



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/2020-21/1298

RLY	CR	COACH NO	211310/C	DATE OF DISPATCH	20-Mar-21
Type	LWACCN	Shell No.	20C303	DISPATCH TO	Sr.DME/C&W/LTT
				FUR.NO.	L3T-1711

- Railway Board's Order No. : 2020/M(C)142/2, DATE-29.01.2021
- Tare Weight of Coach : 45.6 Tonnes
- Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL
- 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
- 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 1100/1100

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-SFPL	-----
		Part NPP END M/S-SICO	1762
	Complete	MCF/RBL-V4U TECHIE	20C303
2	Lav. side wall	M/S-RAIL TECH KXH LAV.1	----- LAV.2 -----
		M/S-RAIL TECH KXH LAV.3	----- LAV.4 -----
3	Side wall	LH SIDE MCF/RBL-V4U LKO	187
		RH SIDE MCF/RBL-V4U LKO	187
4	End wall	PP END M/S-OMAX	-----
		NPP END PP END M/S-OMAX	-----
5	Roof	MCF/RBL-CONT.	68
6	Centre Buffer Coupler	M/S-SANROCK	NPP/PP 17406/17340

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.	07 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	GSI	M/S-GSI (S&A)	90/88	24-Feb-21
2	Insulation			Satisfactory		

चर ०३२०० अभियंता
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, 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/-1298

RLY	C	R	-	Coach No.	2	1	1	3	1	0	/	C	-	DATE OF DISPATCH	2	0	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	3	0	3	FUR .NO	L3T-1711
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9. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	202761				202762			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX- 395				SIMPLEX- 396			
Bolster no.	APEX-390				APEX-389			
Axle No	21 C – 4417 RWF		21C – 4522 RWF		18 F – 9533 RWF		21 C – 4472 RWF	
Wheel Dia	917.402	917.511	917.51	917.53	917.418	917.501	917.51	917.57
Wheel Disc No	TZ 09-20 27485-OTC2	TZ 09-20 28508-0SE5	TZ 09-20 31834-0TD6	TZ 09-20 30662-0TD4	TZ 09-20 28138-0RE6	TZ 09-20 32050-0TE8	TZ 09-20 29101-0SF4	TZ 06-20 18535-0PE3
R.B. Nos.	06-20 412739	06-20 413953	03-20 300216	06-20 413811	06-20 412090	06-20 413420	06-20 412775	06-20 412328
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 F15-156-74	CMFSK01-19 9513-395-484	CMFSK02-20 F15-156-543	CMFSK01-19- 9513-395-587	CMFSK02-20 F15-156-120	CMFSK01-19-9513- 395-460	CMFSK02-20 F15-156-99	CMFSK01-19-395- 196
Compressed Ht. at Tested Load	513.5	468	514	466	514	465	510.5	467.5
Alignment deviation (mm)	7	11	7	11	8	9	9	8

11. TRACEABILITY OF BOGIE ITEMS:-

S. NO	ITEM	MAKE/ SUPPLIER	510SERIAL NO.	
			NPP SIDE20	PP SIDE
1.	Yaw Damper	ESCORTS	8281,7408,	8189,8282
2.	Primary outer Spring	CMFSK	11-19 7411-059-(1523,173,345,626)	11-19 7411-059-(734,450,647,403)
3.	Primary Inner Spring	CMFSK	10-20 F04-030-(193,59,1391,127)	10-20 F04-030-(168,115,192,152)
4.	Primary Damper	IAI	01-20 (300523,300448,299323,300204)	01-20 (301148,299537,300793,301063)
5.	Secondary Damper	KONI	04-19 (06636,06804)	04-19 (03339,003514)
6.	Lateral Damper	KONI	03-19 00308	03-19 00389
7.	Brake Cylinder	FAV	M20(195,,)A21(032,008,0073)	N20-077,A21(011,033),H20-193
8.	Brake Caliper	FAV	B21(198,195,207,209)-B	B21(210,208,196,197)-B
9.	Brake Disc	KBI	24241024 0070-49/20,24243853 0044-49/20 24243855 0020-50/20,24243855 0019-50/20	24247102 0033-03/21,24243853 0046-49/20 24241024 0069-49/20,24247102 0034-03/21
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	BASANT /PPI		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	BONY		
18.	Anti roll bar Make	RF		
19.	Roll Link make	EMSON+ BASANT JUR+ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	SF	H11,H43,H42,H38	H99,H63,H72,H90
22.	Control Arm Lower	SF	H29,H27,H160,H62	H72,H261,H85,H12
23.	Phonic Wheel	ESCORTS	ESCORTS	ESCORTS

Signature of SSE/Bogie/QC



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RLY	CR	COACH NO	211310/C	DATE OF DISPATCH	20-Mar-21
Type	LWACCN	Shell No.	20C303	DISPATCH TO	Sr.DME/C&W/LTT
				FUR.NO.	L3T-1711

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELEY	B21072B
2	Distribution valve	M/S-FAIVELEY	B215504B
3	Pull box	M/S-FAIVELEY	
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-SUNCREST KOLKATA	
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-P.D.STEEL	
18	Supply Air Duct	M/S-HANSAL 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+MEENA FIBRE	
23	Body Side Doors	M/S-CMT MECHNAISED VADODARA	
24	Compartment Door (PPE)	M/S-HANSAL KXH	
25	Compartment Door (NPPE)	M/S-POOJA SALES	
26	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
27	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
28	RMPU	M/S-ESS ESS KAY (SSK)	
29	Bio Tank	M/S-RAIL FAB-02 NOS+JSL LIFE -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-OASIS	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG MOHALI	
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-SHAAN INDS	226,159
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	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लागवज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	CR	COACH NO	211310/C		DATE OF DISPATCH	20-Mar-21
Type	LWACCN	Shell No.	20C303	DISPATCH TO	Sr.DME/C&W/LTT	FUR.NO. L3T-1711

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 qualityrcrbl@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.

SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy. Chief Quality Manager By COM/MCF/RBL

वरिष्ठ गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)

Assistant Mechanical Engineer / Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

Modern Coach Factory, Raebareli



GSTIN : 03ACBPK3400D1ZM
Excise Regn. No. ACBPK3400DXM001

G. S. INDUSTRIES

APPROVED BY

**N.S.I.C.
R.D.S.O.**

**ISO 9001-2015
ISO 14001-2015**

D-146, FOCAL POINT EXTENSION, JALANDHAR-144004

PHONE : (O) 0181-5081474

(M) 99882-65025, 99884-55459

Website : www.gspaints.com

e-mail : info@gspaints.com

WARRANTY CERTIFICATE

To,
Dy.CME/FP
MODERN COACH FACTORY,
RAEBARELI, LALGANJ-229120

Dated 4/3/21

Sub:- Performance warranty certificates.

Ref: - P.O.no 31061800101167 DATED 21.08.2019

Name Of Work: - Pu Paint For Lhb Type Rajdhani Coaches.

Dear Sir,

With reference to above, we do here by confirm the warranty for three years from the date of application of the delivered below mention coaches vide your above referred purchase order after application & due inspection at your end.

SR.	SHELL NO.	FURNISHING NO.	COACH NO.	Railway NO.	DATE OF COMPLETION
281	2WACCN 20C303	LBT-1711	211310	CR	24.2.21

The warranty is applicable from date of dispatch against the below mention defects as per RDSO specification no. M&C/PCN/100/2018.

- Gloss level value of applied paint-initial 85 unit (on the date of painting) and minimum 80%, 70% and 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,
For G.S. Industries

Auth. signatory



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना,

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DOC NO.: MCF/RBL/QEF/8001

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DATE: 29.06.2020

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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		211310/C	
		ELECT. FIT DATE		19-03-2021	
				MCF FUR. NO.	
				3T-1711	
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		30.08 Cub mtr/min		OK
3.2	Return Air		74.45 Cub mtr/min		OK
3.3	Exhaust Air		5.69 Cub mtr/min		OK
3.4	Conditioned Air		166.59 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

Senior Section Engineer
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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 : SSK Sr no of RMPU 1(NPP side) : 2050/20 Sr no of RMPU 2(PP side): 2051/20 Sr no of Microprocessor. : 2101123	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-21-01-0273	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/0040 Sr no.1: 19060279 Sr no.2 : 19060280 Sr.no.CPA: 20/3/146-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: DR AUTO	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

Senior Section Engineer
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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: DR AUTO	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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आधुनिक रेल डिब्बा कारखाना,
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DOC NO.: MCF/RBL/QEF/8001

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.: 18101658	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 : BHASIN Sr.no.: 01207145	EDTS163,REV-C,COR-2&3	01 no
34.	Provision of 5 KVA TFR Make : VIMAL Sr no : VTC 3089 LHB 1578	As Per EDTS-366,REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020108099	As per EDML-130 Rev-1, Corr-1	01 no.
36.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-3833	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
38.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	01 set
39.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr. no : 13158	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

 S.S.E/EL/QC वरिष्ठ अनुमान अभियन्ता गुणवत्ता नियंत्रण आर०रे०डि०का० / लालगंज / रायबरेली S.S.E/Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आर०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL
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