



**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 /44

RLY	ER	COACH NO	211719/C	DATE OF DISPATCH	13-Apr-21
Type	LWACCN	Shell No.	20C269	DISPATCH TO	Sr.DME/C&W/KOAA
				FUR.NO.	L3T-1669

1 Railway Board's Order No. : 2021/M (C)/142/2,Dt- 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 1097/1101

**6 TRACEABILITY OF SHELL ITEMS:**

S.N	ITEM	MAKE/SUPPLIER	SERIAL NO
i	Under frame	Front PP END	M/S-PIL 137
		Part NPP END	M/S-PIL 187
		Complete	MCF/RBL-V4U TECHIE 20C269
ii	Lav. side wall	M/S-M.M. DHARWAD	LAV.1 ----- LAV.2 -----
		M/S-M.M. DHARWAD	LAV.3 ----- LAV.4 -----
iii	Side wall	LH SIDE	MCF/RBL-V4U LKO 123
		RH SIDE	MCF/RBL-V4U LKO 123
iv	End wall	PP END	M/S-PIL -----
		NPP END	M/S-OMAX -----
v	Roof	M/S-PIL	99
vi	Centre Buffer Coupler	M/S-ESCORTS	NPP/PP 5761,2228
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 <sup>2</sup> .	6 – 10 sec.	8 Sec
		Max. pressure in BC	3.0 ±0.15 kg/cm <sup>2</sup> .	3.0 kg/cm <sup>2</sup>
		All Brake are applied	OK	OK
ii	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
iii	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	DATE OF COMPLETION
i	Paint	P.U	K.NEROLAC	M/S-K.NEROLAC	91/88	8-Dec-20
ii	Insulation			Satisfactory		

**10 COACH FURNISH DETAILS :**

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

SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेलवे मंत्रालय, रायबरेली (लल्लूगंज)





Modern Coach Factory Raebareli  
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RLY	ER	COACH NO	211719/C			DATE OF DISPATCH	13-Apr-21
Type	LWACCN	Shell No.	20C269	DISPATCH TO	Sr.DME/C&W/KOAA	FUR.NO.	L3T-1669
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	6288-09/21			
ii	Distribution valve		M/S-KBI	2021C13150			
iii	Pull box		M/S-KBI				
iv	FIBA		NIL	NIL			
v	Foot Step		M/S-HI TECH RBL				
vi	Decoupling arrangement		M/S-PULSAR INDS KOLKATA				
vii	Floor board		M/S-TWPL MUMBAI				
viii	PVC		M/S-RESPONSIVE				
ix	UIC Vestibule (PPE)		M/S-SUNCREST KOLKATA				
x	UIC Vestibule (NPPE)		M/S-SUNCREST KOLKATA				
xi	Gangway bridge mounting (PPE)		M/s- MMW KXH				
xii	Gangway bridge mounting (NPPE)		M/s- MMW KXH				
xiii	Body Side Window		M/S-AXSYS SOLUTION				
xiv	Emergency Window		M/S-AXSYS SOLUTION				
xv	Lavatory/hopper Window		M/S-AXSYS SOLUTION				
xvi	Roof Ceiling		M/S-OMEGA POWER				
xvii	Door way /gang way ceiling		M/S-P.D.STEEL				
xviii	Supply Air Duct		M/s-HANSPAL TRADERS				
xix	Partition panel		M/S-MILTON INDS				
xx	Partition pillar		M/S-J.R.INDS JUC				
xxi	Side Wall panel		M/S-HFGW VADODARA				
xxii	AC Trough		M/S-TATA STEEL KOLKATA				
xxiii	Body Side Doors		M/S-HFGW VADODARA				
xxiv	Compartment Door (PPE)		M/s-HANSPAL KXH				
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-INTEC DERADHUN				
xxix	Bio Tank		M/s-FLASH FORGE-02 NOS+RASANDIK-02 NOS				
xxx	Pressurized flushing (ele. Pneu.)		M/S-SPAC				
xxxi	Auxiliary Water Tank		M/S-SHIVALIK FAST MOHALI				
xxxii	Under Slung Water Tank ( 2X685L)		M/S-RAIL TECH+AMIT ENGG. MOHALI				
xxxiii	Under Slung Water Tank (1x450 L)		M/S-OASIS				
xxxiv	Health Faucet		M/S-HFGW VADODARA				
xxxv	Lotah Filler Tap		M/S-HFGW VADODARA				
xxxvi	Bib cock		M/S-JAQUAR ALWAR				
xxxvii	Lavatory Modules		M/S-HFGW VADODARA				
xxxviii	Lavatory Doors		M/S-HFGW VADODARA				
xxxix	Fire Extinguisher		M/S-SAFEX FIRE	39810,39808			
xxxx	Seat & Berth		M/S-OVPL MUMBAI				
xxxxi	Snack Table		M/S-DJLM NOIDA				
xxxxii	Light Luggage Rack		M/S-TECHNO INDIA ALD				
xxxxiii	Venturi grill		M/S-HFGW VADODARA				
xxxxiv	Auto janitor		M/S-HFGW VADODARA				
xxxxv	Automatic smoke & heat Detection with alarm System		NIL				
14.B	TRACEABILITY OF FURNISHING ITEMS:(items for variant wise)-NIL						
<div>SSE/OC/MCF/RBL</div>							

SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रायबरेली (लागू)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	-	E	R	Coach No.	2	1	1	7	1	9	/	C	-	DATE OF DISPATCH	1	3	0	4	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	6	9	FUR .NO	L3T-1669
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**9. DETAIL OF BOGIES:-**

ITEMS	NPP Side				PP Side			
Bogie No	203017				203018			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX ENNG - 303				SIMPLEX ENNG - 290			
Bolster no.	APEX - 426				APEX - 411			
Axle No	21C - 3698 RWF		20 C - 4494 RWF		21 C - 3600 RWF		20 B - 0421 RWF	
Wheel Dia	917.379	917.356	917.39	917.40	917.373	917.378	917.39	917.41
Wheel Disc No	TZ 09-20 30942-0TE8	TZ 09-20 30940-0TE8	TZ 09-20 30945-0TE8	TZ 09-20 25373-0TD4	TZ 09-20 28193-0TC7	TZ 09-20 28191-0TC7	TZ 06-19 20794-7QK1	TZ 06-17 27275-7QJ9
R.B. Nos.	09-20 301325	09-20 429679	09-20 300756	09-20 301880	09-20 301162	10-20 432991	09-20 302562	09-20 301860
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.	CMFSK-02-20- F16-155-156	CMFSK-01-19- 9513-059-465	CMFSK-02-20- F16-155-103	CMFSK-01-19- 9513-059-388	CMFSK-02-20- F16-155-198	CMFSK-01-19- 9513-059-322	CMFSK-02-20- F16-155-189	CMFSK-01-19- 9513-059-417
Compressed Ht. at Tested Load	514.5	467	515	468	513.5	468	514	468
Alignment deviation (mm)	9	7	9	7	13	10	13	10

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

S. NO	ITEM	MAKE/SUPPLIER	510SERIAL NO.	
			NPP SIDE20	PP SIDE
1.	Yaw Damper	IAI	334562,334558	334795,336538
2.	Primary outer Spring	CMSTL	01-19-F03-S49-03A-(1107,2358,955,1390)	01-19-F03-S49-03A-(2374,1227,2567,1268)
3.	Primary Inner Spring	CMAFI	08-20-7143-(57,220,199,33)	08-20-7143-(188,200,181,127)
4.	Primary Damper	IAI	06-20-(320784,321073,320870,319762)	06-20-(320402,320668,320865,320941)
5.	Secondary Damper	KONI	04-19-(06694,03891)	04-19 (06451,06085)
6.	Lateral Damper	KONI	03-19 00723	03-20 0 0694
7.	Brake Cylinder	KBI	D-(2165,0718,0639,1386)-K29	D-(2169,0723,0714,2170)-K29
8.	Brake Caliper	KBI	A-(6844,7058,6984,6746)-29	A-(6843,7949,7957,6845)-29
9.	Brake Disc	KBI	24249982-(0067,0068,0065,0066)-06-21	24249898-(0021,0020)-04-21, 24243853-0033-50-20,24243854-0021-50-20
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	PPJ		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	PRAG/BONY		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON+BONY/ JUR+BONY		
20.	Fork make	RNG		
21.	Control Arm Upper	SF(SARITA)	H-(82,15,18,108)	H-(104,63,120,124)
22.	Control Arm Lower	SF(SARITA)	H-(168,205,73,218)	H-(217,124,62,58)
23.	Phonic Wheel	FAV	FT/UE/H20	FT/UE/H - 20

Signature of SSE/Bogie/QC	SME/AME/QC/MCF/RBL	DY.QCM/QC/MCF/RBL
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Asst. Mechanical Engineer  
आ. रे. डि. का. रायबरेली  
MCF, RBL

Dy. Chief Quality Manager  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Rae Bareilly





B1, B2, G32, G33, G34, UPSIDC INDUSTRIAL AREA, JAINPUR - 200311, 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: 12/12/2020

### 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
333.	LWACCN 20C269	L3T-1669			08/12/2020

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.: L24202MH1920PLCOO0825

**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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DATE: 29.06.2020

PAGE 1 OF 5

**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		211719/C	
		ELECT. FIT DATE		13-04-2021	
				MCF FUR. NO.	
				3T-1669	
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	29.09 Cub mtr/min			OK
3.2	Return Air	59.35 Cub mtr/min			OK
3.3	Exhaust Air	7.15 Cub mtr/min			OK
3.4	Conditioned Air	171.73 Cub mtr/min			OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition  PP Side : <b>23.4 °C</b> NPP Side : <b>21.6 °C</b>	OK			
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  NOT DONE.	----			

*[Signature]*

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli







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PAGE 2 OF 5

**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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PAGE 3 OF 5

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 : <b>INTEC</b> Sr no of RMPU 1(NPP side ) : <b>19K 1513</b> Sr no of RMPU 2(PP side): <b>19K 1525</b> Sr no of Microprocessor. : <b>19113021-SIDWAL</b>	As per RDSO/PE/SPES/AC/0061/REV-1/2005	<b>01 Set</b>
02.	Switch board cabinet Make : <b>ISG</b> Sr no : <b>SBC-MCF-20-10-0220</b>	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0) <b>MEDTS-0004,Rev.-1 for Smart SBC</b>	<b>01 no.</b>
03.	Pump equipment with PLC controller & pump box Make: <b>HIND</b> PA Sr.no: <b>20/10/400</b> Sr no.1: <b>20/10/839</b> Sr no.2 : <b>20/10/840</b> Sr.no.CPA: <b>2019/06/153-DR AUTO</b>	As per spec EDTS-186,Rev-a, Am-2.  As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	<b>01 Set</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02 no.</b>
05.	Provision of Passenger area LED Light(Cabin) Make: <b>ENSAVE</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09 no.</b>
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	<b>OK</b>
07.	Provision of Cabin/Corridor Light with Night light. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09 no.</b>
08.	Mounting of Cabin/Corridor Light with Night light .	As per drg no. LW 76091.	<b>OK</b>
09.	Provision & mounting of Doorway/Gangway light. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	<b>07 no.</b>
10.	Provision & Mounting of PACIL Assly. Make: <b>ELECTROWAVES</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	<b>02 no.</b>
11.	Provision & Mounting of WC light. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097.	<b>02 no.</b>
12.	Provision & Mounting of Lavatory Light. Make: <b>IMT</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	<b>04 no.</b>
13.	Provision of Emergency Lighting system Make: <b>INTEG</b>	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	<b>04 no.</b>
14.	Provision of razor socket for WC for 110/240V Make: <b>SSK</b>	. EDML047,ITEM-4	<b>04 no.</b>

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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PAGE 4 OF 5

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
15.	PA system for LHB coaches Make: <b>AHUJA</b>	EDTS 173,Rev- B,Cor-1.	<b>01 Set</b>
16.	Provision of terminal strip complete	EDML 034,Rev-C,DRG NO.LW76054	<b>01 Set</b>
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 : <b>SALZER</b>	As per spec EDML-064,REV- B,Am-1 alt 'c' Item-4 ,Drg. No. LW74202	<b>09 no.</b>
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 : <b>SALZER</b>	As per spec EDML-064,REV- B,Am-1 alt 'c' Item 16,Drg. No. LW74202	<b>54 no.</b>
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 : <b>SALZER</b>	As per spec EDML-064,REV- B,Am-1 alt 'c' Item-5, Drg. No. LW74202	<b>09 no.</b>
21.	Provision & Mounting of reading light for upper berth Make : <b>DEVINTEC</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2 & Drg no LW 76094	<b>27 no.</b>
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no. LW 76095	<b>18 no.</b>
23.	Provision & Mounting of reading light for berth transverse ( LHS) Make: <b>DHINGRA</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no. LW 76096	<b>18 no.</b>
24.	Provision & Mounting of reading light for berth Longitudinal. Make: <b>DEVINTEC</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76096	<b>09 no.</b>
25.	Provision of High Capacity Inter-Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make:- 1.(NPP): <b>PRIME ELECT.</b> 2.(PP): <b>PRIME ELECT.</b>	As per Spec. no. RDSO/PE/SPEC/AC/0177(R ev.-0)-2013 with annexure-A, B.	<b>01 set</b>
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 : <b>HBL</b> Lug date : <b>3/21</b>	EDTS 129,Rev nil	<b>01 set</b>

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli







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आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

PAGE 5 OF 5

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: <b>ANKUR</b>	As per drgno 1-10113 0 76 700 005,Alt C	01 no.
30.	Battery fuse box +ve Make : <b>RSI</b>	LW 71001,Alt-H	01 no.
31.	Battery fuse box -ve Make : <b>AECO</b>	LW 71002,Alt-I	01 no.
32.	Provision of Regulated Battery Charger Make: <b>HITACHI</b> Sr. no.: <b>19011928</b>	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 : <b>BHASIN</b> Sr.no.: <b>01207155</b>	EDTS163,REV-C,COR-2&3	01 no
34.	Provision of 5 KVA TFR Make : <b>VIMAL</b> Sr no : <b>VTC 3089 LHB 1678</b>	As Per EDTS-366,REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: <b>NEC</b> SL.no.: <b>2020097309</b>	As per EDML-130 Rev-1,Corr-1	01 no.
36.	60KVA transformer Make : <b>WAVES</b> Sr no : <b>W60KB 21310</b>	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make : <b>LIGHT ENGG.</b>	EDTS-328 REV-C	01 set
38.	Wheel set earthing equipment. Make : <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	01 set
39.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr. no : <b>0120265333</b>	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: <b>MV</b>	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 नियंत्रण आपरेटिंग / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 10/5/21 आपरेटिंग प्रबन्धक / विद्युत आपरेटिंग / लालगंज / रायबरेली A.W.M.Jlect-QC/MCF/RBL SSE/MCF/RBL
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