

भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAYS
रेलवे बोर्ड RAILWAY BOARD

No. 2015/M(L)/466/5(402)

New Delhi, dt. 15.6.2017

**Chief Mechanical Engineers,
All Indian Railways.
(Except ECoR. WCR)**

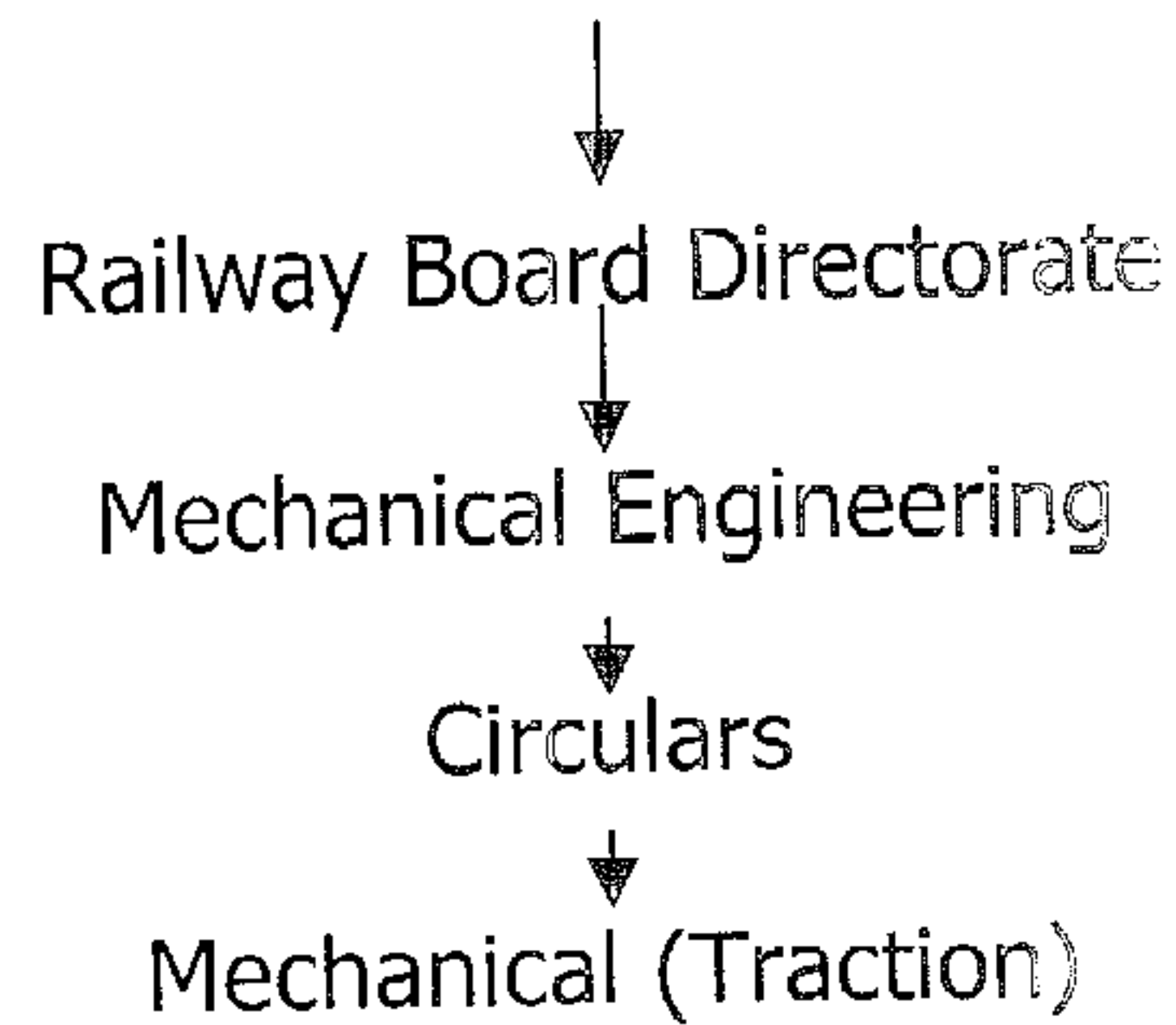
Sub: Maintenance spare for DEMUs

In consultation with ICF, SECR & NFR a list of maintenance spare required for maintenance of DEMU is enclosed.

Railways are advised to plan spare for DEMU according to the list. Zonal railways are also requested to submit stock on hand and annual requirement in the prescribed format. Zonal Railways may add any item while furnishing the position.

The format is available at Indian Railways' website.

www.indianrailways.gov.in



The required information may please be sent to Board's office through e-mail (directortraction@gmail.com) in forms of words file.

(Suman Kumar Tanti)
Dir. Mech. Engg. (Tr.)
Railway Board

Annexure I				Requirement		
Sr. no	NFR PL.NO.	DESCRIPTION	Stock on Hand	2017-18	2018-19	2019-20
1	25740507	DC-DC Converter for twin beam head light, P/2/0138, ELRS/SECDC-DC converter/0021,(Rev-1,sept.2004) with amnt. No 1 and clause-4 of SMI No RDSO/2008/EL/SMI/0253,REV-'0', R108/236,P108/197				
2	30010755	Hytre Lower Washer with Top and Bottom Liner for primary suspension. RDSO Drg.No CG-K 4059, alt -4 Mtl. Specn : C-K 409 (Rev-2) Amend-3 & for Liner as per Drg				
3	30310131	Key for Brake Block / BG-ICF, ICF Drawing no: T-3-1-618, alt-3 ,or latest Materials specifications: as per drawing				
4	30316121	Non Asbestos based "K" Type high friction composition brake blocks for coaching stock to Drg. No.RDSO SK-98066 Alt-6 & RDSO Specn No. C-9809, Rev.04.				
5	31050580	Vertical Damper -400 Kg to ICF Drg. No.DMU/DPC5-0-5-503, Alt-k/6, item-1. Specification No. As per drg				
6	31057378	Helical Spring for high power 1400 HP(Eng. side)DMU/DPC -5-0-1-501				
7	31060249	Centre pivot arrangement EMU/M-0-6-001, Z /19 and item No. 3 to 6 only				
8	31101811	Kit of Spring Suspension for 1400 HP DEMU consisting of the following items conforming to RDSO Specification No. CK-406 & CK-407. (1) Levelling Valve (2) Installation lever assembly [Ball and Socker] (3) Duplex Check Valve (4) Two Way Dirt Collector (5) Isolating cock 20 NB. (6) Check Valve Assembly. (7) Drain Cock assembly for 150 litre reservoir. (8) Drain Valve for 20 liter Reservoir				
9	31153343	Carbon Brush for Traction Motor-M-4303 CZ. BHEL CAT No. 3439202800. Specification No. NIL.				
10	31316001	Non Asbestos based 'K' type composite brake block for DEMU DPC RDSO Drg. No. SK-80029 Alt-4, RDSO's Spec. No. C-9508(Rev3) of May 2009				
11	31317091	Control Safety [TEMP SWITCH T2] to CIL/Pt. No.3168062. Drg. No. CUMMINS Pt. No.3168062.				

12	31317108	Control Safety for 1400 HP DRG. NO. CUMMINS Pt. No.3. Control Safety (TEMP SWITCH T1) to CIL/Pt. No. 3168061 for DEMU DPC. Drawing No. Cummins Part No. 3168061.				
13	31931029	ACTUATOR for DPC of DEMUAs per Cummins Part No. -3875875				
14	31931030	Control Governor for DPC of DEMUAs per Cummins Part No. - 3167063				
15	31931042	Amplifier power(LCC Governor, Module-LCC 10782)				
16	31932046	Lateral Damper (200Kg.) for DEMU, DC/EMU/M/ASR-0-5-005, RDSO Specn. No. C-8703 Rev.-2 Feb 2007.				
17	31932710	Primary spring DPC/Rear ICF Drg. No. DMU/DPC 5-0-1/2, Alt-h				
18	31932721	Primary spring DPC/Front ICF Drg. No. DMU/DPC 5-0-1-501/1 Alt.h				
19	32040015	Primary spring TC ICF Drawing No. 08301002/1 alt-p				
20	32060002	Centering adjustment device sub assembly to Escorts Drg. No. SK-756				
21	32060026	Pair of Cup sleeve, to ESCORTS Drg. No. SK-787				
22	32060038	Centering carrier for END B to Escorts Drg. No. SK-825				
23	32120011	Draw & Buff Gear to Escorts Drg. No. SK-752				
24	32160010	Modular brake controller complete type ESBC III(M) to Escorts pt.No. 6070 for Escorts brake equipment.				
25	32160069	Hand operated isolating valve to Escorts Drg./Part No. 6500				
26	32160070	Feedback cylinder isolating valve assembly to Escorts Drg. / Part No. - 6800				
27	32160082	Isolating valve switch complete for E.P brake controller to Westinghouse Pt. No. C75256/1 for 1400 HP DEMU.				
28	32160100	OVH kit for Escorts make EP unit valves consisting of 06 items as per Annexure				
29	32160124	Set of valves for ESCORTS make modular brake controller type ESBS III M Consisting of 08 items for 1400 HP DEMU. (1) Equalizing discharge valve to Escort's Pt. No. 6600-01 No. (2) Isolating valve to Escorts Pt. No. 6120-01 No. (3) Isolating valve feedback cylinder to Escorts pt. No. 6800-01 No. (4)aUTO VALVE UNIT TO ESCORTS pt. No.6355-01 No. (5)Pressure limiting valve to Escorts Pt. No. 6700-01 No. (6)M R Isolating valve to Escorts pt. No. 6400-01 No. (7) Hand operated isolating				

		valve to Escorts Pt. No. 6500-01 No. (8) Emergency valve to Escorts Pt. No. 6220-01 No.				
30	32160136	Flexible Hose with end fittings for MR pipe end connection for 1400 HP DEMU to KPA Drg.No. ER/KPA/EL/PN.3HE.2416.				
31	32160148	Set of valves for Escorts make EP unit consisting of 08 items for 1400 HP DEMU (1) Application magnet valve type EV 207-3Vt to Escorts Drg. No. 3A82337-01 No. (2) Holding magnet valve type EV 208-3Vt to Escorts Drg.No. 3A82339-01 No. (3) Safety valve to Escorts Drg. No. 4A11422a-01 No. (4) Pressure limiting valve to Escorts Drg. No. 2A81335-01 No. (5) Triple valve size 12" to Escorts Drg.No. 1A68053/C-01 No. (6) Triple valve type Fe 11450 size 16" to Escorts Drg. No. 1A68053/A-01 No. (7) Stabilizing valve to Escorts Drg. No. 3A47492/1-01 No. (8) Check valve to Escorts Drg.No.0A68051-01 No.				
32	32160161	Set of valves of WSF make EP unit of 1400 HP DEMU consisitng of 07 items (1) Triple valve complete type D.I.C to WSF pt. No. C75107/1-01 No. (2) I-Valve application magnet complete to WSF pt. No. IC70222/1-01 No. (3)I-Valve holding magnet complete to WSF pt.No. WSF IC70221/1-01 No. (4) Check valve complete to WSF pt. No. IB70653-01 No. (5) Limiting valve complete to WSF pt. No. C74800/1-01 No. (6) Triple valve satbilizing valve complete to WSF pt. No. B77714/1-01 No. (7) Feed valve(reducing valve) complete to WSF pt. No. C75550/1-01No.				
33	32160173	Flexible Hose with end fittings for BP pipe end connection for 1400 HP DEMU to KPA Drg.No. ER/KPA/EL/PN.3HE.2415.				
34	32220110	Vertical Damper (300Kg/300Kg) for DEMU				
35	32230072	Semi permanent coupler End -'B' except bearing bracket with support Escorts Drg. No. SK-751				
36	32230084	Semi permanent coupler End-A except bearing bracket with support to Escort Drg/Part No. SK-750				

37	32350016	Electro Pneumatic brake unit type Kbr VIII, C1 size 12" for Escorts brake equipment of 1400 HP DEMU to Escorts Drg.No. 0A68051/C				
38	32350028	EP brake valve complete for WSF make EP brake equipment of 1400 HP DEMU to WSF pt.No. D74910/1.				
39	32350107	EP brake controller type ED-6 for WSF make brake controller equipment of 1400HP DEMU to WSF pt. No.D74888/4.				
40	32370003	Nylon Bush Kit for TC/DPC/DTC Drg.No.EMU/M-3-2-060,alt -d/3.(RDSO spec. No-C-8107)				
41	32450084	E.P. Reverser for 1400HP DEMU to CGL Pt.No.786241109				
42	32630001	Kit, Wiper motor assembly for 1400 HO DEMU DPC as per ELgi Part No. (i)EU6545010 wiper motor assy LH- 1 no. (ii)EU654501A Wiper motor assy RH-1 No. (iii) EU6545000 Control valve assy.- 2 Nos. (iv) EU6503002 Wiper arm assy-2 Nos. (v) EU6504000 Wiper blade assy-2 Nos. (vi) EU6545040 Support Arm pin assy.-2 Nos.				
43	32660005	Cup sleeve lower part to Escorts Drg. No. SK-757				
44	32660029	General Purpose relay to BHEL pt. No. BP9048561531 for 1400 HP DEMU.				
45	32660042	General purpose relay type CS3C-40E-12 VDC to CGL pt.No. 785232020 for 1400HP DEMU				
46	32670000	Motor overload relays to CGL material code -787241010 CGL material code - 787241010				
47	32670011	Ground fault relay to CGL material code -786241034				
48	32790016	Traction motor pinion (20 Teeth) for C1005TM for 1400 HP DEMU to CGL Pt. No. 767041418 and CGL DRG. No. CGM/306209				
49	32860020	Master controller with reverser key to BHEL Pt. No. 05770030012R06 for 1400 HP DEMU.				
50	32930008	LED indication panel to CGL material code - 786241114 CGL Material code - 786241114				
51		BRAKE CYLINDER FOR DPC AND TC RDSO/SK 81057				
52		BRAKE CYLINDER OVERHAULING KITS				
53		BOGIE BRAKE ARRANGEMENT FOR DPC EMU/M--2-064				
54		BOGIE BRAKE ARRANGEMENT (FOR BOGIE MOUNTED AIR BRAKE SYSTEM				

		IN TC) WTAC4-3-2-401				
55		TWIN TOWER HEATLESS REGENERATIVE TYPE AIR DRYER				
57		BRAKE APPLICATION RELAY DRG.NO.ICF/SK/7-2-395 ALT.'d'.				
58		GUIDE BUSH FOR AXLE BOX GUIDE ARRGT. DRG EMU 34031 ITEM-1 ALT 'n'				
59		BRAKE GEAR BUSHES (HIGH PERFORMANCE POLYAMIDE) DRG.NO. T-3-2-808, ITEM-3ALT 'd'				
60		BUSHDRG EMU 34031 ITEM-2 ALT 'n'.				
61		BUSH DRG EMU 3-4-031 ITEM 3 ALT 'n'				
62		BUSH EMU/M-0-6-019/1 ALT 'NIL'.				
63		SIDE BUFFER ARRANGEMENT WITH FACE PLATE FOR DEMU				
64		SEMI PERMANENT COUPLER FOR DEMU COACHES: ITEMS SCHAKU COUPLER LEAF SPRING ITEMS DRAW AND BUFFING GEAR CENTRE ADJUSTMENT DEVICE DRAW HOOK FOR SCHAKU COUPLER				
65		LATERAL RUBBER STOP FOR AIR SPRING SUSPENSION DMU/DPC5-0-5-502/1 ALT 'b'.				
66		HIGHER CAPACITY AIR SPRING (180KN)				
67		AIR SPRING 40 LITRES RESERVOIR WITH 1/2" DRAIN VALVE)				
68		LEVELING VALVE KNORR-BREMSE DRG. NO. 1.3.1902 SAB-WABCO DRG. NO. A4 0390265				
69		NON RETURN VALVE FOR AIR SUSPENSION				
70		DUPLEX CHECK VALVE KNORR-BREMSE DRG. NO. 1.3.1902 SAB-WABCO DRG. NO. A4 0390265				
71		INSTALLATION LEVER FOR AIR SUSPENSION				
72		AIR SPRING MAIN RESERVOIR 150 LTRS				
73		LOOK OUT GLASS				
74		LATERAL DAMPER(200 KG) FOR DPC DMU/DPC5-0-5-501				
75		LATERAL DAMPER FOR TC DMU/TC4-0-5-401				
76		VERTICAL DAMPER (400 KG) DMU/DPC 5-0-5-503				
77		VERTICAL DAMPER FOR TC				
78		BRAKE HANGER				

79		BRAKE BEAM INNER AND OUTER TO COL.I -4NOS.(WITHOUT NYLON BUSHES WHEREVER APPLICABLE)DRG.NO.DMU/DPC5-3-2-505, ALT 'a',				
80		SAFETY WIRE ROPE FOR BRAKE BEAM DRG.NO.T 3-2-651 COL.I ALT 'j'				
81		PACKING PLATE EMU/M-0-1-034				
82		LOCKING PLATE DMU/DPC 5-0-5-509				
83		AXLE BOX HOUSING (FULLY MACHINED) EMU/M/0-2-002 ITEM 2 ALT H				
84		LOWER RUBBER WASHER EMU/M-0-1-008				
85		WEARING PLATE EMU/M-0-5-047				
86		WEARING PLATE T-0-5-648				
87		HYTREL UPPER WASHER WITH AMENDMENT NO.2 AND HYTREL LOWER WASHER DRG.NO.CG.K4058 ALT 3				
88		SIDE BEARER PIN FOR DPC				
89		SIDE BEARER PIN FOR TC				
90		CENTRE PIVOT PIN COMPLETE FOR DPC				
91		HEX HEAD BOLT COMPLETE FOR CENTRE PIVOT ARRGT. EMU/M-0-6-014/COL.I ALT 'd'				
92		RUBBING PAD FOR BOGIE BOLSTER DRG.NO.DMU/DPC5-0-5-507/1 ALT.NIL/2.				
93		WEARING PIECE FOR SIDE BEARER ON BOLSTER SUSPENSION BRONZE . DRG.NO.EMU/M0-5-010/1 ALT 'k'.				
94		HEADSTOCK COMPLETE FOR BOGIE FRAME DRG.NO.EMU/M/0-3-004 COL.I,ALT 'h'				
95		NFTC PACKING RING 26 MM				
96		GUIDE RING (ACETAL HOMOPOLYMER) FOR AXLE BOX GUIDE ARRANGEMENT DRG. NO.T 0-1-640/1, ALT.'b				
97		COLLAR ITEM-1 -8NOS.RETAINING RING -8 NOSE RING -8 NOS.(ITEMS 1 TO 3 MAKES ONE COACH SET). DRG.NO.T-0-2-621 ALT 'h' ITEM-1 DRG.NO.T-0-2-629 ALT 'j' ITEM-1 TO DRG.NO.T-0-2-628 ALT.'f'				
98		BOGIE FRAME COMPLETE DRG.NO.T-03-601 COL.VII				
99		UPPER RUBBER WASHER FOR BOGIE BOLSTER SUSPENSION T 0-618 /1 ALT P				
100		WEARING PIECE FOR SIDE BEARER DRG. NO. T0-5-649/1.ALT'k'				
101		CENTRE PIVOT PIN -1NO AND COTTER FOR CENTRE PIVOT PIN -1 NO. DRG.NO.T-0-6-602/1, ALT 'A'				

		DRG.NO.T-0-6-604/1 ALT 'P'				
102		HEX HEAD BOLT COMPLETE FOR CENTRE PIVOT ARRGT. DRG.NO.T-0-6-614/COL.IALT 'd'				
103		UPPER RUBBER WASHER FOR AXLE BOX GUIDE ARRGT. DRG.NO. EMU-0-1-005ALT 'p'.				
104		LOWER RUBBER WASHER FOR AXLE BOX GUIDE ARRGT. RG.NO.EMU/M-0-1-008/1, ALT's'.				
105		GUIDE BUSH FOR AXLE BOX GUIDE ARRGT DRG NO.EMU/M-0-1-023/2 ALT 'e'.				
106		NON ASBESTOS BASED "K" TYPE HIGH FRICTION COMPOSITION BRAKE BLOCKS				
107		NON ASBESTOS BASED "L"TYPE HIGH FRICTION COMPOSITION BRAKE BLOCKS				
108		BRAKE HEAD - (FABRICATED) DRG.NO.EMU/M-3-1-008 COL-I, ALT 'h'				
109		ANCHOR LINK ARRGT. T-0-7-67				
110		SUPPLY OF STAINLESS STEEL TUBES & DOUBLE FERRULE FITTINGS FOR HHP-DMU/DPC COACHES DRG.NO.DMU/DPC7-3-5-701				
111		BG 16.25 TONNES ROUGH TURNED COACHING AXLE DRG.NO RDSO/SK-CGK6015/ITEMS- 1&2 WITH ALT-'I				
112		BG 20.32 TONNES ROUGH TURNED EMU MOTOR COACH AXLE TO DRG.NO.AC/DC/EMU/B-0-2-002/COL.I WITH ALT 'e'				
113		FULLY MACHINED AXLE BOX REAR COVER				
114		FULLY MACHINED AXLE BOX FRONT COVER				
115		SEALING RING FOR AXLE BOX EMU/M-0-2-012 ITEM-1 ALT 'c'.				
116		LOCKING PLATE FOR CENTER PIVOT ARRANGEMENT DRG.NO.T-0-6-612, ITEM 1,ALT 'c'.				
117		ALARM BELL(GONG BELL) SIZE 6" HEAVY DUTY, OPERATING VOLTAGE 110V DC				
118		SIGNAL BELL SINGLE STROKE OPERATING VOLTAGE 110V DC				
119		FOOT OPERATED HORN ASSEMBLY				
120		HAND OPERATED HORN				
121		WIPER ASSEMBLY CONSISTING WIPER ARM, BLADES AND MOTOR ELGI MAKE				
122		MOTOR SUSPENSION UNIT				
123		GEAR CASE TOP HALF AND BOTTOM				

		GEAR CASE FOR TM 43003 DY AND CG1005				
124		HETICAL SPRING FOR TC DC/EMU-0-0-1-002				
125		HELICAL SPRINGS FOR DPC DMU/DPC-0-1-001				
126		ROLLER BEARING AXLE BOX ARRGT. DC/EMU-0-0-002				
127		ROLLER BEARING RDSO SPEC C 8527				
128		AIR PRESSURE GAUGE FOR DPC				
129		AIR PRESSURE GAUGE FOR TC				
130		AIR COMPRESSOR LP LINER AND PISTON 197 DIA				
131		AIR COMPRESSOR HP LINER AND PISTON 127 DIA				
131		SET OF PISTON RINGS FOR TRC 2507 AIR COMPRESSOR UNIT				
132		UNLOADER VALVE ASSEMBLY				
133		INTERCOOLER SAFETY VALVE				
134		COMPENSATING RING T-0-0-602				
135		AIR COMPRESSOR UNIT TRC 2507				
136		V-BELT C-113 FOR AIR COMPRESSOR				
137		M.R. PIPE, HOSE FLEXIBLE PIPE				
138		B.P. PIPE, HOSE FLEXIBLE PIPE				
139		HYDRAULIC VENTILATION PUMP REXROTH MAKE				
140		CATTLE GUARD ASSEMBLY COMPLETE				
140		HEADLIGHT TWIN BEAM HEAD LIGHT 24 V- 100/90W				
142		LIMIT SWITCH USED IN ACP 10A 500V, TYPE: LSRO				
143		FLASHER LIGHT I/P- 110 VDC, 160 MAMP, LED : HLMP-EI08-WX400 HEWLETT PACKARD				
144		LED BASED CLASSIFICATION LIGHT Type- 'E', CURRENT- 20-30 AMPS, I/P-110 V DC				
145		BRAKE CONTROLLER				
146		LED BASED PASSENGER ALARM INDICATION LIGHT				
147		SPEED TIME DISTANCE RECORDER (SPEEDO-METER)				
148		AIR PRESSURE SWITCH (ABD VALVES)				
149		APPLICATION COIL FOR EP BRAKE				
150		HOLDING COIL FOR EP BRAKE				
151		HYDRAULIC LEVEL SENSOR -1400 HHP SWITCH FLUID LEVEL				
152		TRACTION MOTOR BOLTS				
153		DC-DC CONVERTER FOR HEADLIGHTS				
154		DEAD MAN VALVE				
156		KNIFE SWITCH -24V (ISOLATING				

		SWITCH)				
157		TRACTION MOTOR OVERLOAD RELAY				
158		120 AH, 110 V VRLA BATTERY RDSO/PE/SPEC/AC/0009 – 2014 (REV. '2')				
159		MAIN RESERVOIR 125 LTRS				
160		MAGNET VALVE, 5/2 DOUBLE SOLENOID, 110V				
161		LIMIT SWITCH FOR PARKING BRAKE				
162		PARKING BRAKE EQUIPMENT FOR DEMU, RDSO SPECIFICATION C-K408 REV.00 AND MATERIAL SCHEDULE NO.IC F/SK-10-2-229 (REV.04)				
163		PARKING BRAKE RELEASE LEVER				
164		PARKING BRAKE CYLINDER				
165		LIMITING VALVE FOR AIR BRAKE SYSTEM				
166		EP BRAKE EQUIPMENT DRG NO.DMU/DPC 7-3-5-701 ALT 'j' AND DMU/DPC/SS-3-5-001				
167		EP UNIT OVERHAUL KIT				
168		WIPER CUT-OUT SWITCHES				
169		SET OF GEAR BOX BOLTS				
170		ROLLER BEARING AXLE BOX ARRGT. DC/EMU-0-0-002				
171		ROLLER BEARING RDSO SPEC C 8527				
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173		AIR PRESSURE GAUGE FOR TC				
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209		LIMITING VALVE FOR AIR BRAKE SYSTEM				
210		DRG NO.DMU/DPC 7-3-5-701 ALT 'j' AND DMU/DPC/SS-3-5-001				
211		EP UNIT OVERHAUL KIT				
212		WIPER CUT-OUT SWITCHES				
213		SET OF GEAR BOX BOLTS				
214		Power Pack Complete KTA 50L Engine				
215		Traction Alternator Model No. TA7003 CW Model No. CI012 TA				
216		Traction Motor Model No. TM4303DY Model No. C1005TM				
217		Auxiliary Alternator BHEL Drg. No. KC-08-01-903 CGL Drg. No. SA1004				
217		Compressor Model No. TRC - 2507 with InterCooler				
218		Engine Control Panel Part No. 4053829				
219		LCC Model No. LCC 107 B1 & B2 Model No. UI : 1404				
220		Cylinder Head				

221		Injector Set Part No. 3076132				
222		Main Hydraulic Pump Part No. 4071329				
223		Radiator Fan Part No. 4054485 with Hydraulic Motor				
224		Traction Motor Suspension Unit (MSU) ICF Drg. No. 199-0-2-504				
225		Bogie Complete (with TM) for DPC ICF Drg. No. 324-0-0-001				
226		Wheel Assembly with Bull Gear ICF Drg. No. 199-0-2-504				
227		Bull Gear BHEL Drg. No. 1439 1680 001 CGL Drg. No. CGM/30620				
228		Motor Suspension Unit BHEL Drg. No. 0446 1599 015 CGL Drg. No. CGM/106001				
229		Radiator Assembly Part No. 4968230 Part No. 4968231				
230		Actuator Part, No 3875873				
231		PT Pump Part No 3875873				
232		Blade Fan Part No. 3876403				
233		Air Spring Assembly 180 KN RDSO Spec. CK406				
234		Turbo Charger Part No. 4955505				
235		Fuel Lift Pump Part No. 4055107				
236		VRLA Batteries 110V, 120Ah				
237		Bogie for Trailer coach ICF Drg. No. 298-0-0-701				
238		Rectifier HHP Model No. 36670600385 Rev.03 Model No. 3TR-1556/1-HIRECT				
239		Blower Motor Model No. NC 5 CPd. wound				
240		Master Controller Model no. M26MC10 BHEL Drg. No. 05770030012 Model no. CGMC 11AA CGL Drg. No. SB00026				
241		EP Brake Controller ESCORTS Drg. No. 2EP 6237				
242		EP Brake Unit ESCORTS Drg. No. 2EP 6238/2(DPC) ESCORTS Drg. No. 2EP 6238/1(TC)				