



**Modern Coach Factory Raebareli**  
**आधुनिक रेल डिब्बा कारखाना, रायबरेली**

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

LSEN-194

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 325

Coach No.	1	6	2	7	8	/	C	-	DATE OF DISPATCH	2	7	1	2	2	0	1	6
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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	2	6	-	2	0	1	6	-	1	7
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- Railway Board's Order No. : **2016/M(C)/142/1 Dated- 18.05.2016**
- Tare Weight of Coach : **41.24 Tones**
- 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)1103 (NPPE) 2)1102 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

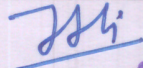
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	M/s Ved Sessomeccanica India Pvt. Ltd. Kanpur	PP END	67126	NPP END	67126
	Front Part					
	Complete	M/s-MCF/RBL				
2.	Side wall	M/s-MCF/RBL	RH	67126	LH	67126
3.	End wall	PP- M/s Rail Tech, KXH	PP END	67126	NPP END	67126
		NPP- M/s Rail Tech, KXH				
4.	Roof	M/s-Pennar Industries Ltd. Tamilnadu				
5.	Centre Buffer Coupler	M/s ESCORTS	PP END	6607	NPP END	6608
6.	Buffers	N.A.				

**6. AIRBRAKE TEST REPORT:**

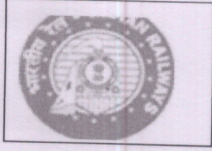
S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> .	6 – 10 sec.	7 sec.
		➤ Max. pressure in BC	3.0 ±0.15 kg/cm <sup>2</sup> .	3.0 kg/cm <sup>2</sup>
		➤ All Brake are applied	OK	OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <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	VIBGYOR	95/90
2.	Insulation		Satisfactory	

  
 SSE/QC/MCF/RBL  
 गुणवत्ता विभाग  
 रीडिका, रायबरेली

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**MODERN COACH FACTORY, RAEBARELI**

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RLY	C	R	Type	L	W	S	C	N	Shell No.	6	7	1	2	6	-	2	0	1	6	-	1	7

**8. DETAIL OF BOGIES :**

ITEMS	PP Side				NPP Side			
Bogie No	160680				160679			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-256				VS/RBL-254			
Bolster no.	MCF/RBL-909				MCF/RBL-803			
Axle No	S 3266 RWF		S 3831 RWF		S 1867 RWF		S 1659 RWF	
Wheel Dia	917.324	917.314	917.325	917.300	917.268	917.276	917.329	917.316
Wheel Disc No	00027-6043 06-16	00105-6047 06-16	00012-6140 07-16	00185-6137 07-16	00042-6047 VR 06-16	00040-6137 VR 07-16	00092-6129 VR 07-16	00026-6047 VR 06-16
R.B. Nos.	09-16 07819	09-16 07736	09-16 07417	09-16 07630	09-16 07430	09-16 07890	09-16 07899	09-16 07346
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.	DN 15-0-2225	DN 15-0-1890	DN 15-0-1374	DN 15-G-972	DN 15-0-2235	DN 15G-931	DN 15-0-1215	DN 15G-947
Compressed Ht. at Tested Load	513	467	513	469	510	470	510	471
Alignment deviation (mm)	13	9	11	8	10	14	14	16

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMGBD	11-16-1100-114(6,25,8,57)	11-16-1100(133-45,114-83,114-30,114-50)
2.	Primary Inner Spring	CMGBD	10-16-1101-124(73,119,45),08-16-1101-64-31	08-16-1101-64-77, 10-16-1101-124(70,56,49)
3.	Primary Damper	KONI/GEREP	06-2016(34722,34777,34747,34789)	24-2016-301530049
4.	Secondary Damper	KONI	18-2016(9014,9199)	18-2016(9126,8951)
5.	Lateral Damper	KONI	22-2016-5574	22-2016-5582
6.	Brake Cylinder	KBI	4620K29,4672K29,4671K29,4618K29	4564K29,4636K29,4635K29,4563K29
7.	Brake Caliper	KBI	4186-29,4363-29,4362-29,4184-29	4131-29,4327-29,4326-29,4130-29
8.	Brake Disc	FAV	10-16(4794,4892,4853,4975) D133561-300	10-16(4793,4791,4978,4980) D133561-300
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	J.I		
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	SARITA		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

*Ragandev*  
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 ,Palwal Haryana	16H1782
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	
4.	PVC	M/s Premier polyfilm, New Delhi	2016H2571
5.	UIC Vestibule (PPE)	M/s Sun crest Industries West Bengal	
6.	UIC Vestibule (NPPE)	M/s Sun crest Industries West Bengal	
7.	Foot Step	M/s Hi-tech Infra RBL	
8.	Lavatory Inlay	M/s Oasis Fabrication 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 Composites, Kolkata	
12.	Hopper Window	M/s Aikon Technologies Pvt. Ltd. Solan	
13.	Non-AC Area Ceiling	M/s Gandhi Safe & Allied, Jalandhar	
14.	Body Side Doors	M/s JBM ,Faridabad/Sukata, CDH	
15.	Vestibule Door(PPE)	M/s Kalsi LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi LDH	
17.	Bio Tank	M/s Rail Tech, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank ( 2X685L)	M/s Amit Engg, Baddi	
20.	Under Slung Water Tank (1X450L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s KPR Industries, Mohali	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

*Jhi*  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग

रेडि०का०, 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	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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com

वरिष्ठ अभियंता SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगज)	AME/QC/MCF/RBL G.S. Pandey सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy CME/FJR/MCF/RBL उप निरीक्षक DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लालगज RCF / RBL / LLJ



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



SCN-19A

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	16278/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

*D. Kumar*

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



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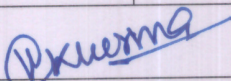


MCF/RBL/QEFSCN- 8001  
VER. 01.06.2016  
PAGE 2 OF 3

**FOR ELECTRICAL ITEMS**

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

01.	Switch board cabinet Make : <b>AMIT</b> On board Sr no : <b>334</b> HT panel Sr no : <b>317</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>5530/07/16</b> Sr no.1: <b>269317/07/2016</b> Sr no.2: <b>269318/07/2016</b> Srno.CPA: <b>5494/07/2016</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>CROMPTON GREAVES</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**



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MCF/RBL/QEFSCN- 8001

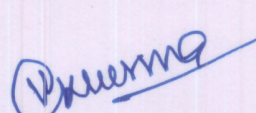
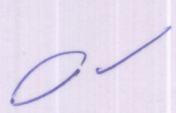
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**FOR ELECTRICAL ITEMS**

**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>NEC</b>	LW 71001,Alt-F	<b>01</b>
15.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
16.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>061610248</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
17.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>15015642</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>S INTERNATIONAL</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>CHANDA &amp; CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
21.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr no : <b>0116122313</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>HBL</b> Lug date : <b>11/2016</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 फॅक्टरी / लालगंज / रायबरेली  
Sr. Section Engineer

उप मुख्य विद्युत अभियन्ता (उत्पादन)  
रेल कोच फॅक्टरी-रायबरेली, लालगंज  
DYCEE(P)/MCF/RBL/11.1