



# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/673

RLY	N	W	R	-	Coach No.	1	9	6	2	5	5	/	C	DATE OF DISPATCH	3	1	-	0	8	-	1	9
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DISPATCH TO	Sr.DME/C&W/IP	Type	L	W	A	C	C	W	Shell No.	9	3	0	4	1	FUR.NO.	L2T(T)-47
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1. Railway Board's Order No. : 2019/M(C)/142/2, Dated- 03.06.2019
2. Tare Weight of Coach : 44.5 Tonnes
3. Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
4. **Special feature**
  - A- Due to fitment of L3T roof in L2T shell, more space available in transverse side.
  - B- Extend linen room to accommodate the space NPP end (width 270 mm)
  - C- Height (from floor level to ceiling) raised from 2250mm to 2510mm.
  - C1- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.
  - C2- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.
  - C3- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.
  - D- Provision of sliding cum sleeping berth. (MAKE- M/S- ANANYA RAIL COACH COMPONENTS IND.LLJ)
  - E- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no.

MC/LHB/Brake, Dated 27.09.2018

**5. SHELL LEADING DIMENSIONS:**

S NO	DESCRIPTION	DIMENSION (MM)
1.	Maximum length over body	23700
2.	Maximum width over body	3240
3.	Maximum height from Rail Level	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1103 (NPPE) 2) 1096 (PPE)

**6. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front PP END M/S- SFPL	84
		Part NPP END M/S- SFPL	84
		Complete M/S- SFPL	84
2.	Lav. side wall	M/S- RAIL FAB, KXH	LAV.1 - LAV.2 -
		M/S- RAIL FAB, KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE COAT.V4U (LKO)	39/01
		RH SIDE COAT.V4U (LKO)	39/02
4.	End wall	PP END M/S-OMAX REWARI	---
		NPP END MCF/RBL/SIS	---
5.	Roof	M/S-PIL	50
6.	Centre Buffer Coupler	M/S- ESCORTS LTD.	PP END 8148 NPP END 9144

**7. AIRBRAKE TEST REPORT:**

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> <li>➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>➤ Max. pressure in BC</li> <li>➤ All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, after 06 Sec.	Brake must apply	OK

**8. PAINTING DETAILS:**

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1.	Paint	P.U	M/S -VIBGYOR	SUPPLY & APPLY	90/87	05.05.19
2.	Insulation			Satisfactory		

*[Signature]*







MODERN COACH FACTORY, RAE BARELI

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#### 9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	196015				196016			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1266				ECBT-1020			
Bolster no.	VS-595				VS-597			
Axle No	19 R -1151 RWF		19 R- 2571 RWF		19 R - 2196 RWF		19 P - 1471 RWF	
Wheel Dia	917.431	917.511	917.404	917.515	917.455	917.494	917.45	917.524
Wheel Disc No	TZ 04-19 34128-9MJ3	TZ 01-19 21360-8XH7	TZ 05-19 46509-9PC9	TZ 05-19 47826-9PE0	TZ 01-19 21358-8XH7	TZ 11-18 06284-8WR1	TZ 05-19 46512-9PC9	TZ 10-18 01753-8W14
R.B. Nos.	07-19 17055	07-19 16698	07-19 17201	07-19 15806	07-19 17193	07-19 16659	07-19 17273	07-19 17273
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

#### 10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMRSK08-19-F18-R19-228	CMRSK02-19-9513-499-508	CMRSK08-19-F18-R19-29	CMRSK02-19-9513-499-364	CMFSK08-19-F18-1219-241	CMRSK02-19-9513-499-887	CMFSK08-19-F18-1219-053	CMFSK02-19-9513-499-852
Compressed Ht. at Tested Load	512	468	511	468	512	469	512	467.5
Alignment deviation (mm)	10	13	10	12	10	11	10	10

#### 11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	14626,14628	14629,14625
2.	Primary outer Spring	CMFSK	03-19 7411-545(1505,1757,1497,1446)	03-19 7411-545(1453,1508,1428,1539)
3.	Primary Inner Spring	CMSTL	02-19 02A(5882,6181,3752,5501)	02-19 02A(6119,5529,5290,5047)
4.	Primary Damper	KNORR	03-19 (05405,04368,06155,00674)	03-19 (06942,06865,02253,06938)
5.	Secondary Damper	IAI	01-19 (237913,237986)	01-19 (238153,237977)
6.	Lateral Damper	IAI	02-19 241608	02-19 241860
7.	Brake Cylinder	FAV	D19(398,420,60,337)	D19(335,597,592,400)
8.	Brake Caliper	FAV	(E19-055,053,D19-1637,1640)B	(D19-1612,D19-1610,E19-054,E19-056)B
9.	Brake Disc	KBI	24195446 0057-30/19,24195448 0002-30/19 24190406 0077-23/19,24190407 0078-23/19	24195448 0003-30/19,24195448 0004-30/19 24195448 0009-30/19,24195446 0063-30/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT/AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	AR/BASANT		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	PPI		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR, SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	040619-2,250519-3,250519-3	250519-3,040619-2,250519-3,280519-3
22.	Control Arm Lower	SF	RVE	RVE
23.	Phonic Wheel	KNORR	K-06-19	K-06-19

Signature of SSE/Bogie/QC





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### 12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	F19002B
2.	Distribution valve	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	19055720B
3.	Pull box	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	
4.	Foot Step	M/s- SUPER SPARKS PVT. LTD. FARIDABAD	
5.	D-coupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/S- SHRI RAM PNL PANJAB	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
10.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
11.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
13.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Roof Ceiling	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
16.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
17.	Supply Air Duct	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
18.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
19.	Partition pillar	M/S- JR INDS/ATHONEY ENGG.	
20.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
21.	AC Trough	M/s-MEENA FIBER(NPP),&FIBRO PLASTIC (PPE)	
22.	Body Side Doors 1,3	M/S -JBM INDS FARIDABAD	
23.	Body Side Doors 2,4	M/s -JVR INDS. LDH	
24.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/s- KALSI FAB PVT. LTD. LDH	
27.	Vestibule Door(NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
28.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
29.	Auxiliary Water Tank	M/s- MANOJ ENG. MOHALI	
30.	Under Slung Water Tank ( 2X685L)	M/s- AMIT ENG. BADDI	
31.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
32.	Health Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA	
33.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA	
34.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
35.	Lavatory Modules	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
36.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
37.	Fire Extinguisher	M/S-ASHOKA ENGG	PP-4112 NPP-4108
38.	Fire Supplier	M/s-SANROK INTER PRISES	
39.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
40.	Light Luggage Rack	M/S- LUCKY ENTT GUNGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	

*Deema*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली







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DISPATCH TO	Sr.DME/C&W/JP				Type	L	W	A	C	C	W	Shell No.	9	3	0	4	1	FUR.NO.	L2T(T)-47			

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

**16. WARRANTY:**

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the date of supply of material whichever is earlier.

**NOTE:**

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4,para- V of RDSO specification no .M&C/PCN/100/2013-Given below

S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate )Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)
1	After 1 year	80% of initial gloss	7	5B
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	4B

If any imperfection is noticed or any defect arises during the warranty -period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

SSE/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता गुणवत्ता विभाग रेलवे, रायबरेली (लालगंज)	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.COM/MCF/RBL उप मुख्य गुणवत्ता प्रबंधक/शेल Dy. Chief Quality Manager/Shell आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES  
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES			
TYPE COACH	LWACCW	SHELL/COACH NO	196255/C
RAILWAY	NWR	DATE OF DESPATCH	
Sr no	Description of tests		Remarks
1.0	REFERENCE SPECIFICATION : L 446		
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.		
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01		
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.		
	Observed status : HEALTHY		
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE	OK
3.1	Fresh Air	19.87 Cub mtr/min	OK
3.2	Return Air	71.96 Cub mtr/min	OK
3.3	Exhaust Air	6.16 Cub mtr/min	OK
3.4	Conditioned Air	167.64 Cub mtr/min	OK
4.0	PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition.  Not done		---
5.0	PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  Not done		--

Senior Section Engineer  
Quality control / Electrical  
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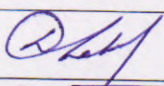
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED R 407C	OK

  
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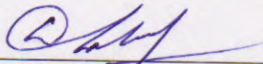
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : <b>SSK</b> Sr no of RMPU 1(NPP side) <b>908/19</b> Sr no of RMPU 2(PP side): <b>909/19</b> Sr no of Microprocessor: <b>AE 19.03.334</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>TRINITRON</b> Sr no : <b>18/12/TCS/RBL/3423/0184/0050</b>	As per spec no .EDTS073,REV-D,AM-6	<b>01</b>
03.	Pump equipment with PLC controller & pump box Make: <b>DR AUTO</b> Sr no PA: <b>2019/06/006</b> Sr no.1: <b>19050688</b> Sr no.2: <b>19050681</b> Srno.CPA: <b>2019/07/028-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am-2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Passenger area Light(Cabin) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09</b>
06.	Corridor Light with Night light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09</b>
07.	Doorway/Gangway light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>06</b>
08.	Emergency light system for EOG type coaches (AEL) Make: <b>A PAUL/DR AUTO</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make: <b>RT VISION</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	<b>04</b>

  
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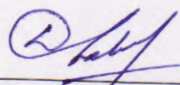
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F1	<b>9</b>
12.	Reading light for upper berth Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F2	<b>26</b>
13.	Reading light for transverse berth (RHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F3	<b>8</b>
14.	Reading light for berth transverse ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F4	<b>9</b>
15.	Passenger alarm coach indication light Make: <b>KAVERI</b>	LW 76005,Alt-e	<b>02</b>
16.	Razor socket for WC 110/240V. Make: <b>SSK</b>	EDML 047 ,Rev nil	<b>04</b>
17.	Terminal strip Make: <b>WAGO</b>	EDML 033,Rev-c	<b>01</b>
18.	Terminal connector Make: <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: <b>SSK</b>	EDML 047,Rev_C, Item 1.	<b>09</b>
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: <b>SSK</b>	EDML 047,Rev_A ,Item 2.	<b>09</b>
21.	Switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make: <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
22.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173 Rev- a Am-1,2&3	<b>01 set</b>

  
Senior Section Engineer  
Quality control / Electrical  
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REV NO: 00

DATE:18.01.2017

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : <b>AMARA RAJA</b> Lug date : <b>09/18</b>	EDTS 129,Rev nil	<b>01 set</b>
24.	Battery box for LHB coaches. Make: <b>HITECH</b>	As per drgno 1 10113 0 76 700 005,Alt C	<b>01</b>
25.	Battery fuse box +ve Make : <b>RADIANT</b>	LW 71001,Alt-F	<b>01</b>
26.	Battery fuse box -ve Make : <b>ISGPL</b>	LW 71002,Alt-F	<b>01</b>
27.	Regulated battery charger Make : <b>M.B &amp; COMPANY</b> Sr no: <b>201907308</b>	RDSO/PE/SPEC/AC/0183 (REV -0 )	<b>01</b>
28.	Emergency battery charger Make : <b>M.B &amp; COMPANY</b> Sr no: <b>201907282</b>	EDTS 163,Rev `c' corg.-2&3	<b>01</b>
29.	5KVA Transformer Make: <b>BHASIN</b> SL.no : <b>09189960</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
30.	Capacitor Bank Make: <b>KONTACT</b> SL.no : <b>KT-970</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
31.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-R-3089 LHB-469</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
32.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</b>	As per spec No EDTS 105,Rev `e' Am-2	<b>02 sets</b>
33.	Feeder junction boxes. Make : <b>AECO</b>	EDTS-328 REV-C	<b>02</b>
34.	Wheel set earthing equipment. Make : <b>CHANDA &amp; CHANDA/PRIME ELECT.</b>	EDTS101,REV-C,AM-1	<b>02</b>
35.	Wheel Slide Protection System (WSP) Make: <b>FAIVELEY</b> Sr no : <b>07/19/247</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
36.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : <b>NIL</b>	As per spec no EDTS 139, Rev- E ,Sec II.	<b>00</b>

SSE/EL/QC

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DY CEE (ELC)/MCF/RBL