

**ANNEX AGR I - 9**

**Sector:** AGRICULTURE

**Sub-Sector:** IRRIGATION

**Activity:** Rehabilitation 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	
						Optimal application	Optimal delivery
05-09-00001	Water Well Drilling Requirements See App. 8	Equipment's, materials and spares are needed for improving groundwater resources use. (In Governorates Kerballa, Najaf, Anbar, Tamem, Diyala and Basrah)	As stated in App. 8		Resemble requirement for repairs and replacement.	ALL YEAR	AS SOON AS POSSIBLE

**APPENDIX 9 A .  
SPARE PARTS FOR PUMPING STATIONS**

Code	DESCRIPTION	QUANTITY
05-09-00002	Circuit Breaker SC14-12/20 800 MAA22	5
05-09-00003	Circuit Breaker SC1 - 10/630 250 MAA	5
05-09-00004	Circuit Breaker SC1 - 10/630 350 MAA	5
05-09-00005	Current Transformer 6 S12	10
	<b>Voltage Transformer GZ 12 as below:</b>	
05-09-00006	- 11000 / 100 V	5
05-09-00007	- 6000 / 100 V	5
05-09-00008	- 3300 / 100 V	5
05-09-00009	Air Breaker Contecter ESU 250 / 3 220 V A.C.	10
05-09-00010	Air Breaker Contecter K-ID 1 220 V A.C.	10
05-09-00011	Air Breaker Contecter K-ID 2 220 V A.C.	10
05-09-00012	Air Breaker Contecter K-ID 3 220 V A.C.	10
05-09-00013	Phase Failer-Protection Device 380 V A.C. 75%	30
05-09-00014	Ball Bearing 6320	50
05-09-00015	Ball Bearing 6322	20
05-09-00016	Ball Bearing 6318	10
05-09-00017	Ball Bearing 6307	5
05-09-00018	Ball Bearing 7320	25
05-09-00019	Ball Bearing 6317	10
05-09-00020	Ball Bearing 7322	20
05-09-00021	Ball Bearing 6314	25
05-09-00022	Thrust Bearing 29326	10
05-09-00023	Thrust Bearing 29330	2
05-09-00024	Thrust Bearing 29336	10
05-09-00025	Thrust Bearing 29340	2
05-09-00026	Thrust Bearing 29348 E	8
05-09-00027	Thrust Bearing 29322	10
05-09-00028	Roll Bearing NU320 JP 6	25
05-09-00029	Roll Bearing NU320 J	10
05-09-00030	Roll Bearing NU322	5
05-09-00031	Roll Bearing NU330	6
05-09-00032	Bearing 23036	10
05-09-00033	Bearing 32320	10
05-09-00034	Bearing 32316	10
05-09-00035	Bearing NU326 BMC3	5
	<b>Spare Parts for Pump Type 1200 / 20 / 2500</b>	
05-09-00036	- guide casing complete 97942	2
05-09-00037	- diffusor 20699	2
05-09-00038	- intermediate flange 35126	1
05-09-00039	- protection tube with shute 97779	1
05-09-00040	- protection tube 1m 97891	1
05-09-00041	- protection tube 1.5 m 97892	1

05-09-00042	- transition piece 97323	1
05-09-00043	- sealing complete	2 sets
05-09-00044	- guide wheel complete 97271	2
05-09-00045	- main shaft 14434	1
05-09-00046	- bearing NU1036	5
05-09-00047	- bearing NU238	5
05-09-00048	- bearing NU29332	10
05-09-00049	- bearing NU29348	3
05-09-00050	- O-Ring 110*3	5
05-09-00051	- elasting pin coupling	5
05-09-00052	- ball bearing NU309	5
05-09-00053	- ball bearing 6309	3
05-09-00054	- contact segment	10
05-09-00055	- short - circuit boss	2
05-09-00056	- carbon brush	20
05-09-00057	- inclind ball bearing q 320 tj 63	3
<b>Spare Parts for 6 KV &amp; 11 KV Switch Gear from Techono Commerze</b>		
05-09-00058	- circuit breaker SCI 1 - 10 / 630 /350	2
05-09-00059	- current transformer GS 12 30 / 5 /5A	2
05-09-00060	- voltage transformer GZ 12 11 / 0.1 KV	2
05-09-00061	- overcurrent time lag relay	1
05-09-00062	- neutral relay 2 RH 30 100 W A.C.	2
05-09-00063	- neutral relay ZRH30 100 W A.C. with drop indicator	2
05-09-00064	- neutral relay 2 RH 06 24 V D.C.	2
05-09-00065	- coil of under voltage 100 V A.C. 06 - 34	10
05-09-00066	- 3-pole small 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
<b>Spare Parts for Main Pump Type KAEA 1000 / 10 / 4 - 29</b>		
05-09-00067	- main pump shaft with sleeves for pump KAEA 1000 / 10 / 4 - 29	1
05-09-00068	- end bearing 712.97303.0 - 77st.	3
05-09-00069	- axial bearing 29348TGL 2996	3
05-09-00070	- shaft protection sleeve 711.13363.0 - 73	3
05-09-00071	- shaft protection sleeve 711.13362.0 - 23	4
05-09-00072	- shaft protection sleeve 711.13364.0 - 33	3
05-09-00073	- wearing ring 711.26166.0 - 23	10
05-09-00074	- seal ring MN 54.1A47 / 20	10
05-09-00075	- rubber bellow form No. 5424	10
<b>Spare Parts for Pump HAEC 1200 / 5 / 2 - 091</b>		
05-09-00076	- impeller	1
05-09-00077	- wearing ring	3

05-09-00078	- end bearing	1
05-09-00079	- intermediate bearing	1
05-09-00080	- shaft protection sleeve 0 - 83	1
05-09-00081	- shaft protection sleeve 0 - 43	1
05-09-00082	- shaft protection sleeve 0 - 73	1
05-09-00083	- O-ring 230*5	6
05-09-00084	- rubber for coupling 42	6
05-09-00085	- drive shaft	1
05-09-00086	- pump shaft	1
05-09-00087	Impeller for pump KDAEA 600 / 16 / 2 - 21	1
05-09-00088	Bearing 222 C	10
05-09-00089	Bearing 29324 D	10
05-09-00090	Bearing 6324	10
05-09-00091	Bearing 6312	5
05-09-00092	Bearing 6313	10
05-09-00093	Bearing HM 804848	5
05-09-00094	Bearing HM 807049	5
05-09-00095	Grease lubrication pump with motor complete	10
05-09-00096	Slip ring body for electric motor DSAKJ 5627 - 12	10 sets
05-09-00097	Synchro gear reducer U.S. motor parallel shaft type GSMA Frame : 52 Ratio 3 : 1	10

**APPENDIX 9 B .  
SPARE PARTS FOR AL-JAZIRAH MAIN PUMP STATION  
FROM MARLIN - GERIN COMPANY / FRANCE**

<b>Code</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
05-09-00098	PB 400 Input Card ref V08D	5
05-09-00099	PB 400 Output Card 24 / 48 V D.C., 0.5 A ref 6N01	5
05-09-00100	PB 400 Output Card 3A, 250V AC, ref 61100	2
05-09-00101	PB 400 Power Supply CPLEX ref 61032	2
05-09-00102	PB 400 Power Supply ALIM ref 61061	2
05-09-00103	PB 80 Input Card 24V D.C., ref 60730	2
05-09-00104	PB 80 Output Card 3A, 250V, A.C. ref 60740	5
05-09-00105	D.C. Power Supply F 24V, 3A / 1A, ref 71035	1
05-09-00106	D.C. Power supply F 12V, 0.6 A, ref 71031	1
05-09-00107	Instantaneous or definite time over current relay ( I.T.G. 7153)	1
05-09-00108	Motor protective relays medium voltage ( I.T.M. 7060)	1
05-09-00109	Voltage current convertor module HDOXO ( FT 42295 / C )	1
05-09-00110	High level input differential alarm modul ( FT 42 - 166 / D )	1
05-09-00111	Alarm high level input module ( FTU2 - 160/C) P.S.	1
05-09-00112	Voltage frequency ( FT 42 - 164 / D ) multiplier divider module ( FT 42 - 163 / D )	1

**APPENDIX 9 C - I**

**SPARE PARTS FOR MACHINERY AND EQUIPMENTS  
Engine Model D342**

<b>Code</b>	<b>Part No.</b>	<b>Description</b>	<b>Quantity</b>
05-09-00113	8N5676	LINER	60
05-09-00114	7N1367/4N6815	PISTON	60
05-09-00115	8N5760N4S6867	PISTON RING	60
05-09-00116	4S6867	CONN. ROD.	6
05-09-00117	5N8521	CYL. HEAD	10
05-09-00118	3H6767	PIN	10
05-09-00119	1P7324	PLUG	100
05-09-00120	1W1818	VALVE	18
05-09-00121	1W1819	VALVE	18
05-09-00122	2P0484	CHAMPER	12
05-09-00123	8N1831	NOZZLE	120
05-09-00124	6N0652	WATER PUMP	4

05-09-00125	4N4880/7N4170	OIL PUMP	2
05-09-00126	9J5091	VALVE	2
05-09-00127	8H1993	VALVE	3
05-09-00128	9J5050	HYDRAULIC PUMP	6
05-09-00129	3G7658	GARTRIDGE PUMP 14 G. MP	6
05-09-00130	1U3953	GARTRIDGE PUMP 38 G.MP	10
05-09-00131	4S6581	BEARING S.T.D	10
05-09-00132	4S6582	BEARING S.T.D	2
05-09-00133	4S9396	BEARING 0.25	36
05-09-00134	4S9367	BEARING 0.25	6
05-09-00135	4S9398	BEARING 0.50	24
05-09-00136	4S9399	BEARING 0.50	4
05-09-00137	4S6834	BIG END BEARING S.T.D	24
05-09-00138	4S9276	BIG END BEARING 0.25	36
05-09-00139	4S9277	BIG END BEARING 0.25	36
05-09-00140	6N2823	CRANK SHAFT	2
05-09-00141	9G6778	TRANSMITION	1
05-09-00142	7N6243/6B6224	FERRULE	300
05-09-00143	1S8754	JOINT	5
05-09-00144	7S7400/2P9239	TORQUE PUMP	3
05-09-00145	2W0719	KIT TURBO CHARGER	3
05-09-00145	2W0719	KIT TURBO CHARGER	3
05-09-00146	8H9155	OIL SEAL	12
05-09-00147	1P6400	PLUNGER	50
05-09-00148	8P8072/6T6782	SEGMENTED SPROCKET	18
05-09-00149	9S2727	BOLT	40
05-09-00150	7H3609	NUT	40
05-09-00151	2S5925	GREAS POINT	16
05-09-00152	9J5106	SHAFT HYD, PUMP	2
05-09-00153	1T0595	CARRIER	1
05-09-00154	6V3709	GASKET KIT	10
05-09-00155	5P9218	GASKET	4
05-09-00156	2W2604	FEED PUMP	6
05-09-00157	6N0652	LEED WIRE	6
05-09-00158	6N9653	OIL COOLER	2
05-09-00159	7W0205	OIL COOLER	2
05-09-00160	8N5931	TURBO CHARGER	2
05-09-00161	1T221	WHEEL ASSEM.	2
05-09-00162	1T593	WHEEL ASSEM	2
05-09-00163	1T633	IMPELLER	2
05-09-00164	1T309	RING	16
05-09-00165	1T233	RING	8
05-09-00166	1T0670	HYDRAULIC TORQUE CONVERTER	1
05-09-00167	8N6610	TURBO CHARGER	2
05-09-00168	4N4880	TRANSFER PUMP	2

## APPENDIX 9 C - II

### FOR BULLDOZER KOMATSO MODEL (D65 A , E) (D60 A , P , PL , E)

Code	Part No.	Description	Quantity
05-09-00169	7053031202	HYD. PUMP	6
05-09-00170	1442112372	RING	20
05-09-00171	0743271206	HYD. PUMP	6
05-09-00172	0743072206	HYD. PUMP	6
05-09-00173	6610092000	GASKET KIT	16
05-09-00174	6610092100	GASKET KIT	8
05-09-00175	6631311060	CRANK SHAFT	4
05-09-00176	6620511000	OIL PUMP	6
05-09-00177	6631211023	CYL. BLOCK	3
05-09-00178	6632721000	INJECTION PUMP	4
05-09-00179	66104141210	VALVE	60
05-09-00180	6610414006	VALVE	60
05-09-00181	6610611081	GASKET	20
05-09-00182	6610212212	BUSH	60
05-09-00183	6620312110	PISTON	60
05-09-00184	6620313062	CONN. ARM	12
05-09-00185	6610218060	BEARING	4
05-09-00186	6610298060	BEARING	6
05-09-00187	6610288060	BEARING	6
05-09-00188	6610373041	BIG. END. 0.75	5
05-09-00189	6610363041	BIG. END. 100	2
05-09-00190	6610383041	BIG. END. 0.50	8
05-09-00191	6610393041	BIG. END. 0.25	8
05-09-00192	6610 3041	BIG. END. STD	6
05-09-00193	6620613060	INJECTOR	16
05-09-00194	6620613210	CUP INJECTOR	20
05-09-00195	1441500030	UNIVERSAL JOINT	6
05-09-00196	6675411060	CAM SHAFT	4
05-09-00197	6620312910	PIN CONN. ROD	12
05-09-00198	6620312020	RING PISTON	10
05-09-00199	6672728702	FLOAT VALVE	6
05-09-00200	1447061131	EDGE CUTTING	10
05-09-00201	1351400030	SPIDER ASSY	6
05-09-00202	6006521111	OIL COOLER	2
05-09-00203	1441312111	STATOR FIRST	2
05-09-00204	1441312311	STATOR SECOND	2
05-09-00205	1541512713	LINING	16
05-09-00206	1451412711	DISC	8
05-09-00207	1441500067	TRANSMISSION ASSY	1
05-09-00208	6610718180	FUEL PIPE	4
05-09-00209	6610611821	GROMMET	250
05-09-00210	6610611850	GROMMET	250

### APPENDIX 9 C - III

#### SPARE PARTS FOR KATO HYDRAULIC EXCAVATOR MODEL HD-700 G MITSUBISHI DIESEL ENGINE MODEL 6D1

Code	Part No.	Description	Quantity
05-09-00211	60937500002	PUMP PLUNGER ASSY	4
05-09-00212	61943300006	MOTOR	8
05-09-00213	61995400006	G REDARTIRON ASSY	1
05-09-00214	61934800002	MOTOR PLUNGER	1
05-09-00215	60937549006	SEAL OIL	8
05-09-00216	60937505006	BEARING R	4
05-09-00217	60937506006	BEARING R	4
05-09-00218	61939415006	BLOCK CLY.	2
05-09-00219	61939416006	PLATE RETAINER	2
05-09-00220	61939418006	PLATE	2
05-09-00221	61939419006	WASHER	4
05-09-00222	61934855006	SPRING	4
05-09-00223	61934856006	PIST	12
05-09-00224	61934857006	SHOE	4
05-09-00225	61939423006	BALL	2
05-09-00226	61937340006	SEAL OIL	3
05-09-00227	00935006307	BEARING BALL	10
05-09-00228	61934891006	OIL SEAL KIT	6
05-09-00229	61939446006	PIN	6
05-09-00230	62956700002	VALVE	1
05-09-00231	62956800061	VALVE	1
05-09-00232	62956713006	VALVE	6
05-09-00233	62944129002	SPRING	8
05-09-00234	62956730006	VALVE	8
05-09-00235	62952631006	SEAT CHECK	8
05-09-00236	62952627006	MACK UP	8
05-09-00237	21711706000	COUPLING	2
05-09-00238	61903606006	MOTOR TRAVELING ASSY	1
05-09-00239	61943304006	BLOCK CYL.	1
05-09-00240	61943305006	PLATE VALVE	1
05-09-00241	61943303006	SHAFT	1
05-09-00242	61943306006	PISTON	6
05-09-00243	61943307006	PLATE	1
05-09-00244	61943308006	HOLDER	1
05-09-00245	61943309006	PLATE	1
05-09-00246	61943322006	SEAL OIL	2
05-09-00247	61995905006	PIN	1
05-09-00248	30916200004	CYL. ADJUST ASSY	1
05-09-00249	60937509006	BUSH CYL.	6
05-09-00250	60937508006	CYLINDER	1
05-09-00251	60937510006	PISTON	18

05-09-00252	60937511006	SHOE	10
05-09-00253	60937062006	PLATE	1
05-09-00254	60937530006	PLATE VALVE R	1
05-09-00255	60937531006	PLATE VALVE L	1
05-09-00256	61939403006	SHAFT	1
05-09-00257	61995906006	SEAL DRIVE	1
05-09-00258	62956700002	VALVE CONTROL ASSY	1
05-09-00259	ME999441	PISTON AND LINER KIT	2
05-09-00260	ME999458	GASKET KIT	2
05-09-00261	ME0325	BEARUBG 0.25	1
05-09-00262	ME03251	BEARING 0.75	1
05-09-00263	ME032520	BEARING 0.50	1
05-09-00264	ME031916	GASKET HEAD	1
05-09-00265	ME031938	VALVE INLET	12
05-09-00266	ME031940	VALVE EX	12
05-09-00267	ME034664	OIL PUMP	1
05-09-00268	ME031042	BUSH CAN SGAFT	1
05-09-00269	ME31043	BUSH CAM SAFT	1
05-09-00270	ME031044	BUSH CAM SHAFT	1
05-09-00271	ME031096	BUSH CAM SAHFT	1
05-09-00272	ME031543	OIL SEAL	1
05-09-00273	ME999200	MAIN BUSHING US 0.25	1
05-09-00274	ME999206	MAIN BUSHING US 0.50	1
05-09-00275	ME999202	MAIN BUSHING US 0.75	1
05-09-00276	ME999203	MAIN BUSHING US 1.00	1
05-09-00277	ME030856	OIL SEAL	1
05-09-00278	ME031886	GUIDE VALVE	2
05-09-00279	ME031888	GUIDE VALVE	2
05-09-00280	ME036780	NOZZLE ASSY	6

### APPENDIX 9 C - IV

FOR KATO HYDRAULIC EXCAVATOR MODEL HD-750 NESSAN  
DIESEL ENGINE MODEL PD604  
KATO WORKS CO. LTD.

Code	Part No.	Description	Quantity
05-09-00281	33411700000	PUMP DRIVING ASSY	12
05-09-00282	13411604000	COUPLING	2
05-09-00283	06420206020	SEAL	2
05-09-00284	61942025006	OIL SEAL	2
05-09-00285	61942106006	ROD CON	3
05-09-00286	61942006006	RING PISTON	12
05-09-00287	63951213002	SPOOL	2
05-09-00288	63951214006	POPPET	2
05-09-00289	63951224006	NOZZLE	2
05-09-00290	63951226006	NOZZLE	2

05-09-00291	63951229006	SEAT VALVE	6
05-09-00292	61937000002	MOTOR PLUNGER	14
05-09-00293	61995029006	BEARING	4
05-09-00294	61995030006	BEARING	2
05-09-00295	61937003002	PLATE SWASH	2
05-09-00296	61937006006	CYLINDER	1
05-09-00297	61937027006	PLATE	4
05-09-00298	61937028006	PLATE	4
05-09-00299	61937039006	BEARING	1
05-09-00300	62938000002	VALVE CONTROL	1
05-09-00301	33460700000	HYD. PIPING ASSY	1
05-09-00302	60921702006	BEARING	5
05-09-00303	60921706006	SEAL RING	2
05-09-00304	60921721006	PLATE	3
05-09-00305	60921627006	SEAL	2
05-09-00306	60921744006	SHAFT	2
05-09-00307	60921645006	SEAL	2
05-09-00308	60921713006	COVER	2
05-09-00309	60921620006	HOUSING	2
05-09-00310	13460800050	HYD. PIPING ASSY	1
05-09-00311	61942000062	MOTOR PISTON ASSY	2
05-09-00312	62938005006	VALVE RELIEF	4
05-09-00313	62938062006	PLATE	12
05-09-00314	62938067006	SPOOL	2
05-09-00315	30911002061	PISTON ROD	2
05-09-00316	30910690000	SEAL KIT	4
05-09-00317	68981005061	WASHER	2
05-09-00318	68981006	RING BACKING	6
05-09-00319	68980806006	SHAFT	1
05-09-00320	1300396025	BUSH	2
05-09-00321	1211796002	SHEALL US 25	2
05-09-00322	1211796003	SHEALL US 50	2
05-09-00323	1211796004	SHEALL US 75	2
05-09-00324	1211796005	SHEALL US 100	2
05-09-00325	1320296025	VALVE INL	18
05-09-00326	1320696000	VALVE EX	18
05-09-00327	1203096000	BUSH	12
05-09-00328	1206196007	PISTON	12
05-09-00329	1204096026	RING PISTON	6
05-09-00330	1506096008	OIL PUMP	2
05-09-00331	2106096004	WATER PUMP	2
05-09-00332	1676099000	PLUNGER	12
05-09-00333	1662096006	NOZZLE	18
05-09-00334	2106696000	DUCK WATER	2
05-09-00335	2106796000	DUCK WATER	2
05-09-00336	1229996000	SLINGEL	3
05-09-00337	1526990006	GASKET	2

05-09-00338	1106296006	LINER	12
05-09-00339	1320797006	SEAL	60
05-09-00340	1320796000	COVER	60
05-09-00341	1104496002	GASKET	8
05-09-00342	1321196006	GUIDE	12
05-09-00343	1321296002	GUIDE	12
05-09-00344	61942106001	ROD CONNECTING	35
05-09-00345	60921600002	PUMP GEAR ASS.	12
05-09-00346	00936932320	BEARING TRANSFER ROLLERS	7
05-09-00347	61942011012	VALVES	7
05-09-00348	1220096004	CRANCK SHAFT ASS.	7

### APPENDIX 9 C - V

#### SHOVEL LOADER KAWASAKI MODEL 70 ENGINE ISUZU DA640

Code	Part No.	Description	Quantity
05-09-00349	YZ9122712040	CON. ROD BEARING	18
05-09-00350	YZ9122742040	CON. ROD BEARING	18
05-09-00351	YZ9115106890	BEARING KIT	3
05-09-00352	YZ9115406890	BEARING KIT	3
05-09-00353	YZ9131003460	OIL PUMP	6
05-09-00354	YZ98350066	FEED PUMP	10
05-09-00355	YZ1111100310	CYL. HEAD	3
05-09-00356	YY244214	PAD	24
05-09-00357	YZ9112670600	O RING	60
05-09-00358	YZ1125520630	VALVE	60
05-09-00359	YZ1878106160	LINER KIT	10
05-09-00360	YZ1144000470	TURBO CHARGER	5
05-09-00361	YZ1125520250	EXH. VALVE	60
05-09-00362	YZ1122751770	BEARING CON. ROD	12
05-09-00363	YZ1121810350	PISTON RING KIT	12
05-09-00364	YZ1878102872	GASKET KIT	10
05-09-00365	YZ1123100940	CRANK SHAFT	2
05-09-00366	YK1162060806	TURBIN PUMP	10
05-09-00367	YK1163061806	TURBIN PUMP	6
05-09-00368	YK1161060600	TURBIN PUMP	6
05-09-00369	YK1161071100	GEAR PUMP	10
05-09-00370	YZ9825119940	GEAR PUMP	10
05-09-00371	YT28PL240061	PISTON	2
05-09-00372	25D1230L000	HOSE	10
05-09-00373	19E3390W000	SEAL KIT	10
05-09-00374	JB6308NR	B.B	10
05-09-00375	JB6307NR	B.B	10
05-09-00376	70E0730L006	HOSE	10
05-09-00377	70E0740L006	HOSE	10
05-09-00378	25D1240L000	HOSE	10

05-09-00379	19E3380W000	SEAL KIT	20
05-09-00380	21C0290L000	1ST.P.ROPELLT S	4
05-09-00381	YJ93230303	SEAL KIT	36
05-09-00382	YR4674100000W	RAD. AYY	3

### APPENDIX 9 C - VI

#### SHOVEL LOADER CAT. PILLER MODEL 950

Code	Part No.	Description	Quantity
05-09-00383	7S9891	NOZZLE	12
05-09-00384	6N7527	PLUNGER ASSY	12
05-09-00385	9B1320	DEL. VALVE	12
05-09-00386	4N360	GLOW PLUG	12
05-09-00387	6V2209	GASKET	3
05-09-00388	2P1785	OIL PUMP	1
05-09-00389	7N5908	WATER PUMP	1
05-09-00390	586670	SEAL	36
05-09-00391	9L5854	SEAL	12
05-09-00392	7N165	OIL COOLER	1
05-09-00393	3S9730	BEARING	15
05-09-00394	4N7695	CRANK SHAFT	1
05-09-00395	4N6860	CARTRIDGE	3
05-09-00396	7M7821	BEARING	12
05-09-00397	5P9415	GASKET	3
05-09-00398	8N1188	CHAMBER ASSY	1
05-09-00399	8S3970	SEAL	12
05-09-00400	7S3206	GASKET	24
05-09-00401	9H4066	HEAD ASSY	12
05-09-00402	4N4029	LINER	18
05-09-00403	2P8889	RING GROUP	18
05-09-00404	7S9404	PIN	12
05-09-00405	5P9418	GASKET	4
05-09-00406	6V1550	GASKET	4
05-09-00407	6V2466	GASKET	4
05-09-00408	7N7386	GASKET	5
05-09-00409	4N7253	VALVE EXH.	24
05-09-00410	5S7232	VALVE INT.	12
05-09-00411	5S6452	GASKET	12

**APPENDIX 9 C - VII****SHOVEL LOADER KAWASAKI  
MODEL 70B ENGINE ISUZU 6BDIT**

<b>Code</b>	<b>Part No.</b>	<b>Description</b>	<b>Quantity</b>
05-09-00412	YZ1156009241	GAS PUMP	1
05-09-00413	YZ1191006060	AIR COMP.	1
05-09-00414	YZ1878102261	BUSH KIT	5
05-09-00415	YZ1878102673	WATER KIT	5
05-09-00416	YZ9122736080	BIGEN	12
05-09-00417	YZ912271680	BIGEN	12
05-09-00418	YZ9825139242	P. GLOW	30
05-09-00419	YZ9122746080	BIGEN	12
05-09-00420	YZ515340200	NOZZLE	18
05-09-00421	YZ5121210050	RINGS	18
05-09-00422	YZ5112610630	BUSH	18
05-09-00423	YZ5136106452	WATER PUMP	1
05-09-00424	YZ5131000913	OIL PUMP	2
05-09-00425	YZ1144000820	TURBO CHARGER	2
05-09-00426	YZ1115300400	BEARING	2
05-09-00427	YZ1123104070	CRANK SHAFT	1
05-09-00428	YZ1121112406	PISTON	18
05-09-00429	YZ1115500610	BEARING KIT	2
05-09-00430	YZ1115100400	BEARING	2
05-09-00431	YZ1111104506	COVER	1
05-09-00432	YZ1111410902	COVER GASKET	2
05-09-00433	YZ1115100310	BEARING KIT	2
05-09-00434	YZ111400400	BEARING	2

**APPENDIX 9 C - VIII****SHOVLOADER KAWASAKI  
MODEL 80 ENGINE ISUZU E120PK**

<b>Code</b>	<b>Part No.</b>	<b>Description</b>	<b>Quantity</b>
05-09-00435	YKPKM882712	REPAIR KIT	6
05-09-00436	YZ1111102561	CYL. HEAD	2
05-09-00437	YT13PL31313PL711	GEAR PUMP	2
05-09-00438	YK1172061000	TURBIN PUMP	10
05-09-00439	YK1171606006	TURBIN PUMP	10
05-09-00440	YT22PL220004	GEAR PUMP	2
05-09-00441	YK1173060800	TURBIN PUMP	10
05-09-00442	YK1208310200	CLUTCH PLATE	140
05-09-00443	YKPKC608511	SEAL KIT	6
05-09-00444	YK1178400300	GEAR	3
05-09-00445	YK1208300510	CLUTCH DISC	120
05-09-00446	YZ1125510540	AIR VALVE	120

05-09-00447	YZ1125510250	VALVE	120
05-09-00448	YZ1217000702	OIL COOLER	4
05-09-00449	YZ1136102210	WATER PUMP	2
05-09-00450	YZ1131006290	OIL PUMP	5
05-09-00451	YZ1123103920	CRANK SHAFT	2
05-09-00452	YS1121111910	PISTON	18
05-09-00453	YZ9112612900	LINER	18
05-09-00454	YZ1121210240	RING KIT	10
05-09-00455	YZ1878103103	GASKET KIT	10
05-09-00456	YZ1122710230	BEARING CON. ROD	12

### APPENDIX 9 C - IX

#### SPARE PARTS FOR HITACHI HYDRAULIC EXCAVATOR MODEL EX200

Code	Part No.	Description	Quantity
05-09-00457	9065880	HYDRAULIC PUMP	2
05-09-00458	8041180	CARTRIDGE	3
05-09-00459	2021642	ROTOR	3
05-09-00460	8036381	PISTON	10
05-09-00461	8035127	SHAFT	2
05-09-00462	4176958	OIL SEAL	5
05-09-00463	3037675	FORK	2
05-09-00464	9070528	CONTROL VALVE	2
05-09-00465	4181700	HYDROLIC PUMP	2
05-09-00466	4187037	GEAR PUMP	0
05-09-00467	0308606	MOTOR PLUNGER	10
05-09-00468	9065944	GEAR PUMP	2
05-09-00469	4176958	OIL SEAL	5
05-09-00470	8036381	PISTON	8
05-09-00471	2021642	ROTOR	2
05-09-00472	9065943	VALVE	2
05-09-00473	4206068	SEAL KIT	5
05-09-00474	0309002	PISTON HEAD	2
05-09-00475	0309006	BODY	2
05-09-00476	4191974	COUPLING	3
05-09-00477	4176480	SEAL KIT	4
05-09-00478	972658	CONE	20
05-09-00479	4206069	SEAL KIT	5
05-09-00480	4206020	SEAL KIT	5

## APPENDIX 9 C - X

FOR LIBGHERR EXCAVATOR  
MODEL RG22LC  
ENGINE MODEL FGL 913 DEUTZ

Code	Part No.	Description	Quantity
05-09-00481	5004117	PUMP	10
05-09-00482	5005308	PUMP	10
05-09-00483	5604686	PUMP	4
05-09-00484	5603718	COMPRESSOR	4
05-09-00484	5603718	COMPRESSOR	4
05-09-00485	5502469	FEUL PUMP	10
05-09-00486	2139405	CRANK SHAFT	5
05-09-00487	2919399	BUSH & PISTON	60
05-09-00488	5602335	VALVE	50
05-09-00489	2233036	COVER CYL.	20
05-09-00490	2232104	TURBO CHARGER	10
05-09-00491	2137300	VALVLE	60
05-09-00492	2137306	VALVE	60
05-09-00493	2233086	NOZZLE	100
05-09-00494	2103055	PLANGER	60
05-09-00495	2138223	DILEVERY VALVE	60

**APPENDIX 9 C - XI****FOR HITACHI HYDRAULIC  
MITSUBISHI DIESEL ENGINE MODEL 6BDIT  
EXCAVATOR MODEL UH83**

<b>Code</b>	<b>Part No.</b>	<b>Description</b>	<b>Quantity</b>
05-09-00496	9047917	HYDRALIC PUMP	5
05-09-00497	4035495	GEAR PUMP	2
05-09-00498	4161414	GEAR PUMP	1
05-09-00499	1006882	BODY	1
05-09-00500	4118705	COUPLING	4
05-09-00501	4128058	GEAR PUMP	1
05-09-00502	2066574	GEAR	1
05-09-00503	4126078	ELECTRIC WIRING BORD	5
05-09-00504	9048413	DOUPLE PUMP	2
05-09-00505	9048414	VALVE	2
05-09-00506	4115810	SPEARCAR	5
05-09-00507	4165697	SEAL	10
05-09-00508	4058971	O RING	10
05-09-00509	972658	JOINT	40
05-09-00510	4148836	OIL SEAL	5
05-09-00511	9038036	CONTROL PUMP	2
05-09-00512	9043056	VALVE	2
05-09-00513	4118498	OIL SEAL	10
05-09-00514	4171410	OIL SEAL	10
05-09-00515	1878104460	RING	6
05-09-00516	1878102300	GASKET KIT	5
05-09-00517	1111410902	GASKET	4
05-09-00518	5112610630	LINER	18
05-09-00519	1121112400	PISTON	18
05-09-00520	5196000650	VACUAM PUMP	5
05-09-00521	114000820	TURBO CHARGER	5
05-09-00522	1144530210	KIT TURBO	4
05-09-00523	5144000040	TURBO CHARGER	2
05-09-00524	1144110650	SHAFT AND WHEEL	4

## APPENDIX 9 C - XII

### DRILLING RIGS B0 / B1A WIRTH

Code	DESCRIPTION	PART NO.	QUANTITY
05-09-00525	VDP22####204	693694	5
05-09-00526	VDP/VDSP22	713789	15
05-09-00527	VDP/VDSP22	714244	5
05-09-00528	Sub. P. L. Pilot Operated Relief Model VDP & VDSP22	646675	5
05-09-00529	VDP 22	694513	10
05-09-00530	VDSP20###237	733554	5
05-09-00531	Sub. P. L. "D" Spool VDSP 20 With 3 Pos. Detent, Doppel Type C	823679	5
05-09-00532	Sub Parts List "D" Spool Spring Central VDSP 20	656534	5
05-09-00533	Sub P.L> "G" Spool Spring Central VDSP 20	683514	5
05-09-00534	Pilot Operated Relief For VDP11 & VDP12	592644	5
05-09-00535	VDSP20##211	713503	5
05-09-00536	VDP22##231	723609	5
05-09-00537	VDP11####211	733678	5
05-09-00538	VDR10 B206	703585	5
05-09-00539	VPR10 B1	592074	5
05-09-00540	Anticipatory - Control Appliance	06068 F1	8
05-09-00541	Axial Piston Regulating Pump	A10VS028 FHD/30R - PPA 12K06	10*
05-09-00542	Geared Double - Pump	1PF2G2-4X/061RR20MRK+ 1PF2G2-4X/008LN20MDL +	10*
05-09-00543	Hydraulic Motor	6M076	10
05-09-00544	Additional Gearing For Power Swivel (Complete Unit)	102181	3
05-09-00545	Gear Motor	GM - 5 -H11 - R23	3
05-09-00546	Power Swivel		3
05-09-00547	Variable Displacement Pump	A10VS028 FHD/30R-PPA12K06	12
05-09-00548	Hydraulic Motor	MAC06-900	10
05-09-00549	Hydraulic Motor	A2 FE 28	10
05-09-00550	Complete Gear Box		6
05-09-00551	Retaining Jaws dia (47 - 73 ) mm.		20
05-09-00552	Retaining Jaws dia ( 70 - 114.3) mm.		20

\* amended 28 january 2000

**APPENDIX 9 C - XIII****MIXING PLANT CIR7 & IM 20/3**

<b>Code</b>	<b>DESCRIPTION</b>	<b>PART NO.</b>	<b>QUANTITY</b>
05-09-00553	Regulator 24 VRL 24 VCA		25
05-09-00554	Tachmeter Digital IV024V		5
05-09-00555	Logging Device R12	3D1417SA2+CFFE 504 - 55	10
05-09-00556	Logging Device R12	R12 / 2 / 12 - 10 Fiber	10
05-09-00557	Stabilizer Voltage 220 V 100VA		5
05-09-00558	Solenoid 24 V 3TY	1223 - OB	15
05-09-00559	Digital Counter 220 V, 4W	PR1557106 PHILIPS	4
05-09-00560	Electronic Print for Weight Amplifier Philips	4069 - 100 - 03404	4
05-09-00561	Digital Set Point Philips	K 56021 / 02	4
05-09-00562	Electronic Balance Philips	PR6206/52W LN (500 Kg)	6
05-09-00563	Penumatic Valve 2"		25
05-09-00564	Penumatic Valve 4"		50
05-09-00565	Ball Valve 1"		200
05-09-00566	Ball Valve 2"		150

**APPENDIX 9 C - XIV****SPARE PARTS FOR NEMO PUMP TYPE (4NE 60 A)**

<b>CODE</b>	<b>DESCRIPTION</b>	<b>PART NO.</b>	<b>QUANTITY</b>
05-09-00567	Rotor	867340	10
05-09-00568	Stator	182435	20
05-09-00569	Drive Shaft	868712	5
05-09-00570	Coupling Rod	866140	5
05-09-00571	Bearing Pedestal	8719	5