

LSCN-86

# आधुनिक रेल डिब्बा कारखाना, रायबरेली

## MODERN COACH FACTORY, RAEBARELI

FORM NO: RCF/RBL/QMF 8002  
VERSION: 2016-01-13

### ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/053

SHELL NO.	6	7	0	0	8	-	2	0	1	5	-	1	6	-	-	DATE OF DISPATCH	1	8	0	6	2	0	1	6
RLY	E	R	-	Type	L	W	S	C	N	-	Coach No.	1	5	2	9	4	/	C	-					

- Railway Board's Order No. : 2015/M(C)/142/1 dtd. 13.10.2015
- Tare Weight of Coach : 41.24 Tonnes
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL

#### 4. 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/-15	1)1099 (NPPE) 2)1101 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	MCF/RBL	PP END 67008 NPP END 67008
	Front Part	MCF/RBL	
	Complete	MCF/RBL	
2.	Side wall	MCF/RBL	RH 67008 LH 67008
3.	End wall	M/s E.C.Blade & Tool Chandigarh	PP END 67008 NPP END 67008
4.	Roof	MCF/RBL	
5.	Centre Buffer Coupler	M/s FAIVELY	PP END B16034B NPP END B16041B
6.	Buffers	N.A.	

#### 6. 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	8 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 02 Sec.	Brake must apply	OK

#### 7. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	VIBGYOR	96/87
2.	Insulation		Satisfactory	

वरिष्ठ अभियंता  
SSE/QC/MCF/RBL  
रेल डिब्बा कारखाना, रायबरेली (लालगंज)



# आधुनिक रल इब्बा कारखाना MODERN COACH FACTORY RAEBARELI

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RLY	E	R	-	Type	L	W	S	C	N	-	-	Coach No.	1	5	2	9	4	/	C	-	-
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### 8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160141				160142			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/BEC-208				MCF/RBL-0199			
Bolster no.	E.C.BLADE-087				E.C.BLADE-095			
Axle No	F-9443 RWF		F-9095 RWF		F-9623 RWF		G-0045 RWF	
Wheel Dia	916.933	916.897	916.968	916.905	916.953	916.893	916.950	916.851
Wheel Disc No	7296-00107 15 VR	7276-00081 15 VR	7276-00211 15 VR	7276-00160 15 VR	7275-00063 15 VR	7292-00003 15VR	6210-00058 15 VR	7277-00079 15 VR
R.B. Nos.	02-15 02497	02-15 02046	02-15 02643	02-15 02805	02-15 02590	02-15 02753	02-15 02506	02-15 03074
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

### 9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	G15-10-214-25	G15-9-397-25	G15-10-260-25	G15-324-25	G15-10-183-26	G15-9-379-26	G15-10-230-26	G15-9-377-26
Compressed Ht. at Tested Load	514	471	514	469	514	470	514	469
Alignment deviation (mm)	3	9	3	10	3	14	3	11

### 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
1.	Primary outer Spring	L&S 11-15 CMC 2612	L&S 11-15 CMC 2612	L&S
2.	Primary Inner Spring	L&S 11-15 CVC 1434	L&S 11-15 CVC 1434	L&S
3.	Primary Damper	KW 37-2015 301530049	KW 37-2015 301530049	GREEP
4.	Secondary Damper	KW 37-2015(6524,6477)	KW 37-2015(6463,6484)	KONI
5.	Lateral Damper	KW 37-2015-301550332	KW 37-2015-301550332	GREEP
6.	Brake Cylinder	2274K29,2360K29,2359K29,2268K29	2197K29,2257K29,2258K29,2196K29	KBI
7.	Brake Caliper	2226-29,2316-29,2315-29,2224-29	2154-29,2222-29,2223-29,2153-29	KBI
8.	Brake Disc	02-16-469D133561-300,02-16-468D133561-300, 12-15-57D133561-300,02-16-467D133561-300	11-15-27D133561-300,02-16-464 D133561-300, 12-15-52 D133561-300,12-15-88 D133561-300	FAV
9.	Ball Joint Control Arm			GMT/MGN
10.	Lateral Bump Stop			MGN
11.	Traction Centre make			SARITA
12.	Traction lever make			SARITA
13.	Ball joint traction lever			GMT
14.	Ball joint traction centre			GMT
15.	Secondary Rubber Pad			TECSPAK
16.	Rubber Spring			GMT
17.	Anti roll bar make			EMSON
18.	Roll Link make			SARITA/MGN
19.	Fork make			SARITA

*Foye*

Signature of SSE/Bogie/QC

# आधुनिक रेल डिब्बा कारखाना, रायबरेली

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#### 11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Faridabad ,New Delhi	16B1414
2.	Pull box	M/s KBI ,Faridabad ,New Delhi	
3.	DV	M/s KBI ,Faridabad ,New Delhi	2015M2023
4.	PVC	M/s Responsive Industries, Colaba, Mumbai	
5.	UIC Vestibule (PPE)	M/s Cemcon Industries New Delhi	
6.	UIC Vestibule (NPPE)	M/s Cemcon Industries New Delhi	
7.	Foot Step	M/s Super Spark Pvt. Ltd. Faridabad	
8.	Lavatory Inlay	M/s OASIS Febrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
10.	Body Side Window	M/s AGF Pvt. Ltd. Kolkata	
11.	Emergency Window	M/s AB Composit, Kolkata	
12.	Hooper Window	M/s Aikon Technology Pvt.Ltd.Solan (H.P)	
13.	Non-AC Area Ceiling	M/s Gandhi Safe & Allied, Jalandhar	
14.	Body Side Doors	M/s JBM, Faridabad	
15.	Vestibule Door(PPE)	M/s Kalsi Ludhiana	
16.	Vestibule Door(NPPE)	M/s Kalsi Ludhiana	
17.	Bio Tank	M/s Oasis Fabrication, Jagadari	
18.	Auxiliary Water Tank	M/s Shivalik Fasteners, Mohali Punjab	
19.	Under Slung Water Tank( 2X685L)	M/s Shivalik Fasteners, Mohali Punjab	
20.	Under Slung Water Tank(1X685L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s Jaquar Pvt.Ltd. Alwar Rajasthan	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Savitri Engg. Products Ponta sahib HP	
24.	Snack Table	M/s Rail Experts, jalandhar	

वरि०अनु० अधियंता  
SSE/QC/MCF/RBL  
रे०डि०का०, रायबरेली (लालगंज)



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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

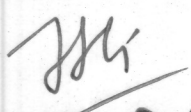
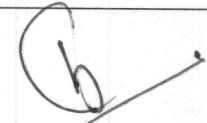
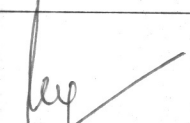
S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

#### 15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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 RCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com

 वरिष्ठ अभियंता SSE/QC/MCF/RBL गुणवत्ता विभाग	 सहायक यान्त्रिक अभियंता/ गुणवत्ता Asst. Mechanical Engineer/Quality रेल डिब्बा कारखाना, लालगंज, रायबरेली	 उप म.यं. अभि./फर्नि Dy. CME/FUR/MCF/RBL रेल कोच फैक्ट्री / रायबरेली / लालगंज
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रेल डिब्बा कारखाना, रायबरेली (लालगंज)

Rail Coach Factory, Lalganj, Raebareli

RCF / RBL / LLJ







**Govt. of India- Ministry of Railways  
(MODERN COACH FACTORY RAEBARELI)**



MCF/RBL/QEFSCN-8001  
VER. 01.06.2016

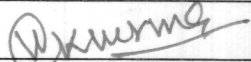
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**FOR ELECTRICAL ITEMS**

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

**ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES**

TYPE COACH	LWSCN	SHELL/COACH NO	15294/C
RAILWAY	ER	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**





**Govt. of India- Ministry of Railways  
(MODERN COACH FACTORY RAEBARELI)**



MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

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**FOR ELECTRICAL ITEMS**

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

01.	Switch board cabinet Make : <b>AMIT ENGINEER</b> ON BOARD Sr no: <b>AE/USBC/096/02/2015</b> HT PANEL Sr.No: <b>AE/USBC/107/02/2015</b>	EDTS 333, Rev` 01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller & pump Make: <b>KALSI</b> Sr no PA- <b>5072/12/16</b> Sr no.1 : <b>263023/02/16</b> Sr no.2 : <b>263024/02/16</b> Sr no.CPA: <b>5024/02/2016</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Lavatory light fitting assly	LW 76001,Alt nil	<b>04</b>
05.	Fitment of Passenger Alarm cum indication light (PACIL).	As per drg no. LW 76005,Alt -e 02 nos	
06.	Fitment of Switch Plate Assly (Cabin Side)	EDML 086, Rev-03.	<b>10</b>
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	<b>10</b>
08.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: <b>R.KANWAR</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033,Alt` c,	<b>04</b>
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213,Alt` d'.	<b>24</b>
11.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	<b>10</b>

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



**Govt. of India- Ministry of Railways  
(MODERN COACH FACTORY RAEBARELI)**



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VER. 01.06.2016

**FOR ELECTRICAL ITEMS**

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

12.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	CC 76216, Alt 'c'.	<b>02</b>
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	<b>24</b>
14.	Battery fuse box +ve Make : <b>ISGPL</b>	LW 71001,Alt-F	<b>01</b>
15.	Battery fuse box -ve Make : <b>NEC</b>	LW 71002,Alt-F	<b>01</b>
16.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>BCH-061602367</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
17.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>330</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	<b>01</b>
18.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev` e' Am-2	<b>02 sets</b>
19.	Feeder junction boxes. Make : <b>ABROL</b>	EDTS-328 REV-C	<b>02</b>
20.	Wheel set earthing equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02</b>
21.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> & Sr no : <b>0115522043</b>	M/s : <b>KNORR</b>	<b>01 set</b>
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : <b>A.RAJA</b> Lug date : <b>07/2015</b>	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	<b>01 set</b>
23.	Battery box for LHB coaches.	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>Dy CEE(P)/MCF/RBL</b>

वरिष्ठ खण्ड अभियन्ता  
विद्युत उत्पादन-गुणवत्ता  
रेल कोच फैक्टरी / लालगंज / रायबरेली  
Sr. Section Engineer  
Electric Production - Quality  
RCF / RBL / LLJ

उप मुख्य विद्युत अभियन्ता (उत्पादन)  
रेल कोच फैक्टरी-रायबरेली, लालगंज  
DY.CEE/P-RCF/RBL/LLJ

