



**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 705

RLY	CR	COACH NO	213031/C			DATE OF DISPATCH	23-Sep-21		
Type	LWACCN	Shell No.	21C164	DISPATCH TO	Sr.DME/C&W/LTT/BB	FUR.NO.	L3T-1853		
1	Railway Board's Order No.			:2020 (C)/142/2,Dt- 29.01.2021					
2	Tare Weight & Carrying Capacity of Coach :								
S.N	COACH TYPE	LWACCN	LWACCW	LWLRRM	LWCBC	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	<b>Special feature:</b>								
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	<b>Smart feature: NIL</b>								
5	<b>SHELL LEADING DIMENSIONS:</b>								
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		LWLRRM,LWCBCAC,LFCWAC,LWSCZAC,LWFAC,LWFCZAC			
				4250		4039			
iv	CBC height/Buffer Height from Rail level			1105 +0/-10		NPP/PP		1105/1105	
6	<b>TRACEABILITY OF SHELL ITEMS:</b>								
S.N	ITEM		MAKE/SUPPLIER		SERIAL NO				
i	Under frame	Front	PP END	M/S-APEX AUTO LTD	-				
		Part	NPP END	M/S-APEX AUTO LTD	-				
		Complete	M/S-V4U TECHIE		21C164				
ii	Lav. side wall			M/S-M.M INDUS DHARWAD	LAV.1	-----	LAV.2	-----	
				M/S-M.M INDUS DHARWAD	LAV.3	-----	LAV.4	-----	
iii	Side wall	LH SIDE	M/S-ECBT CHANDIGARH		251				
		RH SIDE	M/S-ECBT CHANDIGARH		251				
iv	End wall	PP END	M/S-OMAX REWARI		-----				
		NPP END	M/S-OMAX REWARI		-----				
v	Roof			MCF/CONT.P.S	32				
vi	Centre Buffer Coupler			M/S-SANROK	NPP/PP	18965/19014			
vii	Buffer			NA	NPP/PP	N/A			
7	<b>AIR BRAKE TEST REPORT:</b>								
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.		08 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	<b>FIRE TESTING:</b>								
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	<b>PAINTING DETAILS:</b>								
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	M/S-VIBGYOR	M/S-VIBGYOR		76/96		18-Sep-21	
ii	Insulation-	Satisfactory		ANTIGRAFFITE COATING-	YES	WET ON WET-		YES	
10	<b>COACH FURNISH DETAILS :</b>								
S.N	ACTIVITIES		FIRM		TURNKEY/WORK CONTRACT/SUPPLY&APPLY				
i	Coach Furnishing		M/S-SRI DHANLAKSMI ENGG		WORK CONTRACT				
ii	Air Brake		M/S-PC		WORK CONTRACT				
iii	Bio toilet & flushing		M/S-VEDANSH ENT.		SUPPLY&APPLY				
iv	Fire detection		M/S-SANROK ENT.		SUPPLY&APPLY				

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (बालगंज)



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE(AC COACH)

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RLY	CR	COACH NO	213031/C	DATE OF DISPATCH	23-Sep-21		
Type	LWACCN	Shell No.	21C164	DISPATCH TO	Sr.DME/C&W/LTT/BB	FUR.NO.	L3T-1853

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	REFERENCE &
			Frequency	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	6862-25/21
ii	Distribution valve	M/S-KBI	2021F14090
iii	Pull box	M/S-KBI	
iv	FIBA	NIL	NIL
v	Foot Step	M/S-SHANKAR METAL WORKS KANPUR	
vi	Decoupling arrangement	M/S-PULSAR RUBBER KOLKATA	
vii	Floor board	M/S-SHRI RAM PANEL PVT LTD.	
viii	PVC	M/S-RESPONSIVE MUMBAI	
ix	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
x	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
xi	Gangway bridge mounting (PPE)	M/S-SHAWAT STEEL WORKS MUMBAI	
xii	Gangway bridge mounting (NPPE)	M/S-SHAWAT STEEL WORKS MUMBAI	
xiii	Body Side Window	M/S-BIRCON ENGG. INDUS GZB	
xiv	Emergency Window	M/S-BIRCON ENGG. INDUS GZB	
xv	Lavatory/hopper Window	M/S-AIKON ENT. SOLAN	
xvi	Roof Ceiling	M/S-CMT VADODARA	
xvii	Door way /gang way ceiling	M/S-P.D STEEL PANCHKULA	
xviii	Supply Air Duct	M/S-AMIRCHAND ENGG. JALANDHAR	
xix	Partition panel	M/S-MILTON IND.AHMADABAD(HONEYCOMB)	
xx	Partition pillar	M/S-RAIL TECH KXH	
xxi	Side Wall panel	M/S-ALEX OVERSEAS PVT LTD KXH	
xxii	AC Trough	M/S-H.F.GLASS VADODARA	
xxiii	Body Side Doors	M/S-SVARN INFRATEL	
xxiv	Compartment Door (PPE)	M/S-POOJA SALES HARYANA	
xxv	Compartment Door (NPPE)	M/S-POOJA SALES HARYANA	
xxvi	Vestibule Door(PPE)	M/S-JBM INDUS FARIDABAD	
xxvii	Vestibule Door(NPPE)	M/S-JBM INDUS FARIDABAD	
xxviii	RMPU	M/S-AMIT ENG SOLAN (H.P)	
xxix	Bio Tank	M/S-OMAX AUTO LTD	
xxx	Pressurized flushing (ele. Pneu.)	M/S-VEEPEE	
xxxi	Auxiliary Water Tank	M/S-SHIVALIK FAST MOHALI	
xxxii	Under Slung Water Tank ( 2X685L)	M/S-OASIS	
xxxiii	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG 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-JAL,JUPITER AQUA LINES LTD MOHALI	
xxxvii	Lavatory Modules	M/S-H.F.GLASS VADODARA	
xxxviii	Lavatory Doors	M/S-H.F.GLASS VADODARA	
xxxix	Fire Extinguisher	M/S-SAFEX FIRE	043775/043872
xxxx	Seat & Berth	M/S-TWPL MUMBAI	
xxxi	Snack Table	M/S-DLJM NOIDA	
xxxii	Light Luggage Rack	M/S-SRI MAHAVEER ENTS.CHENNAI	
xxxiii	Venturi grill	M/S-H.F.GLASS VADODARA	
xxxiv	Auto janitor	M/S-H.F.GLASS VADODARA	
xxxv	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT.	

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

i	Vacuum toilet system	NA
ii	Odour control system	NA
iii	CCTV	NA

SSE/QC/MCF/RBL

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रे०डि०का०, रायबरेली (बालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 02

DATE: 28.05.2021

## ROLLING STOCK CERTIFICATE- (AC COACH)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-22/-705

RLY	-	C	R	Coach No.	2	1	3	0	3	1	/	C	-	DATE OF DISPATCH	2	3	0	9	2	0	2	1
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DISPATCH	Sr.DME/C&W/LTT/BB	Type	L	W	A	C	C	N	Shell No.	2	1	C	1	6	4	FUR .NO	L3T-1853
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## 15. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	211198				211197			
Bogie Type	FIAT				FIAT			
Frame no.	VS-2330				VS-2325			
Bolster no.	AMIT-648				AMIT-645			
Axle No	L-0375 DSP		L-1125 DSP		L-0738 DSP		L-1276 DSP	
Wheel Dia	917.89	917.49	917.73	917.47	917.75	917.44	917.65	917.42
Wheel Disc No	TZ 09-20-33486-OSF2	TZ 09-20-33488-OSE3	TZ 09-20-33488-OSE8	TZ 09-20-27611-OSD8	TZ 09-20-26046-OSD8	TZ 09-20-28387-OTE9	TZ 09-20-26043-OSD8	TZ 09-20-28377-OSF9
R.B. Nos.	03-21 301268	03-21 600472	03-21 301041	03-21 300292	11-20 437299	03-21 500313	11-20 437378	03-21 600321
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.	CMGBD-09-20-F16-550-78	CMGBD-05-21-F19-781-59	CMGBD-09-20-F16-550-30	CMGBD-05-21-F19-781-245	CMGBD-09-20-F16-550-26	CMGBD-05-21-F19-781-249	CMGBD-09-20-F16-550-42	CMGBD-05-21-F19-781-246
Compressed Ht. at Tested Load	512	466	510	466	513	466	515	466
Alignment deviation (mm)	22	26	22	26	20	19	20	19

## 17. TRACEABILITY OF BOGIE ITEMS:-

S. No.	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	AB(28189,28498)	AB(28037,28228)
2.	Primary outer Spring	CMAFJ	12-20-7142-(128,131,118,127)	12-20-7142-(125,111,130,129)
3.	Primary Inner Spring	CMAFJ	12-20-7143-(168,125,126,168)	12-20-7143-(165,167,163,166)
4.	Primary Damper	IAI	05-21-AB(22884,24280,22870,1998)	05-21-AB(23621,23740,22899,23272)
5.	Secondary Damper	KONI	04-19-(6040,06834)	04-19-(05541,04104)
6.	Lateral Damper	KONI	03-19 1301	03-19-00987
7.	Brake Cylinder	KBI	D(5545,4041,4082,5547)-K-29	D-(5504,4052,4215,5521)-K-29
8.	Brake Caliper	KBI	2921289915,2921285810,2921200195,2921289920	2921289935,2921280184,2921280339,2921289941
9.	Brake Disc	KBI	24258125-0038-20-21,24255617-0002-18-21,24258124-0051-20-21,24258124-0041-20-21	24255612-(0060,0071,0070)-17-21,24255613-0055-17-21
10.	Ball Joint Control Arm	BASANT		
11.	Lateral Bump Stop	BASANT		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	AR/BASANT		
15.	Ball joint traction centre	BONY		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	BONY		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SF+BASANT		
20.	Fork make	RNG		
21.	Control Arm Upper	SF(SARITA)	H(87,43,62,58)	H-(23,83,08,81)
22.	Control Arm Lower	SF(SARITA)	H(53,88,173,82)	H-(88,517,73,50)
23.	Phonic Wheel	KBI	K-05-21	K-05-21

Signature of SSE/Bogie/QC	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

उप मुख्य गुणवत्ता प्रबन्धक

Dy. Chief Quality Manager

आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli



# Vibgyor Paints & Chemicals Pondicherry

Office : Sri Balaji Apartments, 87/47, Harrington Road,  
Shenoy Nagar, Chennai - 600 030.  
Web : [www.vibgyorpaintspondicherry.com](http://www.vibgyorpaintspondicherry.com)



## WARRANTY CERTIFICATE

To,

DY.CME/FP&PAINT  
MODERN COACH FACTORY  
RAEBARELI, LALGANJ- 229120

Date:- 20/09/2021

SUBJECT: -PERFORMANCE WARRANTY CERTIFICATE  
REF: PO NO: 06201016101293 DATED-10.09.2020

NAME OF WORK: SUPPLY AND APPLY OF PU BASED WET ON WET APPLICABLE EXTERIOR PAINTING SYSTEM FOR LHB COACHES AS PER SCOPE OF WORK AND MMDTS-18034 REV-02 WITH AMENDMENT NO MP/RBL/BB DT 28/05/2019 (EPOXY ELASTIFIED PAINT INSIDE THE COACH NOT TO BE CARRIED OUT PAINTING CYCLE TIME WILL BE 30 HRS AS MENTION IN MMDTS-18034 REV-02)

Dear Sir,

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

SL.NO	SHELL NO	FURNISHING NO	COACH NO	RAILWAY NO	DATE OF COMPLETION
79	LWACCN 21C164	L3T 1853	213031	CR	13/08/2021 18/09/2021

The warranty is applicable from date of despatch against the below mention defects as per RDSO Specification no. MMDTS 18034 REV-02

Gloss should be above 70 at 60 degree during the initial period and entire life of 6 years

Decolourization of paint film.

Cracking of paint film

Peeling of paint film

Blistering of the paint film

Note- It is certified that Gloss value

Before Antigrffiti gloss value- 97.46

2 After Antigrffiti gloss value- 76.38

1

*Handwritten signature*

Thanking You  
For Vibgyor paints & chemicals Pondicherry

Factory : S-51, Phase III, Sipcot Industrial Complex, Nellikuppam, Ranipet - 632 405.  
Ph : +91-4172-241478, Fax : +91-4172-242478, E-mail : [vpcpdyr@yahoo.in](mailto:vpcpdyr@yahoo.in), [ramuvibgyor@yahoo.in](mailto:ramuvibgyor@yahoo.in)

**We have Solutions for Ecofriendly Industrial Coatings**



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01


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		213031/C	
		ELECT. FIT DATE		MCF FUR. NO.	
		22-09-2021		3T-1853	
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		30.27 Cub mtr/min		OK
3.2	Return Air		75.74 Cub mtr/min		OK
3.3	Exhaust Air		5.69 Cub mtr/min		OK
3.4	Conditioned Air		173.92 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 :20.5°C NPP Side :20.4°C				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.				----

  
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  
Quality control / Electrical  
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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 : <b>AMIT ENGG.</b> Sr no of RMPU 1(NPP side ) : <b>6148D</b> Sr no of RMPU 2(PP side): <b>6168D</b> Sr no of Microprocessor. : <b>AE 2107120</b>	As per RDSO/PE/SPES/AC/0061/REV-1/2005	<b>01 Set</b>
02.	Switch board cabinet Make : <b>MAK ENGG.</b> Sr no : <b>MAK/20/07/0017</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>21/05/946</b> Sr no.1: <b>21/05/1931</b> Sr no.2 : <b>21/05/1932</b> Sr.no.CPA: <b>21/04/727-HIND</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>FIEM</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.	OK
07.	Provision of Cabin/Corridor Light with Night light. Make: <b>ENSAVE</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.	OK
09.	Provision & mounting of Doorway/ Gangway light. Make: <b>AKG</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>RT VISION</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

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
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>SSK</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>RT VISION</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>RT VISION</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>DEVINTEC</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>DR AUTO</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>02/21</b>	EDTS 129,Rev nil	<b>01 set</b>

Senior Section Engineer  
Quality control / Electrical  
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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>METAFIL</b>	As per drgno 1 10113 0 76 700 005,Alt C	<b>01 no.</b>
30.	Battery fuse box +ve Make : <b>NEC</b>	LW 71001,Alt-H	<b>01 no.</b>
31.	Battery fuse box -ve Make : <b>KKI POWER</b>	LW 71002,Alt-I	<b>01 no.</b>
32.	Provision of Regulated Battery Charger Make: <b>IC</b> Sr. no.: <b>11/18/0084</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.	<b>01 no.</b>
33.	Emergency battery charger Make : <b>BHASIN</b> Sr.no.: <b>01207131</b>	EDTS163,REV-C,COR-2&3	<b>01 no.</b>
34.	Provision of 5 KVA TFR Make : <b>WAVES</b> Sr no : <b>WLDT5D 211165</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01 no.</b>
35.	Provision of capacitor Bank Make: <b>RICHMOND</b> SL.no.: <b>341644</b>	As per EDML-130 Rev-1,Corr-1	<b>01 no.</b>
36.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-R-3089-LHB-5289</b>	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	<b>01 no.</b>
37.	Feeder junction boxes. Make : <b>RSI</b>	EDTS-328 REV-C	<b>01 set</b>
38.	Wheel set earthing equipment. Make : <b>S.INTERNATIONALS</b>	EDTS101,REV-C,AM-1	<b>01 set</b>
39.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr. no : <b>3521210757</b>	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	<b>01 set</b>
40.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: <b>JAI BALAJI</b>	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	<b>02</b>
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.	<b>N/A</b>

वरिष्ठ अलुमना अभियन्ता SSE/EL/QC गुणवत्ता नियंत्रण	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

आ०रे०डि०का० / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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