



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 255

Coach No.		1	7	2	2	1	/	C	Date of dispatch				1	6	-	0	9	-	1	7				
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	3	-	2	0	1	7	-	1	8

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated- 26.05.2017
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) 1096 (NPPE) 2) 1097 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Manjit techno fab raebareli	PP END	43	NPP END	43
		Complete	M/S Manjit techno fab raebareli				
2.	Side wall		M/s MCF/RBL	RH	77093	LH	77093
3.	End wall	PP END	M/S E.c.blades &tool pvt. Ltd CDG	PP END	77093	NPP END	77093
		NPP END	M/S E.c.blades &tool pvt. Ltd CDG				
4.	Roof		M/S DTL ancillaries ltd pune				
5.	Centre Buffer Coupler		M/S Sanrcok faridabad	PP END	3510	NPP END	3466
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	08 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-BERGER	90/88
2.	Insulation		Satisfactory	

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL
रेडिओका, रायबरेली (लालगंज)



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COACH.NO	1	7	2	2	1	/	C	DATE OF DISPATCH							1	6	-	0	9	-	1	7			
RLY	N	W	R	-	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	0	9	3	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170623				170624			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-513				VS/RBL-512			
Bolster no.	MCF/RBL/VS-0129				MCF/RBL/VS-0125			
Axle No	N-6169		N-6198		N-6559 RWF		N-6481 RWF	
Wheel Dia	917.495	917.490	917.546	917.550	917.507	917.511	917.543	917.546
Wheel Disc No	09471-7NL8 TZ 04-17	01994-7NM4 TZ03-17	09490-7004 TZ04-17	08747-70K1 TZ04-17	04641-7NK6 TZ03-17	06564-70J5 TZ03-17	08769-70J7 TZ04-17	04575-70G1 TZ03-17
R.B. Nos.	03-16 88601	02-16 80225	03-16 88607	02-16 80303	05-16 62712	09-16 79594	05-16 62996	09-16 79596
CTRB Make	SKF		SKF		SKF		SKF	

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.	CMFSK-02-17- F09-240-48	CMFSK-02-17- F08-2311-71	CMFSK-02-17- F09-240-108	CMFSK-02-17- F08-2311-153	CMFSK-02-17- F09-240-107	CMFSK-02-17- F08-2311-33	CMFSK-02-17- F09-240-88	CMFSK-02-17- F08-2311-167
Compressed Ht. at Tested Load	513	470	514	468	512	472	512	471
Alignment deviation (mm)	10	05	08	05	06	10	06	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	05-17-F07-318(553,558,476,412)	05-17-F07-318-671,05-17-F07-317(642,640,662)
2.	Primary Inner Spring	CMGBD	03-17-1101-20(1102,69,04,744)	03-17-1101-20(67,1087,751,116)
3.	Primary Damper	KNORR	05-17(7856,7871,7849,7242)	05-17(7263,7260,7559,7568)
4.	Secondary Damper	GEREP	KW-17-2017 301550739	KW17-2017 301550739
5.	Lateral Damper	KONI	42-2016 5886	42-2016 5693
6.	Brake Cylinder	FAV	E17-159, F17-142, F17-139, E17-157,	E17-350, F17-004, E17-351, D17-297,
7.	Brake Caliper	FAV	F17786B, F17784B, F17785B, F17787B,	F17742B, F17741B, F17740B, F17743B,
8.	Brake Disc	KBI	24099143-0040-14-17, 24099144-0008-14-17, 24099142-0029-14-17, 24099142-0020-14-17, 24099144-0010-14-17, 24099144-0001-14-17, 24099142-0019-14-17, 24099142-0017-14-17,	
9.	Ball joint Control Arm	GMT		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	SARITA		
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	EMSON		
18.	Roll Link make	SARITA/GMT		
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 Faively transport tech.india ltd baddi(HP)	E17065B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17055576B
4.	Foot Step	M/s Super spark pvt. ltd. faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S TWPL mumbai	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
10.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
11.	Gangway bridge mounting (PPE)	M/S-Mahaveer metal works KXH	
12.	Gangway bridge mounting (NPPE)	M/S-Mahaveer metal works KXH	
13.	Body Side Window	M/s Macedon Vinimay Pvt. Ltd, Kolkata	
14.	Emergency Window	M/s AB composites Pvt. Ltd, Kolkata	
15.	Hopper Window	M/s Rail tech KXH	
16.	Side panel	M/S-Milton ind.vadodara	
17.	Roof ceiling	M/s G.I.natural fibre Pvt. Ltd, Kolkata	
18.	Door way ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors	M/s Sukata CDG	
20.	Vestibule Door(PPE)	M/s Kalsi LDH	
21.	Vestibule Door(NPPE)	M/s Kalsi LDH	
22.	Bio Tank	M/s Oriental veneer products	
23.	Auxiliary Water Tank	M/s Amit eng.mohali	
24.	Under Slung Water Tank(2X685L)	M/s Amit eng.Baddi	
25.	Under Slung Water Tank (1X685L)	M/s Amit eng.Baddi	
26.	Bib Cock/Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
27.	Lavatory Doors	M/s JR Industries Jalandhar	
28.	Seat & Berth	M/s Oriental veneer products mumbai	
29.	Snack Table	M/s Gandhi Enterprises Jalandhar	

SSC/QC/MCF/RBL
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)





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Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	3	-	2	0	1	7	-	1	8

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 pad , wheels, push gravity cocks, flushing valves, mouldings, 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 qualityrcfrbl@gmail.com

 वरिष्ठ अधिकारी SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिओका, रायबरेली (लालगंज)	 जी. प्रबु, पाण्डेय AME/QC/MCF/RBL सहायक यंत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer / Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 जे.के. सिंह Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	17221/C
RAILWAY	NWR	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





Modern Coach Factory Raebareli
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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 : 17-02-0156 HT Panel Sr no : 17-02-0143	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2017/05/081 Sr no.1 : 17030035 Sr no.2 : 17030059 Sr no.CPA: 1705/1081(LEC)	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Fitment of Passenger Alarm cum indication light (PACIL), Make : DR AUTO	As per drg no. LW 76005,Alt - e	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : RECORD	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD	EDML 086, Rev 03, ITEM-02	10
07.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : CONCORD,LEC,CROMPTON	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Fitment of Fluorescent light fitting for LHB type coaches. Make : DR AUTO	LW 76033,Alt -c	04
09.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DEW	CC 76213,Alt`d`.	24
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : KAVERI	CC76289 & CC76443	10

[Signature]
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : KAVERI	CC 76216, Alt `c`.	02
12.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	24
13.	Battery fuse box +ve Make : ISG	LW 71001,Alt-F	01
14.	Battery fuse box -ve Make : ISG	LW 71002,Alt-F	01
15.	Regulated battery charger Make : AAL Sr no: 061611305	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : PANTRONICS Sr no : PAN-16015929	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0`, Ty I.	01
17.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev `e` Am-3, TYPE-2	01 set
18.	Feeder junction boxes. Make : ELECO	EDTS-328 REV-C	01 set
19.	Wheel set earthing equipment. Make : DARSHAN, SI	EDTS101,REV-C,AM-1	02 sets
20.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 12/17/391	M/s : FAIVELEY	01 set
21.	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
22.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

 SSE/EL/QC	 SEE(P)/MCF/RBL
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वरिष्ठ अनुमान अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow

