

आधुनिक रेल डिब्बा कारखाना, रायबरेली

MODERN COACH FACTORY, RAEBARELI

LSEN-124

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

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/147

SHELL NO.	6	7	0	4	4	-	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	1	0	/	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)1105 (NPPE) 2)1095 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

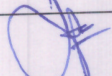
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part MCF/RBL	PP END 67044 NPP END 67044
		Complete MCF/RBL	
2.	Side wall	MCF/RBL	RH 67044 LH 67044
3.	End wall	NPP-M/s NEC Switch Gear & Control Mohali, PB	PP END 67044 NPP END 67044
		PP- M/s Rubican Steel Mohali	
4.	Roof	MCF/RBL	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 5773 NPP END 5784
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 ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	8 sec. 3.0 kg/cm ² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm ² /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	


 SSE/OC/MCF/RBL
 वरिष्ठ अनुसंधान विभाग
 गुणवत्ता विभाग
 रायबरेली (लालगंज)

LSCN-124

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8. DETAIL OF BOGIES :

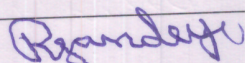
ITEMS	PP Side				NPP Side			
Bogie No	160204				160203			
Bogie Type	FLAT				FLAT			
Frame no.	MCF/RBL/BEC-0243				MCF/RBL/BEC-0238			
Bolster no.	AMIT ENGG.-160402				AMIT ENGG.-1694			
Axle No	P- 9813 RWF		P- 9164 RWF		P- 9410 RWF		P- 9550 RWF	
Wheel Dia	917.151	917.023	917.187	917.063	915.500	915.500	917.092	916.995
Wheel Disc No	7283-00121 15-VR	7283-00132 15-VR	7283-00085 15-VR	7303-00192 15-VR	7303-00048 15-VR	7304-00026 15-VR	7303-00001 15-VR	7304-00148 15-VR
R.B. Nos.	05-14 39845	05-14 39810	04-14 30967	05-14 39624	04-14 29802	05-14 39791	04-14 29291	05-14 39798
CT R B Make	SKF		SKF		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- 5101-197-40	CMFSK04- 16-5100-4	CMFSK04-16- 5101-197-14	CMFSK04-16- 5100-192-83	CMFSK04-16- 5101-197-70	CMFSK04-16- 5100-192-29	CMFSK04-16- 5101-197-8	CMFSK04-16-5100- 192-63
Compressed Ht. at Tested Load	513.5	470	512	471	515.5	470	515	468
Alignment deviation (mm)	8	8	9	9	10	8	8	7

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	CMGBD 03-16 110102 (180,181,24,83)	CMGBD 03-16 110102 (116,104,201,57)	CMGBD
2.	Primary Inner Spring	2016-05(31505,31809,31544,31848)	2016-05(31805,31704,31692,31438)	KONI
3.	Primary Damper	KONI 18-2016 (9350,8820)	KONI 18-2016 (9012,9348)	KONI
4.	Secondary Damper	KONI 15-2016 4669	KONI 15-2016 4708	KONI
5.	Lateral Damper	F16-(296,286,282,294)	F16-(293,002,283,295)	FAV
6.	Brake Cylinder	F16600B,F16599B,G16005B,G16008B	F16006B,F16007B,G16597B,G16598B	FAV
7.	Brake Caliper	24076719 0027 16-16, 24076719 0039 16-16,	24073422 0019 16-16, 24076720 0013 16-16,	KBI
8.	Brake Disc	24076720 0011 16-16, 24076720 0031 16-16	24076719 0028 16-16, 24076719 0014 16-16	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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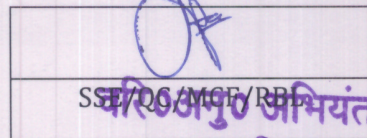
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	F16092B
2.	Pull box	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	
3.	DV	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	16065589B
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 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 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	



SSC/QC/MCF/RBL

गुणवत्ता विभाग

रेडिक्ला, 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 QC / MCF / RBL गुणवत्ता विभाग रेडिक्का 0, रायबरेली (लालगंज)	सहायक मॉनिटरिंग एंगीनियर / गुणवत्ता Asst. Mechanical Engineer/ Quality रेल डिब्बा कारखाना, लालगंज, रायबरेली Rae. Coach Factory, Lalganj, Raebareli	डी. य. सी. एम. ई. / फर्निशिंग रेल कोच फैक्ट्री / रायबरेली / लालगंज RCF / RBL / LLJ



SCN-124

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



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

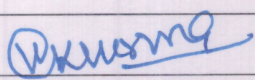
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16210/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 : ISG On board Sr no : 16-05-0019 HT panel Sr no : 16-05-0015	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5223/5/2016 Sr no.1: 267488/5/2016 Sr no.2: 267489/5/2016 Srno.CPA: 5223/5/2016	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

(Signature)
**Senior Section Engineer
Quality control / Electrical
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(MODERN COACH FACTORY RAEBARELI)**



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 : ABROL	LW 71001,Alt-F	01
15.	Battery fuse box -ve Make : ABROL	LW 71002,Alt-F	01
16.	Regulated battery charger Make : IC ELECT Sr no: 1603001	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : PANTRONICS Sr no : PAN-15015431	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	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 : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 20/16/223	M/s : FAIVELEY	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WIH MODIFIED TRAY TOSKED-644 Make : EXIDE 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

वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer

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

