

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	
						ALL YEAR	AS SOON AS POSSIBLE
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, Diyala, Najaf, Salah			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)			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)			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%						
05-09-00005	Air Breaker Contactor 380V-220 VA.C.						
05-09-00006	Manual change over switch different capacities						
05-09-00007	Air Breaker Contactor K-ID 1 220 VA.C.						
05-09-00008	Air Breaker Contactor ESU 250/3 220 VA.C.						
05-09-00009	plower different Capacity with spare parts						
05-09-00010	Current transformer different types						
05-09-00011	Circuit Breaker different types						

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	
05-09-00012	Control Transformer						
05-09-00013	Copper busbar						
05-09-00014	Automatic Circuit Breaker						
05-09-00015	Circuit Breaker 11 kv 630 A , SF6						
05-09-00016	Voltage Transformer GZ 12, 11000/100 V						
05-09-00017	Voltage Transformer GZ 12 , 6000/100 V						
05-09-00018	Voltage Transformer GZ 12,380/220 V						
05-09-00019	Voltage Transformer GZ 12,33000/380 V (630 KVA)						
05-09-00020	Seat valve roller operated and way valve hand operated						
05-09-00021	Steel pipe for pump different diameter with accessories		m				
05-09-00022	Electrical power cable different sizes		m				
05-09-00023	Projector for nuderwater lightening						
05-09-00024	Circuit breaker for switch board and accessories						
05-09-00025	Lifting Gate gear box complete						
05-09-00026	Shock - obsorber for hydraulic gates different sizes						
05-09-00027	Out door Stationary substation 33/11 KV different capacities (MVA)with						
05-09-00028	Hydraulic spare parts for stop logs in Hydraulic structure.						
05-09-00029	electrical tower and cables or aluminum wire						
	Spare Parts for Pumping station						

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	
05-09-00030	*Main power transformer different sizes and voltage						
05-09-00031	*High voltage switch gear oil, vaccum and SF6 circuit breaker(different sizes and voltage) with eccessories and spare parts						
05-09-00032	*Low voltage moulded case circuit breaker different type						
05-09-00033	*Low voltage air break contactor with coil 220 V, A						
05-09-00034	*bearing NU1036						
05-09-00035	*bearing NU238						
05-09-00036	*bearing NU29332						
05-09-00037	*bearing NU29348						
05-09-00038	*ball bearing NU309						
05-09-00039	*ball bearing 6309						
	Spare Parts for Pump type 720-P-1225 (Q=6m3/s)						
05-09-00040	*Pump bowl with guide bearing parts						
05-09-00041	*Suction bell mouth						
05-09-00042	*Casing						
05-09-00043	*Impeller						
05-09-00044	*Insert ring						
05-09-00045	*Shaft						
05-09-00046	*Bearing bush						
05-09-00047	*Shaft protection sleeve						
	Spare Parts for 6 KV & 11KV Switch Gear from Techono Commerze						
05-09-00048	*circuit breaker SCI 1 - 10 / 630 /350						
05-09-00049	*current transformer GS 12 30 / 5 /5A						
05-09-00050	*voltage transformer GZ 12 11 / 0.1 KV						

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	
05-09-00051	*overcurrent time lag relay						
05-09-00052	*neutral relay 2 RH 30 100 W A.C.						
05-09-00053	*neutral relay ZRH30 100 W A.C. with drop indicator						
05-09-00054	*neutral relay 2 RH 06 24 V D.C.						
05-09-00055	coil of under voltage 100 V A.C. 06-34						
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						
	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						
05-09-00058	*end bearing 712.97303.0 - 77st.						
05-09-00059	*axial bearing 29348TGL 2996						
05-09-00060	*shaft protection sleeve 711.13363.0-73						
05-09-00061	*shaft protection sleeve 711.13362.0-23						
05-09-00062	*shaft protection sleeve 711.13364.0-33						
05-09-00063	*wearing ring 711.26166.0 - 23						
05-09-00064	*seal ring MN 54.1A47 / 20						

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	
05-09-00065	*rubber bellow form No. 5424						
	Spare Parts for Pump HAEC 1200/5/2 - 091						
05-09-00066	*impeller						
05-09-00067	*wearing ring						
05-09-00068	*end bearing						
05-09-00069	*intermediate bearing						
05-09-00070	*shaft protection sleeve 0 - 83						
05-09-00071	*shaft protection sleeve 0 - 43						
05-09-00072	*shaft protection sleeve 0 - 73						
05-09-00073	*O-ring 230*5						
05-09-00074	*rubber for coupling 42						
05-09-00075	*drive shaft						
05-09-00076	*pump shaft						
05-09-00077	*Impeller for pump KDAEA 600/16/2 - 21						
05-09-00078	*Bearing 222 C						
05-09-00079	*Bearing 29324 D						
05-09-00080	*Bearing 6324						
05-09-00081	*Bearing 6312						
05-09-00082	*Bearing 6313						
05-09-00083	*Bearing HM 804848						
05-09-00084	*Bearing HM 807049						
05-09-00085	*Grease lubrication pump with motor complete						
05-09-00086	*Slip ring body for electric motor DSAKJ 5627-12						
05-09-00087	*Synchro gear reducer U.S. motor parallel shaft type GSMA Frame 52 Ratio 3 : 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	
	Spare Parts for Drilling Rig type B1A						
05-09-00088	Oil cooler with drive compilation DR.NO.5001605						
05-09-00089	*Rotary group A1028 ETL NO. 958654						
05-09-00090	*Pilot valve H ETL NR. 914110						
05-09-00091	*Pilot valve DFR1-SR10 10ETL NR909066						
05-09-00092	*Direct-circulation swivel compilation DR.NO.5000609						
05-09-00093	*Axial Cyl. roller bearing 81130						
05-09-00094	*Needle bearing 140/32 RSA3						
05-09-00095	*Hydraulic motor 6M076						
05-09-00096	*Power swivel B1A complete + 50% spare parts Dr.No.5103123						
05-09-00097	*Retaining Jaws dia 47-73 mm 5200254						
05-09-00098	*Retaining Jaws dia 70-114.3 mm 5200255						
05-09-00099	*Gear accessory to DRWG Dr. No.5400373						
05-09-00100	*Hub accessory to DRWG DR. No. 5400374						
	Spare Parts for Submersible Pumps type FLYGHT model CP 3300-180						
05-09-00101	*Inner seal unit						
05-09-00102	*Outer seal unit						
05-09-00103	*O-ring						
	Spare Parts for Submersible Pumps type FLYGHT model 3201						
05-09-00104	*Upper seal unit						

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
05-09-00105	*Lower seal unit					
05-09-00106	*O-ring					
	Spare Parts for Submersible Pumps					
	type FLYGT					
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					
	spare part for Kirkuk Irrigation Project. 1./ MAIN PUMP					
05-09-00108	*Bearing different sizes with cover					
05-09-00109	*Bearing bush (int.m.b.)1040438					
05-09-00110	*Bearing sleeve (int.m.b) 1040439					
05-09-00111	*Impeller					
05-09-00112	*Coupling					
05-09-00113	*Sleeve 58424					
05-09-00114	*Bearing sleeve (int.m.b) 1040368					
05-09-00115	*Bearing bush (int.m.b) 1040367					
05-09-00116	*Pump element with piston 600-25046-2					
05-09-00117	*Coupling					
05-09-00118	* Mechanical seal					

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
05-09-00119	* Shaft					
	2/OIL PRESSURERE DEVICE					
05-09-00120	*Control magnet valve s10 w 01					
05-09-00121	*Pressure switch Ts 60- do 10.0mpa					
05-09-00122	*Pressure gauge P(0-16 mpa)					
05-09-00123	*silicon oil for transformer					
	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					
05-09-00125	H .V fuse type 36A 121 250A , 7.2 KV					
05-09-00126	H.V HRC fuse cartridge for 10 kv .type unvc with striker . 452.58763 stranea RK 132946					
05-09-00127	Auto - transformer for starting of H.V motor					
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 mounting RK44629					
05-09-00129	Rotor for motors					
05-09-00130	Stator for motors					
05-09-00131	Compact HV vacuum contactor					
05-09-00132	Economy resistor for HV vacuum					
	4/AIR CONDITIONING PARTES					
05-09-00133	Circulation pump boiler type GHR-401 .N=100W					

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	
05-09-00134	Control three way valve heating coil V5015 A - honey well- NO 25. CV=10 G=3.0 m3/n P =12.5 KPA						
05-09-00135	Diverting - three - valve fan coil v 5066 honey well - N 40 KV =25 G=11.4M/H AP=8KPA						
05-09-00136	Circulation pump fan coil GHR 651 N = 435W						
05-09-00137	Circulation pump-Chiller(T 501-4,G=8M3/h H=13 KPA)						
05-09-00138	Double shaft motor for fan coil unit with code 823478 -411						
05-09-00139	Circulation pump forfan coil unit GHN 402A-R/2 G=6KPA , N=0.42 KW						
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.						
05-09-00141	Circulation pump for Chiller type G 65/21 G = 50 m3/h H=60 kpa N = 0.8 kw						
05-09-00142	Circulation pump for cooling tower type G65/2 G =5.5 m3/h H=95 kpa N = 1.0 kw						
	Spare parts for pump type KDEA 800/16 10-31						
05-09-00143	Protective shaft sleeve						
05-09-00144	Protective shaft sleeve						
05-09-00145	Protective shaft sleeve						
05-09-00146	Impeller						
05-09-00147	bearing different sizes						
05-09-00148	Coupling shell,divided .						
05-09-00149	Coupling ring,divided .						
05-09-00150	End bearing						
05-09-00151	Intermediate bearing						
05-09-00152	Mechanical seal						
05-09-00153	Coupling universal joint						
05-09-00154	Shaft						
05-09-00155	Crease lubrication pump						
	Spare Parts for type KAEA 800/10/ 6-21						

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
05-09-00156	Main pump shaft with sleeves 712-973-00-0-17 st.					
05-09-00157	End bearing 712-973-00-0-17 st.					
05-09-00158	Intermediate bearing 712-97523- 0-47 st .					
05-09-00159	Seal ring m s4.1a.47120					
05-09-00160	Pretection tube .					
05-09-00161	intermediate shaft .					
05-09-00162	Cricuit beaker el- 630/220 a .c.motor drive bisi - sp-a 200-400					
05-09-00163	Cricuit beaker el- 400/220 ov a.c hand drive bisi - sp-a 100-2001800-1600					
	Spare parts for Generator sets type (NPG-...)					
05-09-00164	AVR p46x206020					
05-09-00165	Relay stop 64918 - 62800					
05-09-00166	Relay synchro device p 38x206020					
05-09-00167	Relay set bath barage p 22x206020					
05-09-00168	Relay set p 48x206020					
05-09-00169	Change over switch p 66x206020					
05-09-00170	Magnatic condition p 67x206020					
05-09-00171	Turbocharge 49167-00101					
05-09-00172	Diod rotor sets P 44x206020					
05-09-00173	Solonoid valve 04400x02010					
05-09-00174	Contactors EG 315 - 1 418018- N(coil 220v)					

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
05-09-00175	Contactors EG 160 - 1sk 418015-N(coil 220v)					

**APPENDIX 9 B
SPARE PARTS FOR AL-JAZIRAH MAIN PUMP STATION**

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

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	
05-09-00192	*Instantaneous or definite timeVoltage relay						
05-09-00193	*Frequency relay (H.T.G.7012)						
05-09-00194	*Zero sequence over voltage						
05-09-00195	* Sensitive relay(R.N.V.H.3110)						
05-09-00196	*Directional over current relay (R.S.D.W.3000)						
05-09-00197	*Electronic gauge pressure transmitter(Type F60 EP 3100)Ref.S P6 -1-12						
05-09-00198	* Invertor . of. maxipac (SXM.5000)UPS						
05-09-00199	*Temperature controller (Pyromat plus 300) FT42-405/C						
05-09-00200	- Galvanic isolation module (FT 42-165/B)						
05-09-00201	-Summation module (FT 42-167/E)						
05-09-00202	-PB 80 C.P.U. ref 60720						
05-09-00203	-PB 80 power supply ref 60701						
05-09-00204	- PB 80 emulator ref 60757						
05-09-00205	-PB 400 input card ref 61080						
05-09-00206	-PB 400 input card ref 61120						
05-09-00207	-PB 400 input card ref 61132						
05-09-00208	-PB 400 output card ref 61101						
05-09-00209	-PB 400 monitoring ref 61057						
05-09-00210	-PB 400 mem ref 61041						
05-09-00211	-PB 400 JBUS - CPL ref 61183						

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
05-09-00212	-PB 400 alim(220V) ref 61081					
05-09-00213	-PB 400 pu					

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						
05-09-00215	DLAPHRAGM						
05-09-00216	COVER ASSY						
05-09-00217	DLAPHRAM						
05-09-00218	VALVE ASSY						
05-09-00219	CHAVPEL ASSY						
05-09-00220	CHOWPER ASSY						
05-09-00221	OIL SEAL						
05-09-00222	GASKET CYL HD(FIKERIN6)						
05-09-00223	GASTKET CYL HD						
05-09-00224	GUID , INL ANDEHXVLY						
05-09-00225	VALVE , EXH.						
05-09-00226	VALVE - INL.						
05-09-00227	GASKET SET . ENG						
05-09-00228	GASKET SET , VLVGRINDNG						
05-09-00229	CRANK SHALT AND BEARING KIT						
05-09-00230	MAIN BARING KIT STD.						
05-09-00231	MAIN BEARING KIT(0.010)U/S						
05-09-00232	MAIN BEARING KIT(0.020)U/S						
05-09-00233	OIL SEAL , C/S RR						
05-09-00234	FUEL FILTER , SEC						
05-09-00235	SLEEVE , CYL.						
05-09-00236	SEAL NTPUMP						
05-09-00237	GASKET , LOW C/C						
05-09-00238	OIL COOLER ASSY						
05-09-00239	CORE OIL COOLER						
05-09-00240	GASKIT						

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
05-09-00241	SEAL					
05-09-00242	OIL FILTER					
05-09-00243	BEURING,CON,ROD (STD)					
05-09-00244	BEARING,CON,ROD (010)					
05-09-00245	BEARING,CON,ROD (020)					
05-09-00246	WASHER , C.S.THRUST					
05-09-00247	CON , ROD					
05-09-00248	PIN, PISTON (STD)					
05-09-00249	RING , SETS					
05-09-00250	PISTON RING SET					
05-09-00251	PISTON KIT					
05-09-00252	TURBO CHARGER					
05-09-00253	W.PUMP REPAIRKIT					
05-09-00254	W.PUMP ASSY					
05-09-00255	GASKET SETENG					
05-09-00256	AIR COMP. ASSY					
05-09-00257	CON.ROD					
05-09-00258	CON. ROD INSERT KIT					
05-09-00259	CY L. HEAD ASSY					
05-09-00260	OIL SEAL, C/C					
05-09-00261	PISTON STD					
05-09-00262	PISTON RING SET KIT					
05-09-00263	REPAIR KIT					
05-09-00264	UNL DER KIK					
05-09-00265	NOZZLF HOLDER ASSY					
05-09-00266	NOZZLE					
05-09-00267	WT . PUMP					
05-09-00268	PLUNGER BARREL ASSY					
05-09-00269	GOVERNOR ASSY					
05-09-00270	OIL PUMP , ASSY					
05-09-00271	PLUNGER , OIL PRESSURE					
05-09-00272	BEARING , BALL					
05-09-00273	BEARING , BALL					
05-09-00274	COVER , WATER PUMP					
05-09-00275	ROTOR , WATER PUMP					
05-09-00276	SEAL					
05-09-00277	SEAL					
05-09-00278	SHATT , WATER PUMP					
05-09-00279	CLUTCH ASSY					
05-09-00280	DIS FRT					
05-09-00281	DIS RIR					
05-09-00282	PLATE , INTM					
05-09-00283	LEVER					

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
05-09-00284	PIVOT , PRESS SPRNG					
05-09-00285	RETAINER					
05-09-00286	RING					
05-09-00287	PIATE					
05-09-00288	BEARING					
05-09-00289	FORK					
05-09-00290	OIL SEAL					
05-09-00291	OIL SEAL					
05-09-00292	FORK					
05-09-00293	FORK					
05-09-00294	SEAL					
05-09-00295	SEAL					
05-09-00296	UNIVERSAL JOINT					
05-09-00297	BEARING					
05-09-00298	CUSHION IRBG					
05-09-00299	SLINGER FOLL					
05-09-00300	UNIVERSAL JOINT					
05-09-00301	VALVE					
05-09-00302	VALVE SELEC					
05-09-00303	VALVE					
05-09-00304	STEERINGGEAR					
05-09-00305	MATED SERVKF KIT					
05-09-00306	UNIVERSAL JOINT					
05-09-00307	PUMP ASSY					
05-09-00308	CARTRIDGC SERVICE KIT					
05-09-00309	SEAL SERVICE KIT					
05-09-00310	ELEMENT ASSY					
05-09-00311	ENGINE ASSY					
05-09-00312	HYDRULIC MOTOR 210.16.21.73 A2F 28 W3 Z1					
05-09-00313	SPRING PRESSURE PLATE BRAKE 790 -10-021					
05-09-00314	SCRAPER 65X75X7					
05-09-00315	GROOVED RING SEALING SET 90/70 X12,5 G18 -90					
05-09-00316	SCRAPER 40X50X7					
05-09-00317	GROOVED RING SEALING SET 40/50/10					
05-09-00318	CONTROL BLOCK WITH PRESSURE LIMIT VALVE					

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	
05-09-00319	PISTON RING SG 110X 100,8X3						
05-09-00320	SEALING GLAND SET 63X83X37						
05-09-00321	GATE VALVE KIT 180/55/25						
05-09-00322	GUID SLEEVE						
05-09-00323	PLSTON BUSHING						
05-09-00324	SEALING RING						
05-09-00325	GROOVED RING SEALING SET 45/65X12.5						
05-09-00326	SEALING GLAND SET 45/65X27.5						
05-09-00327	HYDRULIC MOTOR AMS 25- M10						
05-09-00328	WATER PUMP (HYDR) 7560-N-KMT2						
05-09-00329	SEALING SET FOR HYDRULIC MOTOR AMS 25 M-10						
05-09-00330	SEALING SET FOR WATER PUMP HYPRO- ROLLE (SMALL)						
05-09-00331	SEALING SET FOR WATER PUMP HYPRO- ROLLE						
05-09-00332	SEALING SET CPL.						
05-09-00333	HAND VALVE HVM-ROL 10632L EV 413.000						
05-09-00334	HAND VALVE HSRL10632L EV 357.000						
05-09-00335	SOLENDID VALVE MSE 06432/12V						
05-09-00336	VALVE CARTRIDGE A2A 125 200 BAR						
05-09-00337	VALVE CARTRIDGE A2A 125 70 BAR						
05-09-00338	VENTILATION ONIT 12V FOR OIL COOLER						

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	
05-09-00339	HYDRULIC PUMP 226.22.04.18 A7VO 80 LRH/ 60RPZBI						
05-09-00340	HYDRULIC PUMP 210.16.28.66A2F 23 L3 Z4						
05-09-00341	HYDRULIC PUMP 210.12.28.50A2F 23 L3 Z4						
05-09-00342	HAND VALVE HVM 10632 WITH PISTON EV 355.127A						
05-09-00343	HAND VALVE HVM 10632F WITH PISTON EV 355. 126B						
05-09-00344	HAND VALVE HSR 10631						
05-09-00345	HAND VALVE HVM 106311 WITH PISTON EV 355. 129						
05-09-00346	SOLENDID VALVE MSE D 06432/12V.						
05-09-00347	PRE-LOAD VALVE VV - 2 R 3/4						
05-09-00348	THROTTLE CHCK VALVE SRD-A- 10 .S						
05-09-00349	PRESSURE LIMIT VALVE DVP-P- 10S (EV 884.006)						
05-09-00350	VALVE CARTRIDGE SVP - 10S 80 BAR						
05-09-00351	THROTTLE CHCK VALVE 1/2" DRVL - R1/2 1.8 L						
05-09-00352	THROTTLE CHCK VALVE 1/2 DRVL - R1/2" 1.3C"						
05-09-00353	THROTTLE CHCK VALVE 1/2" DRVL-R1/2 0.9" K"						
05-09-00354	VALVE CARTRIDGE DRP 10S						
05-09-00355	VALVE CARTRIDGE SVP- 10S 280 BAR						
05-09-00356	HYDRULIC CYLINDER 180/110X1.050						

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	
05-09-00357	HYDRULIC CYLINDES 200/140X1400						
05-09-00358	HYDRULIC CYLINDES 160X100 X 1000						
05-09-00359	HYDRULIC CYLINDES 110X70X670						
05-09-00360	SEALING GLAND SET 110X130X40 E2 -110/SM5-110						
05-09-00361	SCRAPER 110X122X12						
05-09-00362	GROOVE RING SEALING SET 180/150X18.8,G18-180						
05-09-00363	SEALING GLAND SET 140/165X46 E2 -140/SM5-140						
05-09-00364	CRAPER 140X155X16						
05-09-00365	SCRAPER 70X80X7						
05-09-00366	GROOVED RING SEALING SET 200/170X18,8G 18-200						
05-09-00367	SEALING GLAND SET 70190140 E 2-70 SM5 -70						
05-09-00368	GROOVED RING SEALING SET 110/90X12,5G 18-110						
05-09-00369	CLEANING BALL FOR DN 125 HARD						
05-09-00370	FILTER ELEMENT						
05-09-00371	HYDRULIC MOTOR OMR 2001 SN21/RS 200						

**APPENDIX 9 C - II
SPARE PARTS FOR MACHINES**

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE				
05-09-00372	Spare Parts For Hydraulic Excavators Liebherr						
05-09-00373	Spare Parts For Hydraulic Excavators Hitachi and Fiat Hitachi						

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	
05-09-00374	Spare Parts For existing pumping station in Sadam Irrigation project						
05-09-00375	Spare Parts For Bulldozers						
05-09-00376	Spare Parts For shovels (Crawler and Tire)						
05-09-00377	Spare Parts For Drag Line Excavators						
05-09-00378	Spare Parts For Mobile cranes						
05-09-00379	Spare Parts For Graders						
05-09-00380	Spare Parts For Trailers for cement transporation						
05-09-00381	Spare Parts For Tip trucks						
05-09-00382	Spare Parts For Marsh-Machine Excavators						
05-09-00383	Spare Parts For Truck Mixers for concrete						
05-09-00384	Spare Parts For Truck Tankers for raw water						
05-09-00385	Spare Parts For Truck fuel tankers						
05-09-00386	Spare Parts For Vibrating Sheep Foot Rollers						
05-09-00387	Spare Parts For Vibrating Stee Rollers						
05-09-00388	Spare Parts and Accessories For Tower Cranes						
05-09-00389	Spare Parts For Mobile and fixed pump Crete						
05-09-00390	Spare Parts For Low and Flat Loaders						
05-09-00391	Spare Parts For Motor Scrapers						
05-09-00392	Spare Parts and accessories for Mixing plants for concrete						

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	
05-09-00393	Spare Parts For Diesel and electrical welding Machine						
05-09-00394	Spare Parts For Air Compressors						
05-09-00395	Spare Parts For Lorry						
05-09-00396	Spare Parts For Fork Lift						
05-09-00397	Spare Parts For dredger						
05-09-00398	Spare Parts For Pool transport (pick up, Land Groser and Service Buses)						
05-09-00399	Spare Parts For Mobile Diesel and electrical rottary Drilling Rigs .						
05-09-00400	Spare Parts and accessories For Diaphragm boring machine .						
05-09-00401	Spare Parts For Water well Drilling Equipments						
05-09-00402	Spare Parts and accessories for grouting Equipments						
05-09-00403	Spare Parts and accessories for perforated UPVC and solid PVC pipes plant .						

**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)						
05-09-00405	O-Ring						
05-09-00406	Piston sealing						
05-09-00407	Oil cooler						
	* Hydraulic -Cylinder 80140-830 M 1280						
05-09-00408	Piston						
05-09-00409	Wiper						
05-09-00410	Rood Sealing						
05-09-00411	Guiding						

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
05-09-00412	O-Ring					
05-09-00413	Piston sealing					
	* Hydraulic -Cylinder Dr.NO.520/900					
05-09-00414	End ring					
05-09-00415	Grooved Ring					
05-09-00416	Round packing Ring					
05-09-00417	Ball 7 III DIN 5401					
	*Sewage Plant & Irrigation System					
05-09-00418	Time Delay Relay (Timer) Range -30 220 V, 50HZ For (λ-Δ) operation .					
05-09-00419	Current Operted earth Leakage Circuit Breaker 25A v =220-415; 50 HZ Rated Fault Current 0.2A					
05-09-00420	N - type AC miniature arc Circuit Breaker single Pole 25 A rated voltage 240/415 50HZ					
05-09-00421	Transformer 250VA 380/24V ,50HZ					
05-09-00422	Contactoer ,420A Rated Voltage 500V , 50HZ Control (voltage = 220V) AUX. Contact (2N/O,2N/C)					
05-09-00423	Over Load Relays 165A-235A					

**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					
05-09-00425	Frrule					
05-09-00426	Frrule					
05-09-00427	Gasket k					
05-09-00428	Champer ass					
05-09-00429	Valve (exh)					
05-09-00430	Valve (int)					
05-09-00431	Guide (int)					
05-09-00432	Guide (exh)					

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
05-09-00433	Liner					
05-09-00434	Piston Group with ring					
05-09-00435	fuel no 33 lep					
05-09-00436	Pump					
05-09-00437	Fuel transfer Pump					
05-09-00438	Water Pump repaer kit					
05-09-00439	Turbo charger assem					
05-09-00440	Gear drive					
05-09-00441	Bearing (big end)std					
05-09-00442	Bearing (main.end) std					
05-09-00443	Crank shaft					
05-09-00444	Valve					
05-09-00445	Valve					
05-09-00446	Matles . Ass					
05-09-00447	Fule filter					
05-09-00448	Oil filter					
05-09-00449	Air starter					
05-09-00450	Cavernor					
05-09-00451	Bearing(0.5"under size)					
05-09-00452	Bearing(0.5"under size)					
	IHC BEREAR 4000 for deage pump type 162-3570					
05-09-00453	Pump casing cs-30mn5					
05-09-00454	Impeller with no3-bladed gs . 30m5					
05-09-00455	Suetion cover with water flwing					
05-09-00456	Shaft cover					
05-09-00457	Water champen shaft side					
05-09-00458	Suetion mouth wearing ring . maxidur					
05-09-00459	Wearing plate suetion side with water flushing					
05-09-00460	Wearing plate shaft side					
05-09-00461	Sesparation plate 57005-091					
05-09-00462	Bush 57022-014					
05-09-00463	Wearing ring 57022-104					
05-09-00464	Manchet suction side 57022-134					

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
05-09-00465	Bearing block complete					
05-09-00466	Simmer ring 300x335x18					
05-09-00467	Wearing bush 57005-051					
05-09-00468	For greasing apparatus type Rfs 24					
05-09-00469	Cartridge kit A38 for vickesPump					
05-09-00470	Cartridge kit A17 for vickesPump					
05-09-00471	Seal kit38 for vickes Pump					
	for staffa hydn . Motor m(b200 s red divil)					
05-09-00472	Complete Motor					
05-09-00473	Service kit					
05-09-00474	Stork Pump kge 16-6					
05-09-00475	Air compressor tk-170 Complete					
05-09-00476	Valve set (6A,6B,8B,8B)					
05-09-00477	Connecting rod 18-41					
05-09-00478	Piston 18-3					
05-09-00479	Piston ring 18- 9					
05-09-00480	Piston ring 18-10					
05-09-00481	Piston ring 18- 11					
05-09-00482	Bearing 10-31					
05-09-00483	Pressure switch 6-460					
	For fresh water hydrophone					
05-09-00484	Stonk Pump sp 154					
05-09-00485	Pressure switch 28-1607-1					
	For gland type nic -50230					
05-09-00486	Impeller (bron 3e) 88/10/2					
05-09-00487	Shaft with key and nut					

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
05-09-00488	Shaft bush					
05-09-00489	Set wearing ring					
05-09-00490	Set bearings					
	For main switch board					
05-09-00491	Switch 4-pol -63A-172N0140					
05-09-00492	Key switch 03-191					
05-09-00493	Regulating Trans formator 220 V1A					
05-09-00494	Relay 24v dc(m4-variatic) dg 24 vdc					
05-09-00495	Relay foot v23					
05-09-00496	Alarm annun ciator 5points 24v.dc2702					
	for Diesel - Marine Engine cater piller 3412					
05-09-00497	Cyl-head gasket kit					
05-09-00498	Cyl-head gasket kit					
05-09-00499	Ferrule					
05-09-00500	Valve(exh)					
05-09-00501	Valve(int)					
05-09-00502	Liner					
05-09-00503	Piston group with rings					
05-09-00504	Fule nozzel					
05-09-00505	Fule transfer Pump					
05-09-00506	Water Pump repair kit					
05-09-00507	Bearing (big end)std					
05-09-00508	Bearing (main .std)					
05-09-00509	Crank shaft					
05-09-00510	Oil filter					
05-09-00511	Injection fule Pump					
05-09-00512	Bearing 0.05 under size					
05-09-00513	Air cleaner					
05-09-00514	Plat thrust					
05-09-00515	Guide (exh)					
05-09-00516	Guide (int)					
05-09-00517	Zeal					
05-09-00518	Turbo charger					

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
05-09-00519	Ring asse					
05-09-00520	Rod assy					
05-09-00521	For vicker Pump gertridge					
05-09-00522	For vicker Pump gertridge A					
05-09-00523	Roll bearing					
05-09-00524	Ball bearing					
	for 301 CSD C O & K and 351 CSD C O & K					
05-09-00525	Coupling combination(fludex 590)					
05-09-00526	Siro -Pump , complete					
05-09-00527	Expansion joints with mounting parts					
05-09-00528	Pump casing 300/940					
05-09-00529	Pump impeller complete					
05-09-00530	Pump impeller complete for (CSD 301 C)					
05-09-00531	Wear ring 220/240					
05-09-00532	Lip-type seal, shaft side 155/229					
05-09-00533	Lip-type sealing ring 155/229					
05-09-00534	Casing wear ring 300/350					
05-09-00535	Sph-roll bearing 232 20C3					
05-09-00536	Sph-roll bearing 230 24C					
05-09-00537	Sph-roll bearing 222 26					
05-09-00538	Sph-roll bearing 222 16C3					
05-09-00539	Axial sph. Roller B.293 24 B					
05-09-00540	Oil engine with coupling half					

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	
05-09-00541	Oil engine coupling half for (CSD 301 D)						
05-09-00542	Gear for cutter head						
05-09-00543	Gear for cutter head (CSD 301)						
05-09-00544	Control - valve NG30						
05-09-00545	Turbocharger for engine MTU						
05-09-00546	Gear box complete with fludex 590						
	for Diesel Engin D 398						
05-09-00547	Valve asse						
05-09-00548	Piston ring group						
05-09-00549	Piston assy						
05-09-00550	Liner						
05-09-00551	Motor assy						
	for Diesel Engin D 343 62B 11032 AND 62 B 12803						
05-09-00552	Nozzil assy						
05-09-00553	Piston assy						
05-09-00554	Bearing						