



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/ 274

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

1. Railway Board's Order No. : 2015/M(C)/142/1 Dated. 18.05.2016
2. Tare Weight of Coach : 41.24 Tones
3. 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)1105 (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 67096 NPP END 67096
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 67096 LH 67096
3.	End wall	PP- M/s E.C.Blade & Tool Chandigarh	PP END 67096 NPP END 67096
		NPP- M/s Rail Tech KXH	
4.	Roof	M/s-MCF/RBL	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6093 NPP END 6090
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	7 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	GS	92/88
2.	Insulation		Satisfactory	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लॉन्ग टर्म)



**MODERN COACH FACTORY, RAEBARELI****आधुनिक रेल डिब्बा कारखाना, रायबरेली**

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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160618				160617			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-094				RBL-294			
Bolster no.	RBL-785				RBL-796			
Axle No	S-1630 RWF		S- 1326 RWF		S-2856 RWF		S-1977 RWF	
Wheel Dia	917.267	917.259	917.267	917.252	917.218	917.264	917.224	917.268
Wheel Disc No	00193-6106 07-16	00122-6017 06-16	00161-6108 07-16	00046-6017 06-16	00079-6106 07-16	00118-6109 07-16	00043-6068 06-16	00098-6014 06-16
R.B. Nos.	05-16 04368	05-16 04198	06-16 04750	06-16 04460	05-16 04291	06-16 04910	06-16 04877	05-16 04286
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	DN15-0-1345	DN15-G-811	DN15-0-1335	DN15-G-895	DN15-0-1321	DN15G-908	DN15-0-2215	DN15G-800
Compressed Ht. at Tested Load	512	471	510	467	515	467	516	470
Alignment deviation (mm)	14	13	12	11	9	10	9	13

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	G	G 16-5	G 16-5
2.	Primary Inner Spring	G	G16-6	G16-6
3.	Primary Damper	GREEP	KW 24-2016 301530049	KW 24-2016 301530049
4.	Secondary Damper	KONI	24-2016(8388,7455)	24-2016(8379,8378)
5.	Lateral Damper	KONI	22-2016 4588	22-2016 4590
6.	Brake Cylinder	KBI	4528K29,4438K29,4436K29,4529K29	4530K29,4435K29,4437K29,4527K29,
7.	Brake Caliper	KBI	4090-29,4139-29,4137-29,4094-29	4095-29,4136-29,4138-29,4093-29
8.	Brake Disc	KBI	24082889 0012-29/16,24082889 0008-29/16 24082892 0030-30/16,24082892 0029-30/16	24082884 0031-29/16,24082889 0005-29/16 24082892 0027-30/16,24083567 0023-31/16
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI.12.15		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/SGA		
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	16H1783
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016H2572
4.	PVC	M/s Premier Polyflim Ltd. DLI	
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 Tech KXH	
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 ,LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi ,LDH	
17.	Bio Tank	M/s Rail Fab KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises 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 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	

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL

रेलवे कारखाना, रायबरेली (उत्तर प्रदेश)



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12. MODIFICATION (IF ANY) : Nil

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:

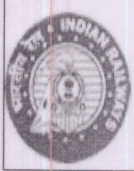
S NO	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from date of supply of material whichever is earlier.

NOTE:

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 (लाल मंज)	AME/QC/MCF/RBL G.S. Pandey सहायक यंत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy. CME/FUR/MCF/RBL DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लाल मंज RCF / RBL / L





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



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

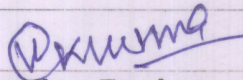
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16267/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
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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 : SSK On board Sr no : 2016-07-028 HT panel Sr no : 2016-07-051	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5500/7/2016 Sr no.1: 269257/7/2016 Sr no.2: 269258/7/2016 Srno.CPA: 5527/7/2016	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: CROMPTON GREAVES	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
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

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 : AAL Sr no: BCH-061608113	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 495	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 : ABROL	EDTS-328 REV-C	02
20.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0116192462	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 : 01/2015	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
23.	Battery box for LHB coaches.	CC 91205	01

 SSE/EL/QC विद्युत उत्पादन-गुणवत्ता रेल कोच फैक्टरी / लालगंज / रायबरेली Sr. Section Engineer	 Dy CEE(P)/MCF/RBL उप मुख्य विद्युत अभियंता (उत्पादन) रेल कोच फैक्टरी-रायबरेली, लालगंज
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