

आधुनिक रेल डिब्बा कारखाना, रायबरेली MODERN COACH FACTORY, RAEBARELI

LSEN-114

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

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/126

Rolling Stock Certificate No.: MCP/RDL/QC/RSC/2015																										
SHELL NO.		6	7	0	3	6	-	2	0	1	6	-	1	7	-	-	DATE OF DISPATCH		0	8	0	8	2	0	1	6
RLY	C	R	-	Type	L	W	S	C	N	-	Coach No.		1	6	2	0	1	/	C	-						

- 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)1105 (NPPE) 2)1095 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	MCF/RBL	PP END 67036 NPP END 67036
	Front Part	MCF/RBL	
	Complete	MCF/RBL	
2.	Side wall	MCF/RBL	RH 67036 LH 67036
3.	End wall	M/s E.C.Blade & Tool Chandigarh	PP END 67036 NPP END 67036
4.	Roof	MCF/RBL	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 5765 NPP END 5759
6.	Buffers	N.A.	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	<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	M/s VIBGYOR	93/94
2.	Insulation		Satisfactory	

वरिष्ठ अभियंता
SSE/OC/MCF/RBL
गुणवत्ता विभाग
रेडिओकार, रायबरेली (लालगंज)





आधुनिक रेल डिब्बा कारखाना MODERN COACH FACTORY RAEBARELI

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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019																											
SHELL No.		6	7	0	3	6	-	2	0	1	6	-	1	7	-	-	-	DATE OF DISPATCH		0	8	/	0	8	/	1	6
RLY		C	R	Type		L	W	S	C	N			Coach No.		1	6	2	0	1	/	C						

8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160170				160169			
Bogie Type	FLAT				FLAT			
Frame no.	MCF/RBL/AAL/AP-0014				MCF/RBL/BEC-230			
Bolster no.	RBL-592				RBL-532			
Axle No	P-9792 RWF		P-9184 RWF		P-9677 RWF		P-9415 RWF	
Wheel Dia	917.084	917.073	917.119	917.110	917.168	917.044	917.107	916.998
Wheel Disc No	7289-00003 15 VR	7272-00090 15 VR	7303-00090 15 VR	7303-00015 15 VR	07298-00092 15 VR	7289-00106 15 VR	7276-00161 15 VR	7289-00007 15 VR
R.B. Nos.	06-14 01630	07-14 01989	07-14 02465	06-14 01632	07-14 02503	06-14 01603	06-14 01007	06-14 01653
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.	G15-11-150-6	G15-11A-6-0	G15-10-211-194	G15-9-386-197	G15-11-146-29	G15-9-411-20	G15-10-222-20	G15-11A-233-29
Compressed Ht. at Tested Load	514	471	513	469	514	472	516	471
Alignment deviation (mm)	2	8	5	10	1	7	3	9

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
1.	Primary outer Spring	G14-3B	G14-3B	G
2.	Primary Inner Spring	CVFSK 05-15 1101-148-132,12-14 1101-138-174,06-15 1101-186-3,06-15 1101-186-177	CMFSK 12-14 1101-138-137, CMFSK 06-15 1101-138(193,180,161)	CMFSK
3.	Primary Damper	KNORR06-16(1205,1199,1206,1142)	KNORR06-16(1214,1213,1197,1167)	KNORR
4.	Secondary Damper	KW18-2016(9064,9166)	KW18-2016(7652,9060)	KONI
5.	Lateral Damper	S.V. DAWAN 12-15 018497	S.V. DAWAN 12-15 018497	S.V.-DWAN
6.	Brake Cylinder	2127K-29,2176K-29,2175K-29,2126K-29	2130K-29,2173K-29,2174K-29,2128K-29	KBI
7.	Brake Caliper	2085-29,2131-29,2130-29,2084-29	2087-29,2128-29,2129-29,2086-29	KBI
8.	Brake Disc	05-16(1568,1571,1455,1453) D 133561-300	05-16(1567,1570,1477,1482) D133561-300	FAV
9.	Ball Joint Control Arm			GMT
10.	Lateral Bump Stop			MGN
11.	Traction Centre make			SARITA/EMSON
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

Signature of SSE/Bogie/QC

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Rolling Stock Certificate No.: MOP/RDE/2016/00																								
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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	16D1506
2.	Pull box	M/s KBI ,Faridabad ,New Delhi	
3.	DV	M/s KBI ,Faridabad ,New Delhi	2016C2214
4.	PVC	M/s Responsive Industries, Colaba, Mumbai	
5.	UIC Vestibule (PPE)	M/s Suncrest Industries West Bengal	
6.	UIC Vestibule (NPPE)	M/s Suncrest Industries West Bengal	
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 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 Rail Tech, Kapurthala	
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 Kalsi Pump Pvt.Ltd. Jalandhar	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, jalandhar	

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SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडि0का0, 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 अनुसंधान अभियंता SSE/OC/MCF/RBL गुणवत्ता विभाग रेडिओका 0, रायबरेली (लालगंज)	सहायक यान्त्रिक अभियंता/ गुणवत्ता Asst. Mechanical Engineer/ Quality रेडिओ कारखाना, लालगंज, रायबरेली Coach Factory, Lalganj, Raebareli	डी.एम.ए.ए./फर्निशिंग DY CME/FUR/MCF/RBL रेल कोच फैक्ट्री/ रायबरेली/ लालगंज RCF / RBL / LLJ
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SCN-114



**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	16201/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**





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



MCF/RBL/QEFSCN- 8001
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make :SSK On board Sr no :2015/03/002 HT panel Sr no :2015/03/003	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller& pump box Make:KALSISr no PA:5258/05/2016Sr no.1:267659/05/2016 Sr no.2:267660/05/2016 Sr no.CPA:5159/05/2016	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	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

Senior Section Engineer
Quality control / Electrical
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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'.	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 : ISG	LW 71001,Alt-F	01
15.	Battery fuse box -ve Make : ABROL	LW 71002,Alt-F	01
16.	Regulated battery charger Make : AAL Sr no: 061606109	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : PANTRONICS Sr no : 15015279	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	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 earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0115411807	M/s : KNORR	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 06/2016	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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विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer

उप मुख्य विद्युत अभियंता (उत्पादन)
रेल कोच फैक्टरी-रायबरेली, लालगंज

