

Tender No - 12(T)12/ MR(ML) (ISN)11-12

Dt.12.9.2011

Form A

Closing Date - 21.10.2011 (12:00) Hours

Opening Date - 21.10.2011 (12:30) Hours

## Consumable Spare Parts &amp; Essential Spare Parts for

Srl No	Description	Part No / Specification	A/U	Reqd: Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
1	2	3	4	5	6	11	12	13
	<b>Mechanical</b>							
	Engine ( SACM / MGO / WARTSILA ) ( BZSHR, RVR, RVI ) (for Insein Workshop)							
1	(a)Piston Ring (Oil)	DLT - 056643	No	240				
	(b)Piston Ring (Comp:)	DLT - 014401	No	480				
	(c)Piston Ring (Fire)	DLT - 056731	No	228				
2	(a) Bearing Shell Connecting ( Std )	DLT - 55213	Pair	30				
	(b) C/P Bearing ( 1st Step ) 119.5 Ø	DLT - 7950	Pair	48				
	(c) C/P Bearing ( 2nd Step ) 119 Ø	DLT - 7951	Pair	30				
	(d) Main Bearing ( Inter ) Std:	DLT - 055214	Pair	36				
	(e) Main Bearing ( Inter ) ( 1st ) 137.5 Ø (STD Block)	DLT - 55636	Pair	18				
	(f) Main Bearing ( Inter ) ( 2nd ) 137 Ø (STD Block)	DLT - 55637	Pair	18				
	(g) Main Bearing ( Central ) Std:	DLT - 055215	Pair	18				
	(h) Main Bearing ( Central ) ( 1st ) 137.5 Ø (STD Block)	DLT - 55632	Pair	18				
	(i) Main Bearing ( Central ) ( 2nd ) 137 Ø (STD Block)	DLT - 55633	Pair	18		12 Months	3 Months from the Tender Closing date	3 Months after Contract
3	Thrust Flange	DLT - 016571	Set	4				
4	Exhaust Valve	DLT - 055651	No	48				
5	Inlet Valve	DLT - 055650	No	48				
6	Half Cones Assembly	DLT - 055648	No	192				
7	Cup Under Inlet Knuckle Joint	DLT - 002979	No	96				
8	Rocker Arm Knuckle Joint	DLT - 012068	No	120				
9	Valve Cap	DLT - 013670	No	96				
10	Simrit (Big)	DLT - 031605	No	4				
11	Simrit (Small)	DLT - 031647	No	4				
12	Pump Valve for Fuel Feed Pump	DLT - 007195	No	17				

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1	2	3	4	5	6	11	12	13
13	Spring for Fuel Feed Pump	DLT - 008501	No	17		12 Months	3 Months from the Tender Closing date	3 Months after Contract
14	Valve Adjusting Screw for Fuel Feed Pump	DLT - 007194	No	17				
15	Slide Valve Spring ( Moatti Filter Assembly)	DLT . 10720	No	3				
16	Slide Valve Piston ( Moatti Filter Assembly)	DLT . 10719	No	3				
17	Injector DLL 160-S.346	DLT - 031813	No	360				
18	Filter L 182	DLT - 031777	No	330				
19	Fuel Filter C 131	DLT - 031778	No	200				
20	Non Return Valve ( Engine Oil Line to Governor )	DLT - 036469	No	7				
21	Valve 400 D 1/2" (Japy Pump)	DLT .030410	No	7				
22	Valve 4272 12	DLT - 030969	No	7				
23	Assembly of Piston and Cylinder (Plunger and Barrel)	DLT - 32166	No	120				
24	Garrett Turbocharger Complete Set (T 18 A 87)	T 18 A 87						
	(a) Turbine Wheel & Shaft Assembly for Garrett T/C T 18 A 87	DLT - 604576	No	8				
	(b) Central Casing for T 18 A 87	DLT . 607031	No	8				
	(c) Thermal Cover for T 18 A 87	407566-000	No	8				
	(d) Compressor Wheel T 18 A 87	DLT 604578	No	8				
	(e) Kit for Turbo (Garrett) T 18 A 87	TSR 000080 1636	Kit	8				
	(f) Step Ring for T 18 A 87		No	8				
25	Garrett Turbocharger Complete Set (T V 8111)	T V 8111	Set					
	(a) Turbine Wheel & Shaft Assembly for Garrett (T V 8111)	408492-0014	No	4				
	(b) Central Casing for (T V 8111)	DLT . 611476	No	4				
	(c) Thermal Cover for (T V 8111)	407556-000	No	4				
	(d) Compressor Wheel (T V 8111)		No	4				
	(e) Kit for Turbo (Garrett) (T V 8111)	468103-0000	Kit	4				
	(f) Rear Plate (T V 8111)		No	4				
	(g) Step Ring for (T V 8111)		No	4				

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1	2	3	4	5	6	11	12	13
	<u>Mechanical</u>							
	Engine ( SACM /-MGO / WARTSILA ) ( BZSHR, RVR, RVI ) (for Ywataung Workshop)							
26	Piston Ring							
	(a) Oil Ring	DLT - 056643	No	120				
	(b) Compressing Ring	DLT - 014401	No	240				
	(c) Fire Ring	DLT - 056731	No	120				
27	Bearing Shell Connecting ( Std )	DLT - 55213	Pair	18				
28	C/P Bearing ( 1st Step ) 119.5 Ø	DLT - 7950	Pair	21				
29	C/P Bearing ( 2nd Step ) 119 Ø	DLT - 7951	Pair	36				
30	Main Bearing ( Inter ) ( 1st ) 137.5 Ø (STD Block)	DLT - 55636	Pair	20				
31	Main Bearing ( Inter ) ( 2nd ) 137 Ø (STD Block)	DLT - 55637	Pair	19				
32	Main Bearing ( Central ) ( 1st ) 137.5 Ø (STD Block)	DLT - 55632	Pair	12				
33	Main Bearing ( Central ) ( 2nd ) 137 Ø (STD Block)	DLT - 55633	Pair	21				
34	Thrust Flange	DLT - 016571	Set	10				
35	Exhaust Valve	DLT - 055651	No	24		12 Months	3 Months from the Tender Closing date	3 Months after Contract
36	Inlet Valve	DLT - 055650	No	24				
37	Simrit (Big)	DLT - 031605	No	5				
38	Simrit (Small)	DLT - 031647	No	5				
39	Assembly of Piston and Cylinder (Plunger and Barrel)	DLT - 32166	No	36				
40	Lower Valve	DLT - 32118	No	36				
41	Upper Valve	DLT - 32117	No	36				
42	Kit for Turbo (Garrett) T 18 A 87	TSR 000080 1636	Kit	20				
43	Card PS 13.01	504 530 90 91/89	No	2				
44	Charging Resistor	CZ 2, 0.10 Ohm 100A	No	8				
	<u>Mechanical</u>							
	Basic Engine (Caterpillar 3500 Family) (For Insein Workshop)							
45	Gasket ( Oil Pan )	7 E 2632	No	4				
46	Gasket ( Oil Pan )	1 N 3182	No	4				
47	Kit Gasket	1643615	Set	4				

Sr No	Description	Part No / Specification	A/U	Reqd: Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
1	2	3	4	5	6	11	12	13
48	Lock Retainer for Head GP [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	197-7055	No	128				
49	Gasket Kit	1149435	Set	4				
50	Rear Structure	6 V 7262	Set	4				
51	Front Structure	8 T 8189	No	5				
52	Unit Injector	4 P 9077	No	32				
53	Unit Injector	4 P 9076	No	12				
54	Bearing ( Main )	1050253 / 1496031	Pair	27				
55	Plate Thrust	7 C 6209	Set	6				
56	Bearing Sleeve [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	1181655	No	16				
57	(a) Ring Piston ( Top )	8 N 1233	No	160				
	(b) Ring Piston ( Intermediate )	8 N 7810	No	160				
	(c) Ring Piston ( Oil )	7 W 2221	No	160				
58	(a) Ring Piston ( Top ) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	214. 6066	No	160		12 Months	3 Months from the Tender Closing date	3 Months after Contract
	(b) Ring Piston ( Intermediate ) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	144. 5695	No	160				
	(c) Ring Piston ( Oil ) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	223. 6361	No	160				
59	Kit Gasket	8 T 7883	Set	10				
60	(a) Bearing ( Connecting ) (STD)	7E 7997/107-7380	Set	80				
	(b) Bearing ( Main ) ( 1.27 mm Undersize ID )	1050255	Set	18				
	(c) Bearing ( Connecting ) ( 1.27 mm Undersize ID )	107-7332	Set	32				
61	Piston [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	314. 5005 (233-2431)	No	8				
62	Rod As [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	1440725	No	4				
63	Gasket Head	1106991	No	80				
64	Gasket	1445692	No	80				
65	Seal GP Crankshaft	613810/ 1138433	No	5				



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1	2	3	4	5	6	11	12	13
66	Seal GP Crankshaft	613809/ 1138432	No	5				
67	Valve Exhaust & Inlet	7 E 4609	No	8				
68	Guide Valve	9 Y 1847	No	8				
69	Valve Seat (Exhaust)	1 W 1801	No	12				
70	Valve Seat (Inlet)	7 E 5362	No	12				
71	Guide Valve (Exhaust) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	1973-6995	No	64				
72	Guide Valve (Inlet) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	133-9306	No	64				
73	Insert- Valve Seat (Exhaust) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	130-2608	No	64				
74	Insert- Valve Seat (Inlet) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	130-2607	No	64				
75	Valve (Exhaust) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	194-4897	No	64		12 Months	3 Months from the Tender Closing date	3 Months after Contract
76	Valve (Inlet) [ for Engine Sr No. 27 Z 00868, 27 Z 00869 ]	210-2542	No	64				
77	Kit Gasket	9 X 8298	No	48				
78	Kit Gasket for Mainfold	9 X 8309	No	4				
79	Kit Gasket for Central & Lower Structure	8 T 4862	No	4				
80	Kit Gasket for Rear Structure	8 T 4864	No	4				
81	Filter Lube Oil	1 R 0726/ 4 P 2839	No	120				
82	Element (Fuel)	1 R 0718	No	120				
83	Spring Lift Guide	7 N 4782	No	48				
84	Bolt Connecting Rod	7 N 2405	Pair	32				
85	Rod - Valve Push	4 W 6682	No	48				
86	Bridge As	8 N 7292	No	32				
87	Socket (Rocker Arm)	9 Y 1770	No	48				

Srl No	Description	Part No / Specification	A/U	Reqd: Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
						1	12	13
1	2	3	4	5	6			
88	Bridge As (Inlet) ( For Engine Srl No. 27 Z 00868 ~ 27 Z 00869	265-7537	No	32				
89	Bridge As (Exhaust) ( For Engine Srl No. 27 Z 00868 ~ 27 Z 00869	265-7538	No	32				
90	Arm As Rocker (Exhaust & Inlet) ( For Engine Srl No: 27 Z 00868 ~ 27 Z 00869	230-2621	No	32				
91	RockeArm As( Injector ) ( For Engine Srl No. 27 Z 00868 ~ 27 Z 00869	230-2622	No	32				
	<u>Cooling System</u>							
92	Kit Gasket	8 T 4866	No	4				
93	Repair Kit	8 C 4409	Set	3				
94	Gasket	8 N 0392	No	3				
95	Gasket Kit	1722299	No	3		12 Months	3 Months from the Tender Closing date	3 Months after Contract
96	Water Pump Thrust Washer	7 N 4758	No	3				
97	Shaft As; Pump Drive	2 W 9723	No	2				
98	Impeller Pump	2 W 9727	No	2				
	<u>Lubricating System</u>							
99	Valve By Pass	2 W 1969	No	2				
100	Kit Relief Valve	2 W 3584	No	4				
101	Plunger As	7 N 7697	No	4				
102	Shaft As Pump	2 W 5479	No	2				
103	Spring ( Flow Piston )	2 W 1635	No	4				
104	Spool Pressure Relief for Oil Pump	7 N 5449	No	4				

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1	2	3	4	5	6			
	Air Inlet & Exhaust							
105	Turbocharger GP (CAT 3516) (Spare)	7 E 0673/83-8807						
	(a) Kit Cartridge Repair (J)	4 W 5736	Set	4				
	(b) Kit Turbo Repair (L)	7 E 0692	Set	4				
	(d) Turbine Shaft & Wheel As;	7 E 0697	No	2				
	(c) Wheel Compressor	2 W 1298	No	2				
	(d) Shroud Heat	2 W 1350	No	2				
	(e) Nozzle Ring	7 W 9932	No	2				
	(f) Ring Thrust	2 W 1250	No	2				
	(g) Ring Retaining	3 J 2557	No	2				
	(h) Diffuser		No	2				
106	Turbocharger GP (CAT 3512) (Spare)	102-0297						
	(a) Shaft As Turbine	4 W 1223	No	2				
	(b) Wheel Compressor	9 Y 1493	Set	2				
	(c) Spacer Thrust	1 N 3505	Set	2		12 Months	3 Months from the Tender Closing date	3 Months after Contract
	(d) Backplate As	7 W 2300	No	2				
	(e) Bearing Thrust	7 W 0130	No	2				
	(f) Stud Drive	7 W 0131	No	2				
	(g) Housing As Bearing	4 W 1224	No	2				
	(h) Pin Groove	4 M 6646	No	4				
	(i) Shroud	4 W 1329	No	2				
	(j) Collar Thrust	1 N 3365	No	2				
	(k) Bolt Self Locking	2 J 3118	No	40				
	(l) Kit Bearing	1 N 3593	No	2				
	(m) Kit Cartridge	7 W 4874	No	4				
107	Core As After Cooler	7 W 5455	No	2				
108	Kit Gasket	8 T 8188	Set	4				
109	Turbocharger Install Kit	6 V 7258	No	2				
110	Bolt (High Temp;)	0 S 1594	No	16				

Srl No	Description	Part No / Specification	A/U	Reqd: Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
						11	12	3
1	2	3	4	5	6			
111	Boit (High Temp;)	6 V 4606	No	80				
112	Lock Nut (High Temp;)	6 V 4605	No	80				
113	Washer Hard (High Temp: )	5 P 8247	No	256				
	<u>Fuel System</u>							
114	Plunger Regulating Valve	1 W 7535	No	4				
115	Spring	9 N 4053	No	4				
116	Ball	4 B 9782	No	4				
117	Spring	9 N 1752	No	4				
118	Gasket Kit	8 C 4410	Set	2				
119	Kit Gasket	6 V 9897	Set	12				
120	Unit Injector Special Bolt	5 8160	No	64				
121	Poppet Valve	1 W 4007	No	5				
122	Spring Valve	1 W 4655	No	5				
123	Gear As; Idler	1 W 4003	No	5				
124	Shaft As; Drive	1 W 4004	No	5				
125	Valve AS;	1 W 4009	No	5				
126	Coupling Drive	1 N 4636	No	5				
	<u>Engine Parts ( Pielstick 12 PA 4 VG 185)</u>							
127	Sealing Ring ( Large )	99 602 203203	No	2				
128	Sealing Ring ( Small )	99 602 202504	No	2				
129	Water Pump Impeller	24 437 805100	No	4				
130	Driving Axle for Water Pump	24 037 002400	No	4				
131	Lube Oil Regulating Valve	24 451 906100	No	2				
132	Bearing Shell ( Main )	25 004 800100	Pair	7				
133	Connecting Bearing	24 412 010200	Pair	24				
134	(a)Piston Ring (Top)	24 014 041600	No	60				
	(b)Piston Ring (Compression)	24 014 010800	No	120				
	(c)Oil Scraper Ring	24 414 002200	No	120				
						12 Months	3 Months from the Tender Closing date	3 Months after Contract



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						11	12	13
1	2	3	4	5	6			
135	Thrust Flange	24 405 010000	No	2				
136	Thermostatic Element ( Oil ) 63 Degree C	99 705 822510	No	4				
137	Screw for Half Jaw	00 002 100409	No	12				
138	Inlet Valve	24 018 03500	No	24				
139	Exhaust Valve	74 018 011800	No	24				
140	Sprint Coller	24 018 032700	No	96				
141	Half Shell	99 526 012009	Set	96				
142	Intake Valve Seat	24 018 030300	No	48				
143	Exhaust Valve Seat	24 18 030409	No	48				
144	Bush	00 660 243361	No	1				
145	Piston for Regulating Valve	24 051 010200	No	2				
146	Shim	24 051 010600	No	1				
147	Injector (Nozzle Tip)	99 850 556802	No	120				
148	Plunger & Barrel	63 418 489010	No	36				
149	Upper Valve	63 417 412009	No	36				
150	Lower Valve	63 417 412008	No	36				
151	(a) Main Bearing ( First Step )	74 404 700300	No	12				
	(b) Connecting Bearing ( First Step )	74 412 700100	No	12				
152	Non Return Valve	99 652 405018	No	5				
153	Valve ( Fuel Piping ) (Fuel Non-return Valve)	99 655 406011	No	5				
154	Valve ( Oil Piping )	99 650 406530	No	5				
155	Valve ( Oil Piping ) (Lube Oil Non-return Valve)	99 652 405018	No	5				
	Engine (Alco -251 D 6 Cylinder)							
	Piston , Connecting Rod & Cylinder Liner							
156	Cylinder Liner (Chrome Plated)	10120579	No	6				
157	Cylinder Liner (Open Grain)	10124603	No	6				
158	Gasket , ( Top ) , Cylinder Liner to Block	10170560	No	48				
159	Gasket , ( Centre, Buttom ) , Cylinder Liner to Block	10170595	No	96				
						12 Months	3 Months from the Tender Closing date	3 Months after Contract

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						11	12	13
1	2	3	4	5	6			
	<u>Cylinder Head With Valve</u>							
160	Push Rod Sleeve	10230397	No	36				
161	Grommet, Push Rod Sleeve	10170704	No	36				
162	Gasket, Elbow to Cylinder Head for Prior Design Solid Elbow	10170510	No	48				
163	Gasket, Elbow to Cylinder Block for Prior Design Solid Elbow	10170522	No	48				
164	Gasket, Valve Lever Casing to Cylinder Head	10170686	No	48				
165	Gasket, at Pipes and Elbow Connectors	10170534	No	96				
166	Gasket, Manifold to Cylinder Head	10170479	No	96				
	<u>Cam Shaft with Gear</u>							
167	Bushing in Block for Camshaft	10150080	No	7				
	<u>Water Pump</u>							
168	Oil Seal	10170807	No	8		12 Months	3 Months from the Tender Closing date	3 Months after Contract
169	Water Seal Unit	10170844	No	8				
170	Oil Slinger Assembly	10070450	No	8				
171	Sleeve, Tapper Shaft to Impeller	10210866	No	4				
	<u>Nozzle And Holder, Fuel Injection</u>							
172	Spring for Fuel Injector	10244890	No	24				
173	Spindle With Guide Bush	10244967	No	24				
174	Intermediate Disc	10244868	No	24				
175	Nozzle For 251 - D 6 Cylinder Engine	10050711	No	12				
	<u>Pump, Fuel Injection</u>							
176	Delivery Valve Spring	10330173	No	12				
177	Delivery Valve For 251 - D	10330150	No	12				

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1	2	3	4	5	6	11	12	13
	Fuel Pump Support , Cross Head , Lifter End Covers							
178	Fuel Pump Cross Head Lifter Assembly	10050747	No	6				
179	Cam Roller	10211226	No	36				
180	Cam Roller Pin	10211172 / 10050759	No	36				
181	Plunger Guide Cup	10330100	No	12				
182	Pump Complete, Fuel Injection( Fuel Booster) with Motor	11434417 12102052	Set	1				
183	Pin with Eccentric Assy;	10051193	Set	1				
184	Eccentric	10051193	Set	1				
185	Fulcurm Pin for Fuel Pump Lifter	10050760	No	24				
186	Fuel Pump Crosshead Cam Roller	10211767	No	24				
187	Fulqurm Pin for Push Rod Lifter	10210751	No	24				
188	Fuel Pump Crosshead	10210088	No	24				
189	Adjusting Screw Seat	10211159	No	24		12 Months	3 Months from the Tender Closing date	3 Months after Contract
190	Snap Ring	15345142	No	24				
191	Nut Special , Adjusting Screw	10220070	No	24				
	<u>Fuel Oil Line</u>							
192	Element Filter ( Primary )	10051557	No	50				
193	Element Filter ( Secondary )	10051521	No	50				
	<u>Lubricating Oil Line</u>							
194	Element Filter, Lube Oil	11440259	No	200				
	<u>Drive &amp; Linkage Governar</u>							
195	Bearing, needle, Pin to Bearing Support & in Lever	10150286	NO	20				
	<u>DAS/M</u>							
196	Carden Shaft (Engine to Bevel Gear Box)	For 1200 HP Loco	No	4				
197	Carden Shaft (Bevel Gear to Main Fan)	For 1200 HP Loco	No	4				
198	Carden Shaft (Bevel Gear to Aux:)	For 1200 HP Loco	No	4				



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1	2	3	4	5	6	11	12	13
199	Air Reducing Valve	DTR.002764005-A	No	4				
200	DE (DIF) Valve		No	2				
201	DE (PI) Valve	DTR.0000129847-A	No	2				
202	C 3 W Valve (Distribution Valve)	DTR.0024657.AAE.A	No	1				
203	Boiler Fan (Aux:Room) Drive Rope. (Silk Rope)		No	2				
204	Check Valve (20 mm)		No	4				
205	Check Valve (25 mm)		No	2				
206	Check Valve (38 mm)		No	2				
207	QPN Valve		No	2				
208	Emergency Valve (Inside Parts) (Repair Kit)	DTR.0000037598	Set	4				
209	VA1B Control Valve (Inside Parts) Repair Kit (India Loco)		Set	1				
210	VA1B Control Valve	1136150	No	1				
211	C <sub>2</sub> Relay Valve	11360136	No	1		12 Months	3 Months from the Tender Closing date	3 Months after Contract
212	SA9 (Ind Brake Valve)	11360021	No	1				
213	A9 (Auto Brake Valve)	11360010	No	1				
214	JZ-6 (Brake Valve)		Set	2				
215	Vacuum Control Valve		No	1				
216	Application Valve		No	1				
217	Proportional Valve		No	1				
218	Distributing Valve		No	1				
219	Air Relay Valve		No	4				
220	Check Valve		No	4				
221	Double Check Valve		No	10				
222	Thermostatic Control Valve (Main Fan Rpm Control Valve)		No	2				
223	Safety Valve (Main Fan Drive Hydro Pump Oil Pressure Control Valve)		No	2				



Sri No	Description	Part No / Specification	A/U	Reqd Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
						11	12	13
1	2	3	4	5	6			
	Bogie							
224	Outer Coil Spring (Alstom)	TSR.261194	No	12				
225	Inner Coil Spring (Alstom)	TSR.261195	No	12				
226	Outer Coil Spring (Dalian)	CODE No. 999803000200	No	12				
227	Inner Coil Spring (Dalian)	CODE No. 999803000103	No	12				
228	Outer Coil Spring (Sifang)		No	12				
229	Inner Coil Spring (Sifang)		No	12				
230	Teflon Block (Traction Block) (Dalian)	CODE No. 999809000405	No	12				
231	Teflon Block (Traction Block) (Alstom)	DTR. 0000041368/A	No	12				
232	Axle Roller Bearing	SKF 229750 C <sub>3</sub>	No	24				
233	Needle Bearing with Washer (3x 27 x 44) mm		No	18				
234	Needle Bearing (A x 40 x 60) (7109090008)	DTR. 0000079616	No	18				
235	Guard Plate (CP - 40 - 60) (7153520008)	DTR. 0000079222	No	18				
236	Needle Bearing (A x 15 x 28) (7152650008)	DTR.002346507	No	18				
237	Guard Plate (CP - 15 - 28) (7154280008)	DTR.0023419607	No	18				
238	Silent Block Link (Suspension Bar) (Alstom)	DTR.0000029725/A	No	12				
239	Axle Box Pull Rod Assembly (Dalian)	CODE No. 9998030003	No	12				
	DAS/E							
240	Flexible Cable Wire 1.5 mm <sup>2</sup> x 4 Core	NY-500-SO-4x1.5 Sq.mm3-MF.F 63-296-PRYSMIAN	Mtr	100				
241	Mors Relay	1600 Ohm- (48-72-90) VDC (B 400-72 BG)	No	40				
	DPMS							
242	Coupling Wheel	5-1501-117	No	10				
243	Coupling Wheel	5-1501-114	No	10				
244	Ball Point Carrier	5-1551-112/01	No	5				
245	Escapement	5-1503-154	No	5				
246	Escapement Wheel Assembly	5-1501-138	No	5				

12 Months

3 Months from the Tender Closing date

3 Months after Contract

Srl No	Description	Part No / Specification	A/U	Reqd Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
1	2	3	4	5	6			
247	Gear Wheel Z 40	5-1501-685	No	5				
248	Roller Counter	5-1502-200/01	No	5				
249	Diagram Roller Assembly	5-1555-157	No	5				
250	Plate Combined	5-1501-160	No	5				
251	Cam Disc	5-1501-111	No	5				
252	Contact Holder	5-8311-110	No	5				
253	Carbon Holder	5-8311-108	No	5				
254	Collector Comb	5-8312-104	No	10				
255	Water Pressostat XMGB (002) PSE	DTR - 0025-714-105	No	10				
256	Oil Pressostat XMGB (003) PSH	DTR - 0025-714-106	No	10				
257	Water Thermostat TSE	Type 1425	No	5				
258	Compressor Regulation XMGB (008) RGCP	DTR - 0025-714-107	No	5		12 Months	3 Months from the Tender Closing date	3 Months after Contract
259	Mahostat XMGB (014)	TRK 54394 8301	No	5				
260	Rheostat Rh <sub>1</sub> 1 KW	RT 25L AS 1000 W	No	10				
261	Rheostat Rh <sub>3</sub> 330 W	RT 25L AS 33 W	No	5				
262	Rheostat Rh <sub>3</sub> 470 W	RT 25L AS 470 W	No	5				
263	Rheostat Rh <sub>3</sub> 100 W	RT 25L AS 100 W	No	5				
264	Resistor R <sub>5</sub>	RA 113 x 70 AN 1500 W	No	5				
265	Resistor R <sub>4</sub>	RA 16 x 94 AN 220 W	No	5				
266	Zener Diode	1 N 3325 B	No	5				
267	Zener Diode	N 1341 B	No	5				
268	Receiver Motor for Speedo Meter	S - 8321 001	No	3				

Srl No	Description	Part No / Specification	A/U	Reqd; Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
1	2	3	4	5	6	11	12	13
	Consumable Spare Parts for DEL (Foreign) (ISN)							
	Mechanical							
	Engine (SACM / MGO / WARTSILA) ( BZSHR, RVR, RVI )							
1	(a)Piston Ring (Oil)	DLT - 056643	No	60				
	(b)Piston Ring (Comp:)	DLT - 014401	No	120				
	(c)Piston Ring (Fire)	DLT - 056731	No	60				
2	Cup Under Inlet Knuckle Joint	DLT - 002979	No	96				
3	Valve Cap	DLT - 013670	No	36				
4	Injector DLL 160-S.346	DLT - 031813	No	240				
5	Filter L 182	DLT - 031777	No	1,500				
6	Fuel Filter C 131	DLT - 031778	No	1,500				
7	Garrett Turbocharger Complete Set(T 18A 87)	T 18A 87						
	(a)Turbine Wheel & Shaft Assembly for Garrett T/C, T 18 A 87	DLT - 604576	No	4				
	(b)Central Casing for T 18 A 87	DLT . 607031	No	4		12 Months	3 Months from the Tender Closing date	3 Months after Contract
	(c)Thermal Cover for T 18 A 87	407566-000	No	4				
	(d)Compressor Wheel T 18 A 87	DLT 604578	No	4				
	(e)Kit for Turbo (Garrett) T 18 A 87	TSR 000080 1636	Kit	4				
	(f)Step Ring for T 18 A 87		No	4				
	Mechanical							
	Basic Engine (Caterpillar 3500 Family)							
8	Gasket Head	1106991	No	40				
9	Gasket	1445692	No	40				
10	Filter Lube Oil	1 R 0726/ 4 P 2839	No	1000				
11	Element (Fuel)	1 R 0718	No	1500				
	Air Inlet & Exhaust							
12	Turbocharger GP (CAT 3516)(Spare)							
	(a)Kit Cartridge Repair (J)	4 W 5736	Set	4				
	(b)Kit Turbo Repair (L)	7 E 0692	Set	4				

Srl No	Description	Part No / Specification	A/U	Reqd Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
1	2	3	4	5	6			
	Engine Parts ( Pielstick 12 PA 4 VG 185)							
13	Water Pump Impeller	24 437 805100	No	4				
14	Driving Axle for Water Pump	24 037 002400	No	4				
15	(a) Piston Ring (Top)	24 014 041600	No	24				
	(b) Piston Ring (Compression)	24 014 010600	No	48				
	(c) Oil Scraper Ring	24 414 002200	No	48				
16	Injector (Nozzle Tip)	99 850 555802	No	180				
17	Plunger & Barrel	63 418 489010	No	24				
18	Upper Valve	63 417 412009	No	24				
19	Lower Valve	63 417 412008	No	24				
20	Non Return Valve	99 652 405018	No	2				
21	Valve ( Fuel Piping ) ( Fuel Non-return Valve)	99 655 406011	No	2				
	Cylinder Head With Valve							
22	Push Rod Sleeve	10230397	No	36		12 Months	3 Months from the Tender Closing date	3 Months after Contract
23	Grammet Push Rod Sleeve	10170704	No	36				
24	Gasket, at Pipes and Elbow Connectors	10170534	No	60				
25	Gasket, Manifold to Cylinder Head	10170479	No	60				
	Water Pump							
26	Oil Seal	10170807	No	22				
27	Water Seal Unit	10170844	No	22				
28	Oil Slinger Assembly	10070450	No	22				
29	Sieve, Tapper Shaft to Impeller	10210866	No	4				
	Fuel Oil Line							
30	Element Filter ( Primary )	10051557	No	200				
31	Element Filter ( Secondary )	10051521	No	200				



Srl No	Description	Part No / Specification	A/U	Reqd Qty	Part No & Specification	Warranty Period	Price Validity	Delivery
1	2	3	4	5	6	11	12	13
	<u>Lubricating Oil Line</u>							
32	Element Filter, Lube Oil	11440259	No	1300				
	<u>Drive &amp; Linkage Governor</u>							
33	Bearing, needle, Pin to Bearing Support & in Lever	10150286	NO	46				
	12 V. 128 ZC Diesel Engine							
34	Deposable Filter	6.0541.29.7.0056	No	24		12 Months	3 Months from the Tender Closing date	3 Months after Contract
35	Fuel Filter	6.0541.02.2.0058	No	24				
36	Nozzle Holder with Multi Hole	6.0530.20.0.0066	No	24				
37	Packing Ring	6.234.0.855.004.4	No	48				
38	Round Packing Ring	6.0493.10.4.0203	No	48				