



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 02

DATE: 28.05.21

ROLLING STOCK CERTIFICATE(AC COACH)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-2022 /93

RLY	ER	COACH NO	211722/C	DATE OF DISPATCH	7-May-21
Type	LWACCN	Shell No.	20C298	DISPATCH TO	Sr.DME/C&W/KOAA
				FUR.NO.	L3T-1680

1 Railway Board's Order No. :2021 (C)/142/2,Dt- 05.03.2021

2 Tare Weight & Carrying Capacity of Coach :

S.N	COACH TYPE	LWACCN	LWACCW	LWLRRM	LWCBAC	LFCWAC	LWSCZAC	LWFAC	LWFCZAC
i	Tare Weight	45.6	44.5	53.2	39	42.5	40.28		39
ii	Seating	72	52	NIL	15	10+28	78	24	56
iii	Sleeping	72	52	NIL	15	10+28	NIL	24	NIL
iv	Luggage	NIL	NIL	3.9	NIL	NIL	NIL	NIL	NIL

3 Special feature:

i 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

ii Venturi arrangement in lavatory

4 Smart feature: NIL

5 SHELL LEADING DIMENSIONS:

S.N	DESCRIPTION	DIMENSION (MM)
i	Maximum Length over body	23700
ii	Maximum Width over body	3240
iii	Maximum Height from Rail Level	LWACCN , LWACCW 4250 LWLRRM,LWCBAC,LFCWAC,LWSCZAC,LWFAC,LWFCZAC 4039
iv	CBC height/Buffer Height from Rail level	1105 +0/-10 NPP/PP 1105/1105

6 TRACEABILITY OF SHELL ITEMS:

S.N	ITEM	MAKE/SUPPLIER	SERIAL NO
i	Under frame	Front PP END M/S-OMAX	49
		Part NPP END M/S-OMAX	61
		Complete MCF/RBL-SIS LINE	20C298
ii	Lav. side wall	M/S-RAIL TECH KXH LAV.1	LAV.2
		M/S-RAIL TECH KXH LAV.3	LAV.4
iii	Side wall	LH SIDE MCF/RBL-V4U LKO	133/01
		RH SIDE MCF/RBL-V4U LKO	133/02
iv	End wall	PP END M/S-OMAX REWARI	
		NPP END M/S-OMAX REWARI	
v	Roof	MCF/RBL-CONT.	60
vi	Centre Buffer Coupler	M/S-SANROCK	NPP/PP 17155/17171
vii	Buffer	NIL	NPP/PP N/A

7 AIR BRAKE TEST REPORT:

S.N	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
i	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
ii	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
iii	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK
iv	Handbrake(Parking brake)for generator car	1.Apply hand brake	1.Hand Bk. Indicator should be red	OK
		2.Release hand brake	2. Hand Bk. indicator should be green	OK

8 FIRE TESTING:

S.N	DESCRIPTION	SPEC. VALUE	OBSERVED
i	Smoke detection	A-controller should display smoke in zone 1,2 B-strobe light & hooter should activate	OK
ii	Heat detection	A-controller should display smoke/heat in zone 1,2 B- strobe light & hooter should activate	OK

9 PAINTING DETAILS:

S.N	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE SIDE WALL/END WALL	DATE OF COMPLETION
i	Paint	P.U	KANSAI NEROLAC	M/S-KANSAI NEROLAC	90/89	24-Dec-20
ii	Insulation-	Satisfactory	ANTIGRAFFITE COATING-	NIL	WET ON WET-	NIL

10 COACH FURNISH DETAILS :

S.N	ACTIVITIES	FIRM	TURNKEY/WORK CONTRACT/SUPPLY&APPLY
i	Coach Furnishing	M/S-H.F.GLASS VADODARA	WORK CONTRACT
ii	Air Brake	M/S-S/R	WORK CONTRACT
iii	Bio toilet & flushing	M/S-VEDANSH ENT.	SUPPLY&APPLY
iv	Fire detection	NIL	NIL

SSE/QC/MCF/RBL

24/8/2021

वरिष्ठ अनु 0 अभियंता

गुणवत्ता विभाग

रेडिओ का 0, रायबरेली (लाजगंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	ER	COACH NO	211722/C	DATE OF DISPATCH	7-May-21
Type	LWACCN	Shell No.	20C298	DISPATCH TO	Sr.DME/C&W/KOAA
				FUR.NO.	L3T-1680

11 MODIFICATION (IF ANY) : NIL
12 DEVIATION (IF ANY) : NIL
13 ITEM FITTED ON THE COACH ON TRIAL : NIL

S.N	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL
i				

14.A TRACEABILITY OF FURNISHING ITEMS:(common items for all coach)

S.N	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
i	Air Brake Module	M/S-KBI	6268-08/21
ii	Distribution valve	M/S-KBI	2021B13128
iii	Pull box	M/S-KBI	
iv	FIBA	NIL	NIL
v	Foot Step	M/S-HITECH INFRAVENTURE RBL	
vi	Decoupling arrangement	M/S-PULSAR RUBBER KOLKATA	
vii	Floor board	M/S-TWPL MUMBAI	
viii	PVC	M/S-RESPONSIVE MUMBAI	
ix	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
x	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
xi	Gangway bridge mounting (PPE)	M/S-MAHAVEER METAL WORK KXH	
xii	Gangway bridge mounting (NPPE)	M/S-MAHAVEER METAL WORK KXH	
xiii	Body Side Window	M/S-AXSYS SOLUTION SIRMOUR	
xiv	Emergency Window	M/S-AXSYS SOLUTION SIRMOUR	
xv	Lavatory/hopper Window	M/S-BIRCON ENG GZB	
xvi	Roof Ceiling	M/S-MOBILITY SOLUTION MOHALI	
xvii	Door way /gang way ceiling	M/S-P.D.STEEL	
xviii	Supply Air Duct	M/S-HANSPAL KXH	
xix	Partition panel	M/S-PUNJAB LAMINATED H.P	
xx	Partition pillar	M/S-J.R.INDS.JUC	
xxi	Side Wall panel	M/S-H.F.GLASS VADODARA	
xxii	AC Trough	M/S-BHARAT FIBER LKO	
xxiii	Body Side Doors	M/S-H.F.GLASS VADODARA	
xxiv	Compartment Door (PPE)	M/S-POOJA SALES	
xxv	Compartment Door (NPPE)	M/S-POOJA SALES	
xxvi	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
xxvii	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
xxviii	RMPU	M/S-AMIT ENGG,SOLAN	
xxix	Bio Tank	M/S-CEMCON CASTING-02 nos+JSL-02 nos	
xxx	Pressurized flushing (ele. Pneu.)	M/S-SPAC	
xxxi	Auxiliary Water Tank	M/S-SHIVALIK MOHALI	
xxxii	Under Slung Water Tank (2X685L)	M/S-OASIS	
xxxiii	Under Slung Water Tank (1x450 L)	M/S-AMIT ENG.MOHALI	
xxxiv	Health Faucet	M/S-H.F.GLASS VADODARA	
xxxv	Lotah Filler Tap	M/S-H.F.GLASS VADODARA	
xxxvi	Bib cock	M/S-JAQUAR ALWAR	
xxxvii	Lavatory Modules	M/S-H.F.GLASS VADODARA	
xxxviii	Lavatory Doors	M/S-H.F.GLASS VADODARA	
xxxix	Fire Extinguisher	M/S-SHAAN INDS	213/324
xxxx	Seat & Berth	M/S-ANANYA RCC LLJ	
xxxxi	Snack Table	M/S-DJUM NOIDA	
xxxxii	Light Luggage Rack	M/S-TECHNO INDS ALD	
xxxxiii	Venturi grill	M/S-H.F.GLASS VADODARA	
xxxxiv	Auto janitor	M/S-H.F.GLASS VADODARA	
xxxxv	Automatic smoke & heat Detection with alarm System	NIL	

14.B TRACEABILITY OF FURNISHING ITEMS:(items for variant wise)

i	Vacuum toilet system	N/A
ii	Odour control system	N/A
iii	CCTV	N/A

SSE/QC/MCF/RBL

वरिष्ठ अभियंता

गुणवत्ता विभाग

रेलवे कारखाना, रायबरेली (उत्तर प्रदेश)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	E	R	-	Coach No.	2	1	1	7	2	2	/	C	-	DATE OF DISPATCH	0	7	0	5	2	0	2	1
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DISPATCH	Sr.DME/C&W/KOAA	Type	L	W	A	C	C	N	Shell No.	2	0	C	2	9	8	FUR .NO	L3T-1680
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15. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	210115				210116			
Bogie Type	FIAT				FIAT			
Frame no.	V.S - 1997				SIMPLEX- 146			
Bolster no.	AMIT ENGG- 359				AMIT ENGG- 361			
Axle No	21C - 6051 RWF		21C - 3743 RWF		21 C - 4144 RWF		21 C - 3790 RWF	
Wheel Dia	917.54	917.53	917.42	917.47	917.41	917.45	917.40	917.43
Wheel Disc No	TZ 07-17 28066-7RG9	TZ 07-17 25409-7KH5	TZ 07-17 28065-7RJ2	TZ 02-19 24815-9MG5	TZ -07-17 24803-7RJ3	TZ -02-19 24825-9MG5	TZ -06-17 20738-7QK1	TZ -08-19 75037-9SK9
R.B. Nos.	10-20 431494	10-20 433227	10-20 431637	10-20 431988	10-20 421233	10-20 431666	10-20 431769	10-20 431689
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

16. 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.	CMFSK 02-20 F16-171-329	CMFSK 01-19 9513-099-395	CMFSK 02-20 F16-171-402	CMFSK 01-19 9513-099-450	CMFSK 02-20 F16-171-391	CMFSK 01-19 9513-099-524	CMFSK02-20 F16-171-350	CMFSK 01-19 9513-099-581
Compressed Ht. at Tested Load	514	468	515	463	513	468	513.3	463
Alignment deviation (mm)	13	14	10	14	9	11	7	13

17. TRACEABILITY OF BOGIE ITEMS:-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	ESCORT	7782,7868	7214,7207
2.	Primary outer Spring	CMSTL	01-19 F03-N79-03A-(2123,2735,2321,3427)	01-19 F03-N79-03A-(3099,3450,2504,3950)
3.	Primary Inner Spring	CMAFJ	01-20 7143-(94,329,285,29)	01-20 7143-(330,41,331,286)
4.	Primary Damper	IAI	02-20 (309586,309559,310496,310443)	02-20 (310381,310487,309491,309558)
5.	Secondary Damper	KONI	04-19 (06378,06298)	04-19 (06271,06380)
6.	Lateral Damper	KONI	03-19 01946	04-19 01909
7.	Brake Cylinder	KBI	D(2824,0961,0960,2311)-K-29	D(2676,1102,1094,2677)-K-29
8.	Brake Caliper	KBI	2921096968,2921097187,2921097285,2921096957	2921097147,2921097768,2921097787,2921097168
9.	Brake Disc	KBI	24253222-0049-09-21,24253222-0048-09-21, 24249994-0041-08-21,24249995-0013-08-21	24253223-0033-10-21,24253223-0034-10-21, 24250002-0055-09-21,24253222-0050-09-21
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	BONY		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	SF(SARITA)		
19.	Roll Link make	EMSON+GMT/ JUR+BONY		
20.	Fork make	RNG		
21.	Control Arm Upper	SF(SARITA)	H66,H26,H14,H236	H-88,H-4,H-91,H-7
22.	Control Arm Lower	SF(SARITA)	H128,H68,H215,H87	H-117,H-232,H-260,H-88
23.	Phonic Wheel	ESCORT		

Signature of SSE/Bogie/QC

SME/AME/QC/MCF/RBL

Dy.CQM/MCF/RBL

सहायक यांत्रिक इंजीनियर
Asst. Mechanical Engineer
आ. रे. डि. का. रायबरेली
MCF, RBL

उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly

B1,B2, G32,G33,G34, UPSIDC INDUSTRIAL AREA, JAINPUR-209311, KANPUR DEHAT
(UTTAR PRADESH) TEL.: 05111-220231 TO 220239. FAX: 05111-220235

WARRANTY CERTIFICATE

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

Date: 30/12/2020

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
344.	LWACCN 2CC298	L3T - 1680	211722/c	ER	24/12/2020

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 % & 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

Kansai Nerolac Paints Limited

Authorized Signatory

Head Office:
NEROLAC HOUSE

Ganpatrao Kadam Marg,

Lower Parel, Mumbai - 400013 India

Tel. : + 91.22.2493 4001

+91.22.2499 2500

CIN No.: L24202MH1920PLCO00825

Warranty Disclaimer: KNP warrants its 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. 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 its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; 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 Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results



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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		ER		211722/C	
		ELECT. FIT DATE		04-05-2021	
				MCF FUR. NO.	
				3T-1680	
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		29.16 Cub mtr/min		OK
3.2	Return Air		65.40 Cub mtr/min		OK
3.3	Exhaust Air		8.25 Cub mtr/min		OK
3.4	Conditioned Air		177.81 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 : 22.1 °C NPP Side : 21.4 °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

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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 : AMIT ENGG. Sr no of RMPU 1(NPP side) : 5900 B Sr no of RMPU 2(PP side): 5893 B Sr no of Microprocessor. : AE 2103047	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-21-03-0294	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: HIND PA Sr.no: 20/10/363 Sr no.1: 20/10/765 Sr no.2 : 20/10/766 Sr.no.CPA: 20/10/514-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: RT VISION	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: DR AUTO	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: ELECTROWAVES	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: AGASTYA	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: IMT	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: SSK	. EDML047,ITEM-4	04 no.

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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 : RT VISION	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: RT VISION	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: RT VISION	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 : 03/21	EDTS 129,Rev nil	01 set

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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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: ANKUR	As per drgno 1 10113 0 76 700 005, Alt C	01 no.
30.	Battery fuse box +ve Make : RSI	LW 71001, Alt-H	01 no.
31.	Battery fuse box -ve Make : RSI	LW 71002, Alt-I	01 no.
32.	Provision of Regulated Battery Charger Make: HITACHI Sr. no.: 18121870	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.: 01207046	EDTS163, REV-C, COR-2&3	01 no
34.	Provision of 5 KVA TFR Make : VIMAL Sr no : VTC 3089 LHB 1694	As Per EDTS-366, REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020108068	As per EDML-130 Rev-1, Corr-1	01 no.
36.	60KVA transformer Make : WAVES Sr no : W60KB 21376	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 : KNORR Sr. no : 0120154972	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

SSE/EL/QC	AWM(ELECT.)/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
एन०/डि०का०/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक/विद्युत
आ०रे०डि०का०/रायबरेली
A.W.M./Electrical/MCF/RBL

