



Modern Coach Factory Raebareilly

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/2017-18/33

Coach No.		1	7	2	2	4	/	C	Date of dispatch				2	4	-	0	5	-	1	7			
Rly	S	W	R	Type	L	W	S	C	N	Shell No.	7	7	0	1	2	-	2	0	1	7	-	1	8

- Railway Board's Order No. : 2016/M(C)/142/1 Dated- 02.03.2017
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL
- 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) 1095 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Shivalic fastners pvt.ltd.mohali	PP END	32	NPP END	32
		Complete	M/S Shivalic fastners pvt.ltd.mohali				
2.	Side wali		M/s-MCF/RBL	RH	77012	LH	77012
3.	End wall	PP END	M/s KEPL/Punchkula	PP END	77012	NPP END	77012
		NPP END	M/s KEPL/Punchkula				
4.	Roof		M/s- Pennar Ind. Ltd., Tamilnadu				
5.	Centre Buffer Coupler		M/s Sarnock ent.ltd fbd	PP END	3031	NPP END	3044
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	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	M/s BERGER	88/87
2.	Insulation		Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान विभाग
गुणवत्ता विभाग
रेडिओ, रायबरेली (लालाजी)





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RLY	S	W	R	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	0	1	2	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	161262				161261			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-280				RBL-349			
Bolster no.	AMIT-178				AMIT-183			
Axle No	S-9539		R-2692		P-2792		R-3641	
Wheel Dia	917.572	917.545	917.565	917.537	917.630	917.379	917.599	917.578
Wheel Disc No	00161-6201 08-16	00066-6219 09-16	00128-6219 09-16	00084-6219 09-16	00188-6223 09-16	00162-6223 09-16	00045-6223 09-16	00035-6223 09-16
R.B. Nos.	12-16 08746	12-16 08643	12-16 08162	12-16 08675	12-16 08452	09-16 07846	12-16 08653	07-16 06804
CTRB 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.	CMFSK-02-17-F-09 240-51	CMFSK-02-17-F-08-2311-144	CMFSK-02-17-F-09-240-98	CMFSK-02-17-F-08-2311-129	CMFSK-02-17-F-09-240-67	CMFSK-02-17-F-08-231-59	CMFSK-02-17-F-09-240-111	CMFSK-02-17-F-08-2311-133
Compressed Ht. at Tested Load	512	471.5	511.5	470.5	515	472	515.5	472
Alignment deviation (mm)	09	09	07	09	06	07	06	06

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMGBD/ CMFSK	02-17(811,69,68,148)	01-17-1100-233(196,312,282,214)
2.	Primary Inner Spring	CMFSK	01-17(353,380,449,83)	01-17-1101-232(11,178,104,197)
3.	Primary Damper	GABRIEL	01-17(0976,1001,0974,997)	01-17(0952,0977,0975,0973)
4.	Secondary Damper	GABRIEL/KNORR	11-16(159,160)	03-17(0345,0343)
5.	Lateral Damper	KONI	22-16-5540	22-16-5483
6.	Brake Cylinder	FAV	A17(059,124,154,075)	A17(099,073,153,103)
7.	Brake Caliper	FAV	B17056B,B17054B,17025B,B17055B	B17027B,B17053B,B17026B,B17028B
8.	Brake Disc	KBI	24088864-0006-01-17,24088864-0002-01-17,24088863-0037-01-17,24088863-0038-01-17	24088863-0039-01-17,24088863-0040-01-17,24088863-0029-01-17,24093098-0017-02-17
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JJ		
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/ 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 Faively trans. tech.india ltd baddi(HP)	B17011B
2.	Pull box	M/s Faively trans. tech.india ltd baddi(HP)	
3.	DV	M/s Faively trans. tech.india ltd baddi(HP)	17025512B
4.	PVC	M/s Responsive ind. Delhi	
5.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
6.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
7.	Foot Step	M/s Super spark pvt. ltd. faridabad	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
10.	Body Side Window	M/s AB compositcs Pvt. Ltd, Kolkata	
11.	Emergency Window	M/s Macedon Vinimay Pvt. Ltd, Kolkata	
12.	Hopper Window	M/s Aikon ind.jalandhar	
13.	Non-AC Area Ceiling	M/s JR Industries Jalandhar	
14.	Body Side Doors	M/s Sukata CDG	
15.	Vestibule Door(PPE)	M/s Kalsi LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi LDH	
17.	Bio Tank	M/s Amit Engg, Baddi	
18.	Auxiliary Water Tank	M/s Amit Engg, Baddi	
19.	Under Slung Water Tank(2X685L)	M/s Amit Engg, Baddi	
20.	Under Slung Water Tank (1X450L)	M/s Manoj Engineering, Mohali	
21.	Bib Cock/Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Oriental veneer products mumbai	
24.	Snack Table	M/s Gandhi Enterprises Jalandhar	

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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 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:

- 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	AME/QC/MCF/RBL	Dy CME/FUR/MCF/RBL

वरिष्ठ अभियंता
गुणवत्ता विभाग
रेडि0000, रायबरेली (लालगंज)

जी.एस. पाण्डेय
U.S. Pandey
सहायक यांत्रिक अभियंता/गुणवत्ता
Assistant Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

उप नि. पाण्डेय/कावे
Dy CME/ Furnishing
आधुनिक रेल डिब्बा कारखाना ता.रायबरेली
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	17224/C
RAILWAY	SWR	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



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 : 16/12/0101 HT Panel Sr no : 16/12/0109	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 217/007 Sr no.1 : 17010071 Sr no.2 : 17010058 Sr no.CPA: 0034/02/2017	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 : SSK	EDML 086, Rev 03, ITEM-02	10
07.	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
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 : VSI	CC76289 & CC76443	10

(Signature)
Senior Section Engineer
Quality control / Electrical
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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 : INTEG	LW 71002,Alt-F	01
15.	Regulated battery charger Make : HI REL Sr no: 16120340	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : PANTRONICS Sr no : 16015793	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 : AECO	EDTS-328 REV-C	01 set
19.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
20.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 50/16/913	M/s : FAIVELEY	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 05/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
22.	Battery box for LHB coaches. Make : HI TECH	CC 91205	01

SSE/EL/QC	Dy CEE(P)/MCF/RBL

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S.S.E./Elect-QC/M.C.F./LLJ/RBL

उप मुख्य विद्युत अभियन्ता
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