high level input module(FT42-160/C)P.S.		1				
05-09-00190	Voltage frequency (FT 42 - 164 / D) multiplierand divider module(FT 42-163/D)		2				
05-09-00191	*Machine differential protection relay (D.T.M.7031)		1				
05-09-00192	*Instantaneous or definite timeVoltage relay		1				
05-09-00193	*Frequency relay (H.T.G.7012)		1				
05-09-00194	*Zero sequence over voltage		1				
05-09-00195	* Sensitive relay(R.N.V.H.3110)		1				

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	
05-09-00196	*Directional over current relay (R.S.D.W.3000)		1				
05-09-00197	*Electronic gauge pressure transmitter(Type F60 EP 3100)Ref.S P6 -1-12		1				
05-09-00198	* Invertor . of. maxipac (SXM.5000)UPS		1				
05-09-00199	*Temperature controller (Pyromat plus 300) FT42-405/C		1				
05-09-00200	- Galvanic isolation module (FT 42-165/B)		1				
05-09-00201	-Summation module (FT 42-167/E)		1				
05-09-00202	-PB 80 C.P.U. ref 60720		1				
05-09-00203	-PB 80 power supply ref 60701		1				
05-09-00204	- PB 80 emulator ref 60757		1				
05-09-00205	-PB 400 input card ref 61080		1				
05-09-00206	-PB 400 input card ref 61120		1				
05-09-00207	-PB 400 input card ref 61132		1				
05-09-00208	-PB 400 output card ref 61101		1				
05-09-00209	-PB 400 monitoring ref 61057		1				
05-09-00210	-PB 400 mem ref 61041		1				
05-09-00211	-PB 400 JBUS - CPL ref 61183		1				
05-09-00212	-PB 400 alim(220V) ref 61081		1				
05-09-00213	-PB 400 pu		1				

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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APPENDIX 9 C - I
SPARE PARTA FOR (TRUK CHASSIS AND PUMP CRETE)
TRUCK MODEL : MACK
TYPE : 850 DM 690S
ENGINE MODEL : MACK - EM 6- 300L
PRODUCTION : 1988

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
05-09-00214	(BRAKE) (CHAMBER) ASSY	150					
05-09-00215	DLAPHRAGM	200					
05-09-00216	COVER ASSY	15					
05-09-00217	DLAPHRAM	100					
05-09-00218	VALVE ASSY	20					
05-09-00219	CHAVPEL ASSY	100					
05-09-00220	CHOWPER ASSY	100					
05-09-00221	OIL SEAL	100					
05-09-00222	GASKET CYL HD(FIKERIN6)	60					
05-09-00223	GASTKET CYL HD	40					
05-09-00224	GUID , INL ANDEXHVLY	80					
05-09-00225	VALVE , EXH.	98					
05-09-00226	VALVE - INL.	98					
05-09-00227	GASKET SET . ENG	20					
05-09-00228	GASKET SET , VLVGRINDNG	20					
05-09-00229	CRANK SHALT AND BEARING KIT	4					
05-09-00230	MAIN BARING KIT STD.	4					
05-09-00231	MAIN BEARING KIT(0.010)U/S	15					
05-09-00232	MAIN BEARING KIT(0.020)U/S	15					
05-09-00233	OIL SEAL , C/S RR	40					
05-09-00234	FUEL FILTER , SEC	400					
05-09-00235	SLEEVE , CYL.	80					
05-09-00236	SEAL NTPUMP	40					
05-09-00237	GASKET , LOW C/C	2					
05-09-00238	OIL COOLER ASSY	4					
05-09-00239	CORE OIL COOLER	4					
05-09-00240	GASKIT	20					
05-09-00241	SEAL	20					
05-09-00242	OIL FILTER	400					
05-09-00243	BEURING,CON,ROD (STD)	12					
05-09-00244	BEARING,CON,ROD (010)	60					
05-09-00245	BEARING,CON,ROD (020)	60					
05-09-00246	WASHER , C.S.THRUST	20					
05-09-00247	CON , ROD	12					
05-09-00248	PIN, PISTON (STD)	12					

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	
05-09-00249	RING , SETS		48				
05-09-00250	PISTON RING SET		80				
05-09-00251	PISTON KIT		80				
05-09-00252	TURBO CHARGER		20				
05-09-00253	W.PUMP REPAIRKIT		20				
05-09-00254	W.PUMP ASSY		6				
05-09-00255	GASKET SETENG		20				
05-09-00256	AIR COMP. ASSY		6				
05-09-00257	CON.ROD		8				
05-09-00258	CON. ROD INSERT KIT		20				
05-09-00259	CY L. HEAD ASSY		8				
05-09-00260	OIL SEAL, C/C		15				
05-09-00261	PISTON STD		20				
05-09-00262	PISTON RING SET KIT		20				
05-09-00263	REPAIR KIT		20				
05-09-00264	UNL DER KIK		20				
05-09-00265	NOZZLE HOLDER ASSY		80				
05-09-00266	NOZZLE		80				
05-09-00267	WT . PUMP		8				
05-09-00268	PLUNGER BARREL ASSY		60				
05-09-00269	GOVERNOR ASSY		8				
05-09-00270	OIL PUMP , ASSY		15				
05-09-00271	PLUNGER , OIL PRESSURE		15				
05-09-00272	BEARING , BALL		20				
05-09-00273	BEARING , BALL		20				
05-09-00274	COVER , WATER PUMP		8				
05-09-00275	ROTOR , WATER PUMP		8				
05-09-00276	SEAL		20				
05-09-00277	SEAL		40				
05-09-00278	SHAFT , WATER PUMP		15				
05-09-00279	CLUTCH ASSY		50				
05-09-00280	DIS FRT		80				
05-09-00281	DIS RIR		80				
05-09-00282	PIATE , INTM		80				
05-09-00283	LEVER		24				
05-09-00284	PIVOT , PRESS SPRNG		80				
05-09-00285	RETAINER		50				
05-09-00286	RING		15				
05-09-00287	PIATE		40				
05-09-00288	BEARING		40				
05-09-00289	FORK		50				
05-09-00290	OIL SEAL		15				
05-09-00291	OIL SEAL		15				
05-09-00292	FORK		8				
05-09-00293	FORK		8				

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	
05-09-00294	SEAL	15					
05-09-00295	SEAL	15					
05-09-00296	UNIVERSAL JOINT	20					
05-09-00297	BEARING	18					
05-09-00298	CUSHION IRBG	18					
05-09-00299	SLINGER FOLL	18					
05-09-00300	UNIVERSAL JOINT	20					
05-09-00301	VALVE	20					
05-09-00302	VALVE SELEC	20					
05-09-00303	VALVE	15					
05-09-00304	STEERINGGEAR	8					
05-09-00305	MATED SERVKF KIT	8					
05-09-00306	UNIVERSAL JOINT	8					
05-09-00307	PUMP ASSY	15					
05-09-00308	CARTRIDGC SERVICE KIT	15					
05-09-00309	SEAL SERVICE KIT	15					
05-09-00310	ELEMENT ASSY	100					
05-09-00311	ENGINE ASSY	5					
05-09-00312	HYDRULIC MOTOR 210.16.21.73 A2F 28 W3 Z1	8					
05-09-00313	SPRING PRESSURE PLATE BRAKE 790 -10-021	8					
05-09-00314	SCRAPER 65X75X7	20					
05-09-00315	GROOVED RING SEALING SET 90/70 X12,5 G18 -90	20					
05-09-00316	SCRAPER 40X50X7	40					
05-09-00317	GROOVED RING SEALING SET 40/50/10	40					
05-09-00318	CONTROL BLOCK WITH PRESSURE LIMIT VALVE	8					
05-09-00319	PISTON RING SG 110X 100,8X3	15					
05-09-00320	SEALING GLAND SET 63X83X37	15					
05-09-00321	GATE VALVE KIT 180/55/25	15					
05-09-00322	GUID SLEEVE	50					
05-09-00323	PLSTON BUSHING	15					
05-09-00324	SEALING RING	15					
05-09-00325	GROOVED RING SEALING SET 45/65X12.5	15					

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	
05-09-00326	SEALING GLAND SET 45/65X27.5	15					
05-09-00327	HYDRULIC MOTOR AMS 25- M10	14					
05-09-00328	WATER PUMP (HYDR) 7560-N-KMT2	8					
05-09-00329	SEALING SET FOR HYDRULIC MOTOR AMS 25 M-10	15					
05-09-00330	SEALING SET FOR WATER PUMP HYPRO- ROLLE (SMALL)	15					
05-09-00331	SEALING SET FOR WATER PUMP HYPRO- ROLLE	15					
05-09-00332	SEALING SET CPL.	15					
05-09-00333	HAND VALVE HVM-ROL 10632L EV 413.000	8					
05-09-00334	HAND VALVE HSRL10632L EV 357.000	8					
05-09-00335	SOLENDID VALVE MSE 06432/12V	8					
05-09-00336	VALVE CARTRIDGE A2A 125 200 BAR	8					
05-09-00337	VALVE CARTRIDGE A2A 125 70 BAR	8					
05-09-00338	VENTILATION ONIT 12V FOR OIL COOLER	15					
05-09-00339	HYDRULIC PUMP 226.22.04.18 A7VO 80 LRH/ 60RPZBI	20					
05-09-00340	HYDRULIC PUMP 210.16.28.66A2F 23 L3 Z4	20					
05-09-00341	HYDRULIC PUMP 210.12.28.50A2F 23 L3 Z4	15					
05-09-00342	HAND VALVE HVM 10632 WITH PISTON EV 355.127A	16					

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	
05-09-00343	HAND VALVE HVM 10632F WITH PISTON EV 355. 126B	20					
05-09-00344	HAND VALVE HSR 10631	16					
05-09-00345	HAND VALVE HVM 106311 WITH PISTON EV 355. 129	8					
05-09-00346	SOLENDID VALVE MSE D 06432/12V.	16					
05-09-00347	PRE-LOAD VALVE VV - 2 R 3/4	8					
05-09-00348	THROTTLE CHCK VALVE SRD-A-10 .S	8					
05-09-00349	PRESSURE LIMIT VALVE DVP-P-10S (EV 884.006)	8					
05-09-00350	VALVE CARTRIDGE SVP - 10S 80 BAR	16					
05-09-00351	THROTTLE CHCK VALVE 1/2" DRVL - R1/2 1.8 L	8					
05-09-00352	THROTTLE CHCK VALVE 1/2 DRVL - R1/2" 1.3C"	8					
05-09-00353	THROTTLE CHCK VALVE 1/2" DRVL-R1/2 0.9" K"	8					
05-09-00354	VALVE CARTRIDGE DRP 10S	12					
05-09-00355	VALVE CARTRIDGE SVP- 10S 280 BAR	12					
05-09-00356	HYDRULIC CYLINDES 180/110X1.050	8					
05-09-00357	HYDRULIC CYLINDES 200/140X1400	8					
05-09-00358	HYDRULIC CYLINDES 160X100 X 1000	8					
05-09-00359	HYDRULIC CYLINDES 110X70X670	8					
05-09-00360	SEALING GLAND SET 110X130X40 E2 -110/SM5-110	30					
05-09-00361	SCRAPER 110X122X12	30					
05-09-00362	GROOVE RING SEALING SET 180/150X18.8,G18-180	30					

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	
05-09-00363	SEALING GLAND SET 140/165X46 E2 -140/SM5-140	20					
05-09-00364	CRAPER 140X155X16	20					
05-09-00365	SCRAPER 70X80X7	20					
05-09-00366	GROOVED RING SEALING SET 200/170X18,8G 18-200	30					
05-09-00367	SEALING GLAND SET 70190140 E 2-70 SM5 -70	20					
05-09-00368	GROOVED RING SEALING SET 110/90X12,5G 18-110	30					
05-09-00369	CLEANING BALL FOR DN 125 HARD	100					
05-09-00370	FILTER ELEMENT	100					
05-09-00371	HYDRULIC MOTOR OMR 2001 SN21/RS 200	15					

APPENDIX 9 C - II
SPARE PARTS FOR MACHINES

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
05-09-00372	Spare Parts For Hydraulic Excavators Liebherr	Lot					
05-09-00373	Spare Parts For Hydraulic Excavators Hitachi and Fiat Hitachi	Lot					
05-09-00374	Spare Parts For existing pumping station in Sadam Irrigation project	LOT					
05-09-00375	Spare Parts For Bulldozers	LOT					
05-09-00376	Spare Parts For shovels (Crawler and Tire)	LOT					
05-09-00377	Spare Parts For Drag Line Excavators	LOT					
05-09-00378	Spare Parts For Mobile cranes	LOT					
05-09-00379	Spare Parts For Graders	LOT					
05-09-00380	Spare Parts For Trailers for cement transporation	LOT					

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	
05-09-00381	Spare Parts For Tip trucks	LOT					
05-09-00382	Spare Parts For Marsh-Machine Excavators	LOT					
05-09-00383	Spare Parts For Truck Mixers for concrete	LOT					
05-09-00384	Spare Parts For Truck Tankers for raw water	LOT					
05-09-00385	Spare Parts For Truck fuel tankers	LOT					
05-09-00386	Spare Parts For Vibrating Sheep Foot Rollers	LOT					
05-09-00387	Spare Parts For Vibrating Stee Rollers	LOT					
05-09-00388	Spare Parts and Accessories For Tower Cranes	LOT					
05-09-00389	Spare Parts For Mobile and fixed pump Crete	LOT					
05-09-00390	Spare Parts For Low and Flat Loaders	LOT					
05-09-00391	Spare Parts For Motor Scrapers	LOT					
05-09-00392	Spare Parts and accessories for Mixing plants for concrete	LOT					
05-09-00393	Spare Parts For Diesel and electrical welding Machine	LOT					
05-09-00394	Spare Parts For Air Compressors	LOT					
05-09-00395	Spare Parts For Lorry	LOT					
05-09-00396	Spare Parts For Fork Lift	LOT					
05-09-00397	Spare Parts For dredger	LOT					
05-09-00398	Spare Parts For Pool transport (pick up, Land Groser and Service Buses)	LOT					

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	
05-09-00399	Spare Parts For Mobile Diesel and electrical rottary Drilling Rigs .	LOT					
05-09-00400	Spare Parts and accessories For Diaphragm boring machine .	LOT					
05-09-00401	Spare Parts For Water well Drilling Equipments	LOT					
05-09-00402	Spare Parts and accessories for grouting Equipments	LOT					
05-09-00403	Spare Parts and accessories for perforated UPVC and solid PVC pipes plant .	LOT					

APPENDIX 9 C - III

DRILLING RIGS

B0 / B1A WIRTH

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
	* Hydraulic -Cylinder 80163-400 M 1076.1						
05-09-00404	Rod Sealing (P 121)	100					
05-09-00405	O-Ring	200					
05-09-00406	Piston sealing	200					
05-09-00407	Oil cooler	10					
	* Hydraulic -Cylinder 80140-830 M 1280						
05-09-00408	Piston	20					
05-09-00409	Wiper	100					
05-09-00410	Rood Sealing	200					
05-09-00411	Guiding	100					
05-09-00412	O-Ring	200					
05-09-00413	Piston sealing	200					
	* Hydraulic -Cylinder Dr.NO.520/900						
05-09-00414	End ring	10					
05-09-00415	Grooved Ring	300					
05-09-00416	Round packing Ring	200					
05-09-00417	Ball 7 III DIN 5401	10					
	*Sewage Plant & Irrigation System						
05-09-00418	Time Delay Relay (Timer) Range -30 220 V, 50HZ For (λ-Δ) operation .	25					

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	
05-09-00419	Current Operated earth Leakage Circuit Breaker 25A v =220-415; 50 HZ Rated Fault	50					
05-09-00420	N - type AC miniature are Circuit Breaker single Pole 25 A rated voltage	100					
05-09-00421	Transformer 250VA 380/24V ,50HZ	20					
05-09-00422	Contactor ,420A Rated Voltage 500V , 50HZ Control (voltage = 220V) AUX. Contact (2N/O, 2N/C)	3					
05-09-00423	Over Load Relays 165A-235A	5					

**APPENDIX 9 C - IV
SPARE PARTS FOR DREDGER**

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
	for Diesel engin type D 399						
05-09-00424	Cli-head gasket kit	64					
05-09-00425	Frrule	168					
05-09-00426	Frrule	192					
05-09-00427	Gasket k	128					
05-09-00428	Champer ass	16					
05-09-00429	Valve (exh)	64					
05-09-00430	Valve (int)	64					
05-09-00431	Guide (int)	32					
05-09-00432	Guide (exh)	32					
05-09-00433	Liner	64					
05-09-00434	Piston Group with ring	64					
05-09-00435	fuel no 33 lep	128					
05-09-00436	Pump	128					
05-09-00437	Fuel transfer Pump	8					
05-09-00438	Water Pump repaer kit	8					
05-09-00439	Turbo charger assem	4					
05-09-00440	Gear drive	6					
05-09-00441	Bearing (big end)std	6					
05-09-00442	Bearing (main.end) std	64					
05-09-00443	Crank shaft	2					
05-09-00444	Valve	2					
05-09-00445	Valve	2					
05-09-00446	Matles . Ass	2					
05-09-00447	Fule filter	120					
05-09-00448	Oil filter	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	
05-09-00449	Air starter	12					
05-09-00450	Cavernor	2					
05-09-00451	Bearing(0.5"under size)	50					
05-09-00452	Bearing(0.5"under size)	50					
	IHC BEREAR 4000 for deage pump type 162-3570						
05-09-00453	Pump casing cs-30mn5	3					
05-09-00454	Impeller with no3-bladed gs . 30m5	3					
05-09-00455	Suetion cover with water flwing	3					
05-09-00456	Shaft cover	3					
05-09-00457	Water champen shaft side	3					
05-09-00458	Suetion mouth wearing ring . maxidur	3					
05-09-00459	Wearing plate suetion side with water flushing	6					
05-09-00460	Wearing plate shaft side	6					
05-09-00461	Sesparation plate 57005-091	9					
05-09-00462	Bush 57022-014	9					
05-09-00463	Wearing ring 57022-104	9					
05-09-00464	Manchet suction side 57022-134	9					
05-09-00465	Bearing block complete	1					
05-09-00466	Simmer ring 300x335x18	5					
05-09-00467	Wearing bush 57005-051	5					
05-09-00468	For greasing apparatus type R fs 24	24					
05-09-00469	Cartridge kit A38 for vickesPump	24					
05-09-00470	Cartridge kit A17 for vickesPump	6					
05-09-00471	Seal kit38 for vickes Pump	24					
	for staffa hydn . Motor m(b200 s red divil)						
05-09-00472	Complete Motor	10					
05-09-00473	Service kit	40					

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	
05-09-00474	Stork Pump kge 16-6	12					
05-09-00475	Air compressor tk-170 Complete	6					
05-09-00476	Valve set (6A,6B,8B,8B)	24					
05-09-00477	Connecting rod 18-41	6					
05-09-00478	Piston 18-3	6					
05-09-00479	Piston ring 18- 9	6					
05-09-00480	Piston ring 18-10	6					
05-09-00481	Piston ring 18- 11	6					
05-09-00482	Bearing 10-31	6					
05-09-00483	Pressure switch 6-460	3					
	For fresh water hydrophone						
05-09-00484	Stonk Pump sp 154	3					
05-09-00485	Pressure switch 28-1607-1	3					
	For gland type nic -50230						
05-09-00486	Impeller (bron 3e) 88/10/2	4					
05-09-00487	Shaft with key and nut	4					
05-09-00488	Shaft bush	6					
05-09-00489	Set wearing ring	6					
05-09-00490	Set bearings	6					
	For main switch board						
05-09-00491	Switch 4-pol -63A-172N0140	30					
05-09-00492	Key switch 03-191	3					
05-09-00493	Regulating Trans formator 220 v1A	3					
05-09-00494	Relay 24v dc(m4-variatic) dg 24 vdc	100					
05-09-00495	Relay foot v23	25					
05-09-00496	Alarm annun ciator 5points 24v.dc2702	6					
	for Diesel - Marine Engine cater piller 3412						

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	
05-09-00497	Cyl-head gasket kit	8					
05-09-00498	Cyl-head gasket kit	8					
05-09-00499	Ferrule	48					
05-09-00500	Valve(exh)	24					
05-09-00501	Valve(int)	24					
05-09-00502	Liner	12					
05-09-00503	Piston group with rings	12					
05-09-00504	Fule nozzel	24					
05-09-00505	Fule transfer Pump	2					
05-09-00506	Water Pump repair kit	2					
05-09-00507	Bearing (big end)std	12					
05-09-00508	Bearing (main .std)	7					
05-09-00509	Crank shaft	1					
05-09-00510	Oil filter	20					
05-09-00511	Injection fule Pump	1					
05-09-00512	Bearing 0.05 under size	12					
05-09-00513	Air cleaner	2					
05-09-00514	Plat thrust	4					
05-09-00515	Guide (exh)	24					
05-09-00516	Guide (int)	24					
05-09-00517	Zeal	1					
05-09-00518	Turbo charger	1					
05-09-00519	Ring asse	24					
05-09-00520	Rod assy	12					
05-09-00521	For vicker Pump gertridge	30					
05-09-00522	For vicker Pump gertridge A	80					
05-09-00523	Roll bearing	30					
05-09-00524	Ball bearing	20					
	for 301 CSD C O & K and 351 CSD C O & K						
05-09-00525	Coupling combination(fludex 590)	4					
05-09-00526	Siro -Pump , complete	6					
05-09-00527	Expansion joints with mounting parts	6					
05-09-00528	Pump casing 300/940	6					
05-09-00529	Pump impeller complete	6					
05-09-00530	Pump impeller complete for (CSD 301 C)	4					

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	
05-09-00531	Wear ring 220/240		12				
05-09-00532	Lip-type seal, shaft side 155/229		50				
05-09-00533	Lip-type sealing ring 155/229		50				
05-09-00534	Casing wear ring 300/350		8				
05-09-00535	Sph-roll bearing 232 20C3		48				
05-09-00536	Sph-roll bearing 230 24C		24				
05-09-00537	Sph-roll bearing 222 26		24				
05-09-00538	Sph-roll bearing 222 16C3		24				
05-09-00539	Axial sph. Roller B.293 24 B		24				
05-09-00540	Oil engine with coupling half		6				
05-09-00541	Oil engine coupling half for (CSD 301 D)		4				
05-09-00542	Gear for cutter head		4				
05-09-00543	Gear for cutter head (CSD 301)		2				
05-09-00544	Control - valve NG30		4				
05-09-00545	Turbocharger for engine MTU		10				
05-09-00546	Gear box complete with fludex 590		4				
	for Diesel Engin D 398						
05-09-00547	Valve asse		100				
05-09-00548	Piston ring group		50				
05-09-00549	Piston assy		40				
05-09-00550	Liner		40				
05-09-00551	Motor assy		4				
	for Diesel Engin D 343 62B 11032 AND 62 B 12803						
05-09-00552	Nozzil assy		30				
05-09-00553	Piston assy		18				
05-09-00554	Bearing		24				

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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