



# 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/2019-20/644

RLY	N	W	R	-	Coach No.	1	9	6	1	2	0	/	C	DATE OF DISPATCH	2	7	-	0	8	-	1	9
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DISPATCH TO	Sr.DME/C&W/IP	Type	L	W	A	C	C	W	Shell No.	9	3	0	7	5	FUR.NO.	L2T(T)-79
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- Railway Board's Order No. : 2019/M(C)/142/2, Dated- 03.06.2019
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
- Special feature**
  - Due to fitment of L3T roof in L2T shell, more space available in transverse side.
  - Extend linen room to accommodate the space NPP end (width 270 mm)
  - Height (from floor level to ceiling) raised from 2250mm to 2510mm.
  - Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.
  - Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.
  - Gap extend between transverse side floor level to lower berth from 420mm to 465mm.
  - Provision of sliding cum sleeping berth. (MAKE- M/S- OVPL MUMBAI )
  - Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no.

MC/LHB/Brake, Dated 27.09.2018

**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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1103 (NPPE) 2) 1105 (PPE)

**6. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- RAIL TECH KXH	37
		NPP END M/S- RAIL TECH KXH	37
		Complete M/S- RAIL TECH KXH	37
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 M/S E.c.blades & tool pvt. Ltd CDG	25
		RH SIDE M/S E.c.blades & tool pvt. Ltd CDG	25
4.	End wall	PP END M/S- OMAK REWARI	---
		NPP END M/S- OMAK REWARI	---
5.	Roof	M/S DTL ancillaries ltd pune	162
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 1004 NPP END 1008

**7. AIRBRAKE TEST REPORT:**

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> <li>Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>Max. pressure in BC</li> <li>All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	M/S-AXALTA	M/S-EMPRISE	97/93	23/07/19
2.	Insulation	Satisfactory				

वरिष्ठ अधिकारी  
SSE/QC/MCF/RBL  
रेल डिब्बा कारखाना, रायबरेली (लखनऊ)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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DISPATCH	Sr.DME/C&W/JP	Type	L	W	A	C	C	W	Shell No.	9	3	0	7	5	FUR .NO	L2T-T-79
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**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No.	194013				194014			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-243				WIL-238			
Bolster no.	MCF/RBL-LS5-817				MCF/RBL-LS5-826			
Axle No	19 P - 7070 RWF		19 P - 7101 RWF		19 P - 7218 RWF		19 P - 7185 RWF	
Wheel Dia.	917.632	917.594	917.598	917.631	917.579	917.647	917.572	917.47
Wheel Disc No	TZ 04-19 37952-9OE3	TZ 02-19 28815-9MI0	TZ 02-19 22697-9MK4	TZ 07-17 26688-7PL1	TZ 02-19 28816-9MI4	TZ 04-19 40515-9OE9	TZ 04-19 38446-9MI7	TZ 04-19 38545-9MH6
R.B. Nos.	05-18 13208	05-18 29066	05-18 13203	05-18 29295	05-18 40602	05-18 29662	05-18 12376	05-18 11997
CT R B Make	SKF		SKF		SKF		SKF	

**10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-**

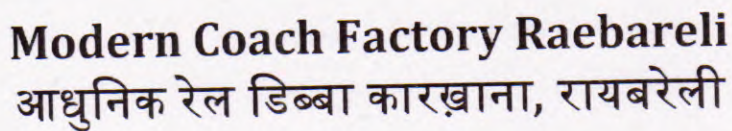
DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AWADH RAIL INFRA Sr.NO.10-18 912	AWADH RAIL INFRA Sr.NO.10-18 762	AWADH RAIL INFRA Sr.NO.10-18 923	AWADH RAIL INFRA Sr.NO.10-18 818

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

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12724,12733	13058,13046
2.	Primary outer Spring	CMFSK	05-19 7411-545(1666,1649,1775,1727)	05-19 7411-545(1540,1657,1657,1777)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(2030,1999,1629,1686)	05-19 7143-559(2078,1736,1753,1644)
4.	Primary Damper	KONI	03-19 (01477,01088,01109,01086)	03-19 (01476,01089,01096,01087)
5.	Secondary Damper	KONI	04-19 (00737,00676)	02-19 (17395,17398)
6.	Lateral Damper	GABRIEL	11-18 905	11-18 904
7.	Brake Cylinder	KBI	B(5940,5034,5033,5934)K-29	B(5868,4974,5042,5945)K-29
8.	Brake Caliper	KBI	B(3357,3378,3379,3361)-29	B(3302,3358,3380,3360)-29
9.	Brake Disc	KBI	24178940 0057-13/19,24178940 0059-13/19 24185221 0080-18/19,24185222 0029-18/19	24178939 0072-13/19,24178940 0072-13/19 24172297 0036-05/19,24172301 0098-05/19
10.	Ball Joint Control Arm	AR,BASANT/AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction lever	AR/ARYAN		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1904,1904	1904,1904
17.	Check Valve	ESCORT	1904	1904
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	632,SF,3,65	57,553,85,58
22.	Control Arm Lower	SF	286,58,223,355	28,88,38,502
23.	Phonic Wheel	KBI	K-06-19	K-06-19

Signature of SSE/Bogie/QC





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**12. TRACEABILITY OF FURNISHING ITEMS:**

SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रे ० डि ० का ०, रायबरेली (लालगंज)





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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

**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 30 months from the date of supply of material whichever is earlier.

**NOTE:**

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- 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.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of 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 गुणवत्ता विभाग रेडिओका, रायबरेली (लालगंज)	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.COM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli  
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCW	SHELL/COACH NO	196120/C
RAILWAY		NWR	DATE OF DESPATCH	
Sr no	Description of tests			Remarks
1.0	REFERENCE SPECIFICATION : L 446			
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.			
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/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	19.96 Cub mtr/min		OK
3.2	Return Air	76.13 Cub mtr/min		OK
3.3	Exhaust Air	5.28 Cub mtr/min		OK
3.4	Conditioned Air	163.64 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.  Not done			---
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			--

*(Signature)*

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





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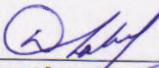
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

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 COMPOSITE PANTRY	OK
10.0	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED R 407C	OK

  
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

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>3724 G</b> Sr no of RMPU 2(PP side): <b>3721 G</b> Sr no of Microprocessor: <b>AE 19.08.635</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>TRINITRON</b> Sr no : <b>19/01/TCS/RBL/3423/0184/0086</b>	As per spec no .EDTS073,REV-D,AM-6	<b>01</b>
03.	Pump equipment with PLC controller& pump box Make: <b>DR AUTO</b> Sr no PA: <b>2019/07/0010</b> Sr no.1: <b>2903</b> Sr no.2: <b>2886</b> Srno.CPA: <b>2019/07/041-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am-2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Passenger area Light(Cabin) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09</b>
06.	Corridor Light with Night light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09</b>
07.	Doorway/Gangway light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>06</b>
08.	Emergency light system for EOG type coaches (AEL)Make: <b>A PAUL</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make: <b>RT VISION</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	<b>04</b>

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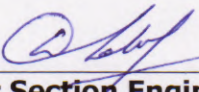
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	<b>9</b>
12.	Reading light for upper berth Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	<b>26</b>
13.	Reading light for transverse berth (RHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	<b>8</b>
14.	Reading light for berth transverse ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	<b>9</b>
15.	Passenger alarm coach indication light Make: <b>KAVERI</b>	LW 76005,Alt-e	<b>02</b>
16.	Razor socket for WC 110/240V. Make: <b>SSK</b>	EDML 047 ,Rev nil	<b>04</b>
17.	Terminal strip Make: <b>WAGO</b>	EDML 033,Rev-c	<b>01</b>
18.	Terminal connector Make: <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: <b>SSK</b>	EDML 047,Rev_C, Item 1.	<b>09</b>
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: <b>SSK</b>	EDML 047,Rev_A ,Item 2.	<b>09</b>
21.	Switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make: <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
22.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173 Rev- a Am-1,2&3	<b>01 set</b>

  
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	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>AMARA RAJA</b> Lug date : <b>08/18</b>	EDTS 129,Rev nil	<b>01 set</b>
24.	Battery box for LHB coaches. Make: <b>HITECH</b>	As per drgno 1 10113 0 76 700 005,Alt C	<b>01</b>
25.	Battery fuse box +ve Make : <b>AECO</b>	LW 71001,Alt-F	<b>01</b>
26.	Battery fuse box -ve Make : <b>RADIANT</b>	LW 71002,Alt-F	<b>01</b>
27.	Emergency battery charger Make : <b>BHASIN</b> Sr no: <b>201908372</b> Make : <b>BHASIN</b> Sr no: <b>201908373</b>	EDTS 163,Rev `c` corg.-2&3	<b>02</b>
28.	5KVA Transformer Make: <b>VIMAL</b> SL.no : <b>VTC 3089 LHB-1071</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
29.	Capacitor Bank Make: <b>KONTACT</b> SL.no : <b>KT-859</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
30.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC3089 LHB-1246</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
31.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</b>	As per spec No EDTS 105,Rev `e` Am-2	<b>02 sets</b>
32.	Feeder junction boxes. Make : <b>ISG</b>	EDTS-328 REV-C	<b>02</b>
33.	Wheel set earthing equipment. Make : <b>CHANDA &amp; CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
34.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr no : <b>0119101375</b>	M/s : <b>KNORR</b>	<b>01 set</b>
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : <b>NIL</b>	As per spec no EDTS 139, Rev- E ,Sec II.	<b>00</b>

<b>SSE/EL/QC</b>	<b>AWM(ELECT.)/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता निबन्धन  
आरंभ/डिप्टा/सालगंज/रायबरेली  
S.S.E/Elect-QC/M.C.F.A.L./RBL

**AWM(ELECT.)/MCF/RBL**  
**DY CEE (PLG)/MCF/RBL**

सं कार्य प्रबन्धक/विद्युत  
आरंभ/डिप्टा/रायबरेली  
A.W.M./Electrical/MCF/RBL

