



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/2020-21/1268

RLY	CR	COACH NO	211237/C	DATE OF DISPATCH	15-Mar-21
Type	LWACCN	Shell No.	20C185	DISPATCH TO	Sr.DME/C&W/LTT
				FUR.NO.	L3T-1603

1. Railway Board's Order No. : 2020/M(C)142/2, DATE-29.01.2021

2. Tare Weight of Coach : 45.6 Tonnes

3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. Special feature:

A- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

B-Venturi arrangement in lavatory -M/S-CMT MECHANISED VADODARA

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	4250
4	CBC height/Buffer height from Rail level 1105 +0/-10	NPP/PP 1101/1096

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-OMAX AUTO
		Part NPP END	M/S-OMAX AUTO
		Complete	MCF/RBL-AIRCON 20C185
2	Lav. side wall	M/S-RAIL TECH KXH	LAV.1
		M/S-RAIL TECH KXH	LAV.2
3	Side wall	LH SIDE	66
		RH SIDE	66
4	End wall	PP END	M/S-SIPL
		NPP END	PP END
5	Roof	M/S-ECBT	241
6	Centre Buffer Coupler	M/S-ESCORTS	NPP/PP 6035/6017

7. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1	Full brake application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ² .	6 – 10 sec.	08 sec.
		Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²
		All Brake are applied	OK	OK
2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /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	K.NEROLAC	M/S-K.NEROLAC (S&A)	91/91	23-Oct-20
2	Insulation			Satisfactory		

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेलवे कारखाना, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/-1268

RLY	C	R	-	Coach No.	2	1	1	2	3	7	/	C	-	DATE OF DISPATCH	1	5	0	3	2	0	2	1
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DISPATCH	Sr.DME/C&W/LTT	Type	L	W	A	C	C	N	Shell No.	2	0	C	1	8	5	FUR .NO	L3T-1603
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9. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	201459				201460			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX- 114				SIMPLEX- 222			
Bolster no.	APEX-66				MCF/RBL/LLJ -2130			
Axle No	21 B - 9076 RWF		20 B - 9084 RWF		20 B - 8080 RWF		21 C - 3417 RWF	
Wheel Dia	917.57	917.45	917.57	917.45	917.556	917.485	917.557	917.354
Wheel Disc No	TZ 02-19 27123-9MI6	TZ 01-19 22361-0XH8	TZ 07-17 25230-7RH3	TZ 01-19 22365-8XH8	TZ 01-19 21196-8XH1	TZ 05-19 50125-9PK1	TZ 07-18 37233-8RM7	TZ 06-19 54529-9PP8
R.B. Nos.	06-20 504818	06-20 410638	06-20 411207	06-20 410937	06-20 411067	07-20 416915	03-20 502484	06-20 412304
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.	CMFSK02-20 F15-171-134	CMAFJ01-20 9513-157	CMFSK02-20 F15-171-538	CMAFJ01-20 9513-207	CMFSK02-20 F16-171-566	CMFSK05-19-9513- 007-108	CMFSK02-20 F16-171-498	CMFSK05-19-9513- 007-49
Compressed Ht. at Tested Load	514	468	514	468	515	467	514.5	463
Alignment deviation (mm)	10	15	12	15	8	9	7	8

11. TRACEABILITY OF BOGIE ITEMS:-

S. NO	ITEM	MAKE/ SUPPLIER	510SERIAL NO.	
			NPP SIDE20	PP SIDE
1.	Yaw Damper	ESCORT	7287,7311	7329,7318
2.	Primary outer Spring	CMFSK	03-19 7411-545-(424,19,16,12)	11-19 7411-(560-14,561-250,559-4,561-8)
3.	Primary Inner Spring	CMGBD	08-20 F04-387-(17,104,155,180)	08-20 F04-387 -(45,09,63,33)
4.	Primary Damper	IAI	06-20 (321113,309031,320279,309100)	06-20 (320134,319953,320180,320015)
5.	Secondary Damper	KONI	04-19 (03546,05794)	04-19 (06479,05548)
6.	Lateral Damper	KONI	03-19 01058	03-19 00465
7.	Brake Cylinder	FAV	F20-(027,375,370,029)	F20-(088,447,403,090)
8.	Brake Caliper	FAV	H20(195,193,194,196)-B	H20(068,066,065,067)-B
9.	Brake Disc	KBI/FAV	24229073 0045-30/20,24229073 0046-30/20 24229073 0047-30/20,24229073 0048-30/20	08-20(1)2418,2415,3039,2915)D133561-300
10.	Ball Joint Control Arm	BASANT/BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BASANT/BONY		
15.	Ball joint traction centre	SGA/AR		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	PRAG/GMT		
18.	Anti roll bar Make	RF/SARITA		
19.	Roll Link make	RF+ GMT		
20.	Fork make	RF/RNG		
21.	Control Arm Upper	RVE/CC	301219-3,301219-3,271219-1,301219-3	20F248,20C513,20A736,20G513
22.	Control Arm Lower	RVE/CC	241219-3,RVE,241219-2,201219-5	20G536,20F7,20B716,20F78
23.	Phonic Wheel	FAV	FT/KEP-600	FT/KEP-600

Signature of SSE/Bogie/QC



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Type	LWACCN	Shell No.	20C185	DISPATCH TO	Sr.DME/C&W/LTT
				FUR.NO.	L3T-1603

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELEY	B21058B
2	Distribution valve	M/S-FAIVELEY	B215563B
3	Pull box	M/S-KBI	
4	FIBA	NIL	
5	Foot Step	M/S-FABRICON KOLKATA	
6	Decoupling arrangement	M/S-PULSAR RUBBER KOLKATA	
7	Floor board	M/S -TWPL MUMBAI	
8	PVC	M/S-CMT MECHNAISED VADODARA	
9	UIC Vestibule (PPE)	M/S-ELASTOMER MUMBAI	
10	UIC Vestibule (NPPE)	M/S-ELASTOMER MUMBAI	
11	Gangway bridge mounting (PPE)	M/S-MMW KXH	
12	Gangway bridge mounting (NPPE)	M/S-MMW KXH	
13	Body Side Window	M/S-CMT MECHNAISED VADODARA	
14	Emergency Window	M/S-CMT MECHNAISED VADODARA	
15	Lavatory/hopper Window	M/S-CMT MECHNAISED VADODARA	
16	Roof Ceiling	M/S-CMT MECHNAISED VADODARA	
17	Door way /gang way ceiling	M/S-J.R.JUC	
18	Supply Air Duct	M/S-HANSPAL KXH	
19	Side Wall panel	M/S-CMT MECHNAISED VADODARA	
20	Partition panel	M/S-CMT MECHNAISED VADODARA	
21	Partition pillar	M/S-CMT MECHNAISED VADODARA	
22	AC Trough	M/S-MSL MOHALI	
23	Body Side Doors	M/S-CMT MECHNAISED VADODARA	
24	Compartment Door (PPE)	M/S-POOJA SALES	
25	Compartment Door (NPPE)	M/S-POOJA SALES	
26	Vestibule Door(PPE)	M/s-KALSI LDH	
27	Vestibule Door(NPPE)	M/s-KALSI LDH	
28	RMPU	M/S-INTEC DEHRADUN	
29	Bio Tank	M/S-FLASH FORGE-02 NOS+UNIFAB-02 NOS	
30	Pressurized flushing (ele. Pneu.)	M/S-OASIS	
31	Auxiliary Water Tank	M/S-SHIVALIK FAST MOHALI	
32	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST MOHALI	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG BADDI	
34	Health Faucet	M/S-HFGW VADODARA	
35	Lotah Filler Tap	M/S-HFGW VADODARA	
36	Bib cock	M/S-JAQUAR ALWAR	
37	Lavatory Modules	M/S-CMT MECHNAISED VADODARA	
38	Lavatory Doors	M/S-CMT MECHNAISED VADODARA	
39	Fire Extinguisher	M/S-SAFEX FIRE	044443,044439
40	Automatic smoke & heat Detection with alarm System	NIL	
41	Seat & Berth	M/S-CMT MECHNAISED VADODARA	
42	Light Luggage Rack	M/S-CMT MECHNAISED VADODARA	
43	Snack Table	M/S-CMT MECHNAISED VADODARA	
44	Venturi grill	M/S-CMT MECHNAISED VADODARA	
45	RFID	NIL	

SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



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Type	LWACCN	Shell No.	20C185	DISPATCH TO	Sr.DME/C&W/LTT
				FUR.NO.	L3T-1603

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
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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 30months 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 qualityrcfrbl@gmail.com
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from

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.

 वरिष्ठ अनु अभियंता SSE/QC/MCF/RBL गुणवत्ता विभाग आ. र. डि. को. रायबरेली (कालगंज) MCF, RBL	 24.06.2021 SME/AME/QC/MCF/RBL आ. र. डि. को. रायबरेली MCF, RBL	 Sudhir Kumar Dy. QM/MCF/RBL आ. र. डि. को. रायबरेली MCF, RBL
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B-1, B-2, G-32, G-33, G-34, UPSIDC INDUSTRIAL AREA, JAINPUR-209 311, KANPUR DEHAT (UTTAR PRADESH)
TEL : 05111-220231 TO 220239 • FAX : 05111-220235, Corporate Identity No. L24202MH1920PLC000825

WARRANTY CERTIFICATE

Date: 31/10/2020

To,
The Dy. CME/Paint,
M/s. Modern Coach Factory,
Lalganj, Raebareli. (U.P)

SUBJECT : PERFORMANCE WARRANTY CERTIFICATE

REF : P.O. No. 06170082. R1860045 DT.25.09.18

NAME OF WORK : SUPPLY AND APPLY OF PU PAINT PU PAINTS FOR LHB TYPE RAJDHANI COACHES

Dear Sir,

With reference to the subject head, we do hereby confirm the warranty for three years from the date of application of the delivered below mentioned coaches vide your above referred purchase order after application and due inspection at your end.

SL. NO.	SHELL NO.	FURNISHING NO.	COACH NO.	RAILWAY NO.	DATE OF COMPLETION
293.	LWACCN 20C185	43T-1603	211237	CM	23/10/2020

The warranty period is applicable from the date of dispatch against the below mentioned defects as per RDSO Specification No. M&C/PCN/100/2013.

- Gloss level value of applied paint initial 85 unit (on the date of painting) and minimum 80.% 70 %b& 60% of initial gloss after one year, two years and three years respectively from the date of application.
- Decolonization of paint film.
- Cracking of paint film.
- Peeling of paint film.
- Blistering of the paint film.

Thanking you,

Your's faithfully,
For Kansai Nerolac Paints Limited

Authorized Signatory

Kansai Nerolac Paints Limited

Authorised Signatory

Warranty disclaimer : Kansai Nerolac Paints (KNP) warrants the products to be free from defects in material and workmanship. KNP makes no other warranties concerning the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply to the Products and in no event shall KNP be liable for consequential or incidental damages. Any recommendation or suggestion relating to use of the products made by KNP, whether in the technical literature, of KNP or in response to specific inquiry, or otherwise, is based on data believed to be reliable by KNP and KNP shall not be liable for any loss or damage incurred to the Buyer on account thereof. However the products and information are intended for use by Buyers having requisite skill and know-how in the industry and therefore it is for the Buyer to satisfy himself of the suitability of the products for his own particular use and it shall be deemed that Buyer has done so, at his sole discretion and risk. Variation in environment, changes in procedures of use or extrapolation of data may cause unsatisfactory result.

Regd. Office : Nerolac House, Ganpatrao Kadam Marg, Lower Parel, Mumbai - 400 013 India. Tel. : (022) 2493 4001, www.nerolac.com



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T COACH.					
TYPE COACH		LWACCN		SHELL/COACH NO	
RAILWAY		CR		211237/C	
		ELECT. FIT DATE		11-03-2021	
				MCF FUR. NO.	
				3T-1603	
Sr. no.	Description of tests				Remarks
1.0	REFERENCE SPECIFICATION : L 446				
1.1	AIR CONDITIONING TEST : ELPS/TP/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		28.28 Cub mtr/min		OK
3.2	Return Air		75.56 Cub mtr/min		OK
3.3	Exhaust Air		5.26 Cub mtr/min		OK
3.4	Conditioned Air		160.06 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 PP Side : 20.4 °C NPP Side : 20.3 °C				OK
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
Modern Coach Factory Raebareli



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T COACH.		
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 BERTH READING LIGHTS	OK
10.0	WORKING OF COMPARTMENT LIGHTS	OK
11.0	WORKING OF MOBILE CHARGING SOCKETS	OK
12.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	OK
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	WORKING OF COMPOSITE PANTRY(ONLY FOR RAJDHANI COACH)	N/A
19.0	SAFETY :	---
19.1	OHP :	OK
19.1	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
19.2	LP/HP GAUGE	OK
19.3	HYGROSTAT	OK
19.4	CONTROL CIRCUIT	OK
19.5	POWER CIRCUIT	OK
20.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : INTEC Sr no of RMPU 1(NPP side) : 20H 1940 Sr no of RMPU 2(PP side): 20J 2012 Sr no of Microprocessor. : 19112971-SIDWAL	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-21-01-0277	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0) MEDTS-0004,Rev.-1 for Smart SBC	01 no.
03.	Pump equipment with PLC controller & pump box Make: KIND PA Sr.no: KIND/ASY/0087 Sr no.1: 19060374 Sr no.2 : 19060375 Sr.no.CPA: 20/03/0148-HIND	As per spec EDTS 186,Rev-a, Am-2. As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	01 Set
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02 no.
05.	Provision of Passenger area LED Light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09 no.
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	OK
07.	Provision of Cabin/Corridor Light with Night light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09 no.
08.	Mounting of Cabin/Corridor Light with Night light .	As per drg no. LW 76091.	OK
09.	Provision & mounting of Doorway/ Gangway light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099 -	07 no.
10.	Provision & Mounting of PACIL Assly. Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02 no.
11.	Provision & Mounting of WC light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097. -	02 no.
12.	Provision & Mounting of Lavatory Light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092. -	04 no.
13.	Provision of Emergency Lighting system Make: INTEG	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	04 no.
14.	Provision of razor socket for WC for 110/240V Make: N/A	. EDML047,ITEM-4	N/A

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
15.	PA system for LHB coaches Make: AHUJA	EDTS 173,Rev- B,Cor-1.	01 Set
16.	Provision of terminal strip complete	EDML 034,Rev-C,DRG NO.LW76054	01 Set
17.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	ok
18.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate & 2 no. ON_ OFF switches 6A,250 V AC and 1 no. 5-pin socket 6A,250V AC with 1.0 Amp glass fuse. Make : SALZER	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-4 ,Drg. No. LW74202	09 no.
19.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. 5-pin socket 6A, 250 V AC 1 no. 1.0 Amp glass fuse. Make : SALZER	As per spec EDML-064,REV-B,Am-1 alt 'c' Item 16,Drg. No. LW74202	54 no.
20.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 no. ON-OFF switches and 1 no. 5-pin socket 6A, 250 V AC 1 no. 1.0 Amp glass. Make : SALZER	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-5, Drg. No. LW74202	09 no.
21.	Provision & Mounting of reading light for upper berth Make : AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2 & Drg no LW 76094	27 no.
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no. LW 76095	18 no.
23.	Provision & Mounting of reading light for berth transverse (LHS) Make: DHINGRA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no. LW 76096	18 no.
24.	Provision & Mounting of reading light for berth Longitudinal. Make: DEVINTEC	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76096	09 no.
25.	Provision of High Capacity Inter –Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make:- 1.(NPP): PRIME ELECT. 2.(PP): PRIME ELECT.	As per Spec. no. RDSO/PE/SPEC/AC/0177(R ev.-0)-2013 with annexure-A, B.	01 set
26.	70AH/110V, 54 Cells, 02V each, maintenance free pure lead acid tin monoblock, battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 11/19	EDTS 129,Rev nil	01 set

Senior Section Engineer
Quality control / Electrical
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REV NO: 01

DATE: 29.06.2020

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
27.	Provision of Cable Jacket, Size 75, 50, 20 mtr.	As per spec no. EDTS 0138, Item 5,8,11	ok
28.	Provision of cable binder.	As per Drg. No. cc76129, Item 2,4.	ok
29.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005, Alt C	01 no.
30.	Battery fuse box +ve Make : INDORAIL	LW 71001, Alt-H	01 no.
31.	Battery fuse box -ve Make : AECO	LW 71002, Alt-I	01 no.
32.	Provision of Regulated Battery Charger Make: HITACHI Sr. no.: 18101660	As per spec no. RDSO/PE/SPEC/AC/0183-(REV.-0) . Or RDSO/PE/SPEC/AC/0183-2015(REV.-1)-For Under slung RBC cum EBC.	01 no.
33.	Emergency battery charger Make : WAVES Sr.no.: WEBCJ 206039	EDTS163,REV-C,COR-2&3	01 no
34.	Provision of 5 KVA TFR Make : VIMAL Sr no : VTC 3089 LHB 1623	As Per EDTS-366,REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020097301	As per EDML-130 Rev-1, Corr-1	01 no.
36.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-3868	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make : LIGHT ENGG.	EDTS-328 REV-C	01 set
38.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	01 set
39.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr. no : 13131	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 set
40.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: MV	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	02
41.	PANTRY EQUIPMENTS(ONLY FOR RAJDHANI COACH). Hot Case, Bottle cooler cum deep freezer Make : N/A	As per spec no EDTS 139, Rev-E, Sec II.	N/A

 वरिष्ठ अनुभाग अभियन्ता SSE/Elect/QC गुणवत्ता नियंत्रण आपरेटिंग/लागू/सदस्य S.S.E./Elect-QC/M.C.F./LLJ/RBL	 29/07/21 AWM(ELECT.)/MCF/RBL SSEP/MCF/RBL आपरेटिंग/लागू/सदस्य A.W.M./Electrical/MCF/RBL
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