

ATTACHMENT MINUTES OF PRE-BID MEETING AND ADDENDUM PROCUREMENT HEAVY MAINTENANCE KIT FOR EMU 205 & 203 SERIES

Number : 011/LL/SAR/KCI/I/2019, date Jan, 04th 20193. Bidding Document : 011/LL/SAR/KCI/ RKS/XII/2018, date Dec 21th 2018, Section VI, Schedule of Supply, B. Term of Reference, IV. List Of Spare parts Needs

TERMIN 1				TERMIN 2			
The goods will be delivered till the end of September 2019 include minutes of testing and COA term I				The goods will be delivered till the end of December 2019 include minutes of testing and COA term II			
Diserahkan selambat – lambatnya akhir bulan September 2019 termasuk pengujian sampai terbitnya BAST termin I				Diserahkan selambat – lambatnya akhir bulan Desember 2019 termasuk pengujian sampai terbitnya BAST termin II			
PARTS FOR HEAVY MAINTENANCE JR 205				PARTS FOR HEAVY MAINTENANCE JR 205			
1	J Relay valve Maintenance KIT	38	Kit	1	Shock absorber (RD16) Tight-lock Coupler	2	Pcs
2	E8.5764 step relay valve Maintenance KIT	18	Kit	2	Return spring for Tight-lock Coupler (Front side of Tc)	5	Pcs
3	Terminal block assembly for E8.5764 step relay valve	34	Pcs	3	Support of Packing rubber holder (Large) for Tight-lock Coupler (Front side of Tc)	8	Pcs
4	F variable load valve Maintenance KIT	7	Kit	4	Lock hanger for Tight-lock Coupler (Front side of Tc)	5	Pcs
5	Electro-pneumatic change valve(EPL) Maintenance KIT 10 ITEM	38	Kit	5	Packing rubber holder (Large) for Tight-lock Coupler (Front side of Tc)	8	Pcs
6	Supply valve shim Electro-pneumatic change valve(EPL)	48	Pcs	6	Spring for packing rubber holder Tight-lock Coupler (Rear side of Tc, T, T', M, M')	21	Pcs
7	B7 Pressure regulating valve Maintenance KIT	54	Kit	7	Bushing with flange Tight-lock Coupler (Rear side of Tc, T, T', M, M')	50	Pcs
8	Valve seat for 3/8D Double check valve	48	Pcs	8	Packing (large) for EC packing rubber holder Tight-lock Coupler (Rear side of Tc, T, T', M, M')	21	Pcs
9	Guide valve for 3/8D Double check valve	48	Pcs	9	Packing rubber (Large) Tight-lock Coupler (Rear side of Tc, T, T', M, M')	21	Pcs
10	Shim for 3/8D Double check valve	48	Pcs	10	Shock absorber (RD16) Tight-lock Coupler (Rear side of Tc, T, T', M, M')	21	Pcs
11	3/8 cut-off cock	38	Pcs	11	Split cotter Tight-lock Coupler (Rear side of Tc, T, T', M, M')	42	Pcs
12	VD1A variable load valve Maintenance KIT	17	Kit	12	Return spring for Tight-lock Coupler (Rear side of Tc, T, T', M, M')	77	Pcs
13	VD3A variable load valve Maintenance KIT	11	Kit	13	Lock hanger for Tight-lock Coupler (Rear side of Tc, T, T', M, M')	77	Pcs
14	Tight-lock Coupler (Front side of Tc) Maintenance KIT 5 ITEM	5	Kit	14	Coupler lock for Tight-lock Coupler (Rear side of Tc, T, T', M, M')	69	Pcs
15	Semi-Permanent Coupler Maintenance KIT 2 ITEM	37	Kit	15	Shock absorber (RD16)	13	pcs

16	Air compressor C2000 Maintenance KIT 27 ITEM	7	Kit	16	Differential pressure valve DP5 Maintenance KIT	12	Kit
17	Piston pin (low pressure) for Air compressor C2000	11	Pcs	17	Snap ring dp5 for Differential pressure valve DP5	24	Pcs
18	Connecting rod assembly for Air compressor C2000	16	Pcs	18	Leveling valve LV4 Maintenance KIT 17 ITEM	64	Kit
19	Piston (low pressure) (four rings) for Air compressor C2000	11	Pcs	19	Motor Generator Maintenance KIT	7	Kit
20	Piston (high pressure) (four rings) for Air compressor C2000	6	Pcs	20	Traction Motor Maintenance KIT 10 ITEM	56	Kit
21	Plate valve (outer) for Air compressor C2000	57	Pcs	21	Special washer for flexible plate forTraction Motor	768	Pcs
22	Plate valve (inner) for Air compressor C2000	57	Pcs	22	Packing for air duct for Traction Motor	192	Pcs
23	Plate valve spring (outer) for Air compressor C2000	57	Pcs	23	Key for torsion axis forTraction Motor	152	Pcs
24	Plate valve spring (inner) for Air compressor C2000	25	Pcs	24	Check nut forTraction Motor	192	Pcs
25	Buffer spring for Air compressor C2000	57	Pcs	25	Washer M10 Traction Motor No 1 forTraction Motor	768	Pcs
26	Stopper plate for Air compressor C2000	57	Pcs	26	Washer M10 Traction Motor No 2 forTraction Motor	768	Pcs
27	Crown nut for Air compressor C2000	36	Pcs	27	Washer M10 chromium-plated forTraction Motor	960	Pcs
28	Special flat head bolt for Air compressor C2000	36	Pcs	28	Spring washer M10 chromium-plated forTraction Motor	768	Pcs
29	Rubber cushion assembly for Air compressor C2000	76	Pcs	29	Reamer bolt 20φ Traction Motor forTraction Motor	768	Pcs
30	Shim Air compressor C2000 No 1 for Air compressor C2000	15	Pcs	30	Key for coupling forTraction Motor	152	Pcs
31	Shim Air compressor C2000 No 2 for Air compressor C2000	15	Pcs	31	Spring washer M12 Traction Motor forTraction Motor	384	Pcs
32	Spring Air compressor C2000 for Air compressor C2000	6	Pcs	32	Bolt with hexagon ditch M10 forTraction Motor	384	Pcs
33	Hydraulic valve for Air compressor C2000	6	Pcs	33	Bolt M10 Traction Motor No 2 forTraction Motor	768	Pcs
34	Bearing NU for Air compressor C2000	19	Pcs	34	Cushion rubber(M) forTraction Motor	192	Pcs
35	Bearing NH (motor side) for Air compressor C2000	19	Pcs	35	Bolt M8 forTraction Motor	2304	Pcs
36	T-bolt Air compressor C2000 No 2 for Air compressor C2000	48	Pcs	36	Reamer bolt 16φ forTraction Motor	384	Pcs

37	Outer fan Air compressor C2000 for Air compressor C2000	118	Pcs	37	Shaft joint forTraction Motor	29	Pcs
38	Wave washer for Air compressor C2000	19	Pcs	38	Torsion shaft forTraction Motor	29	Pcs
39	Packing for terminal box for Air compressor C2000	14	Pcs	39	Plate coupling forTraction Motor	384	Pcs
40	Metal bearing (upper) for Air compressor C2000	19	Pcs	40	Trailing bogie (except front bogie of Tc) Maintenance KIT 18 Item	16	Kit
41	Metal bearing (lower) for Air compressor C2000	12	Pcs	41	Bellows Bogie Common Parts	144	Pcs
42	Low Pressure Cylinder for Air compressor C2000	35	Pcs	42	Net canvas Bogie Common Parts	144	Pcs
43	High Pressure Cylinder for Air compressor C2000	46	Pcs	43	Rubber- sliding plate Bogie Common Parts	144	Pcs
44	Driving Gear Oil Pump for Air compressor C2000	79	Pcs	44	Rubber- under plate Bogie Common Parts	144	Pcs
45	Driven Gear Oil Pump for Air compressor C2000	11	Pcs	45	Trailing bogie for 6 doors car (TR246E) Maintenance KIT	8	Kit
46	Dehumidifier D20A Maintenance KIT	4	Pcs	46	Wheel Set for Motor Car Maintenance KIT 18 ITEM	56	Kit
47	Diode Eksitasi for Motor Generator	23	Kit	47	Pinion assembly for Wheel Set Motor Car	16	Pcs
48	Motor bogie Maintenance KIT 24 ITEM	20	Pcs	48	S contactor RL735 No 1	7	Pcs
49	Urethane bushing (brake shoe hanger holder) for Motor bogie	1216	Kit	49	S contactor RL735 No 2	7	Pcs
50	Urethane bushing (brake shoe hanger) 1 for Motor bogie	1216	Pcs	50	S relay RL782	36	Pcs
51	Urethane bushing (brake shoe hanger) 2 for Motor bogie	1216	Pcs	51	Air conditioner AU722 for 6 doors car Maintenance KIT	4	Kit
52	Urethane bushing (brake push rod) for Motor bogie	608	Pcs	52	Door engine TK112 Maintenance KIT	48	Kit
53	Urethane bushing (connecting beam of brake push rod) for Motor bogie	304	Pcs	53	Gear box cover for Door engine TK112	48	Pcs
54	Steel bushing (brake lever) for Motor bogie	304	Pcs	54	DP-45RS Piston rod CP for Door engine TK112	48	Pcs
55	Urethane bushing (brake lever) 1 for Motor bogie	304	Pcs	55	Rack (for TK4K) for Door engine TK4	226	Pcs
56	Urethane bushing (brake lever) 2 for Motor bogie	304	Pcs	56	Rack (for TK4L) for Door engine TK4	18	Pcs
57	Urethane bushing (brake lever) 3 for Motor bogie	304	Pcs	57	Valve body (M) No 1 for Door engine TK4	281	Pcs

58	Bushing (brake shoe head) for Motor bogie	608	Pcs	58	Valve body (M) No 2 for Door engine TK4	281	Pcs
59	Urethane bushing (lateral damper) for Motor bogie	152	Pcs	59	Ball valve for Door engine TK4	384	Pcs
60	Urethane bushing (lateral damper) for Trailing bogie (front bogie of Tc)	12	Pcs	60	Door roller Side-sliding door Maintenance	688	Pcs
61	Urethane bushing (brake lever holder) for Trailing bogie (front bogie of Tc)	48	Pcs	61	Pantograph PS33E Maintenance KIT	4	Kit
62	Urethane bushing (brake lever) 1 for Trailing bogie (front bogie of Tc)	48	Pcs	62	Electric Coupler Maintenance KIT O ring for KE5	150	Pcs
63	Urethane bushing (brake lever) 2 for Trailing bogie (front bogie of Tc)	48	Pcs	63	Electric Coupler Maintenance KIT O ring for KE6	150	Pcs
64	Urethane bushing (brake lining holder) for Trailing bogie (front bogie of Tc)	24	Pcs	64	Electric Coupler Maintenance KIT O ring for KE96	150	Pcs
65	Urethane bushing (brake shoe hanger holder) for Trailing bogie (front bogie of Tc)	96	Pcs	65	CABLE FOR BREAKER L1 / HB	12	Pcs
66	Urethane bushing (brake shoe hanger) 1 for Trailing bogie (front bogie of Tc)	96	Pcs	66	CABLE FOR BREAKER L2	60	Pcs
67	Urethane bushing (brake shoe hanger) 2 for Trailing bogie (front bogie of Tc)	96	Pcs	67	Motor Traction wind Tunnel Assemble B	9	Pcs
68	Urethane bushing (SJ cylinder holder) for Trailing bogie (front bogie of Tc)	96	Pcs	68	VM - 28 MAGNET VALVE KIT	2	Pcs
69	Urethane bushing (brake shoe head) for Trailing bogie (front bogie of Tc)	48	Pcs	69	RL 782 E 100VDC for Contactor Maintenance	16	Pcs
70	Urethane bushing (lateral damper) for Trailing bogie (except front bogie of Tc)	48	Pcs	70	Ring Gasket (27×19) VD1A variable load valve	74	Pcs
71	Urethane bushing (brake lever holder) for Trailing bogie (except front bogie of Tc)	96	Pcs	71	Ring Gasket 15X10 VD1A variable load valve	234	Pcs
72	Urethane bushing (brake lever) 1 for Trailing bogie (except front bogie of Tc)	96	Pcs	72	Filter VD1A variable load valve	74	Pcs
73	Urethane bushing (brake lever) 2 for Trailing bogie (except front bogie of Tc)	96	Pcs	73	Lock Nut M12 (Nylon Nut?) VD1A variable load valve	24	Pcs
74	Urethane bushing (brake lining holder) for Trailing bogie (except front bogie of Tc)	80	Pcs	74	Ring Gasket (27×19) VD3A variable load valve	82	Pcs
75	Urethane bushing (brake shoe head) for Trailing bogie (except front bogie of Tc)	96	Pcs	75	Ring Gasket 15X10 VD3A variable load valve	246	Pcs
76	O-Ring P50A for air spring bogie (φ50) Bogie Common Parts Maintenance	276	Pcs	76	Filter VD3A variable load valve	36	Pcs
77	O-Ring P60 for air spring bogie (φ60) Bogie Common Parts Maintenance	276	Pcs	77	Lock Nut M12 VD3A variable load valve	36	Pcs
78	O-Ring G50 for air spring bogie (φ50) Bogie Common Parts Maintenance	552	Pcs	78	Piston for Leveling valve LV4	35	Pcs

79	Liner 3mm for air spring bogie Bogie Common Parts Maintenance	69	Pcs	79	Damper cap for Leveling valve LV4	35	Pcs
80	Liner 6mm for air spring bogie Bogie Common Parts Maintenance	69	Pcs				
81	Liner 9mm for air spring bogie Bogie Common Parts Maintenance	69	Pcs				
82	O-Ring for differential pressure valve bogie (φ22) Bogie Common Parts	150	Pcs				
83	Spring washer M10 Bogie Common Parts	230	Pcs				
84	Split pin for lateral damper Bogie Common Parts	230	Pcs				
85	Bolt M20×35 for hangerBogie Common Parts	1152	Pcs				
86	Pin tr241b no 5 for Trailing bogie for 6 doors car (TR241B)	16	Pcs				
87	Pin tr241b no 6 for Trailing bogie for 6 doors car (TR241B)	16	Pcs				
88	Pin tr241b no 7 for Trailing bogie for 6 doors car (TR241B)	16	Pcs				
89	Rubber cushion 1 for Trailing bogie 6 doors car (TR246E)	32	Pcs				
90	Axle-beam rubber for Trailing bogie 6 doors car (TR246E)	32	Pcs				
91	Insulating coverfor Trailing bogie 6 doors car (TR246E)	32	Pcs				
92	Pin 1 for Trailing bogie 6 doors car (TR246E)	48	Pcs				
93	Pin 2 for Trailing bogie 6 doors car (TR246E)	48	Pcs				
94	Pin 3 for Trailing bogie 6 doors car (TR246E)	16	Pcs				
95	Tachometer generator driving pin JC32 for Wheel Set Trailer Car	120	Pcs				
96	Tachometer generator pin JT27 for Wheel Set Trailer Car	10	Pcs				
97	Bolt M16 TC No 1 for Wheel Set Trailer Car	104	Pcs				
98	Special bolt for disk M20 for Wheel Set Trailer Car	156	Pcs				
99	Wheel Set for Trailer Car (6 doors car, TR241B) Maintenance KIT	4	Pcs				

100	Wheel Set for Trailer Car (6 doors car, TR246E) Maintenance KIT	12	Kit				
101	Axle Bearing (JC32) Maintenance KIT 4 ITEM	172	Kit				
102	Back cover JC32	504	Kit				
103	Roller bearing JC32	504	Pcs				
104	JC32 Front cap fixing bolt M16	1032	Pcs				
105	JC32 Front rubber cap	408	Pcs				
106	JC32 Front rubber cap (for tachometer generator) for Wheel Set Common Parts	504	Pcs				
107	Detent washer for Axle Bearing (JT27) Maintenance	64	Pcs				
108	JT27 Front cap fixing bolt M10 Axle Bearing (JT27) Maintenance	256	Pcs				
109	Thermo Label Axle Bearing (JT27) Maintenance	1500	Pcs				
110	Oil seal for JT27	160	Pcs				
111	Taper roller bearing JT27	40	Pcs				
112	JT27 Front rubber cap for Wheel Set Common Parts	80	Pcs				
113	JT27 Front rubber cap (for tachometer generator) for Wheel Set Common Parts	80	Pcs				
114	Brake Cylinder Maintenance KIT, SJ Cylinder TC dan T	12	Pcs				
115	Rubber plate for drain pipe for Air conditioner AU717 6 doors car	12	Kit				
116	Rubber plate for drain pipe for Air conditioner AU722 6 doors car	42	Pcs				
117	Bearing 6305LLB AC Air conditioner AU75G for 4 doors car	179	Pcs				
118	Plate for drain pipe rubber for Air conditioner AU75G for 4 doors car	882	Pcs				
119	Rubber plate for drain pipe for Air conditioner AU75G for 4 doors car	294	Pcs				
120	Terminal box assy for Air conditioner AU75G for 4 doors car	69	Pcs				

121	Terminal block for Air conditioner AU75G for 4 doors car	61	Pcs				
122	Insulating stand for Air conditioner AU75G for 4 doors car	965	Pcs				
123	Filter Dryer for Air conditioner AU75G for 4 doors car	106	Pcs				
124	Door engine TK4 Maintenance KIT	288	Pcs				
125	Frame assembly for Pantograph PS33E	9	Kit				
126	JR TURBINE OIL 56 for Air Compressor (18L Pail)	24	Pcs				
127	APOLLOIL GEAR HE-90S GL-5 for Gear Box (20L Pail)	36	Pcs				
128	Arapen RB 320 for Axle shaft bearings (16kg Pail)	82	Pcs				
129	Unimax R2 for Traction Motor bearing (18kg Pail)	48	Pcs				
130	Multinoc Grease No.2 for Motor Generator bearing (16kg Pail)	24	Pcs				
131	Multemp SRL for Air Conditioner Fan bearing (2.5kg Pail)	82	Pcs				
132	COSMO CUP GREASE NO.1 for Tight-lock Coupler (16kg Pail)	82	Pcs				
133	Silicon oil (140 cc plus something per LV) (16kg Pail)	82	Pcs				
134	Traction Motor Maintenance KIT Packing for TM No.1	304	Pcs				
135	Traction Motor Maintenance KIT Packing for TM No.2	384	Pcs				
136	Traction Motor Maintenance KIT Packing for TM No.3	384	Pcs				

TERMIN 1				TERMIN 2			
Name & Type Of Goods		Quantity	Unit	Name & Type Of Goods		Quantity	Unit

PARTS FOR HEAVY MAINTENANCE JR 203				PARTS FOR HEAVY MAINTENANCE JR 203			
1	B7 Pressure regulating valve Maintenance KIT	10	Kit	1	Differential pressure valve DP5 Maintenance KIT	20	Kit
2	Air compressor C2000 Maintenance KIT 26 item	2	Kit	2	Leveling valve LV4 Maintenance KIT 17 ITEM	40	Kit
3	Dehumidifier D20A Maintenance KIT	2	Kit	3	Motor Generator Maintenance KIT	2	Kit
4	O-Ring P50A for air spring bogie (φ50) Bogie Common Parts Maintenance	60	Pcs				
5	O-Ring P60 for air spring bogie (φ60) Bogie Common Parts Maintenance	60	Pcs				
6	O-Ring G50 for air spring bogie (φ50) Bogie Common Parts Maintenance	60	Pcs				
7	Brake Cylinder Maintenance KIT, SJ Cylinder TC dan T	12	Kit				
8	Door engine TK4 Maintenance KIT	80	Kit				