

LSEN-203



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 340

Coach No.				1	6	2	8	7	/	C	-	DATE OF DISPATCH					3	1	1	2	2	0	1	6
RLY	C	R	-	Type	L	W	S	C	N	Shell No.		6	7	1	3	9	-	2	0	1	6	-	1	7

- 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)1101 (NPPE) 2)1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

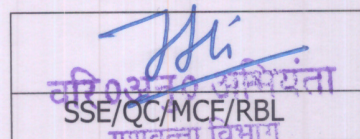
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/s E.C.Blade & Tool Chandigarh	PP END 67139 NPP END 67139
		Complete M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 67139 LH 67139
3.	End wall	PP- M/s E.C.Blade & Tool Chandigarh	PP END 67139 NPP END 67139
		NPP- M/s E.C.Blade & Tool Chandigarh	
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6558 NPP END 6576
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"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ Max. pressure in BC ➤ All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	7 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/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	91/88
2.	Insulation		Satisfactory	



रेडि०का०, रायबरेली (लातगंज)

LSCN-203

RCF/RBL

**MODERN COACH FACTORY, RAEBARELI**

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RLY	C	R		Type	L	W	S	C	N		Shell No.	6	7	1	3	9	-	2	0	1	6	-	1	7

8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160694				160693			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-283				VS/RBL-278			
Bolster no.	SFPL-97				SFPL-105			
Axle No	S-1584 RWF		S-1293 RWF		S-3630 RWF		S-3778 RWF	
Wheel Dia	915	915	915	915	915	915	915	915
Wheel Disc No	05751-6QM6 05-16	01642-6QH2 05-16	07694-6QL1 06-16	07693-6QL1 06-16	07691-6QL1 06-16	07692-6QL1 06-16	07690-6QL1 06-16	02020-6QG0 05-16
R.B. Nos.	07-14 02687	07-14 02679	07-14 02013	07-14 02023	07-14 02009	06-14 00940	07-14 02260	07-14 02027
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 15-0-1213	DN 15G-827	DN 15-0-1309	DN 15G-832	DN 15-0-1312	DN 15G-805	DN 15-0-2237	DN 15G-816
Compressed Ht. at Tested Load	516	468	515	469	514	469	515	472
Alignment deviation (mm)	11	10	12	11	10	10	10	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMGBD	11-16-1100-133(56,92,54,99)	11-16-1100-133-76,11-16-1100-114-147, 11-16-1100-133(84,60)
2.	Primary Inner Spring	CMGBD/G	10-16-1101-124(54,92,18,70)	G16-6
3.	Primary Damper	KONI	06-2016(35021,34776,34798,34779)	06-2016(33188,33143,33321,33364)
4.	Secondary Damper	KONI	18-2016 (8996,8925)	18-2016 (8854,9404)
5.	Lateral Damper	KONI	22-2016 5434	22-2016 5546
6.	Brake Cylinder	KBI	4577K29,4563K29, 4565K29,4579K29	4578K29,4564K29, 4566K29,4580K29
7.	Brake Caliper	KBI	4144-29,4264-29,4266-29,4146-29	4145-29,4265-29,4267-29,4147-29
8.	Brake Disc	FAV	03-16(978,977,859,860) D 133561-300	03-16(864,863,861,862)D 133561-300
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	SGA		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	Jl		
13.	Ball joint traction lever	S.BLOC		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA/EMSON		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

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	16J1842
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016J2629
4.	PVC	M/s Premier polyfilm, New Delhi	
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 Rail Safe Pvt. Ltd, KXH	
13.	Non-AC Area Ceiling	M/s J. R. Industries, Jalandhar	
14.	Body Side Doors	M/s JBM ,Faridabad	
15.	Vestibule Door(PPE)	M/s Hans pal Faridabad	
16.	Vestibule Door(NPPE)	M/s Hans pal Faridabad	
17.	Bio Tank	M/s Amit Engg. Mohali	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank (2X685L)	M/s Shivalik Fasteners, Mohali Punjab	
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 Savitri Engg. Products Ponta Sahib, HP	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

[Signature]
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिओका, रायबरेली (लातगंज)





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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	3	9	-	2	0	1	6	-	1	7
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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

SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	AME/QC/MCF/RBL जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CME/FUR/MCF/RBL उप मु.यां.अभि./फर्नि. DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लालगंज 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	16287/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	

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



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MCF/RBL/QEFSCN- 8001

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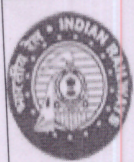
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT On board Sr no : 333 HT panel Sr no : 331	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5511/07/2016 Sr no.1: 269279/07/2016 Sr no.2: 269280/07/2016 Srno.CPA: 5458/07/2016	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	04
04.	Lavatory light fitting assly	LW 76001,Alt nil	04
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.	10
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	10
08.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : R.KANWAR,CROMPTON	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033,Alt`c,	04
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213,Alt`d'.	24
11.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	10

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



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



MCF/RBL/QEFSCN- 8001

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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'.	02
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	24
14.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
15.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
16.	Regulated battery charger Make : HIREL Sr no: 16100228	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : PANTRONICS Sr no : 15015644	As per RDSO/PE/SPEC/TL 0158, 2010, Rev '0', Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONALS	As per spec No EDTS 105,Rev 'e' Am-2	02 sets
19.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
20.	Wheel set earthing equipment. Make : DARSHAN & CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116212470	M/s : KNORR	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WIH MODIFIED TRAY TOSKED-644 Make : AMARARAJA Lug date : 12/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
23.	Battery box for LHB coaches.	CC 91205	01

 SSE/EL/QC	 Dy CEE(P)/MCF/RBL
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वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Section Engineer

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