



# आधुनिक रेल डिब्बा कारखाना, रायबरेली

## MODERN COACH FACTORY, RAEBARELI

LSEN-122

FORM NO: RCF/RBL/QMF 8002  
VERSION: 2016-01-13**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/146

SHELL NO.	6	7	0	5	6	-	2	0	1	6	-	1	7	-	-	DATE OF DISPATCH	2	5	0	8	2	0	1	6
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RLY	C	R	Type	L	W	S	C	N	-	Coach No.	1	6	2	0	8	/	C	-
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- Railway Board's Order No. : 2015/M(C)/142/1 Dtd. 04.03.2016
- 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)1095 (NPPE) 2)1099 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

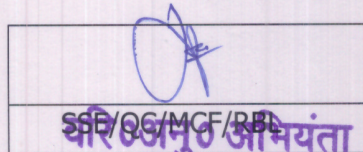
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	MCF/RBL
		Complete	MCF/RBL
2.	Side wall	MCF/RBL	RH
3.	End wall	NPP-M/s Neera Chandigarh	PP END
		PP-Rubican Steel Mohali	67056
4.	Roof	MCF/RBL	LH
5.	Centre Buffer Coupler	M/s SANROK	PP END
6.	Buffers	N.A.	1203
			NPP END
			1306

**6. AIRBRAKE TEST REPORT:**

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	7 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

**7. PAINTING DAETAILS:**

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s VIBGYOR	93/89
2.	Insulation		Satisfactory	



SDE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिआ, रायबरेली (लालगंज)





LSCM-122

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RLY	C	R	Type	L	W	S	C	N	Coach No.	1	6	2	0	8	/	C		
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**8. DETAIL OF BOGIES :**

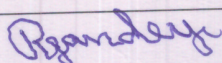
ITEMS	PP Side				NPP Side			
Bogie No	160199				160200			
Bogie Type	FLAT				FLAT			
Frame no.	SCI/FM-599				SCI/FM-590			
Bolster no.	RBL-426				RBL-448			
Axle No	P- 9597 RWF		P- 9542 RWF		P- 9654 RWF		P- 9821 RWF	
Wheel Dia	917.429	917.455	917.426	917.453	917.374	917.415	917.344	917.412
Wheel Disc No	03260-6QL7 TZ-05-16	03258-6QL7 TZ-05-16	03330-6QL4 TZ-05-16	03261-6QL4 TZ-05-16	01210-6QJ1 TZ-05-16	01209-6QJ1 TZ-05-16	02736-5VJ6 TZ-05-16	01206-6QJ1 TZ-05-16
R.B. Nos.	07-14 02372	07-14 01939	07-14 01831	07-14 02339	04-14 29486	04-14 32729	04-14 29494	04-14 30684
CT R B Make	TIMKEN		TIMKEN		SKF		SKF	

**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.	CMFSK04-16- 5101-197-24	CMGBD03-16- 510004-192-46	CMFSK04-16- 5101-197-50	CMGBD03-16- 510004-192-45	CMFSK04-16- 5101-197-64	CMGBD03-16- 510004-72	CMFSK04-16- 5101-197-67	CMGBD03-16- 510004-5
Compressed Ht. at Tested Load	512	469	512	472	515	472	516	470
Alignment deviation (mm)	7	3	9	3	9	6	9	6

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
		G 14-3	G 14-3	G
1.	Primary outer Spring	CMFSK 05-15-1101-166(17,170,104,187)	CMFSK 06-15-1101-168-98, 12-14-1101 138(105,83,22)	CMFSK
2.	Primary Inner Spring	2016-05(31347,31299,31389,31518)	2016-05(31797,31690,31758,31674)	KONI
3.	Primary Damper	KONI 18-2016 (8894,9132)	KONI 18-2016 (8932,9015)	KONI
4.	Secondary Damper	KONI 15-2016 4161	KONI 15-2016 4522	KONI
5.	Lateral Damper	3873K-29,3862K-29,3783K-29,3822K-29	2871K-29,3861-29,3860K-29,3870K-29	KBI
6.	Brake Cylinder	3566-29,3634-29,3554-29,3514-29	3564-29,3633-29,3632-29,3563-29	KBI
7.	Brake Caliper	FAV 02-16 (559,558,567,563) D133561-300	FAV 02-16 (525,516,510,518) D133561-300	FAV
8.	Brake Disc			SGA
9.	Ball Joint Control Arm			MGN
10.	Lateral Bump Stop			EMSON
11.	Traction Centre make			JI-12-15
12.	Traction lever make			GMT
13.	Ball joint traction lever			GMT
14.	Ball joint traction centre			DUREL
15.	Secondary Rubber Pad			GMT
16.	Rubber Spring			EMSON
17.	Anti roll bar make			SARITA/GMT
18.	Roll Link make			SARITA
19.	Fork make			



Signature of SSE/Bogie/QC





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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	16G1688
2.	Pull box	M/s KBI ,Faridabad ,New Delhi	
3.	DV	M/s KBI ,Faridabad ,New Delhi	2016F2442
4.	PVC	M/s Responsive Industries, Colaba, Mumbai	
5.	UIC Vestibule (PPE)	M/s Cemcon Industries ,Delhi	
6.	UIC Vestibule (NPPE)	M/s Cemcon Industries ,Delhi	
7.	Foot Step	M/s Hitech Infra RBL	
8.	Lavatory Inlay	M/s Oasis Febrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries,Faridabad	
10.	Body Side Window	M/s AB Composit, Kolkata	
11.	Emergency Window	M/s AB Composit, Kolkata	
12.	Hooper Window	M/s Rail Tech Kapurthala	
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 Rail Fab Kapurthala	
18.	Auxiliary Water Tank	M/s Manoj Eterprises, Mohali Punjab	
19.	Under Slung Water Tank ( 2X685L)	M/s Amit Engg, Mohali Punjab	
20.	Under Slung Water Tank(1X450L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s Kalsi Pump Pvt.Ltd. Jalandhar	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Ananya Rail Coach Components Industries RBL	
24.	Snack Table	M/s Gandhi Enterprises, jalandhar	

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (लालगंज)





# आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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 Frequency	REFERENCE & PERIOD OF TRIAL

### 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 qualityrcfrbl@gmail.com

 <b>वरिष्ठ अभियंता</b> <b>SSE/OC/MCF/RBL</b> <b>गुणवत्ता विभाग</b> <b>रेडिका 0, रायबरेली (लालगंज)</b>	 <b>सहायक यान्त्रिक अभियंता/ गुणवत्ता</b> <b>AME/QC/MCF/RBL</b> <b>रेल डिब्बा कारखाना, लालगंज, रायबरेली</b> <b>Rail Coach Factory, Lalganj, Raebareli</b>	 <b>Dy. CME/FBR/MCF/RBL</b> <b>रेल कोच फैक्ट्री / रायबरेली / लालगंज</b> <b>RCF / RBL / LLJ</b>
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SCN - 122

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



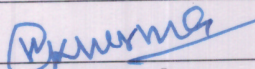
MCF/RBL/QEFSCN-8001  
VER. 01.06.2016

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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	16208/c
RAILWAY	CR	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>SSK</b> On board Sr no : <b>2015/03/006</b> Make: <b>ABROL</b> HT panel Sr no : <b>2016-03-57A</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller& pump box Make: <b>KALSI</b> Sr no PA: <b>5207/5/2016</b> Sr no.1: <b>267456/5/2016</b> Sr no.2: <b>267457/5/2016</b> Srno.CPA: <b>5207/5/2016</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>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>

**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**

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>ABROL</b>	LW 71001,Alt-F	<b>01</b>
15.	Battery fuse box -ve Make : <b>ABROL</b>	LW 71002,Alt-F	<b>01</b>
16.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>BCH-061606091</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
17.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>496</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>NEC</b>	EDTS-328 REV-C	<b>02</b>
20.	Wheel set earthing equipment. Make : <b>MAA LAXMI,CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
21.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0116102277</b>	M/s : <b>KNORR</b>	<b>01 set</b>
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>HBL</b> Lug date : <b>05/2016</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

उप मुख्य विद्युत अभियन्ता (उत्पादन)  
रेल कोच फैक्टरी-रायबरेली, लालगंज  
DYCEE/P MCF/RBL ALJ

