



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/ 335

Coach No.	1	6	2	8	9	/	C	-	DATE OF DISPATCH	3	0	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	2	-	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)1095 (NPPE) 2)1098 (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	67122	NPP END	67122
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	67122	LH	67122
3.	End wall		PP- M/s Rail Tech, KXH	PP END	67122	NPP END	67122
			NPP- M/s E.C.Blade & Tool Chandigarh				
4.	Roof		M/s-Pennar Industries Ltd. Tamilnadu				
5.	Centre Buffer Coupler		M/s ESCORTS	PP END	6545	NPP END	6546
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 DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	VIBGYOR	93/90
2.	Insulation		Satisfactory	

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओका, रायबरेली (लासगंज)

**MODERN COACH FACTORY, RAEBARELI**

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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160768				160767			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-270				VS/RBL-268			
Bolster no.	JUPITER-61				JUPITER-51			
Axle No	S 3460 RWF		S 3724 RWF		S 2846 RWF		S 1520 RWF	
Wheel Dia	917.351	917.327	917.325	917.361	917.350	917.349	917.363	917.344
Wheel Disc No	00170-6045 VR 06-16	00009-6048 VR 06-16	00051-6071 VR 06-16	00055-7196 VR 05-16	00076-6069 VR 06-16	00180-6069 VR 06-16	00031-6069 VR 06-16	00065-6069 VR 06-16
R.B. Nos.	09-16 07317	07-16 06598	09-16 07570	07-16 06754	07-16 06515	07-16 06702	07-16 05020	07-16 05713
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-O-1384	DN-15-G-1178	DN-15-O-2252	DN-15-G-853	DN 15-O-2219	DN-15-G-865	DN 15-O-2228	DN-15-G-854
Compressed Ht. at Tested Load	515	470	515	470	516	469	516	471
Alignment deviation (mm)	9	11	10	14	11	11	10	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMGBD	11-16-1100-(133-68,114-140,133-108,114-124)	11-16-1100-(114-52,133-72,133-133,114-46)
2.	Primary Inner Spring	CMGBD	10-16-1101-(124-14,64-25,124-107,124-65)	10-16-1101-(124-1,124-34,124-86),08-16-1101-64-28
3.	Primary Damper	KONI/GEREP	06-2016(33399,33459,33427,33204)	06-2016(33068,33194,33191,33431)
4.	Secondary Damper	KONI	18-2016(9414,8944)	18-2016(9045,9080)
5.	Lateral Damper	KONI	22-2016-5559	22-2016-5577
6.	Brake Cylinder	KBI	4668K29,4629K29,4632K29,4660K29	4699K29,4516K29,4518K29,4698K29
7.	Brake Caliper	KBI	4225-29,4320-29,4343-29,4226-29	4265-29,4217-29,4219-29,4264-29
8.	Brake Disc	FAV	10-16-(5066,5065,4851,4850) D133561-300	10-16(5068,5067,5070,5069) D133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA		
12.	Traction lever make	SARITA/JI 07-16		
13.	Ball joint traction lever	GMT		
14.	Ball joint traction centre	GMT/SGA		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	MTC		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA/SGA/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	16J1840
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016J2644
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 AB Composites, Kolkata	
11.	Emergency Window	M/s AB Composites, Kolkata	
12.	Hopper Window	M/s Rail Tech, KXH	
13.	Non-AC Area Ceiling	M/s J.R. Industries, Jalandhar	
14.	Body Side Doors	M/s JBM ,Faridabad/Sukata CDH	
15.	Vestibule Door(PPE)	M/s Hanspal KXH	
16.	Vestibule Door(NPPE)	M/s Hanspal KXH	
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 Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

[Signature]
SSE/QC/MCF/RBL
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रेडिंक 0, रायबरेली (लातगंज)



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

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 MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com

SSE/QC/MCF/RBL वरिष्ठ निरीक्षक अभियंता 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

SCN-205



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



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

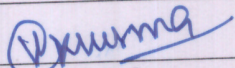
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16289/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 : AMIT On board Sr no : 328 HT panel Sr no : 336	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5464/7/2016 Sr no.1: 270352/7/2016 Sr no.2: 270353/7/2016 Srno.CPA: 5504/7/2016	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

(Signature)

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



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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 : 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: 16100237	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : PANTRONICS Sr no : PAN-15015652	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 : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116122314	M/s : KNORR	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA 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

वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली

उप मुख्य विद्युत अभियन्ता (उत्पादन)
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