

LSCN-839



# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

### ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/985

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-10-000																								
RLY	N	C	R	Coach No.	1	8	3	0	0	1	/	C	DATE OF DISPATCH	3	1	-	1	2	-	1	8			
DISPATCH TO		Sr.CDO/ALD		Type	L	W	S	C	N	1	Shell No.	8	7	3	6	0	-	2	0	1	8	-	1	9
15.10.2018																								

1. Railway Board's Order No. : 2018/M(C)/142/2, Dated-17-10-2018

2. Tare Weight of Coach : 41.24 Tones

3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. SHELL LEADING DIMENSIONS :		DIMENSION (MM)	
S NO	DESCRIPTION		
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) 1099 (NPPE) 2) 1097 (PPE)

4.		CBC height/Buffer height from Rail							
5. TRACEABILITY OF SHELL ITEMS:									
S NO		ITEM		MAKE/SUPPLIER		SERIAL NO			
1.	Under frame	Front Part	PP END	M/S Trident components pvt.ltd.CNB		10			
			NPP END	M/S Trident components pvt.ltd.CNB		10			
		Complete	MCF/RBL		87360				
2.	Lav. side wall		M/s- RAIL FAB, KXH		LAV.1	---	LAV.2	---	
			M/s- RAIL FAB, KXH		LAV.3	---	LAV.4	---	
3.	Side wall	LH SIDE	M/S E.c.blades &tool pvt. Ltd CDG		40				
		RH SIDE	M/S E.c.blades &tool pvt. Ltd CDG		40				
4.	End wall	PP END	M/S Shivalic fastners pvt.ltd.mohali		---				
		NPP END	M/S Shivalic fastners pvt.ltd.mohali		---				
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur Cheenai		224					
6.	Centre Buffer Coupler		M/S Dellnar INDIA PVT LTD.		PP END	3498	NPP END	3150	

6. AIRBRAKE TEST REPORT:				SPEC. VALUE	OBSERVED
S NO	ITEM	DESCRIPTION			
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	<ul style="list-style-type: none"> <li>➤ Exhaust BP @ 0.3 kg/cm<sup>2</sup>/min.</li> </ul>		No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> <li>➤ Exhaust BP @ 0.1 kg/cm<sup>2</sup>/Sec, after 06 Sec.</li> </ul>		Brake must apply	OK

7. PAINTING DETAILS:					
S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -VIBGYOR	Supply & apply	89/89
2.	Insulation			Satisfactory	

रिजिस्ट्रार  
SSE/QC/MCF/RBL

रेडि०का०, 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/985

Rolling Stock Certificate No.: WSC 7122																									
Coach No.		1	8	3	0	0	1	/	C	-	DATE OF DISPATCH				3	1	.	1	2	.	1	8			
RLY	N	C	R	-	Type	L	W	S	C	N	1	Shell No.		8	7	3	6	0	-	-	-	-	-	-	-

## 8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182197				182198			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1108				ECBT-1107			
Bolster no.	RBL-1957				AMIT-268			
Axle No	18H-9152 RWF		18G-9338 RWF		18H-3003 RWF		18D-8075 RWF	
Wheel Dia	917.501	917.504	917.519	917.598	917.684	917.685	917.607	917.71
Wheel Disc No	TZ07-18 42272-8RL6	TZ07-18 36319-8RR8	TZ07-18 41327-8RS2	TZ07-18 40265-8RL8	TZ07-18 87504-8RP9	TZ07-18 37505-8RN5	TZ07-18 29615-7SH7	TZ08-17 30183-7SH9
R.B. Nos.	05-18 37316	04-18 25508	05-18 27215	05-18 36634	05-18 39578	05-18 12504	05-18 28597	05-18 38754
CT R B Make	SKF		SKF		SKF		SKF	

## 9. 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.	CMAFJ09-18- 5101-103	CMRSK10-16-F08- N13-08Y-1802	CMAFJ09-18- 5101-89	CMRSK05-18-F08- N73-08Y-1081	CMFSK02-17- F03-2401-42	CMFSK12-16-F08- N12-08Y-516	CMFSK05-17- 5101-259-68	CMFSK12-16-F08- N12-08Y-1143
Compressed Ht. at Tested Load	512	472	510.5	472	515	468	515	470
Alignment deviation (mm)	7	11	10	12	10	4	10	7

## 10. TRACEABILITY OF BOGIE ITEMS :-

## SERIAL NO.

S. NO	ITEM	MAKE/SUPPLIER	NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1459,1602	1270,1427
2.	Primary outer Spring	CMGBD	10-18 1100-121(602,407,567,136)	10-18 1100(122-422,121-380,122-394,122-512)
3.	Primary Inner Spring	YR	17-11(6,13,14,59)	17-11(19,62,49,53)
4.	Primary Damper	KNORR	07-18(27322,26901,26913,26922)	07-18(26907,26906,26916,26924)
5.	Secondary Damper	GABRIEL	07-18(1051,1019)	07-18(1048,1053)
6.	Lateral Damper	KNORR	06-18 4036	06-18 4104
7.	Brake Cylinder	FAV	L18(260,071),K18(582,565)	K18-566,L18(069,460,478)
8.	Brake Caliper	FAV	M18(915,913,937,939)B	M18(940,938,862,863)B
9.	Brake Disc	FAV	11-18(5132,5036,5130,5131)D133561-300	11-18(5133,5134,5245),10-18(4171)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	PPI/UK		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	171018-2,171018-2,181018-3,181018-3	231018-1,171018-2,RVE,201018-3
22.	Control Arm Lower	RVE	101018-2,271018-1,261018-2,261018-3	261018-3,RVE,261018-3,RVE

Signature of SSE/Bogie/QC



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**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/985

RLY	N	C	R	Coach No.	1	8	3	0	0	1	/	C	DATE OF DISPATCH	3	1	-	1	2	-	1	8
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DISPATCH TO	Sr.CDO/ALD	Type	L	W	S	C	N	1	Shell No.	8	7	3	6	0	-	2	0	1	8	-	1	9
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**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	M18052 B
2.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
3.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18105577 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S- ELASTOMER MUMBAI	
6.	Floor board	M/s- EG WOOD BOARD HYDARABAD	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s- SEEMA INDS. BHOPAL	
9.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/s- COMPETENT IND JUC	
12.	Gangway bridge mounting (NPPE)	M/s- COMPETENT IND JUC	
13.	Body Side Window	M/S- AGF INDS, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- TECH FAB, KANGRA	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/s AB composites Pvt. Ltd, Kolkata	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/s- JBM FARIDABAD	
20.	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
21.	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
22.	Bio Tank	M/s- RASANDIK ENG	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank( 2X685L)	M/s- AMIT ENG. MOHALI	
25.	Under Slung Water Tank (1X685L)	M/s- AMIT ENG. MOHALI	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
27.	Lavatory Doors	M/s- KALSI, LDH	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/S- SUKATA CDG	
31.	Snack Table	N/A	

*Signature*  
 वरिष्ठ अधिकारी  
 गुणवत्ता विभाग  
 रेलवे कारखाना, रायबरेली (लालगंज)



# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/985

Rolling Stock Certificate No.: MCR 122																						
RLY	N	C	R	Coach No.	1	8	3	0	0	1	/	C	DATE OF DISPATCH	3	1	-	1	2	-	1	8	
DISPATCH TO	Sr.CDO/ALD	Type	L	W	S	C	N	1	Shell No.	8	7	3	6	0	-	2	0	1	8	-	1	9
MODIFICATION (IF ANY)										NIL												

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

**15. WARRANTY:**

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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.

 <b>वसिष्ठ अश्विनी</b> SSE/QC/MCF/RBL गुणवत्ता विभाग रेलडिप्टा, रायबरेली (लालगंज)	 <b>सहायक अभियंता</b> AME/QC/MCF/RBL गुणवत्ता-II आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 <b>जोगिन्दर सिंह</b> Dy. Chief Quality Manager उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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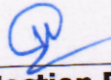
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	183001/C
RAILWAY	NCR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL, LAP CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2	CONTROL CIRCUIT	OK	
7.3	POWER CIRCUIT	OK	

  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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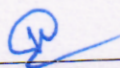
DATE:18.01.2017

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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES**

01.	Switch board cabinet Make : <b>AMIT ENGG.</b> On Board Sr no : <b>AE/USBC-831</b> HT Panel Sr no : <b>AE/USBC-827</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b> Sr no PA: <b>2018/12/40</b> Sr no.1 : <b>18110165</b> Sr no.2 : <b>18110400</b> Sr no.CPA: <b>2018/12/014-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL), Make : <b>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Passenger Alarm Cum Indication Light (PACIL) Make: <b>KAVERI</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	<b>02</b>
05.	Fitment of Switch Plate Assly(Cabin Side) Make : <b>SSK/SALZER</b>	EDML 086,Rev-03, ITEM-01	<b>10</b>
06.	Fitment of Switch Plate Assly Corridor Side),Make : <b>SSK/SALZER</b>	EDML 086, Rev 03, ITEM-02	<b>10</b>
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>IMT CABLES</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
08.	Cabin, Corridor, doorway and Gangway Lights. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>26</b>
09.	Lavatory Light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	<b>04</b>
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : <b>AGASTYA</b>	CC76289 & CC76443	<b>10</b>

  
**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**



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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : <b>NEC</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>NEC</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>IC ELECTRICAL</b> Sr no: <b>11-18-0080</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>LHB-802</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	<b>01</b>
15.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>S.INTERNATIONAL</b>	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	<b>01 set</b>
16.	Feeder junction boxes. Make : <b>AECO</b>	EDTS-328 REV-C	<b>01 set</b>
17.	Wheel set earthling equipment. Make : <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
18.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>28-18-1165</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>HBL</b> Lug date : <b>02/18</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>HITECH</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आ0रे0डि0का0 / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता  
रेल कोच फैक्टरी, रायबरेली, लखनऊ  
Sr. Electrical Engineer / RCF / RBL / Lucknow