

SECTOR: AGRICULTURE
Subsector: IRRIGATION
PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00001	Water Well Drilling Requirements See App. 8	As stated in App. 8	
05-09-00002	Spare Parts For Machinery And Equipments.See App. 9C I - VII and IX	As stated in App. 9C	
05-09-00003	Spare Parts For Drilling Rigs and Pumps. See App. 9C VIII and App.9A code 00086- 00098	As stated in App. 9A & 9C	
	APPENDIX 9 A . SPARE PARTS FOR PUMPING STATIONS		
05-09-00004	Phase Failer-Protection relay 380 V A.C.	200	
05-09-00005	Air Breaker Contactor 380V- 220 VA.C.	1,500	
05-09-00006	Manual change over switch different	200	
05-09-00007	Air Breaker Contactor K-ID 1 220 VA.C.	10	
05-09-00008	Air Breaker Contactor ESU 250 / 3 220 VA.C.	10	
05-09-00009	Current Transformer 6 S12	10	
05-09-00010	Current Transformer	100	
05-09-00011	Circuit Breaker different types	250	
05-09-00012	Control Transformer	100	
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	2	
05-09-00020	Non return valve	200	
05-09-00021	Steel pipe for pump different diameter with accessories	20,000	m
05-09-00022	Electrical cable different sizes	60,000	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 accessories and spare parts	10	
	Spare Parts for Pumping station		
05-09-00028	*Main power transformer different sizes	20	
05-09-00029	*High voltage switch gear oil break circuit breaker	10	
05-09-00030	*Low voltage moulded case circuit breaker different type	120	

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00031	*Low voltage air break contactor with coil 220 V, a .c	200	
05-09-00032	*bearing NU1036	5	
05-09-00033	*bearing NU238	5	
05-09-00034	*bearing NU29332	10	
05-09-00035	*bearing NU29348	3	
05-09-00036	*ball bearing NU309	5	
05-09-00037	*ball bearing 6309	3	
	Spare Parts for Pump type 720 - P - 1225(Q=6m3/s)		
05-09-00038	*Pump bowl with guide bearing parts	3	
05-09-00039	*Suction bell mouth	3	
05-09-00040	*Casing	4	
05-09-00041	*Impeller	2	
05-09-00042	*Insert ring	4	
05-09-00043	*Shaft	2	
05-09-00044	*Bearing bush	5	
05-09-00045	*Shaft protection sleeve	5	
	Spare Parts for 6 KV & 11KV Switch Gear from Techono Commerze		
05-09-00046	*circuit breaker SCI 1 - 10 / 630 /350	4	
05-09-00047	*current transformer GS 12 30 / 5 /5A	6	
05-09-00048	*voltage transformer GZ 12 11 / 0.1 KV	2	
05-09-00049	*overcurrent time lag relay	10	
05-09-00050	*neutral relay 2 RH 30 100 W A.C.	10	
05-09-00051	*neutral relay ZRH30 100 W A.C. with drop indicator	10	
05-09-00052	*neutral relay 2 RH 06 24 V D.C.	10	
05-09-00053	*coil of under voltage 100 V A.C. 06 - 34	40	
05-09-00054	*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		
05-09-00055	*main pump shaft with sleeves for pump KAEA 1000 / 10 / 4 - 29	1	
05-09-00056	*end bearing 712.97303.0 - 77st.	3	
05-09-00057	*axial bearing 29348TGL 2996	3	
05-09-00058	*shaft protection sleeve 711.13363.0 - 73	3	
05-09-00059	*shaft protection sleeve 711.13362.0 - 23	4	
05-09-00060	*shaft protection sleeve 711.13364.0 - 33	3	
05-09-00061	*wearing ring 711.26166.0 - 23	10	
05-09-00062	*seal ring MN 54.1A47 / 20	10	
05-09-00063	*rubber bellow form No. 5424	10	
	Spare Parts for Pump HAEC 1200 / 5 / 2 - 091		
05-09-00064	*impeller	1	
05-09-00065	*wearing ring	3	
05-09-00066	*end bearing	1	

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00067	*intermediate bearing	1	
05-09-00068	*shaft protection sleeve 0 - 83	1	
05-09-00069	*shaft protection sleeve 0 - 43	1	
05-09-00070	*shaft protection sleeve 0 - 73	1	
05-09-00071	*O-ring 230*5	6	
05-09-00072	*rubber for coupling 42	6	
05-09-00073	*drive shaft	1	
05-09-00074	*pump shaft	1	
05-09-00075	*Impeller for pump KDAEA 600 / 16 / 2 - 21	1	
05-09-00076	*Bearing 222 C	10	
05-09-00077	*Bearing 29324 D	10	
05-09-00078	*Bearing 6324	10	
05-09-00079	*Bearing 6312	5	
05-09-00080	*Bearing 6313	10	
05-09-00081	*Bearing HM 804848	5	
05-09-00082	*Bearing HM 807049	5	
05-09-00083	*Grease lubrication pump with motor complete	10	
05-09-00084	*Slip ring body for electric motor DSAKJ 5627-12	10	sets
05-09-00085	*Synchro gear reducer U.S. motor parallel shaft type GSMA Frame : 52 Ratio 3 : 1	10	
	Spare Parts for Drilling Rig type B1A		
05-09-00086	Oil cooler with drive compilation DR. NO.5001605	10	
05-09-00087	*Rotary group A1028 ETL NO. 958654	30	
05-09-00088	*Pilot valve H ETL NR. 914110	20	
05-09-00089	*Pilot valve DFR1-SR10 10ETL NR909066	20	
05-09-00090	*Direct-circulation swivel compilation DR. NO. 5000609	10	
05-09-00091	*Axial Cyl. roller bearing 81130	20	
05-09-00092	*Needle bearing 140/32 RSA3	20	
05-09-00093	*Hydraulic motor 6M076	10	
05-09-00094	*Power swivel B1A complete + 50% spare parts Dr. No. 5103123	10	
05-09-00095	*Retaining Jaws dia 47-73 mm 5200254	200	
05-09-00096	*Retaining Jaws dia 70-114.3 mm 5200255	100	
05-09-00097	*Gear accessory to DRWG Dr. No. 5400373	20	
05-09-00098	*Hub accessory to DRWG DR. No. 5400374	20	
	Spare Parts for Submersible Pumps type FLYGHT model CP 3300-180 HT		
05-09-00099	*Inner seal unit	10	sets
05-09-00100	*Outer seal unit	10	sets
05-09-00101	*O-ring	10	sets
	Spare Parts for Submersible Pumps type FLYGHT model 3201		
05-09-00102	*Upper seal unit	10	sets
05-09-00103	*Lower seal unit	10	sets
05-09-00104	*O-ring	10	sets

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00105	Spare Parts for Submersible Pumps type FLYGHT		
	*Terminal board assy	20	
	- Power cable entry assy	10	
	- Shaft rotor unit	8	
	- Impeller	15	
	- Wear ring rotating	10	
	- Locking assy	15	
	- Washer	15	
	-Screw	100	
	- Compression spring	100	
	- Stator 380 VA	10	
	- Seal sleeve (33-37)mm	25	
	- Seal sleeve (37-39)mm	25	
	- Outer casing	3	
	- Starter casing	3	
	-Plate	10	
	- Packing	20	
	- Starter housing	3	
	- Oil housing bottom	5	
	- Bearing holder	5	
	- Cable entry unit	10	
	spare part for Kirkuk Irrigation Project. 1./ MAIN PUMP		
05-09-00106	*Bearing different sizes with cover	1,100	
05-09-00107	*Bearing bush (int.m.b.)1040438	4	
05-09-00108	*Bearing sleeve (int.m.b) 1040439	8	
05-09-00109	*Impeller	12	
05-09-00110	*Coupling	24	
05-09-00111	*Sleeve 58424	15	
05-09-00112	*Bearing sleeve (int.m.b) 1040368	14	
05-09-00113	*Bearing bush (int.m.b) 1040367	7	
05-09-00114	*Pump element with piston 600-25046-2	40	
05-09-00115	*Coupling	200	
05-09-00116	* Mechanical seal	200	
05-09-00117	* Shaft	50	
	2./ OIL PRESSURERE DEVICE		
05-09-00118	*Control magnet valve s10 w 01	10	
05-09-00119	*Pressure switch Ts 60- do 10.0mpa	10	
05-09-00120	*Pressure gauge P (0-16 mpa)	10	
05-09-00121	*Non-Return valve RHD 12-S	10	
	3./ ELECTRIC PARTS		
05-09-00122	Three-pole H.V contactor for rated voltage 7.2Kv 50.4s for rated current 400 A for auxiliary voltage110 D.C type vc 3ad 400c . made by GEC. 452.58763 stranea RK 132946	10	
05-09-00123	H .V fuse type 36A 121 250A , 7.2 KV	100	

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00124	H.V HRC fuse cartridge for 10 kv .type unvc with striker . 452.58763 strana RK 132946	20	
05-09-00125	Auto - transformer for starting of H.V motor	120	
05-09-00126	Single - phase capacity of rated voltage 6.1k .v of rated capacity 150 KVAR for frequency 50 / c/s type M3p6 -150 M24 for indoor mounting .	10	
05-09-00127	Rotor for motors	20	
05-09-00128	Stator for motors	20	
05-09-00129	Compact HV vacuum contactor	25	
05-09-00130	Economy resistor for HV vacuum	150	
	4/AIR CONDITIONING PARTES		
05-09-00131	Circulation pump boiler type GHR-401 .N=100W	2	
05-09-00132	Control three way valve heating coil V5015 A - honey well- NO 25. CV=10 G=3.0 m3/n p =12.5	2	
05-09-00133	Diverting - three - valve fan coil v 5066 honey well - N 40 KV =25 G=11.4M/H AP=8KPA	4	
05-09-00134	Circulation pump fan coil GHR 651 N = 435W	4	
05-09-00135	Circulation pump-Chiller(T 501-4, G =8M3/h H=13 KPA)	2	
05-09-00136	Double shaft motor for fan coil unit with code	10	
05-09-00137	Circulation pump for fan coil unite GHN 402A-R/2 G=6KPA , N=0.42 KW	2	
05-09-00138	Circulation pump for boiler GHN 404 C-R/2 G=20	2	
05-09-00139	Circulation pump for Chiller type G 65/21 G = 50 m3/h H=60 kpa N = 0.8 kw	2	
05-09-00140	Circulation pump for cooling tower type G65/2	2	
	Spare parts for pump type KDEA 800/16 10-31		
05-09-00141	Protective shaft sleeve	3	
05-09-00142	Protective shaft sleeve	3	
05-09-00143	Protective shaft sleeve	3	
05-09-00144	Impeller	1	
05-09-00145	Impeller cap.	1	
05-09-00146	Coupling shell , divided .	2	
05-09-00147	Coupling ring , divided .	2	
05-09-00148	End bearing	3	
05-09-00149	Intermediate bearing	3	
05-09-00150	Mechanical seal	3	
05-09-00151	Coupling universal joint	2	
05-09-00152	Shaft	2	
05-09-00153	Crease lubrication pump	2	
	Spare parts for BADRA- JASSAN project		
05-09-00154	Impeller . 310-12	4	
05-09-00155	Protective ring . 310-12	8	
05-09-00156	Protective bushing of shaft. 29648	24	

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00157	Bushing . 29649	24	
05-09-00158	Rotor. 2 -2915 C	4	
05-09-00159	Pump shaft . 2 -29162	4	
05-09-00160	Guard ring . 310-21	8	
05-09-00161	Bushing . 29649	16	
05-09-00162	Shaft . 28663	13	
05-09-00163	Impeller . 28810	13	
05-09-00164	Upper bearing . 28635	24	
05-09-00165	Electric drive . 15 -38072	4	
05-09-00166	Ball bearing 28492 C .	6	
05-09-00167	Guid apparatus . 2841C	4	
05-09-00168	Bearing . B- 28639	24	
05-09-00169	Bush of chalves rubber lined . 34337	40	
05-09-00170	Centrifugal horizontal singale - stage double entry pump impeller - 590 bmm 0.4m3/sec	4	
05-09-00171	Thrust bearing 29440 B.	10	
	Spare Parts for type KAEA 800/10/ 6-21		
05-09-00172	Main pump shaft with sleeves 712-973-00-0-17 st.	1	set
05-09-00173	End bearing 712-973-00-0-17 st.	2	
05-09-00174	Intermidiate bearing 712-97523- 0-47 st .	2	
05-09-00175	Seal ring m s4.1a.47120	2	
05-09-00176	Pretection tube .	2	
05-09-00177	intermidiate shaft .	2	
05-09-00178	Cricuit beaker el- 630/220 a .c.motor drive bisi - sp-a 200-400	1	
05-09-00179	Cricuit beaker el- 400/220 ov a.c hand drive bisi - sp-a 100-2001800-1600	2	
	Spare parts for Genarator sets type(NPG-...)		
05-09-00180	AVR p46x206020	10	
05-09-00181	Relay stop 64918 - 62800	10	
05-09-00182	Relay synchro device p 38x206020	10	
05-09-00183	Relay set bath barage p 22x206020	10	
05-09-00184	Relay set p 48x206020	10	
05-09-00185	Change over switch p 66x206020	5	
05-09-00186	Magnatic condition p 67x206020	10	
05-09-00187	Turbocharge 49167-00101	10	
05-09-00188	Diod rotor sets P 44x206020	100	
05-09-00189	Solonoid valve 04400x02010	50	
05-09-00190	Contactors EG 315 - 1 418018-N(coil 220v)	120	
05-09-00191	Contactors EG 160 - 1sk 418015-N(coil 220v)	70	
	APPENDIX 9 B - 1 SPARE PARTS FOR AL-JAZIRAH MAIN PUMP STATION		
05-09-00192	PB 400 Input Card ref V08D ref 61136	5	
05-09-00193	PB 400 Output Card 24 / 48 V D.C., 0.5 A ref 61130	5	
05-09-00194	PB 400 Output Card 3A, 250V AC, ref 61100	2	
05-09-00195	PB 400 Power Supply CPLEX ref 61032	2	
05-09-00196	PB 400 Power Supply ALIM ref 61061	2	
05-09-00197	PB 80 Input Card 24V D.C., ref 60730	2	
05-09-00198	PB 80 Output Card 3A, 250V, A.C. ref 60740	5	
05-09-00199	D.C. Power Supply F 24V, 3A / 1A, ref	1	
05-09-00200	D.C. Power supply F 12V, 0.6 A, ref 71031	1	

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00201	Instantaneous or definite time over current relay(I.T.G. 7153)	1	
05-09-00202	Motor protective relays medium voltage (I.T.M. 7860)	1	
05-09-00203	Voltage current convertor module HDOX0 (FT 42295 / C)	1	
05-09-00204	High level input differential alarm modul (FT 42 - 166 / D)	1	
05-09-00205	Alarm high level input module (FT42 - 160/C) P.S.	1	
05-09-00206	Voltage frequency (FT 42 - 164 / D) multiplierand divider module (FT 42 - 163 / D)	2	
05-09-00207	*Machine differential protection relay (D.T.M.7031)	1	
05-09-00208	*Instantaneous or definite timeVoltage relay (T.T.G.7013)	1	
05-09-00209	*Frequency relay (H.T.G.7012)	1	
05-09-00210	*Zero sequence over voltage	1	
05-09-00211	* Sensitive relay(R.N.V.H.3110)	1	
05-09-00212	*Directional over current relay	1	
05-09-00213	*Electronic gauge pressure transmitter(Type F60 EP 3100) Ref . S P6 -1-12	1	
05-09-00214	* Invertor . of. maxipac (SXM.5000)UPS	1	
05-09-00215	*Temperature controller (Pyromat plus 300) FT42-405/C	1	
05-09-00216	- Galvanic isolation module (FT 42-165/B)	1	
05-09-00217	-Summation module (FT 42-167/E)	1	
05-09-00218	-PB 80 C.P.U. ref 60720	1	
05-09-00219	-PB 80 power supply ref 60701	1	
05-09-00220	- PB 80 emulator ref 60757	1	
05-09-00221	-PB 400 input card ref 61080	1	
05-09-00222	-PB 400 input card ref 61120	1	
05-09-00223	-PB 400 input card ref 61132	1	
05-09-00224	-PB 400 output card ref 61101	1	
05-09-00225	-PB 400 monitoring ref 61057	1	
05-09-00226	-PB 400 mem ref 61041	1	
05-09-00227	-PB 400 JBUS - CPL ref 61183	1	
05-09-00228	-PB 400 alim(220V) ref 61081	1	
05-09-00229	-PB 400 pu	1	
	APPENDIX 9 B - 2 SPARE PART FOR SPRINKLER IRRIGATION SYSTEM		
	SPARE PART FOR LINEAR MOVE SYSTEM		
05-09-00230	Galvanized pipes (different lengths)	400	pcs
05-09-00231	Fitting	600	pcs
05-09-00232	Electrical parts	1,200	pcs

PROJECT or
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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00233	Bronze Impller for pump	20	pcs
05-09-00234	Bronze shaft sleeve	20	pcs
05-09-00235	*Sleeve adapter	20	pcs
	SPARE PARTS FOR SOLID AND RAIN STAR SYSTEM		
05-09-00236	Rubber hose	170	pcs
05-09-00237	Fitting	180,000	pcs
05-09-00238	Galvanized pipes quick coupling(diffrent lengths)	80,000	pcs
05-09-00239	Sprinkler nozzel (5.5 / 3.1)mm complete	33,000	pcs
	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		
05-09-00240	(BRAKE)(CHAMBER) ASSY	150	
05-09-00241	DLAPHRAGM	200	
05-09-00242	COVER ASSY	15	
05-09-00243	DLAPHRAM	100	
05-09-00244	VALVE ASSY	20	
05-09-00245	CHAVPEL ASSY	100	
05-09-00246	CHOWPER ASSY	100	
05-09-00247	OIL SEAL	100	
05-09-00248	GASKETICYL HD(FIKERIN6)	60	
05-09-00249	GASTKET CYL HD	40	
05-09-00250	GUID , INL ANDEXHVLY	80	
05-09-00251	VALVE , EXH.	98	
05-09-00252	VALVE - INL.	98	
05-09-00253	GASKET SET . ENG	20	
05-09-00254	GASKET SET , VLVGRINDNG	20	
05-09-00255	CRANK SHALT AND BEARING KIT	4	
05-09-00256	MAIN BARING KIT STD.	4	
05-09-00257	MAIN BEARING KIT(0.010)U/S	15	
05-09-00258	MAIN BEARING KIT(0.020)U/S	15	
05-09-00259	OIL SEAL , C/S RR	40	
05-09-00260	FUEL FILTER , SEC	400	
05-09-00261	SLEEVE , CYL.	80	
05-09-00262	SEAL NTPUMP	40	
05-09-00263	G 4EKEE , LOW C/C	2	
05-09-00264	OIL COOLER ASSY	4	
05-09-00265	CORE OIL COOLFR	4	
05-09-00266	GASKIT	20	
05-09-00267	SEAL	20	
05-09-00268	OIL FILTER	400	
05-09-00269	BEURING , CON , ROD (STD)	12	
05-09-00270	BEARING , CON, ROD (010)	60	
05-09-00271	BEARING , CON, ROD (020)	60	
05-09-00272	WASHER , C.S.THRUST	20	
05-09-00273	CON , ROD	12	
05-09-00274	PIN, PISTON (STD)	12	
05-09-00275	RWG , RETG	48	
05-09-00276	PISTON RIWGSET	80	
05-09-00277	PISTON KTT	80	

PROJECT or
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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00278	TUR OOCARGER	20	
05-09-00279	W.PUMP REPAIRKIT	20	
05-09-00280	W.PUMP ASSY	6	
05-09-00281	GASKET SETENG	20	
05-09-00282	AIR COMP. ASSY	6	
05-09-00283	CON.ROD	8	
05-09-00284	CON. ROD INSERT KIT	20	
05-09-00285	CY L. HEAD ASSY	8	
05-09-00286	OIL SEAL, C/C	15	
05-09-00287	PISTON STD	20	
05-09-00288	PISTON RING SET KIT	20	
05-09-00289	REPAIR KIT	20	
05-09-00290	UNL DER KIK	20	
05-09-00291	NOZZLF HOLDER ASSY	80	
05-09-00292	NOZZLE	80	
05-09-00293	WT . PUMP	8	
05-09-00294	PLUNGR RARREL ASSY	60	
05-09-00295	GOVER NOR ASSY	8	
05-09-00296	OIL PUMP , ASSY	15	
05-09-00297	PLUNGER , OIL PRSSURE	15	
05-09-00298	BEARING , BALL	20	
05-09-00299	BEARING , BALL	20	
05-09-00300	COVER , WAT .PUMP	8	
05-09-00301	ROTOR , WAT .PUMP	8	
05-09-00302	SEAL	20	
05-09-00303	SEAL	40	
05-09-00304	SHATT , WAT PUMP	15	
05-09-00305	CIVTCH ASSY	50	
05-09-00306	DIS FRT	80	
05-09-00307	DIS RIR	80	
05-09-00308	PIATE , INTM	80	
05-09-00309	LEVER	24	
05-09-00310	PIVOT , PRESS SPRNG	80	
05-09-00311	RETAINER	50	
05-09-00312	RING	15	
05-09-00313	PIATE	40	
05-09-00314	BEARING	40	
05-09-00315	FORK	50	
05-09-00316	OIL SEAL	15	
05-09-00317	OIL SEAL	15	
05-09-00318	FORK	8	
05-09-00319	FORK	8	
05-09-00320	SEAL	15	
05-09-00321	SEAL	15	
05-09-00322	YNIVERSAL JOINT	20	
05-09-00323	BEARING	18	
05-09-00324	CUSHION IRBG	18	
05-09-00325	SLINGER FOLL	18	
05-09-00326	UNIVERSAL JOINT	20	
05-09-00327	VALVE	20	
05-09-00328	VALVE SELEC	20	
05-09-00329	VALVE	15	
05-09-00330	STEERINGGEAR	8	
05-09-00331	MATED SERVKE KIT	8	
05-09-00332	UNIRERSAL JOINT	8	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00333	PUMP ASSY	15	
05-09-00334	CARTRIDGC SERVICE KIT	15	
05-09-00335	SEAL SERVICE KIT	15	
05-09-00336	ELEMENT ASS	100	
05-09-00337	ENGINE ASSY	5	
05-09-00338	HYDRULIC MOTOR 210.16.21.73 A2F 28 W3 Z1	8	
05-09-00339	SPRING PRESSURE PLATE BRAKE 790 -10-021	8	
05-09-00340	SCRAPER 65X75X7	20	
05-09-00341	GROOVED RING SEALING SET 90/70 X12,5 G18 -90	20	
05-09-00342	SCRAPER 40X50X7	40	
05-09-00343	GROOVED RING SEALING SET 40/50/10	40	
05-09-00344	CONTROL BLOCK WITH PRESSURE LIMIT VALVE	8	
05-09-00345	PISTON RING SG 110X 100,8X3	15	
05-09-00346	SEALING GLAND SET 63X83X37	15	
05-09-00347	GATE VALVE KIT 180/55/25	15	
05-09-00348	GUID SLEEVE	50	
05-09-00349	PLSTON BUSHING	15	
05-09-00350	SEALING RING	15	
05-09-00351	GROOVED RING SEALING SET 45/65X12.5	15	
05-09-00352	SEALING GLAND SET 45/65X27.5	15	
05-09-00353	HYDRULIC MOTOR AMS 25- M10	14	
05-09-00354	WATER PUMP (HYDR)7560-N-KMT2	8	
05-09-00355	SEALING SET FOR HYDRULIC MOTOR AMS 25 M-10	15	
05-09-00356	SEALING SET FOR WATER PUMP HYPRO- ROLLE	15	
05-09-00357	SEALING SET FOR WATER PUMP HYPRO- ROLLE	15	
05-09-00358	SEALING SET CPL.	15	
05-09-00359	HAND VALVE HVM-ROL 10632L EV 413.000	8	
05-09-00360	HAND VALVE HSRL10632L EV 357.000	8	
05-09-00361	SOLENDID VALVE MSE 06432/12V	8	
05-09-00362	VALVE CARTRIDGE A2A 125 200 BAR	8	
05-09-00363	VALVE CARTRIDGE A2A 125 70 BAR	8	
05-09-00364	VENTILATION ONIT 12V FOR OIL COOLER	15	
05-09-00365	HYDRULIC PUMP 226.22.04.18 A7VO 80 LRH/ 60RPZBI	20	
05-09-00366	HYDRULIC PUMP 210.16.28.66 A2F 23 L3 Z4	20	
05-09-00367	HYDRULIC PUMP 210.12.28.50 A2F 23 L3 Z4	15	
05-09-00368	HAND VALVE HVM 10632 WITH PISTON EV 355.127A	16	
05-09-00369	HAND VALVE HVM 10632F WITH PISTON EV 355.	20	
05-09-00370	HAND VALVE HSR 10631	16	
05-09-00371	HAND VALVE HVM 106311 WITH PISTON EV 355.	8	
05-09-00372	SOLENDID VALVE MSE D 06432/12V.	16	
05-09-00373	PRE-LOAD VALVE VV - 2 R 3/4	8	
05-09-00374	THROTTLE CHCK VALVE SRD-A- 10 .S	8	
05-09-00375	PRESSURE LIMIT VALVE DVP-P-10S (EV	8	
05-09-00376	VALVE CARTRIDGE SVP - 10S 80 BAR	16	
05-09-00377	THROTTLE CHCK VALVE 1/2" DRVL - R1/2 1.8 L	8	
05-09-00378	THROTTLE CHCK VALVE 1/2 DRVL - R1/2" 1.3C"	8	
05-09-00379	THROTTLE CHCK VALVE 1/2" DRVL - R1/2 0.9"	8	
05-09-00380	VALVE CARTRIDGE DRP 10S	12	
05-09-00381	VALVE CARTRIDGE SVP- 10S 280 BAR	12	
05-09-00382	HYDRULIC CYLINDES 180/110X1.050	8	
05-09-00383	HYDRULIC CYLINDES 200/140X1400	8	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00384	HYDRULIC CYLINDES 160X100 X 1000	8	
05-09-00385	HYDRULIC CYLINDES 110X70X670	8	
05-09-00386	SEALING GLAND SET 110X130X40 E2 -110/SM5-	30	
05-09-00387	SCRAPER 110X122X12	30	
05-09-00388	GROOVEDRING SEALING SET 180/150X18.8,G18-	30	
05-09-00389	SEALING GLAND SET 140/165X46 E2 -140/SM5-	20	
05-09-00390	CRAPER 140X155X16	20	
05-09-00391	SCRAPER 70X80X7	20	
05-09-00392	GROOVED RING SEALING SET 200/170X18,8G 18-200	30	
05-09-00393	SEALING GLAND SET 70190140 E 2-70 SM5 -70	20	
05-09-00394	GROOVED RING SEALING SET 110/90X12,5G 18-	30	
05-09-00395	CLEANING BALL FOR DN 125 HARD	100	
05-09-00396	FILTER ELEMENT	100	
05-09-00397	HYDRULIC MOTOR OMR 2001 SN21/RS 200	15	
	APPENDIX 9 C - II SHOVEL LOADER KAWASAKI MODEL 70 ENGINE ISUZU DA640		
05-09-00398	CON. ROD BEARING	18	
05-09-00399	CON. ROD BEARING	18	
05-09-00400	BEARING KIT	3	
05-09-00401	BEARING KIT	3	
05-09-00402	OIL PUMP	6	
05-09-00403	FEED PUMP	10	
05-09-00404	CYL. HEAD	3	
05-09-00405	PAD	24	
05-09-00406	O RING	60	
05-09-00407	VALVE	60	
05-09-00408	LINER KIT	10	
05-09-00409	TURBO CHARGER	5	
05-09-00410	EXH. VALVE	60	
05-09-00411	BEARING CON. ROD	12	
05-09-00412	PISTON RING KIT	12	
05-09-00413	GASKET KIT	10	
05-09-00414	CRANK SHAFT	2	
05-09-00415	TURBIN PUMP	10	
05-09-00416	TURBIN PUMP	6	
05-09-00417	TURBIN PUMP	6	
05-09-00418	GEAR PUMP	10	
05-09-00419	GEAR PUMP	10	
05-09-00420	PISTON	2	
05-09-00421	HOSE	10	
05-09-00422	SEAL KIT	10	
05-09-00423	B.B	10	
05-09-00424	B.B	10	
05-09-00425	HOSE	10	
05-09-00426	HOSE	10	
05-09-00427	HOSE	10	
05-09-00428	SEAL KIT	20	
05-09-00429	1ST.P.ROPELLT S	4	
05-09-00430	SEAL KIT	36	
05-09-00431	RAD. AYY	3	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
	APPENDIX 9 C - III SHOVEL LOADER KAWASAKI MODEL 70B ENGINE ISUZU 6BDIT		
05-09-00432	GAS PUMP	1	
05-09-00433	AIR COMP.	1	
05-09-00434	BUSH KIT	5	
05-09-00435	WATER KIT	5	
05-09-00436	BIGEN	12	
05-09-00437	BIGEN	12	
05-09-00438	P. GLOW	30	
05-09-00439	BIGEN	12	
05-09-00440	NOZZLE	18	
05-09-00441	RINGS	18	
05-09-00442	BUSH	18	
05-09-00443	WATER PUMP	1	
05-09-00444	OIL PUMP	2	
05-09-00445	TURBO CHARGER	2	
05-09-00446	BEARING	2	
05-09-00447	CRANK SHAFT	1	
05-09-00448	PISTON	18	
05-09-00449	BEARING KIT	2	
05-09-00450	BEARING	2	
05-09-00451	COVER	1	
05-09-00452	COVER GASKET	2	
05-09-00453	BEARING KIT	2	
05-09-00454	BEARING	2	
	APPENDIX 9 C - IV SHOVLOADER KAWASAKI MODEL 80 ENGINE ISUZU E120PK		
05-09-00455	REPAIR KIT	6	
05-09-00456	CYL. HEAD	2	
05-09-00457	GEAR PUMP	2	
05-09-00458	TURBIN PUMP	10	
05-09-00459	TURBIN PUMP	10	
05-09-00460	GEAR PUMP	2	
05-09-00461	TURBIN PUMP	10	
05-09-00462	CLUTCH PLATE	140	
05-09-00463	SEAL KIT	6	
05-09-00464	GEAR	3	
05-09-00465	CLUTCH DISC	120	
05-09-00466	AIR VALVE	120	
05-09-00467	VALVE	120	
05-09-00468	OIL COOLER	4	
05-09-00469	WATER PUMP	2	
05-09-00470	OIL PUMP	5	
05-09-00471	CRANK SHAFT	2	
05-09-00472	PISTON	18	
05-09-00473	LINER	18	
05-09-00474	RING KIT	10	
05-09-00475	GASKET KIT	10	
05-09-00476	BEARING CON. ROD	12	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
	APPENDIX 9 C - V SPARE PARTS FOR HITACHI HYDRAULIC EXCAVATOR MODEL EX200		
05-09-00477	HYDRAULIC PUMP	2	
05-09-00478	CARTRIDGE	3	
05-09-00479	ROTOR	3	
05-09-00480	PISTON	10	
05-09-00481	SHAFT	2	
05-09-00482	OIL SEAL	5	
05-09-00483	FORK	2	
05-09-00484	CONTROL VALVE	2	
05-09-00485	HYDROLIC PUMP	2	
05-09-00486	GEAR PUMP	10	
05-09-00487	MOTOR PLUNGER	10	
05-09-00488	GEAR PUMP	2	
05-09-00489	OIL SEAL	5	
05-09-00490	PISTON	8	
05-09-00491	ROTOR	2	
05-09-00492	VALVE	2	
05-09-00493	SEAL KIT	5	
05-09-00494	PISTON HEAD	2	
05-09-00495	OIL FILTER	500	
05-09-00496	HYDRAULIC FILTER	300	
05-09-00497	SEAL KIT	4	
05-09-00498	FUEL FILTER	300	
05-09-00499	SEAL KIT	5	
05-09-00500	SEAL KIT	5	
	APPENDIX 9 C - VI FOR LIBGHERR EXCAVATOR		
05-09-00501	PUMP	10	
05-09-00502	PUMP	10	
05-09-00503	PUMP	4	
05-09-00504	COMPRESSOR	4	
05-09-00505	FEUL PUMP	10	
05-09-00506	CRANK SHAFT	5	
05-09-00507	BUSH & PISTON	60	
05-09-00508	VALVE	50	
05-09-00509	OIL FILTER	500	
05-09-00510	TURBO CHARGER	10	
05-09-00511	FUEL FILTER	300	
05-09-00512	HYDRAULIC FILTER	300	
05-09-00513	NOZZLE	100	
05-09-00514	PLANGER	60	
05-09-00515	DILEVERY VALVE	60	
	APPENDIX 9 C - VII FOR HITACHI HYDRAULIC MITSUBISHI DIESEL ENGINE MODEL 6BDIT EXCAVATOR MODEL UH83		
05-09-00516	HYDRALIC PUMP	5	
05-09-00517	GEAR PUMP	2	
05-09-00518	GEAR PUMP	1	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00519	BODY	1	
05-09-00520	COUPLING	4	
05-09-00521	GEAR PUMP	1	
05-09-00522	GEAR	1	
05-09-00523	ELECTRIC WIRING BORD	5	
05-09-00524	DOUPLE PUMP	2	
05-09-00525	VALVE	2	
05-09-00526	SPEARCAR	5	
05-09-00527	SEAL	10	
05-09-00528	O RING	10	
05-09-00529	JOINT	40	
05-09-00530	OIL SEAL	5	
05-09-00531	CONTROL PUMP	2	
05-09-00532	VALVE	2	
05-09-00533	OIL SEAL	10	
05-09-00534	OIL SEAL	10	
05-09-00535	RING	6	
05-09-00536	GASKET KIT	5	
05-09-00537	GASKET	4	
05-09-00538	LINER	18	
05-09-00539	PISTON	18	
05-09-00540	VACUAM PUMP	5	
05-09-00541	TURBO CHARGER	5	
05-09-00542	KIT TURBO	4	
05-09-00543	TURBO CHARGER	2	
05-09-00544	SHAFT AND WHEEL	4	
	APPENDIX 9 C - VIII DRILLING RIGS B0 / B1A WIRTH		
05-09-00545	VDP22####204	5	
05-09-00546	VDP/VDSP22	15	
05-09-00547	VDP/VDSP22	5	
05-09-00548	Sub. P. L. Pilot Operated Relief Model VDP & VDSP22	5	
05-09-00549	VDP 22	10	
05-09-00550	VDSP20###237	5	
05-09-00551	Sub. P. L. "D" Spool VDSP 20 With 3 Pos. Detent, Doppel Type C	5	
05-09-00552	Sub Parts List "D" Spool Spring Central VDSP 20	5	
05-09-00553	Sub P.L> "G" Spool Spring Central VDSP 20	5	
05-09-00554	Pilot Operated Relief For VDP11 & VDP12	5	
05-09-00555	VDSP20##211	5	
05-09-00556	VDP22##231	5	
05-09-00557	VDP11####211	5	
05-09-00558	VDR10 B206	5	
05-09-00559	VPR10 B1	5	
05-09-00560	Anticipatory - Control Appliance	8	
05-09-00561	Axial Piston Regulating Pump	7	
05-09-00562	Geared Double - Pump	5	
05-09-00563	Hydraulic Motor	10	
05-09-00564	Additional Gearing For Power Swivel (Complete Unit)	3	
05-09-00565	Gear Motor	3	
05-09-00566	Power Swivel	3	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00567	Variable Displacement Pump	12	
05-09-00568	Hydraulic Motor	10	
05-09-00569	Hydraulic Motor	10	
05-09-00570	Complete Gear Box	6	
05-09-00571	Retaining Jaws dia (47 - 73) mm.	20	
05-09-00572	Retaining Jaws dia (70 - 114.3) mm.	20	
	APPENDIX 9 C - IX		
	SPARE PARTS FOR DREDGER		
	for Diesel engin type D 399		
05-09-00573	Cli-head gasket kit	64	
05-09-00574	Frrule	168	
05-09-00575	Frrule	192	
05-09-00576	Gasket k	128	
05-09-00577	Champer ass	16	
05-09-00578	Valve (exh)	64	
05-09-00579	Valve (int)	64	
05-09-00580	Guide (int)	32	
05-09-00581	Guide (exh)	32	
05-09-00582	Liner	64	
05-09-00583	Piston Group with ring	64	
05-09-00584	fuel no 33 lep	128	
05-09-00585	Pump	128	
05-09-00586	Fuel transfer Pump	8	
05-09-00587	Water Pump repaer kit	8	
05-09-00588	Turbo charger assem	4	
05-09-00589	Gear drive	6	
05-09-00590	Bearing (big end)std	6	
05-09-00591	Bearing (main.end) std	64	
05-09-00592	Crank shaft	2	
05-09-00593	Valve	2	
05-09-00594	Valve	2	
05-09-00595	Matles . Ass	2	
05-09-00596	Fule filter	120	
05-09-00597	Oil filter	120	
05-09-00598	Air starter	12	
05-09-00599	Cavernor	2	
05-09-00600	Bearing (0.5" under size)	50	
05-09-00601	Bearing (0.5" under size)	50	
	IHC BEREAR 4000 for deage pump type 162 -		
05-09-00602	Pump casing cs-30mn5	3	
05-09-00603	Impeller with no3-bladed gs . 30m5	3	
05-09-00604	Suetion cover with water flwing	3	
05-09-00605	Shaft cover	3	
05-09-00606	Water champen shaft side	3	
05-09-00607	Suetion mouth wearing ring . maxidur	3	
05-09-00608	Wearing plate suetion side with water	6	
05-09-00609	Wearing plate shaft side	6	
05-09-00610	Sesparation plate 57005-091	9	
05-09-00611	Bush 57022-014	9	
05-09-00612	Wearing ring 57022-104	9	
05-09-00613	Manchet suction side 57022-134	9	
05-09-00614	Bearing block complete	1	
05-09-00615	Simmer ring 300x335x18	5	
05-09-00616	Wearing bush 57005-051	5	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00617	For greasing apparatus type R-fs 24	24	
05-09-00618	Cartridge kit A38 for vickesPump	24	
05-09-00619	Cartridge kit A17 for vickesPump	6	
05-09-00620	Seal kit38 for vickes Pump	24	
	for staffa hydn . Motore m(b200 s red divil)		
05-09-00621	Complete Motor	10	
05-09-00622	Service kit	40	
05-09-00623	Stork Pump kge 16-6	12	
05-09-00624	Air compressor tk-170 Complete	6	
05-09-00625	Valve set (6A,6B,8B,8B)	24	
05-09-00626	Connecting rod 18-41	6	
05-09-00627	Piston 18-3	6	
05-09-00628	Piston ring 18- 9	6	
05-09-00629	Piston ring 18-10	6	
05-09-00630	Piston ring 18- 11	6	
05-09-00631	Bearing 10-31	6	
05-09-00632	Pressure switch 6-460	3	
	For fresh water hydrophone		
05-09-00633	Stonk Pump sp 154	3	
05-09-00634	Pressure switch 28-1607-1	3	
	For gland type nic -50230		
05-09-00635	Impeller (bron 3 e)88/10/2	4	
05-09-00636	Shaft with key and nut	4	
05-09-00637	Shaft bush	6	
05-09-00638	Set wearing ring	6	
05-09-00639	Set bearings	6	
	For main switch board		
05-09-00640	Switch 4-pol -63A-172N0140	30	
05-09-00641	Key switch 03-191	3	
05-09-00642	Regulating Trans formator 220 V1A	3	
05-09-00643	Relay 24 v dc (m4-variatic) dg 24 vdc	100	
05-09-00644	Relay foot v23	25	
05-09-00645	Alarm annun ciator 5points 24v.dc2702	6	
	for Diesel - Marine Engine cater piller 3412		
05-09-00646	Cyl-head gasket kit	8	
05-09-00647	Cyl-head gasket kit	8	
05-09-00648	Ferrule	48	
05-09-00649	Valve(exh)	24	
05-09-00650	Valve(int)	24	
05-09-00651	Liner	12	
05-09-00652	Piston group with rings	12	
05-09-00653	Fule nozzel	24	
05-09-00654	Fule transfer Pump	2	
05-09-00655	Water Pump repair kit	2	
05-09-00656	Bearing (big end)std	12	
05-09-00657	Bearing (main .std)	7	
05-09-00658	Crank shaft	1	
05-09-00659	Oil filter	20	
05-09-00660	Injection fule Pump	1	
05-09-00661	Bearing 0.05 under size	12	
05-09-00662	Air cleaner	2	
05-09-00663	Plat thrust	4	
05-09-00664	Guide (exh)	24	

PROJECT or
TITLE:

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
05-09-00665	Guide (int)	24	
05-09-00666	Zeal	1	
05-09-00667	Turbo charger	1	
05-09-00668	Ring asse	24	
05-09-00669	Rod assy	12	
05-09-00670	For vicker Pump gertridge	30	
05-09-00671	For vicker Pump gertridge A	80	
05-09-00672	Roll bearing	30	
05-09-00673	Ball bearing	20	
	for 301 CSD C 0 & K and 351 CSD C 0 & K		
05-09-00674	Coupling combination(fludex 590)	4	
05-09-00675	Siro -Pump , complete	6	
05-09-00676	Expansion joints with mounting parts	6	
05-09-00677	Pump casing 300/940	6	
05-09-00678	Pump impeller complete	6	
05-09-00679	Pump impeller complete for (CSD 301 C)	4	
05-09-00680	Wear ring 220/240	12	
05-09-00681	Lip-type seal, shaft side 155/229	50	
05-09-00682	Lip-type sealing ring 155/229	50	
05-09-00683	Casing wear ring 300/350	8	
05-09-00684	Sph-roll bearing 232 20C3	48	
05-09-00685	Sph-roll bearing 230 24C	24	
05-09-00686	Sph-roll bearing 222 26	24	
05-09-00687	Sph-roll bearing 222 16C3	24	
05-09-00688	Axial sph. Roller B.293 24 B	24	
05-09-00689	Oil engine with coupling half	6	
05-09-00690	Oil engine coupling half for (CSD 301 D)	4	
05-09-00691	Gear for cutter head	4	
05-09-00692	Gear for cutter head (CSD 301)	2	
05-09-00693	Control - valve NG30	4	
05-09-00694	Turbocharger for engine MTU	10	
05-09-00695	Gear box complete with fludex 590	4	
	for Diesel Engin D 398		
05-09-00696	Valve asse	100	
05-09-00697	Piston ring group	50	
05-09-00698	Piston assy	40	
05-09-00699	Liner	40	
05-09-00700	Motor asse	4	
	for Diesel Engin D 343 62B 11032 AND 62 B 12803		
05-09-00701	Nozzil assy	30	
05-09-00702	Piston assy	18	
05-09-00703	Bearing	24	