

QTY.	DESCRIPTION	CODE
	<p>Fiber optical communication system for railway line network of 1750km , 15 main station ,82 way station .</p> <p>The offer shall include the following items:</p> <p>One. 12 fiber cable , SDH system .</p> <p>Two. Dispatcher calling system for station operators.</p> <p>Three. Station to station direct call “ Leased line “ .</p> <p>Four. Interfaces for PABXS in main stations.</p> <p>Five. Access of 16 extension (expandable) at each station .</p> <p>Six. Power supply and Batteries for 8 hr. Operation.</p> <p>Seven. Spare parts for 3 years.</p> <p>Eight. All installation material.</p> <p>Nine. Tool and test instrument required for system installation and maintenance (15 set) .</p> <p>Ten. Equipments and test benches for Repair Center and Training Center.</p> <p>Eleven. 10 workshop vans.</p> <p>L. Air-condition Units for equipment rooms.</p> <p>M. Training courses for 20 person at Company Origin.</p> <p>N. The supplier shall under take installation Supervision Commission Test , Training Course in Iraq , Guarantee for one year , all operation and maintenance manuals and software requirements .</p>	01-03-00001
	<p>Signalling system for 20 railway station and CTC Center include :</p> <ol style="list-style-type: none"> 1. Computer interlocking system for stations with operator panel. 2. Automatic Block System. 3. Axle counter equipment . 4. Out door equipment , Point machines , Track circuits and signals , and Level crossings. 5. Power supply , UPS , Battery for 4 hrs operation . 6. CTC for traffic management and remote control . 7. CAB signal system for 50 locomotive . <p>The offer should include the following :</p> <ol style="list-style-type: none"> 1. Spare parts for 3 years . 2. Tools and test instrument required for system installation and maintenance (4 sets) . 3. All installation materials . 4. Training for 10 person at Company origin . 5. The supplier shall undertake installation Supervision , Commission test , Training courses in Iraq ,for technical staff and for operation staff (station masters). One year guarantee and operation and maintenance manuals and software requirements . 	01-03-00002
150 km	<p>Telecom. cable 8x4x1.2+2x4x1.2 P.E insulation , jelly filled with the requirement of Heat shrinkage joint sets .</p>	01-03-00003
100 km	<p>Telecom. cable 7x4x1.4 P.E insulation , jelly filled with the requirement of Heat shrinkage joint sets .</p>	01-03-00004
5 km	<p>Telecom. cable 150x2x0.9 P.E insulation , jelly filled with the requirement of Heat shrinkage joint sets .</p>	01-03-00005
75 km	<p>Signalling cable 19C 1/0.85 mm with the requirements of joint sets .</p>	01-03-00006
4	<p>Microcomputer Unit JM25XX (for SDT system) (GEC signals Ltd.)</p>	01-03-00007
2	<p>Digivision Video monitor (CD14) (GEC signals Ltd.)</p>	01-03-00008
2	<p>Color display controller (TDS 4200)</p>	01-03-00009

20	Integrated processor Z8681	01-03-00010
40	NC. Battery 9.6V. 450_600 mAh (Robert Bosch Gmbh) g697 322 401	01-03-00011
10	Signal Level meter (selective freq , Imp.)	01-03-00012
10	Cable Finder (rout & depth)	01-03-00013
	Carrier frequency transmission system spare part (Origin WSSB ,East Germeny)	01-03-00014
8	B 1653.1	01-03-00015
10	B 2511	
20	B 1404	
6	B 2502	
5	B 2501	
5	B 2503	
5	B 2504	
5	B 1425	
5	B 1451	
5	B 1452	
5	B 1453	
5	B 1454	
5	B 1455	
5	B 1456	
5	B 1457	
5	B 1468	
5	B 1459	
5	B 1460	
5	B 1461	
5	B 1438	
5	B 1445	
5	B 2505	
5	B 2526	
5	B 2431	
5	B 1458	
5	B 1469	
10	1st. Diesel Generator 100 KVA (for Indoor Installation) Engin : 1500 rpm or less 6 cylinder ,Gas Oil fuel Alternator : Self excitation , Brush less 3 ph , 380v. , 50HZ , 0.8 P.F or more Direct coupling with foundation of engine AVR Regulation. Class F insulation Automatic operation , include Changeover switch of 400 AMP spare parts for 3 years Two year guarantee O&M manuals Generation : 1998 and above	01-03-00016
15	B. Diesel Generators 50 KVA (for Indoor Installation) “Specified as above except for change over switch of 250 AMP. “	

ELECTRICAL PARTS (CHECK LOCO.) CKD.

QUT. PER- 50LOC.	DES.	CODE
200	Carbon brush for dynamo	01-03-00017
100	Carbon brush for exciter .	01-03-00018
2000m	Cable SY 10 SEQ mm.	01-03-00019
2000m	Cable SY 25 SEQ mm.	01-03-00020
2000m	Cable SY 1.5 SEQ mm.	01-03-00021
50 set	Battery (150) AH,75 Cells.	01-03-00022
10 ton	Electrolyte type A	01-03-00023
1000m	Cable (SVU) 300-95 SQ mm.	01-03-00024
1000 m	Cable (SY) , 70 SQmm.	01-03-00025
50	Contactor (SD11).	01-03-00026
50	Main contact .	01-03-00027
50	Contact Strip.	01-03-00028
50	Contactor SC11.	01-03-00029
50	Contactor SG132/ IRED.	01-03-00030
50	Contactor S 613 T-1/1	01-03-00031
40	Contactor SE 11.	01-03-00032
50	Contactor SA 781.	01-03-00033
50	Aux - Contactor .	01-03-00034
40	Relay RA 441	01-03-00035
50	Relay RA 227	01-03-00036
50	Relay RA 222	01-03-00037
40	Relay RA 110	01-03-00038
30	Relay RD 11	01-03-00039
30	Relay RD 11	01-03-00040
50	Voltage Regulator	01-03-00041
50	Relay RE21	01-03-00042
20	Resistor 65 ohm.	01-03-00043
20	Resistor 27 ohm.	01-03-00044
50	Resistor 11ohm.	01-03-00045
20	Resistor 11 ohm.	01-03-00046
50	Resistor 0.35 ohm.	01-03-00047
20	Resistor 100 ohm.	01-03-00048
20	Resistor 65 ohm.	01-03-00049
20	Resistor 200 ohm.	01-03-00050
20	Resistor 9 ohm.	01-03-00051
50	Resistor 330 ohm.	01-03-00052
50	Resistor element	01-03-00053
50	Circuit Breaker 0.5A	01-03-00054
100	Silver Contactor leges	01-03-00055
100	Silver Contactor	01-03-00056
50	Timing Relay CR/325	01-03-00057
50	Timing Relay CR4 B01	01-03-00058
50	Timing Relay CR4 B03	01-03-00059
50	Timing Relay CR4 B10	01-03-00060
30	Exciter and charging Dynamo	01-03-00061
20	(1-36-810448) Traction Motor (TE006) with gear box.	01-03-00062
50	Breaker 1AMP.	01-03-00063
50	Diode Silcon	01-03-00064
50	Breaker 10 AMP.	01-03-00065
50	Breaker 25 AMP.	01-03-00066
30	Push button T6A green .	01-03-00067
50	Push button T6A Black.	01-03-00068
50	Push button T6G Red .	01-03-00069
50	Push button T6C green .	01-03-00070

50	Reverser Lever	01-03-00071
20	Load Regulator	01-03-00072
50	Head Light Switch .	01-03-00073
50	(Start – Stop) Switch .	01-03-00074
50	Control Switch .	01-03-00075
50	Traction motor switch .	01-03-00076
50	Switch .	01-03-00077
50	Switch Box AJR .	01-03-00078
50	Selector motor with gearing	01-03-00079
100	Carbon brush .	01-03-00080
50	Resistor Box .	01-03-00081
50	Valve EV 51/1	01-03-00082
50	Valve EV 51/11	01-03-00083
50	Valve (110) voits	01-03-00084
30	Set of Signal Light .	01-03-00085
50	Ammeter 04 KA DP .	01-03-00086
50	Battery Voltmeter .	01-03-00087
50	Battery Ammeter .	01-03-00088
150	Bulb (125V) , 15 watt .	01-03-00089
150	Bulb (110V) , 550 watt .	01-03-00090
150	Bulb (120V) , 60 watt .	01-03-00091
150	Bulb (120V) , 40 watt .	01-03-00092
100	Head Light .	01-03-00093
100	Side wall Light .	01-03-00094
50	Pre – lub . Elc Motor .	01-03-00095
50	Speedo meter with Read Record (RT9) .	01-03-00096
50	Transmitter	01-03-00097
200	Brush carbon for transmitter .	01-03-00098
50	Lamp (STN).	01-03-00099
50	Ammeter	01-03-00100
50	Reverser	01-03-00101
60	Pinion .	01-03-00102
80	Coller element .	01-03-00103

**SPARE PARTS FOR MLW LOCOMOTIVES
WITH DIESEL ENGINE 25 IC ALCO.**

CODE	DR NO.	DESCRIPTION	QTY
01-03-00104	DRP-5701	Light weight Bogies complete with traction motors and Brakes	4
01-03-00105	DRP-5693	Wheel axle,gear and Journal boxes complete	12
01-03-00106	DRP-5701	Shock Absorber Lateral	114
01-03-00107	DRP-5701	Block truck center Pin	80
01-03-00108	DRP-5701	Shock absorber Rotational	120
01-03-00109	DRP-5701	Bearing metalastik Mi × 01 × 40 (brown)	240
01-03-00110	DRP-5701	Bearer metalastik center pin block (Mi × 01 × 60) white	240
01-03-00111	GH-3214-4S UP10	Cylinder VAH 8× 8 Assy. Less Push rod	38
01-03-00112	GH-3214-4S UP10	Brake cylinder assy. (UAH) × 8	240
01-03-00113	GEG-30310 A	Bearing, Traction motor, Support [Axle Lining 7 ¼ “ STD]	960
01-03-00114	DRP-14815 D	Steel capped piston straight skirt 12.5 : 4	350
01-03-00115		12- cylinder engine complete with turbo charger . 251 C	10
01-03-00116	DRP-14899	Governor assy .	20
01-03-00117	DRP-12505 H	Pump water with gear	20
01-03-00118	DRP-12505 H	Shaft with wear sleeve	80
01-03-00119	DRP-12505 H	Key, impeller to shaft (3/8 × 1)	480
01-03-00120	DRP-12505 H	Key, gear to shaft (½ × 2)	480
01-03-00121	DRP-14428 A	Fuel injection Pump	120
01-03-00122	DRP-13916	Pump hand Piming Lub. oil	20
01-03-00123	DRP-14925	Cran K shaft	5
01-03-00124	DRP-5607	Shaft assy. Engine . compressor	80
01-03-00125	DRP-15418	Turbocharger	20
01-03-00126	DRP-15418	Main casing	32
01-03-00127	DRP-5698	Coupler (Automatic)	40
01-03-00128	DRP-5562 A	Blower assy. Traction motor	80
01-03-00129	DRP-5695	Radiator (R.S.)	80
01-03-00130	DRP-5695	Radiator (L.S)	80
01-03-00131	DRP-5695	Core	32
01-03-00132	DRP-5697	Tanko meter acab. only	31
01-03-00133	DRP-5391	Gaug water level 150 psi	40
01-03-00134	DRP-1847 A	GLO-Rod type Gauge with shut . off valve	80
01-03-00135	DRP-5700	Shaft assy . Traction motor blower	200
01-03-00136	DRP-5700	Element coupling Rubber tire (2 perset)	400
01-03-00137	DRP-5700	Hub tapered Engine – Blower drive	200
01-03-00138	DRP-5700	Shaft engine to blower	200
01-03-00139	GH 3208-26 SUP 2	26-C type brake valve	160
01-03-00140	GH 3208-26 SUP 2	Brake valve Portion assy.	160
01-03-00141	GH 3207-6 SUP 1	SA-26 Inde pendent brake valav portion assy.	160
01-03-00142	GH 3208-26 SUP 2	Kit complete rubber parts for overhanl maintenance (26-C)	160
01-03-00143	GH 3231-12	JI – Type realy valve	63
01-03-00144	GH 3216-35	A1 – charging cut – off pilot valve saay.	40
01-03-00145	GH 3230-26 SUP 1	(P2A) Brake application valve	80
01-03-00146	GH-3213-1	(MU-2A) valve assy.	20
01-03-00147	DRP-3735 A	Element filter	80
01-03-00148	DRP-5460	Valve automatic Drain	160
01-03-00149	GH-3202-2-SUP2	3- CDCL AIR compressor – westing house	20
01-03-00150	GH-3202-2	Oil pressure indicator assy.	40
01-03-00151	DRP-5607	Hub and flanged sleeve assy. keyed	120
01-03-00152	DRP-5607	Hub keyed	80
01-03-00153	DRP-5607	Sleeve flanged	100
01-03-00154	DRP-5607	Huband flanged sleeve assy. Not keyed	120

SPARE PARTS FOR MLW LOCOMOTIVES

Electrical Parts

	DR NO.	DESCRIPTION	QTY
01-03-00155	GEG-30306A	Generator model Gt 581 J 1	6
01-03-00156	10-GEG-30311 A	Traction motor model GE 161 PA 10 Exc.	30
01-03-00157	PIGEG-30311 A	Pinion 19 Teeth. Grade M.	150
01-03-00158	GEG-30316	Auxiliary generator and Excitor Generator	25
01-03-00159	GEG-30084	Controller type 17 KCQ 92 F2	40
01-03-00160	GEG-7282 E	Contactor type 17 CM 55 A 5 A	50
01-03-00161	GEG-30050 A	Contactor type 17 P2 BC3	25
01-03-00162	GEG-7747 G	Contactor MODEL 17 CM 57 A 9	50
01-03-00163	GEG-9343 E	Interlock type E 17 AF 41 A 1	25
01-03-00164	GEG-3605 D	Contactor type CR 2800-1607-F 7 H SLLP	50
01-03-00165	GEG-7214 B	Contactor type 17 CM 53 B 7	50
01-03-00166	GEG-2791 F	Interlock type 17 AF 14 H2	10
01-03-00167	GEG-30008 A	Relay model 17 lv 66 J 10	60
01-03-00168	GEG-30008 A	Relay type 17 LV 66 AM 33	70
01-03-00169	GEG-30008 A	Relay type 17 LV 66 BY 20	70
01-03-00170	GEG-9440 D	Relay type 17 LV 68 E 2	70
01-03-00171	GEG-30094	Voltage Regulator model 17 FH 20 BLON	25
01-03-00172	GEG-15146 E	Card (BN) type 17 FC 114 E2	25
01-03-00173	GEG-1514 G	Card model 17 FC 175 H 1	25
01-03-00174	GEG-30135	Excitation control panel model 17 fl 14 L 2	25
01-03-00175	GEG-23323	Card model 17 C 25 B 1	25
01-03-00176	GEG-30063	Switch – Engine control type SB-G (ECS)	40
01-03-00177	GEG – 30075	Card model 17 fc187 AQ1	25
01-03-00178	GEG – 23370	Card model 17 fc188 C1	25
01-03-00179	GEG – 23325	Card model 17 fc254 D1	50
01-03-00180	GEG – 30045	Card model 17 fc266 A2	25
01-03-00181	GEG – 30043	Card model 17 fc200 D1	25
01-03-00182	GEG – 30083	Speed – Event Panal model 17 fl 11 C 11 N	25
01-03-00183	GEG – 30080	Card model 17 fc 357 A2	50
01-03-00184	GEG – 30079	Card model 17 fc 356 B1	25
01-03-00185	DRP – 5592	Panel assy . Radiator fan Delad 10	25
01-03-00186	GEG – 30015	Panel GE 482 A 51661(G)	20
01-03-00187	GEG – 30007	Panel type 17 FR 202 A1	20
01-03-00188	GEG – 30082	Resistor type E 17 EM 49 K1	20
01-03-00189	GEG - 30019	Resistor Generator Field (GRF) model 17 FR 101 A1	25
01-03-00190	GEG - 30017 A	Resistor Generator voltage Divider model 17 FR 4 A 4	20
01-03-00191	GEG - 30018 A	Resistor oscillating volt model 17 FR 45 B 2	15
01-03-00192	GEG - 30011	Panel	20
01-03-00193	GEG - 30065	Stabelzeing ESTHB model 17 FM 112 B 817 FM 2027	20
01-03-00194	DRP - 6169	Fuel booster Pump model 5 BC 74 AB 2074 A	25
01-03-00195	GEG - 30093	Motor Crankcase Exhanst	25
01-03-00196		Motor for Pre lubricating Pnmp 1 I	25
01-03-00197	GEG – 12506 B	Reverser model 17 DP 22 A1	25
01-03-00198	GEG-30134	Card model 17FC935AI	25
01-03-00199	GEG-30063	Switch – Head Light – type (ESB) – g[HLPS] [ECS]	40
01-03-00200	DRP-5691	Engine starts switch .	25
01-03-00201		MU Engine – Stop switch .	25
01-03-00202		Battery Switch .	20
01-03-00203		Ground Relay cut – off switch .	5
01-03-00204		Switch .	25
01-03-00205		Motor cut – out switch .	15
01-03-00206		Switch .	15
01-03-00207		Switch Pressure – TACHO Brake .	10
01-03-00208	DRP - 5697	Switch .	25
01-03-00209		Switch Low – Water cut off .	10

01-03-00210		Switch Toggle .	25
01-03-00211		Switch – Pressure – Differential .	15
01-03-00212		Resistor .	20
01-03-00213		Resistor .	15
01-03-00214		Rectifier .	10
01-03-00215	DRP - 5697	Switch ,Hot – Plate (ON – OFF) .	20
01-03-00216	DRP - 5697	Panel switch 8 Light .	25

CODE	DR NO.	DESCRIPTION	QTY
01-03-00217	DRP - 5697	Panel , Circuit Breaker .	20
01-03-00218	DRP - 5697	Circuit Breaker 15AR (PMFPB – AGFTEB – LPB2 – MCB)	25
01-03-00219	DRP - 5697	Circuit Breaker 30AMP(LBI – FPB – HLPB) .	25
01-03-00220		Circuit Breaker 150AMP(MB2 – HLP) .	25
01-03-00221		Circuit Breaker 200AMP MB1 – HLP .	25
01-03-00222	DRP - 5697	Switch Generator Field .	40
01-03-00223		Time delay AGASTAT BUS – BAR (ESNA 7022 RD)	25
01-03-00224		Time delay AGASTAT BUS – BAR (ESNA 7012 RC)	25
01-03-00225		Relay .	20
01-03-00226		Detector Fire .	20
01-03-00227	DRP –5415	Switch Control Air Pressure (20-180) PSI (10-30) PSI differential .	50
01-03-00228	DRP –5420	Switch Temperature control (0-225) F	50
01-03-00229	DRP - 5488	Valve assy. Solenoid .	20
01-03-00230	DRP - 5786	Valve solenoid four way Relay with bracket .	20
01-03-00231	GEG–30051A	Axle alternator and drive shaft model 17MM24PF2	20
01-03-00232	GEG-12896B	Tachometer Generator .	20
01-03-00233		Transformer TET.	20
01-03-00234		Reactor , Current Control [ACCR] TAP	20
01-03-00235		Battery set ALCAD type D23 TAP .	25
01-03-00236		Cable for battery (250) MCM (1000) VOLT (6-20) MN Length	400M.
01-03-00237	DRP-5697	Tachometer .	25
01-03-00238	DRP-5697	Switch Attendant call	20
01-03-00239	DRP-5697	Switch engine room light	20
01-03-00240	DRP-5697	Switch Stop –Run	25
01-03-00241	DRP-5697	Push Button Satety Control	2
01-03-00242	DRP-5697	Resistor 25 watt (0.15) HRS{OHMITE NO-0364	20
01-03-00243	DRP-5697	Resistor 100 watt 150 OHM{OHMITE NO-0959	15
01-03-00244	DRP-5697	Switch Focot, vigiliance cotrol l053	25
01-03-00245	DRP-5697	Loadmeter	50
01-03-00246	DRP-5697	Ammeter Battery	50
01-03-00247		Speed Recorder Hasler R79 (RT9)	25
01-03-00248		Speed indicator Hasler A 16 (A16)	25
01-03-00249		Transmitter	50
01-03-00250		Connector for cable	

**SPARE PARTS FOR (MACOSA LOCOMOTIVES) SPANISH - TYPE
J 26 CW/ AC , DESIEL ENGINE TYPE (GM - 16 - 645E)**

CODE	PART LIST P. L	DESCRIPTION	QTY	
01-03-00251	100-4-48	ENGINE (16-645E)	10	
01-03-00252	108-10-1	PISTON ASSY.	320	
01-03-00253	108-10-3	RING SET	320	
01-03-00254	107-1-1	ROD ASSY. (FORK)	40	
01-03-00255	107-1-9	ROD ASSY.(BLADE)	40	
01-03-00256	107-1-10	BEARING UPPER,CONNECTING ROD	320	
01-03-00257	107-1-11	BEARING LOWER, CONNCTING ROD	320	
01-03-00258	107-1-12	CARRIER	80	
01-03-00259	107-1-13	BEARING - INSERT	320	
01-03-00260	107-1-14	PIN	40	
01-03-00261	107-1-16	WASHER , THRUST	320	
01-03-00262	107-1-17	RING - SNAP	320	
01-03-00263	104-2-11	GASKET , HANDHOLE COVER	160	
01-03-00264	160-1-7	GASKET, HOUSING TO CRANKCASE	60	
01-03-00265	158-1-10	GASKET, HOUSING TO CRANKCASE	60	
01-03-00266	106-1-1	HEAD ASSY.	320	
01-03-00267	106-2-7	GUID ,EXHAUST VALVE	320	
01-03-00268	106-2-8	VALVE , EXHAUST	320	
01-03-00269	106-2-10	LOCK , VALVE	640	
01-03-00270	106-2-11	SEAT , SPRING	320	
01-03-00271	106-2-12	RING SEAT , CYLINDER HEAD	80	
01-03-00272	106-2-24	LINER ASSY.	320	
01-03-00273	106-3-30	SEAL , LINER TOP GROOVE	600	
01-03-00274	106-3-31	SEAL , LINER , LOWER GROOVE	600	
01-03-00275	F118-3-1	CRANKSHAFT-ENGINE - STANDARD	5	
01-03-00276	F118-3-8	COLLAR- THRUST - STANDARD THICKNESS	60	
01-03-00277	F118-3-9	BEARING -MAIN - FRONT AND INTERMDIAT(UPPER)	140	
01-03-00278	F118-3-10	BEARING -MAIN-FRONT & INTERMEDIATE (LOWER)	140	
01-03-00279	F118-3-11	BEARING -MAIN- CENTER (UPPER)	40	
01-03-00280	F118-3-12	BEARING-MAIN-CENTER (LOWER)	40	
01-03-00281	F118-3-13	BEARING -MAIN- REPAIR-(UPPER)	20	
01-03-00282	F118-3-14	BEARING -MAIN- REAR- (LOWER)	20	
01-03-00283	113-1-5	BUSHING , ROCKER ARM	160	
01-03-00284	113-1-9	RACE INNER	160	
01-03-00285	113-1-14	SPRING BUTTON RETAINING	160	
01-03-00286	113-1-15	BUTTON INJECTOR	160	
01-03-00287	113-1-16	BRIDGE EXHAUST VALVE	160	
01-03-00288	113-2-4	SEAT SPRING	160	
01-03-00289	113-2-6	BUTTON BRIDGE	160	
01-03-00290	113-2-7	ADJUSTER ASSY . LASH	160	
01-03-00291	113-1-23	LINE ASSY . OIL ROCKER ARM SHAFT	80	
01-03-00292	113-1-24	GASKET LUBE OIL LINE	160	
01-03-00293	F106-2-23	KIT, GASKET , CYLINDER HEAD TO CYLINDER LINER	800	
01-03-00294	166-24-1	GOVERNOR ASSY .	10	
01-03-00295	166-28-221	DIAPHRAGM .. LUB . OIL	80	
01-03-00296	166-28-223	SPRING . . DIAPHRAGM	80	
01-03-00297	166-28-226	GASKET ... SIDE PLATE	80	
01-03-00298	166-24-11	SHAFT ... DRIVE	40	
01-03-00299	170-3-15	GASKET , COVER ... SHAFT DRIVE	80	

CODE	PART LIST P. L	DESCRIPTION	QTY	
01-03-00300	144-2-6	TUBE ASSY. WATER INLET	160	
01-03-00301	144-2-10	GASKET , MANIFOLD TO WATER INTEL	160	
01-03-00302	144-2-11	SEAL, CYLINDER LINER TO ATER INLET	160	
01-03-00303	144-5-1	PUMP ASSY , WATER	20	
01-03-00304	144-5-3	GASKET	60	
01-03-00305	144-5-12	GASKET ,ELBOW TO PUMP	60	
01-03-00306	146-1-19	KIT , SEAL	500	
01-03-00307	146-1-21	SEAL , OUTER	500	
01-03-00308	146-1-22	SEAL , INNER	500	
01-03-00309	146-1-24	GASKET	500	
01-03-00310	146-1-25	GASKET	500	
01-03-00311	146-2-29	SHAFT , PUMP	60	
01-03-00312	146-2-30	KEY	60	
01-03-00313	146-2-31	KEY	60	
01-03-00314	146-2-23	BEARING , RALL	60	
01-03-00315	146-2-24	BEARING , RALL	60	
01-03-00316	148-1-10	LINE ASSY , FUEL OIL – MANIFOLD TO INJECTOR	80	
01-03-00317	133-1-1	PUMP ASSY - BOOSTER	20	
01-03-00318	133-1-5	GASKET, MOTOR TO PUMP	60	
01-03-00319	134-10-1	TUBE,OIL–PISTON COOLING	80	
01-03-00320	134-10-2	GASKET		
01-03-00321	111-2-1	INJECTOR ASSY , FUEL	80	
01-03-00322	111-2-10	SEAL	320	
01-03-00323	111-2-13	ELEMENT , FILTER , STAINLESS STEEL MESH	1200	
01-03-00324	111-3-23	TIP ASSY	160	
01-03-00325	111-3-28	VALVE , CHECK	160	
01-03-00326	111-4-1	KIT	160	
01-03-00327	150-1-12	VALVE , RELIEF , 5 PSI	60	
01-03-00328	150-1-13	VALVE , RELIEF , 60 PSI	60	
01-03-00329	150-1-17	ELEMENT , FUEL FILTER- SPIN ON	1600	
01-03-00330	150-1-10	BOWL , GLASS	40	
01-03-00331	159-22-45	KIT , COMPLETE , REPAIR DETECTOR ASSY .	120	
01-03-00332	159-2-4	HOSE ASSY.	120	
01-03-00333	159-2-5	HOSE ASSY.	120	
01-03-00334	159-2-6	TUBE –ASSY	120	
01-03-00335	F100-7-15	LNsert , LOWER , LINER	320	
01-03-00336	F124-6-1	COUPLING ASSY .. ACCESSORY DRIVE	60	
01-03-00337	F136-1-35	SEAL .. PISTON COOLING AND BEARING STRAINER	160	
01-03-00338	F136-2-39	SEAL. .RING –SCAVENGING OIL STRAINER	160	
01-03-00339	F136-2-47	GASKET ..COVER	160	
01-03-00340	F159-22-1	DETECTOR ASSY.	20	
01-03-00341	F185-2-5	GASKET .. SUPPORT TO CRANKCASE , BLOWER	60	
01-03-00342	F185-2-6	GASKET .. BLOWER TO SUPPORT	60	
01-03-00343	F185-2-7	GASKET .. BLOWER TO DRIVE HOUSING.	60	
01-03-00344	F185-5-53	COVER GASKET	60	

SPARE PARTS FOR (TRUCK) – MACOSA LOCO. TYPE J 26 CW / AC

CODE	PART LIST P. L	DESCRIPTION	QTY	
01-03-00345	T-00-1-00	TRUCK GENERAL ASSY . V= MACOSA	4	
01-03-00346	T-02-3-04	CENTER WEAR PLATE.	80	
01-03-00347	T-02-3-05	RING HALF- CENTER PLATE	160	
01-03-00348	T-03-4-05	SHOE HOLDER	24	
01-03-00349	T-03-4-06	BRAKE – HANGER	24	
01-03-00350	T-03-5-55	CYLINDER – AIR BRAKE COMPLETE	40	
01-03-00351	T-03-5-56	CYLINDER – AIR BRAKE COMPLETE	40	
01-03-00352	T-03-5-57	CYLINDER –AIR BRAKE COMPLETE –CENTRAL RIGHT	20	
01-03-00353	T-03-5-58	CYLINDER – AIR BRAKE COMPLETE - CENTRAL LEFT	20	
01-03-00354	T-04-7-08	FLANG – SWIVEL – ½”	24	
01-03-00355	T-04-7-09	INSERT – SWIVEL FLANGE	24	
01-03-00356	T-04-7-10	GASKET , FLANGE TO BRAKE CYLINDER	240	
01-03-00357	T-05-8-00	AXLE ,WHEEL & GEAR ASSY.	60	
01-03-00358	T-09-12-2	PINION –17 TEETH , TRACTION MOTOR D 77B	120	
01-03-00359	T-09-12-4	AXLE BEARING	320	
01-03-00360	T-09-12-6	BOLT HEX- HEAD ½ -13	2000	
01-03-00361	T-09-12-7	WASHER – LOCK1/2	2000	
01-03-00362	T-09-12-9	LUBRICATOR WICK ASSY.	500	
01-03-00363	T-12-15-7	ABSORBER ASSY . SHOCK VERTICAL	80	
01-03-00364	T-17-20-00	GEAR CASE ASSY.	60	
01-03-00365	T-17-20-3	BOLT SAFETY STRAP.	2000	
01-03-00366	T-17-20-5	NUT LOCK A- 240 MA.24*3	2000	
01-03-00367	T-17-20-4	STROP SAFETY	240	
01-03-00368	T-17-21-00	AXLE GUARD ASSY.	60	
01-03-00369	T-17-22-00	DUCT – TRACTION MOTOR AIR	120	
01-03-00370	T-17-20-01	GEAR CASE LOWER HALF	120	

MECHANICAL PARTS (CAB. + BODY + AIR BRAKE SYSTEM)

CODE	PART LIST P. L	DESCRIPTION	QTY	
01-03-00371	C543-1-1	RADIATOR ASSY. LEFT SIDE	20	
01-03-00372	C543-1-2	RADIATOR ASSY. RIGHT HAND SIDE	20	
01-03-00373	C543-1-13	COUPLING ASSY.	40	
01-03-00374	C543-1-23	COUPLING ASSY.	40	
01-03-00375	C543-1-29	COUPLING ASSY.	40	
01-03-00376	C543-1-25	GASKET	120	
01-03-00377	A549-2-6	CORE (RADIATOR)	40	
01-03-00378	A549-2-8	GASKET	320	
01-03-00379	D750-1-3	FUEL TANK LEVEL GAUGE	40	
01-03-00380	D 750-2-0	STRAINER ASSY. FUEL SUCTION	20	
01-03-00381	D 750-2-1	ELEMENT	60	
01-03-00382	D750-2-4	RING“ 0 “REF.2-338. N –219-7	600	
01-03-00383	D750-3-1	ELEMENT . GILTER PLEATED COTTON PAPER	160	
01-03-00384	D750-3-7	RING”0” REF.2-443 .N.219-7	600	
01-03-00385	C938-1-1	COOLER ASSY . LUBE OIL	20	
01-03-00386	C938-1-3	CORE . COOLER	20	
01-03-00387	C938-1-21	GASKET , HEADER TO CORE	250	
01-03-00388	C938-1-22	GASKET , BOTTOM HEADER TO TANK	250	
01-03-00389	A940-1-11	ELEMENT PLEATED COTTON PAPER	2800	
01-03-00390	A940-1-18	GASKET , COVER	200	
01-03-00391	C1007-1-16	GAUGE – ENGINE WATER LNLET TEMP.	20	
01-03-00392	C1007-1-17	GAUGE – WATER TANK WATER LEVEL	20	
01-03-00393	C1007-1-19	GAUGE–LUB.OIL PRESSURE	20	
01-03-00394	C1007-1-20	GUGE – LUB.OIL TEMPERATURE	20	
01-03-00395	C1007-2-35	CAPASSY,WATER TANK TILLER	40	
01-03-00396	C1007-3-59	HAND PRIME PUMP. FIG .1SIZE2 , WATER	20	
01-03-00397	C1070-2-2	VAVLE –26F CONTROL , REF(WABCO)	20	
01-03-00398	C1070-2-8	RE GULATOR PRESSURE , REF. (DIMETAL)	20	
01-03-00399	C1070-2-17	VALVE (A-1) .REF.(WABCO)	20	
01-03-00400	C1070-2-27	CHECK VALVE , REF(EMD)	60	
01-03-00401	1071-1-1	RELIEF VALVE N.8(REF(WABCO))	40	
01-03-00402	1071-1-6	FILTER . REF (EMD)	40	
01-03-00403	1071-1-7	FILTER . REF (EMD)	40	
01-03-00404	1071-1-9	DOUBLE CHECK VALVE 26A. REF (WABCO)	20	
01-03-00405	1071-1-10	DOUBLE GHEAC VALVE 596 REF (EMD)	40	
01-03-00406	1071-1-12	VALVE (E-7-C)REF(WABCO)	20	
01-03-00407	1071-1-14	DRAIN AUTOMATIC VALVE REF (EMD)	40	
01-03-00408	1144-1-11	WBO-AIR COMPRESSOR	10	
01-03-00409	1144-2-5	CRANKSHAFT ASSY .	10	
01-03-00410	1144-3-27	BEARING – MAIN ROLLER	40	
01-03-00411	1144-3-33	SEAL OIL RUBBER	40	
01-03-00412	1144-4-40	GASKET	100	

01-03-00413	1144-4-41	GASKET	100	
01-03-00414	1144-4-41	GASKET	100	
01-03-00415	1144-4-69	HEAD , CYLINDER (H.P)	20	
01-03-00416	1144-4-63	HEAD , CYLINDER (L .P)	40	
01-03-00417	1144-4-68	GASKET TO CYLINDER (L.P) HEAD	80	
01-03-00418	1144-4-75	GASKET TO CYLINDER(H.P) HEAD	80	
01-03-00419	1144-5-80	VALVE – HIGH PRESSURE DISCHARGE	160	
01-03-00420	1144-5-81	GASKET , VALVE COVER TO (L.P) HEAD	160	
01-03-00421	1144-5-82	GASKET , VALVE COVER TO (H.P) HEAD	160	
01-03-00422	1144-5-87	CYLINDER, (L.P)	40	
01-03-00423	1144-5-88	CYLINDER, (H.P)	20	
01-03-00424	1144-5-90	GASKET (H.P)&(L.P) CYLINDER TO CRANK CASE	60	
01-03-00425	1144-5-94	GASKET	60	
01-03-00426	1144-5-100	PIN ,(L.P) PISTON	20	
01-03-00427	1144-5-102	ROD ,ASSY , CONNECTING	30	
01-03-00428	1144-5-102	BEARING–UPPER AND LOWER	120	
01-03-00429	1144-12-1	PISTON ASSY (L.P) STD.	60	
01-03-00430	1144-12-3	RING SET	60	
01-03-00431	1144-12-16	PISTON ASSY (H.P) STD	60	
01-03-00432	1144-12-20	RING SET	60	
01-03-00433	1161-1-1	VALVE ASSY.DISCHARG(L.P)	160	
01-03-00434	1161-1-2	SEAT ASSY.	80	
01-03-00435	1161-1-6	GASKET –VALVE SEAT TO HEAD	160	
01-03-00436	1161-1-13	GASKE –COVER PLATE TO HEAD	160	
01-03-00437	1161-2-1	VALVE ASSY . SUCTION UNLOADING (L.P)	80	
01-03-00438	1161-2-8	GASKET – SEAT TO HEAD	160	
01-03-00439	1161-2-12	GASKET–VALVE COVER TO HEAD	16	
01-03-00440	1161-4-3	VALVE ASSY. DISCHARGE (H.P)	160	
01-03-00441	1161-4-6	GASKET – VALVE SEET TO HEAD	160	
01-03-00442	1161-4-16	GASKET , COVER PLATE TO HEAD	160	
01-03-00443	1161-5-3	VALVE ASSY . (H.P) SUCTION UNLOADING	160	
01-03-00444	1161-5-11	GASKET , SEATTO HEAD	160	
01-03-00445	1161-5-17	GASKET , COVER PLATE TO HEAD	160	
01-03-00446	1164-2-2	ELEMENT	80	
01-03-00447	1144-13-20	FILLTER , OIL	60	
01-03-00448	C2410-2-11	MIRROR ,REAR VIEW	80	
01-03-00449	D2415-1-1	GLASS	60	
01-03-00450	D2415-1-2	WEATHER STRIP	120	
01-03-00451	D2415-1-3	JOINT	120	
01-03-00452	D2415-1-3	PROFILE	120	
01-03-00453	B2711-1-1	COUPLER “ WILLISON “ .INCLUDES COUPLING SCREW	40	
01-03-00454	A2940-1-1	HORN.SINGLE BELL KT75/370	40	
01-03-00455	A2940-1-2	HORN.SINGLE BELL KT75/660	40	
01-03-00456	A2940-1-3	DLAPHRAGM KM75ET (988-291)	80	
01-03-00457	D3239-3-1	GAUGE PRESSURE – MAIN RESERVOIR	20	

01-03-00458	D3239-3-2	SWITCH . COMPRESSOR CONTROL (CCS)	20	
01-03-00459	D3239-3-3	VALVE MAGNET , COMPRESSOR (MVCC)	20	
01-03-00460	D3239-3-4	VALVE MAGNET , SHUTTER CONTROL	20	
01-03-00461	D 3610-1-2	DRIVE ASSY.	20	
01-03-00462	B4330-2-29	AIR GAUGE , BRAKE CYLINDER	20	
01-03-00463	B4330-2-30	AIR GAUGE , MAIN RESERVOIR	20	
01-03-00464	B4330-6-149	VALVE EMERGENCY.	40	
01-03-00465	B4330-10-5	VALVE . 26C.	40	
01-03-00466	B4330-13-95	VALVE (MU2A)	20	
01-03-00467	B4330-16-181	VALVE(P2A)	20	
01-03-00468	B4330-16-182	VALVE RELAY (J1)	20	
01-03-00469	B4330-16-183	VALVE DOUBLE CHEAK (26.A)	20	
01-03-00470	B4330-16-184	VALVE DOUBLE CHECK	20	
01-03-00471	B4330-16-185	VALVE SOLENOID	40	
01-03-00472	B4330-16-196	WHISTLE.	40	
01-03-00473	A4522-1-22	CAUPLING ASSY(LOAD REGULATOR)	20	
01-03-00474	A4522-1-2	MOTOR ASSY.	20	

ELECTRICAL PARTS / MACOSA

CODE	P.N	P.L	DESCRIPTION/ ELECTRICAL / PARTS	QTY	
01-03-00475	8413191	3317-49-P2	BRUSH CARBON AR 10	300	
01-03-00476	8413190	3317-52P3	BRUSH CARBON D14	300	
01-03-00477	8374003	3317-74P3	TRANSTORMER CURRENT	20	
01-03-00478	8346621	3317-1 P10	STATOR ASSY. D 14	20	
01-03-00479	8368467	3317-2P12	DIODES SILICON POSITIVE BASE	600	
01-03-00480	8368469	3317-4P12	DIODES SILICON POSITIVE BASE	600	
01-03-00481	8452314	3913	PINION	100	
01-03-00482	8109922	3913-143P7	CONNECTOR	200	
01-03-00483	8277771	3915-1 P1	WICK ASSY	120	
01-03-00484	8300704	3926-1-P1	SUPPORT BEARING	120	
01-03-00485	8446094	3939-1P3	GEAR CASE – LOWER HALF	120	
01-03-00486		3707-1 P1	GENERATOR . AC/MODEL A.8147 M1	10	
01-03-00487	8452997	3244-1-10	MODULE CIRUIT (VR11) VOLT REG.	20	
01-03-00488	9098617	3244-1-11	MODULE(TH13)THROTTLE RESPONSE	10	
01-03-00489	9319866	3244-1-12	MODULE (RC12) RATE CONTROL	10	
01-03-00490	9511752	3244-1-13	MODULE (FP20) FEED BACK PERRFORMANCE	10	
01-03-00491	8958900	3244-1-14	MODULE (SE10) SENSOR	10	
01-03-00492	8453967	3244-1-15	MODULE (GV12) GENERATOR VOLTAGE REG.	10	
01-03-00493	8442229	3244-1-16	MODULE (GX2) GENERATOR EXITATION	10	
01-03-00494	8441080	3244	MODULE (WS10)WHEEL SLIP	10	
01-03-00495	8441478	3244-1-20	MODULE (SA11) SANDING	10	
01-03-00496	9504071	3244-1-21	MODULE (ES17) FIELD SHUNTING	10	
01-03-00497	8330937	3244-1-24	CONTACTOR GEN. FIELD (GFA)	20	
01-03-00498	8400143	3244-1-25	CONTACTOR GEN.FIELD (GFD)	20	
01-03-00499	8460403	3244-1-26	TRANSDUCTOR ELT FCT.	20	
01-03-00500	8451158	3244-1-27	CONTACTOR FIELD SHUNTING FSI	20	
01-03-00501	8482180	3244-1-28	CONTACTOR STARTING AUX. STA	10	
01-03-00502	9315518	3244-1-29	CONTACTOR STARTING (ST)	80	
01-03-00503	8461332	3244-1-30	CONTACTOR POWER SP 14-SP25 SP36	30	
01-03-00504	8464117	3244-1-31	SWITCH MAGNETIC RVF RVR	40	
01-03-00505	8465002	3244-1-34	TRANSDUCTOR WHEEL SLIP WST 16-24	20	
01-03-00506	8004611	3244-1-44	SWITCH ENGINE ROOM LIGHT DPOT	20	
01-03-00507	8439118	3244-11P46	SWITCH –ROTORY HEAD LIGHT	20	
01-03-00508	8488660	3244	SWITCH	20	
01-03-00509	8454412	3244-3-3	RELAY WS 36 WS 14	20	
01-03-00510	8421231	3244-3-4	RELAY(NVR)NO VOLTAGE	20	
01-03-00511	8361776	3244-3-5	RELAY- CROUND FAULT DETECTOR(GR)	20	
01-03-00512	8357417	3244-3-6	RELAY FOR RVRA	20	
01-03-00513	8361774	3244-3-7	RELAY (MR)	20	
01-03-00514	8357416	3244-3-8	RELAY(GFX-ER-PCP-ECP)	40	

01-03-00515	8361775	3244-3-9	RELAY (RER)	40	
01-03-00516	460396	4001-33P18	RESISTOR R7,2570 AM 5 WATT	20	
01-03-00517	8363168	3244-3-11	RELAY FRR- WL-OSR	40	
01-03-00518	8357415	3244-3-12	RELAY(THL-TSR-OSRA-COR- CDR) 40		
01-03-00519	8272600	3244-3-13	RELAY VIGILANCE CONTROL(VCTD)	20	
01-03-00520	3324997	3244-4-2	TACHOMETER	20	
01-03-00521	6960162	3244-4-4	VOLTMETER	40	
01-03-00522	3295501	3244-4-5	AMMETER	40	
01-03-00523	XB2-AA42	3244-4-6	PUSH DUTTON ENGINE STOP TELEMEC	40	
01-03-00524	8433191	3244-4-7	SWITCH ROTARY LOSLUTION	20	
01-03-00525	8426700	3244-4-8	SWITCH ROTARY FUEL - PRIME ENGINE	20	
01-03-00526	8458724	3244-5-2	BREAKER,CIRUIT DP-03A LIGHT HPL	20	
01-03-00527	8478724		BREAKER AIR CONDITION	20	
01-03-00528	8958733	3244-5-3	BREAKER DEFR- FAN, SPEED REG. WA	20	
01-03-00529	8458726	3244-5-4	BREAKER – CIRCUIT DP.35A HEAD LIGHT	20	
01-03-00530	8458742	3244-5-5	BREAKER – CIRCUIT 3P.30 A LOCAL CONT.	20	
01-03-00531	8458727	3244-5-6	BREAKER – CIRCUIT DP-15A - AC CONTT.	20	
01-03-00532	8458738	3244-5-7	BREAKER , CIRCUIT DP-40A- CONTROL	20	
01-03-00533	8458741	3244-5-8	BREAKER , CIRCUIT 3P-15A, FUEL PUMP	20	
01-03-00534	8458728	3244-5-9	BREAKER , CIRCUIT DP-5A MOUDUL CONT.	20	
01-03-00535	9095648	3244-5-10	BREAKER , CIRCUIT DP-100A GEN.FIELD	20	
01-03-00536	8433383	3244-5-11	BREAKER , CIRCUIT DP-100A GEN FIELD	20	
01-03-00537	8448859	3244-5-12	BREAKER , CIRCUIT DP-50A- BLOWER MOT.	20	
01-03-00538	9080767	3244-5-13	BREAKER , CIRCUIT DP-35A , AIR COND.	20	
01-03-00539	8485669	3244-5-14	BREAKER , CIRCUIT DP- 60A,COB HEATER	20	
01-03-00540	V-136316	3244-5-15	SWITCH , FIRE DETE CTOR	20	
01-03-00541	XB2-AR45	3244-5-6	PUSH BOTTON TEST FIRE TELEMEC	20	
01-03-00542	8351993	3244-6-2	TRANSFORE MER GPY1=GPT2	20	
01-03-00543	835325	3244-6-3	RECTIFIER , CR-GR	20	
01-03-00544	8421017	3244-6-4	RECTIFIER, ASY-CRU-CR66	20	
01-03-00545	9092231	3244-6-5	RESISTOR REA(110) OHM,400 WATTS	20	

CODE	P.N	P.L	DESCRIPTION	QTY	
01-03-00546	9339108	3244-6-6	RESISTOR RE11 – RE12,16 OHM – 400 W	40	
01-03-00547	8411480	3244-6-7	RESISTOR RE 9 – RE 9 (250) OHM – 50 W	20	
01-03-00548	8399938	3244-6-8	RESISTOR RE 2 – (418) OHM – 400 W	20	
01-03-00549	8396289	3244-6-9	RESISTOR (RE 3 – 350) 150 OHM – 160 W	20	
01-03-00550	8398604	3244-6-10	RESISTOR,RE 4 – RE 15 – RE 14	20	
01-03-00551	8283943	3244-6-11	RESISTOR – RE 23,ABC – RE 24 A – B - C	20	
01-03-00552	8392344	3244-6-12	RESISTOR – RE 15 – RE 16 (400) OHM – 25 W	20	
01-03-00553	8239506	3244-6-13	RESISTOR – RE 31 – 33 – 34 – 41 – (100) OHM	20	
01-03-00554	8332380	3244-6-14	RESISTOR – RE 32 – 350 OHM – 50 W	20	
01-03-00555	8410838	4334	SWITCH ROTARY MOTOR CUT - OUT	20	
01-03-00556	8150199	3244	SWITCH TOGLE ENGINE ROOM 11 GHT	20	
01-03-00557	8209955	5377-2	BASE ASSY. UPPER CONTACT	20	
01-03-00558	8409382	5377-9	BASE LOWER CONTACT	20	
01-03-00559	8409388	5377-49	BRUSH ASSY. MORABLE CONTACT	40	
01-03-00560	8209385	5377-54	COIL	20	
01-03-00561	8258614	5401-3	POSTASSY – STATIONARY CONTACT	40	
01-03-00562	8251207	5401-15	PLATE ASSY. MOVABLE CONTACT	20	
01-03-00563	8358489	5401-31	COIL	20	
01-03-00564	8339440	5408-9	CONTACT ASSY - MOVABLE	20	
01-03-00565	8339441	5408-10	CONTACT ASSY - STATIONARY	20	
01-03-00566	8332086	5424-2	INTERLOCK ASSY.	20	
01-03-00567	8441833	5424-8	CONTACT ASSY.	20	
01-03-00568	8339355	5424-12	CONTACT ASSY.	20	
01-03-00569	8339390	5424-17	CONTACT ASSY.	20	
01-03-00570	8261221	5432-7	BLOCK ASSY – MOVABLE CONTACT	20	
01-03-00571	8080384	4110-E1-P1	PUMP ASSY. FUEL INCLUDE MOTOR APA	20	
01-03-00572	907597	4110-E5-35	BEARING - BALL	20	
01-03-00573	954157	4110-ES-35	BEARING - BALL	20	
01-03-00574	2802707	4123-E1-17	COIL ASSY	20	
01-03-00575	491237	4110-E2-2	ARMATURE	20	
01-03-00576	907931	4123-E1-22	BEARING,BALL,FRAME END	20	
01-03-00577	907786	4123-E1-25	BEARING,BALL,FAN END	20	
01-03-00578	9505012	4330-4-48	AMMETER	40	
01-03-00579	8330133	4330-4-52	SWITCH TOGGLE	40	
01-03-00580	8330135	4330	SWITCH SLIDE BUTTON CONTROL FUEL PUMP	40	
01-03-00581	8455355	4330-4-53	SWITCH TOGGLE	40	
01-03-00582	8330137	4330-4-54	SWITCH TOGGLE	40	
01-03-00583	8233305	4330-4-55	SWITCH TOGGLE	40	

CODE	P.N	P.L	DESCRIPTION	QTY	
01-03-00584	8481267	4330-4-56	SWITCH PUSH BUTTON	40	
01-03-00585	TELEMECA	4330-4-57	SIGNAL LIGHT REF XB2 – AV.54	20	
01-03-00586	TELEMECA	4330-4-58	SIGNAL LIGHT REF XB2 – AV.67	20	
01-03-00587	TELEMECA	4330-3-105	PUSH BUTTON XB2 – AC 53	40	
01-03-00588	V – 183229	4330-3-106	SWITCH	20	
01-03-00589	8296750	4330-3-142	SWITCH	20	
01-03-00590	8423587	4522-E1-1	LOAD REGULATOR	20	
01-03-00591	8378256	4522-E-27	RHEOSTAT (1500) OHM	20	
01-03-00592	846228	4710-11-3	VALVE MAGNETIC TYP (863)	40	
01-03-00593	8250983	4710-11-4	PLUNGER ASSY. VALVE	40	
01-03-00594	8461941	4715E4-1	MAGNETIC VALVE TYPE (812 QL – 17)	40	
01-03-00595		4715-E4-4	VALVE ASSY	20	
01-03-00596	9518966	3239	SWITCH COMPRESSOR CONTROL (CCS)	40	
01-03-00597	8117872	5524-2-E1	PRESSURE SWITCH ESS,35 - PSI	40	
01-03-00598	8458724	4923-E1-S	CIRCUIT BREAKER (30A – 74V) DOUBLE	20	
01-03-00599	8448859	4923-E2-5	CIRCUIT BREAKER (50A – 74V)	20	
01-03-00600	8340775	5524-4-E1	PRESSURE SWITCH PCS	40	
01-03-00601	8424293	5524-3-E3	TEMPERATURE SWITCH (TA) – 74C°,1	40	
01-03-00602	8424295	5524-8-E3	TEMP. SWITCH (TC) (190 – 175 F°)	40	
01-03-00603	8425023	5524-1-E5	TEMP. SWITCH (ETS)	40	
01-03-00604	1109629	125-1	STARTER MOTOR (64) VOLT DC	40	
01-03-00605	1967349	125-2	ARMATURE	40	
01-03-00606	1967345	125-3	COLL ASSY. FIELD	20	
01-03-00607	8350246	5914-E1-2	SWITCH	20	
01-03-00608	8156001	5914-E7-23	LAMP SEALED BEAM – TYPE, 200W	40	
01-03-00609	8363168	3239-4	RELAY FPC - CRL	40	
01-03-00610	8314549	3239-1	CONTACTOR (FC1 – FC2)	20	
01-03-00611	8102509	5402-18	FINGER ASSY. MOVABLE CONTACT	20	
01-03-00612	8330350	5402-24	CONTACT ASSY. STATIONARY	20	
01-03-00613	8152565	5402-39	COIL (200) OHM	20	
01-03-00614	8184413	2428	COMPRESSOR FOR WATER COOLER	20	
01-03-00615	HASLER	2133-1	TACHOGRAPH RT9 (5-1547-01/ 01	20	
01-03-00616	HASLER	2133-2	TACHO METER (A16) (5-1541- 3/ 01	20	
01-03-00617	HASLER	2133-5	TRANSMITTER (60V) (58-312- 001)	20	
01-03-00618	8479400	6903-E5-1	RECTIFIER ASSY. BATTERY CHARGING	20	
01-03-00619	8485245	6903-E5-4	DIODE ASSY – SILICON NEGATIVE	20	

CODE	P.N	P.L	DESCRIPTION	QTY	
01-03-00620	8413522	6903-E5-5	DIODE ASSY – SILICON POSITIVE	20	
01-03-00621	8451653	6913-E6-1	RECTIFIER ASSY. SCR	20	
01-03-00622	8452951	6903-E6-2	DIODE SILICON SERIES	20	
01-03-00623	8452949	6903-E6-3	DIODE SILICON BRIDGE	20	
01-03-00624	9091052	4334-1	CONTROLLER MECHANISIN ASSY.	20	
01-03-00625	8296748	4334-E10-3	SWITCH ROLL – BUTTON C – CD	20	
01-03-00626	8296750	4334-E10-4	SWITCH ROLL – BUTTON – IN – OABIN - C	20	
01-03-00627	8296752	4334-E10-5	SWITCH ROLL – BUTTON – IN – C: A. B	20	
01-03-00628	8298178	4334-E10-6	SWITCH ROLL – BUTTON 2NC – ABACD	20	
01-03-00629	NIFE	9130-4	BATTERY (48) ELEMENT HI 27	20	
01-03-00630	8414678	3244-3	FUSE 800 A	40	

**ELECTRICAL SPARE PARTS FOR FRANCOR A IL
LOCOMOTIVES**

CODE	DESC RIPTONS	QTY
01-03-00631	REVERSE 48 RS 10A Assy .	100
01-03-00632	CONTACTOR (CEX) assy .	50
01-03-00633	CONTACTOR (SIA- SIB)	100
01-03-00634	CONTACTOR (CID)	50
01-03-00635	CONNECTION	100
01-03-00636	CONNECTION	100
01-03-00637	DIODE BLOCK . Gc. (VSCBA)	50
01-03-00638	CAPACITOR CAP (VSCBA)	50
01-03-00639	CONTACTOR (S2A – S2B)	100
01-03-00640	CONTACTOR (TM1 , TM2 , TM3)	150
01-03-00641	DIODE Assembly (VSRD)	50
01-03-00642	RESISTOR (RD)	50
01-03-00643	DIODE	50
01-03-00644	DIODE SUPPORT	50
01-03-00645	RESISTOR 0.34 OHM (Passenger)	15
01-03-00646	ELECTRO PNEU MA TIC CONTCTOR	50
01-03-00647	BIOW – OUT ASS.Y.	50
01-03-00648	CYLINDER ASSEMBLY .	50
01-03-00649	AUXILIARY CONTACTS	50
01-03-00650	MAGNET VALVE ASSY .	50
01-03-00651	MOVABLE CONTACT ASSY.	50
01-03-00652	AUXILIARY CONTACT ASSY .	100
01-03-00653	MAGNETIC VALVE ASSY .	100
01-03-00654	REVERSOR ASSY .	50
01-03-00655	FIXED CONTACT	300
01-03-00656	FIXED CONTACT	300
01-03-00657	FIXED CONTACT	300
01-03-00658	PISTON RING	100
01-03-00659	PISTON	100
01-03-00660	AUXILIARY CONTACT ASSY .	100
01-03-00661	MAGNETIC VALVE ASSY .	100
01-03-00662	FIXED CONTACT	200
01-03-00663	FIXED CONTACT	200
01-03-00664	FIXED CONTACT	200
01-03-00665	MOVABLE CONTACT	50
01-03-00666	PISTON RING	100
01-03-00667	PISTON	100
01-03-00668	CONTACT	200
01-03-00669	SLIP RING ASSEMBLY .	300
01-03-00670	SLIDER INSTALATION	300
01-03-00671	AXLE BEARING CAP E9U . (Passenger)	90
01-03-00672	AXLE BEARING CAP E9U .(Good)	210
01-03-00673	BALL BEARING.	50
01-03-00674	BALL BEARING.	50
01-03-00675	BRUSH – ASSY .	500
01-03-00676	OUTER BALL BEARING.	50
01-03-00677	OUTER BALL BEARING.	50
01-03-00678	IDLER.	50
01-03-00679	BRUSH ASSEMBLY.	500
01-03-00680	BALL BEARING.	50
01-03-00681	BALL BEARING.	50
01-03-00682	BRUSH.	800
01-03-00683	BALL BEARING.	50

01-03-00684	BALL BEARING	50
01-03-00685	BALL BEARING	50
01-03-00686	BRUSH	800
01-03-00687	BRUSH	800
01-03-00688	PINON 17 TEETH	90
01-03-00689	PINON 22 TEETH	210
01-03-00690	SELECTOR SWITCH 22 – LM	50
01-03-00691	SELECTOR SWITCH	100
01-03-00692	SELECTOR SWITCH	50
01-03-00693	BRUSH – HOLDER ASSY .	50
01-03-00694	BRUSH – HOLDER	300
01-03-00695	BEARING ASSY . PINON SIDE	900
01-03-00696	BEARING ASSY .	300
01-03-00697	BATTERY NI – CD – 320A/HV type KPH 320	30 set
01-03-00698	EIECTRONIC PANEL With Electronic cards Complete set	10 SETS

SPARE PARTS FOR COACHINQ STOCK

CODE	DESCRIPTION	P.N.	QTY.
	SAFTY GLASSES FOR PASSENGER COACHES TOU GHENED.		
01-03-00699	1220 × 820 × 5 MM.	STANDARD	500
01-03-00700	1020 × 820 × 5 MM.	=	150
01-03-00701	770 × 820 × 5 MM.	=	150
01-03-00702	890 × 350 × 6 MM. (For DOORS)	=	200
	LAMINATED		
01-03-00703	1220 × 820 × 808	STANDARD	500
01-03-00704	1020 × 820 × 808	=	150
01-03-00705	770 × 820 × 808	=	150
	ALL GLASSES SHALL BE STAMPED WITH (IRR) MARK , AND HAVE CORNERS ACCORDING TO DRAWING .		
01-03-00706	ARTIFITIAL LEATHER FOR SEATS BRILLIANT GREEN COLOUR	120-140 CM WIDE	10.000M.
01-03-00707	LENOL EUM FOR FLOORING 100CM WIDE BRILLIANT GREEN COLOUR	=	2000 M.
01-03-00708	FORMICA STANDARD SIZE SHEET 2-3MM THICK (8× 4)	=	1000NOS.
01-03-00709	TIPS FOR WHEEL LATHE MACHINES LEFT AND RIGHT HAND , LNUX 191940N-W15 (KC9025)		5000NOS.
01-03-00710	COMPETE ACCESS DOORS (SETOF BIGLEAF,ONE SMALL LEAF ONE DOOR SUPPORT FOR ANF COACHES , (LH)	C001.1	40
01-03-00711	COMPETE ACCESS DOORS (SETOF BIGLEAF,ONE SMALL LEAF ONE DOOR SUPPORT FOR ANF COACHES , (RH)	C001.2	40

SPARE PARTS FOR COACHES

NOTES	Q	Specification	ITEM	CODE
	20	DRAW. NO.1	EQUIPPED DOOR LEAVES (INTERCOMM – UNICATION)	01-03-00733
	40 40	DRAW. NO. 2 L. R.	ACCESS DOOR LOCK	01-03-00734
	180	DRAW . NO . 3 DRAW . NO .4	TOW PLACES SEAT (FIXED TYPE) WITH OUT TABLE	01-03-00735
	3800	DRAW . NO . 3	SEAT	01-03-00736
	3800	DRAW . NO .4	BACK REST SEAT	01-03-00737
	3800		SIDE ARM REST	01-03-00738
	1900		SMOKER CENTRAL ARM REST	01-03-00739
	1250	(2440 X 1220 X 19)MM	PROFFE PLAIN WOOD	01-03-00740
	900 450	DRAW . NO . 5 DRAW . NO . 6	WINDOW FRAM 1st- OUT SIDE 2nd- IN SIDE	01-03-00741
	300	DRAW . NO . 7	UPPER SLIDE WINDOW WITH SQUARE LOCK	01-03-00742

IRAQI REPUBLIC RAILWAYS COMPANY
Civil Engineering Requirements M.O.U. – Phase 7

1st- Track materials and track construction machines

CODE	DESCRIPTION	QTY.
01-03-00743	UIC 60 Rails without holes (ton)	24000
01-03-00744	Pandrol Fastenings for UIC-60 Rail (Set = 2 clip + 2 Shoulder + 2Insulators + 1pad) Sets	750000
01-03-00745	Strand 9.3mm dia.(7 wires) for Prestressed concrete sleepers of Tensile strength 18000 kg/cm ² (ton)	3500
01-03-00746	Dynamic track stabilizer machine (Nos)	2
01-03-00747	Powered ganger's trolley with HIAB crane of 6 ton capacity, to be used for ballasting, shunting and traction of civil engineering trains of total load 2000 tons (Nos.)	2
01-03-00748	Tamping, lining and lifting machine of two or three sleepers tamping unit, automatically operated and supplied with computerized laser surveying system. (Nos.)	2
01-03-00749	Heavy duty ballast regulator machine, to be used for construction and renewal of track. (Nos.)	2
01-03-00750	Railway crane 16 ton/3m, to be used also for shunting and traction of civil engineering trains of total load 1000 tons.(Nos.)	5
01-03-00751	Track laying machine for track elements of 30 ton in weight, 4.5m in width and 30m in length the machine to be used for track laying in mainline and switches, hoisting height 3m. All dimensions have to be within IRR loading gauge.(Nos.)	5

CODE	DESCRIPTION	Qty.
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01-03-00752	<p>BALLAST CRUSHING PLANT</p> <ul style="list-style-type: none"> * The Input is Limestone of the following specification: <ul style="list-style-type: none"> - Ultimate compression strength test not less than 600 kg/cm² - Abrasion test according to ASTM-C131-55 using LOS ANGLES Machine percentage of wear not exceed 25% by weight. * The output must be not less than 150m³/h of products size 30-60 mm. * The plant can be moved easily between sites by itself with less time and less arrangements for erection . * The plan have to be supplied with electrical generating unit its power have to be enough to operate the plant and all the accessories in the site . The plant must be arranged for 24 working hours per day (NOS) 	3
01-03-00753	Wooden sleepers (azobe, oak, kampas, beech,or iroko) for turnouts with cr`eosot treatment without adzing and drilling (NOS)	30000
01-03-00754	6-Holes fishplate with bolts and nuts for Bs90A rails	30000 pairs

B- Spare parts for Rauma Repola Railway crane type R351N
Serial No. 1975, 1978 and 1982.

CODE	DESCRIPTION	PART NUMBER	QTY.
01-03-00755	Pump	7062 033840 00	3
01-03-00756	3/2 Directional Valve	7820 482797 00	3
01-03-00757	Control valve, brake	7820 408979 00	3
01-03-00758	2/2 Directional valve	7820 364561 00	3
01-03-00759	Check valve	7062 031590 00	6
01-03-00760	Throttle valve	7063 001185 00	3
01-03-00761	Check valve	7820 469970 00	6
01-03-00762	Steered check valve	7820 364820 00	4
01-03-00763	Current secure	7820 0467713 00	4
01-03-00764	Check valve	7820 300927 00	3
01-03-00765	Check valve	7820 306351 00	3
01-03-00766	Double Relief valve	7820 306555 00	3
01-03-00767	Check valve	7820 469802 00	6
01-03-00768	Relief valve	7820 306577 00	3
01-03-00769	Check valve	7062 024550 00	4
01-03-00770	Check valve	7062 024430 00	3
01-03-00771	Valve	7063 001200 00	3
01-03-00772	Directional valve	7820 300826 02	3
01-03-00773	Solenoid valve	7820 300826 00	6
01-03-00774	Coil	7896 400832 02	3
01-03-00775	Directional valve	7820 364212 00	3
01-03-00776	Relief valve	7820 364003 02	3
01-03-00777	Check valve	7062 024410 00	3
01-03-00778	Pump	7062 033830 00	3
01-03-00779	Seal kit for rotating distributor No.112073		Sets 3
01-03-00780	Pressure relief valve	119061-16	3
01-03-00781	Magnet valve	119061-17	3
01-03-00782	Engine (SCANIA DN8)	7063 015700 00	3
01-03-00783	Oil Cooler	9396 317538 00	2
01-03-00784	Pressure switch	7074 022612 00	3
01-03-00785	Damper	7063 002640 00	6
01-03-00786	Damper	7063 010826 00	12
01-03-00787	Damper	7063 010950 00	6
01-03-00788	Damper	7063 010948 00	6
01-03-00789	Sensor	7074 021758 00	3
01-03-00790	Sensor	707402175600	3
01-03-00791	Axial piston pump	7062 033830 00	3

01-03-00792	Axial piston pump	7062 033840 00	9
01-03-00793	Torque converter	7063 035530 00	1
01-03-00794	Switch	7073 016380 00	3
01-03-00795	Switch	7074 011638 30	3
01-03-00796	Cylinder	9964 018488 00	3
01-03-00797	Remote control	7063 0003490 00	3
01-03-00798	Boom extension II	168835	3
01-03-00799	Cylinder telescoping	7813 282522 00	3
01-03-00800	Cylinder telescoping	7813 282521 00	3
01-03-00801	Cylinder telescoping	7813 282519 00	3
01-03-00802	Rope pulley	469180	25
01-03-00803	Boom extension I	9395 182895 00	3
01-03-00804	Seal kit for cylinder, Derricking No.781330629800		6 sets
01-03-00805	Check valve, steered	7820 306570 00	3
01-03-00806	Check valve, steered	7820 306263 00	3
01-03-00807	Check valve, steered	7820 464785 00	3
01-03-00808	Flow Fuse	7896 364084 00	6
01-03-00809	Group of relief and check valves	7820 364272 00	3
01-03-00810	Axial piston motor	7062 033844 00	3
01-03-00811	Cylinder	9396 306625 00	3
01-03-00812	Hydraulic motor	118976 A/22	6
01-03-00813	Seal set for supporting cylinder No.119051-15		12 set
01-03-00814	Steering check valve	119051-16	12
01-03-00815	Check valve	119051-17	3
01-03-00816	Directional valve	119051-110	3
01-03-00817	Directional valve	119051-111	3
01-03-00818	Relief valve	119051-112	3
01-03-00819	Relief valve	119051-113	3
01-03-00820	Check valve	220324-4	3
01-03-00821	Relay	119082-28	18

Spare parts for Plasser & Theurer Ballast regulator PBR-103 C-
M/C No. 278/305/306.

CODE	DESCRIPTION	PART NUMBER	QTY.
01-03-00822	Triple pump	HY832x381708R	3
01-03-00823	Valve	HY51A	3
01-03-00824	Pump	HY701.N10R	3
01-03-00825	Valve	HY56R	18
01-03-00826	Volume converter	HY157.21	3
01-03-00827	Non-return valve	HY151.0310.5	3
01-03-00828	Valve	HY24RSH	3
01-03-00829	Valve	HY24RSJ-ET	9
01-03-00830	Motor	HY913x138	6
01-03-00831	Non-return valve	HY151.13/3	3
01-03-00832	Control valve	HY16RM13	3
01-03-00833	Actuating	HY40.165	3
01-03-00834	Control valve	HY10RMJJ	3
01-03-00835	Cylinder	HZBG.063.025 .0550.1	3
01-03-00836	Motor	HY912x250	3
01-03-00837	Motor	HY912x200	3
01-03-00838	Valve	HY10RMEEEEJ	3
01-03-00839	Cylinder	HZGB.080.045 0350.1.002	12
01-03-00840	Cylinder	HZGB.100.050 0820.1.001	6
01-03-00841	Cylinder	HZGB.063.036. 0660.1.055	6
01-03-00842	Cylinder	HZGB.063.040. 0210.1.001	6
01-03-00843	Cylinder	SU2.5.1.31	3
01-03-00844	Cylinder	HZGB.063.025. 055.1	3
01-03-00845	Motor	HY900N200	3
01-03-00846	Air compressor	90102	3
01-03-00847	Valve	90200	3
01-03-00848	Brake valve	90364	3
01-03-00849	Valve	90345	3

CODE	DESCRIPTION	PART NUMBER	QTY.
01-03-00850	Valve	90251	3
01-03-00851	Valve	90250	9
01-03-00852	Switch	0344400008	6
01-03-00853	Non-return valve	90252	3
01-03-00854	Valve	90257	3
01-03-00855	Valve	90253	6
01-03-00856	Cylinder	PN2Z-G.35/12/50	6
01-03-00857	Valve	90344	3
01-03-00858	Transducer	226.801/015/001	3
01-03-00859	Spring	732073-MG650-S4	24
01-03-00860	Bearing bush	G200.11	3
01-03-00861	Valve	HY24RSH-B	3
01-03-00862	Gear box	1032.04.01.1256	3
01-03-00863	Cylinder	SU2.5.1.31	3
01-03-00864	Diesel engine	F6L-413F/ 1x300CCM	3
01-03-00865	Switch box	EL-P1.08-B5	3

D- Spare parts for Plasser & Theurer m/c Tamping machine
Type 08-32U & 08-275 No.2409 & 868.

CODE	DESCRIPTION	PART NUMBER	QTY.
01-03-00866	Spiral	DL-90.37	2
01-03-00867	Safety valve	90201	2
01-03-00868	Brake valve	90364	2
01-03-00869	Pressure regulator	90183	2
01-03-00870	Seal kit	PN2Z50DS	20
01-03-00871	Seal kit	PN1Z35DS	20
01-03-00872	Seal kit	PN2Z70DS	16
01-03-00873	Seal kit	PN2Z 100DS	16
01-03-00874	Seal kit	PN1Z 25DS	16
01-03-00875	Compressor	BS1247	4
01-03-00876	Pneum. Cyl.	PN2ZG100 25.300	4
01-03-00877	Pneum. Cyl.	PN2ZG70.20.300	4
01-03-00878	Pneum. Cyl.	PN1ZG35.12.50	4
01-03-00879	Pneum. Cyl.	PN2ZG50.16.150	4
01-03-00880	Pneum. Cyl.	PN2ZG50.16.300	4
01-03-00881	Pneum. Cyl.	PN2ZG70.20.300	4
01-03-00882	Pneum. Cyl.	PN2ZG50.16.50	4
01-03-00883	Pneum. Cyl.	PN2ZG50.16.250	4
01-03-00884	T.U.Lifting Cyl.	HZDPA.080.040 0710.1.001	4
01-03-00885	Cylinder	HZSAG250.244	1
01-03-00886	Cylinder	HZSAA205.243	1
01-03-00887	Cylinder	HZSIG63.401	1
01-03-00888	Cylinder	HZSIA63.402	1
01-03-00889	Cylinder	HZGB100.045. 0400.1	1
01-03-00890	Seal kit	UD50.100DS	12
01-03-00891	Seal kit	UD50.200DS	12
01-03-00892	Printed CCT	EK-813SV.002	10
01-03-00893	Printed CCT	EK-255LV006	1
01-03-00894	Printed CCT	EK-217LV.020	2
01-03-00895	Printed CCT	EK-275LV00	2
01-03-00896	Printed CCT	EK-715A.002	2
01-03-00897	Printed CCT	EK-277LV02	1
01-03-00898	Instrument	EL-T80.00E	4
01-03-00899	Voltmeter	EL-T439.00E	2
01-03-00900	Printed CCT	EL-T1163.00	2
01-03-00901	Printed CCT	EK-229LV.00	2

01-03-00902	Printed CCT	EK-249LV.00	1
01-03-00903	Printed C CT	EK-290LV.00	2
01-03-00904	Printed CCT	EK-79V.002	2
01-03-00905	Printed CCT	EK-16V.02B	2
01-03-00906	Printed CCT	EK-373LV-02	2
01-03-00907	Printed CCT	EK-423DV.00A	2
01-03-00908	Tamping Unit	UD10-201LI	1
01-03-00909	Tamping Unit	UD10-201RE	1
01-03-00910	Printed CCT	EK-80V.002	2
01-03-00911	PCCT	EL-T 1157-00	2
01-03-00912	Printed CCT	EL-SU-T59.00	1
01-03-00913	Printed CCT	EL-T-548-00	1
01-03-00914	Printed CCT	EL-T-998-00A	1
01-03-00915	Printed CCT	EL-T-1190-00A	2
01-03-00916	Printed CCT	EK-717A-00	1
01-03-00917	Printed CCT	EL-T895.01	1
01-03-00918	Printed CCT	EL-T1420.00	1

E- Spare parts list for Plasser & Theuerer Flash-Butt welding machine type – 355APK Serial No. 25,26,28 and 29.

CODE	DESCRIPTION	PART NUMBER	QTY.
01-03-00919	GM – Diesel Engine Model – 71237000	12V71 (71237000)	2
01-03-00920	Synchrone generator 290KVA, 1500 RPM, 400/231V 419A	Type: MSJ-228 LO4 F3B	2
01-03-00921	Powered axle complete Including all the items related to it according to drawing No.UD61.1000	UD 62.01 Gauge 1435	4
01-03-00922	Axle Spring	732073-MG650	32
01-03-00923	Shock absorber	E63.118	32
01-03-00924	Distribution gear	UD64.300 (S.T.46)	4
01-03-00925	Power shift transmission	CLARK R28462	2
01-03-00926	Hydraulic motor	4MB 038 F 8 N	2
01-03-00927	Welding machine	K355-1.01.00.000	1
01-03-00928	Solenoid	K355-01.02.100	4
01-03-00929	Slide valve	K355-01.02.200	4
01-03-00930	Reducer	K355-01.02.400	2
01-03-00931	Coil	K355-01.02.160	8
01-03-00932	Tie rod	K355-01.02.130	4
01-03-00933	Tie rod	K355-01.02.140	4
01-03-00934	Constant motor	SMF24 (S.T.7) with clutch hange K355.310.05	2
01-03-00935	Pressure relief valve	R4 VO3-533-10-A1	2
01-03-00936	Pressure relief valve	R1E02-1121-A1	2
01-03-00937	Wheel relief cylinder	UD50.100	16
01-03-00938	Support cylinder	UD50.50a	8
01-03-00939	Shear magnet	3M3	8
01-03-00940	Upset magnet	3M2	8
01-03-00941	Safety valve NHS1- 7.5 bar	I 41782/075 S.T.35	2
01-03-00942	Brake cylinder BG12” O.H.	I 47933/585	8
01-03-00943	Rectifier	75GM24J3	4
01-03-00944	Compressor	70.615.10.102	2

01-03-00945	Electric gear shift	2.348.00	8
01-03-00946	Tachograph	1302-02	4
01-03-00947	Compressor	F4/140	2
01-03-00948	Heat exchanger	HX3700	2
01-03-00949	Oil cooler	S600/9/MU1	2
01-03-00950	Pressure regulating valve	SK-37521	2
01-03-00951	Minimum speed governor	R118 (312411)	2
01-03-00952	Control box	21402	4
01-03-00953	Upset rod	K355-1.01.01.700	4
01-03-00954	Magneto starter	PME III	8
01-03-00955	Magneto starter	PME 112	8
01-03-00956	Resistor PPB-3B	PPB-313-1K _i	8
01-03-00957	Jaw for UIC60 rail	K355-26.03.26	10 set
01-03-00958	Shearing knife for UIC60 rail	K355-126.02.22	10
01-03-00959	Electro-pneumatic instrument	KEP-124E	4
01-03-00960	Elastic coupling	121.30/187.30 (0121300100080)	4
01-03-00961	Periflex disk clutch	PS 4280	4
01-03-00962	Brake block	UD212-33	20
01-03-00963	Voltage adjuster	RS5	4
01-03-00964	Control panel	K355M.05.02.000	2
01-03-00965	Starter 24V for GM diesel engine 12V-71	Series – 50MT Type – 400	2
01-03-00966	Governor for GM diesel engine 12V-71	Type 1434	2
01-03-00967	Ample dyne (VERSTARKER MOTOR)	EMY-3A	2
01-03-00968	Current conductor	K355-01.00.100	8
01-03-00969	Current conductor	K355-1.01.00.130	8

F – Spare parts for MATISA Tamping Machine Type B 242 No. 10059

Code	Description	Part Number	Qty.
01-03-00970	Clutch wheel	06.17.123.000.00	1
01-03-00971	Pneumatic valve	06.21.085.000.00	1
01-03-00972	Pneumatic valve assy.	06.21.096.000.00	1
01-03-00973	Module EPM1	06.40.096.000.00	2
01-03-00974	Washer	06.72.108.000.00	4
01-03-00975	Silent block	06.72.112.000.00	4
01-03-00976	Socket	06.72.115.000.00	32
01-03-00977	Conical socket	06.72.120.000.00	8
01-03-00978	Socket	06.72.136.000.00	2
01-03-00979	Socket	06.72.164.000.00	8
01-03-00980	Dust washer	06.72.165.000.00	8
01-03-00981	Balance beam	06.80.396.900.00	2
01-03-00982	HY Cylinder	06.81.124.100.00	1
01-03-00983	Pneumatic Cyl.	06.81.127.000.00	4
01-03-00984	Brace	06.81.140.000.00	2
01-03-00985	Fastening	06.81.157.000.00	4
01-03-00986	Rack	06.81.159.000.00	1
01-03-00987	Cylinder	06.83.100.000.00	2
01-03-00988	Screw	16.14.005.507.00	4
01-03-00989	Hock	25.28.186.000.00	2
01-03-00990	End piece	23.29.111.000.00	2
01-03-00991	Pneumatic Cyl.	25.13.119.000.00	1
01-03-00992	Steel cable	90.180.0020.000	400m
01-03-00993	Distributor	91.141.000.195.0	1
01-03-00994	Distributor	91.141.006.145.0	1
01-03-00995	Distributor	91.141.010.212.0	1
01-03-00996	Distributor	91.141.016.156.0	1
01-03-00997	Distributor	91.141.016.157.0	1
01-03-00998	Distributor	91.141.016.179.0	2
01-03-00999	Distributor	91.141.022.187.0	1
01-03-01000	Motor	91.142.057.095.0	2
01-03-01001	Motor	91.142.062.104.0	1
01-03-01002	Motor	91.142.112.104.0	2
01-03-01003	Triple pump	91.143.000.220.0	1
01-03-01004	Triple pump	91.143.039.163.0	1
01-03-01005	Twin pump	91.143.139.235.0	1
01-03-01006	Twin pump	91.143.139.236.0	1

Code	Description	Part Number	Qty.
01-03-01007	Silent Block	91.294.078.700.0	8
01-03-01008	Belt	91.373.301.120.0	4
01-03-01009	Potentiometer	91.731.049.000.0	2
01-03-01010	Potentiometer	91.731.050.000.0	2
01-03-01011	Voltmeter	91.764.021.000.0	1
01-03-01012	Voltmeter	91.764.025.000.0	1
01-03-01013	Voltmeter	91.764.102.000.0	2
01-03-01014	Voltmeter	91.764.106.000.0	1
01-03-01015	Filter element	92.138.041.501.0	10
01-03-01016	Filter element	92.138.049.501.0	10
01-03-01017	Filter element	92.138.051.501.0	10

**G – Spare parts for powered ganger’s trolley (Robel) Type 54.17
 Serial no. 54.17-4-AF12 , AF14 , AF16 , AF17 , AF18 , AF20 ,
 AF21 .
 Engine (Duetz) serial no. 6584939 , 6584942 , 6584943 , ...,
 6584948 .**

Code	Description	Part Number	Qty.
01-03-01018	Drive engine KHD F8L413	BAM-17-4-98.01	5
01-03-01019	6 – Speed transmission CLARK model R28666-15		6
01-03-01020	Torque converter CLARK model C272.5-86		6
01-03-01021	HIAB Crane model 965AW		5
01-03-01022	Brake jaw complete	4 ; 92.01	100

**IRRC – REQUIREMENT OF CARS, BUSER AND
 CONSRUTION MACHINES, THROUGH M.O.U. PHASE NO.7**

Cod	DESCRIPTION	QTY
01-03-01023	MEDIUM BUS (21 SEATS)	20
01-03-01024	LANDCERUISER (9 SEATS)	16
01-03-01025	1 TON PICK-UP CAR (DOUBLE CAINES –SEATS)	16
01-03-01026	HEAVY DUTY TRUCK(36TON)	10
01-03-01027	SHOVEL (WHEEL LOADER, BUCKET – SIZE 2.6 M ³)	3
01-03-01028	BULLDOZER (BLADE LENGTH 4m)	2
01-03-01029	GRADER (BLADE LENGTH 3.65 m)	2
01-03-01030	Tyre roller (10 tom)	1
01-03-01031	STEEL ROLLER (10 TON WITH VIBRATOR)	1