



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/2017-18/26

Coach No.				1	7	2	2	2	/	C	Date of dispatch					1	7	0	5	2	0	1	7
Rly	S	W	R	Type	L	W	S	C	N	Shell No.	7	7	0	1	6	-	2	0	1	7	-	1	8

1. Railway Board's Order No. : 2016/M(C)/142/1 Dated- 02.03.2017
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) 1098 (NPPE) 2) 1103 (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 77016 NPP END 77016
		Complete M/s Shivalic fastners pvt.ltd. mohali	
2.	Side wall	M/s-MCF/RBL	RH 77016 LH 77016
3.	End wall	PP END M/s KEPL/Punchkula	PP END 77016 NPP END 77016
		NPP END M/s KEPL/Punchkula	
4.	Roof	M/s- Pennar Ind. Ltd., Tamilnadu	
5.	Centre Buffer Coupler	M/s Escort Pvt. Ltd., Faridabad	PP END 7948 NPP END 7925
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	M/s BERGER	87/86
2.	Insulation		Satisfactory	

वरिष्ठ अनुसंधान अधिकारी
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)





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COACH.NO	1	7	2	2	2	/	C	DATE OF DISPATCH	1	7	-	0	5	-	1	7
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RLY	S	W	R	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	0	1	6	-	2	0	1	7	-	1	8
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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	161260				161259			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-277				ECBT-274			
Bolster no.	AMIT-189				AMIT-188			
Axle No	P-2871		P-3042		V-2082		V-1100	
Wheel Dia	917.612	917.393	917.612	917.270	917.548	917.541	917.537	917.526
Wheel Disc No	00192-6201 08-16	00116-7250 09-16	00067-6223 09-16	00088-6223 09-16	00195-6223 09-16	00128-6223 09-16	00162-6188 09-16	00018-6188 09-16
R.B. Nos.	12-16 08551	07-16 06738	12-16 8669	12-16 08727	12-16 08470	07-16 06698	12-16 08685	09-16 07453
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				BogieN PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMGBD-12-16-5101-136-08	CMFSK-02-17-F-08-2311-182	CMGBD-12-16-5101-136-22	CMFSK-02-17-F-08-231-245	CMFSK-02-17-F-08-240-22	CMFSK-02-17-F-08-2311-134	CMFSK-02-17-F-09-240-132	CMFSK-02-17-F-08-2311-61
Compressed Ht. at Tested Load	515	469.5	516	469.5	515.5	469	515	467.5
Alignment deviation (mm)	07	06	07	07	06	05	07	07

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMFSK /CMGBD	01-17(23,318,44,187)	02-17-1100-05(356,361,354)02-17-1100-04-371
2.	Primary Inner Spring	CMFSK	01-17(95,401,244,252)	01-17-1101-232-428,12-16-1101-218(302,190,113)
3.	Primary Damper	GABRIEL	01-17(1000,998,999,1002)	01-17(0951,0953,0978,0950)
4.	Secondary Damper	KNOOR	03-17(270,269)	03-17(288,311)
5.	Lateral Damper	KONI	22-2016-5445	22-2016-5518
6.	Brake Cylinder	FAV	M16(370,371),A17(008,015)	A17(061,119,002,043)
7.	Brake Caliper	FAV	A1715(3B,2B,1B,4B)	B1707(5B,4B,3B,6B)
8.	Brake Disc	KBI	24088861-0032-01-17,24088864-0003-01-17,24088861-0033-01-17,24088864-0004-01-17	24093098-0035-02-17,24093098-0012-02-17,24093098-0006-02-17,24088863-0036-01-17
9.	Ball joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	JI		
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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Rly	S	W	R	Type	L	W	S	C	N	Shell No.	7	7	0	1	6	-	2	0	1	7	-	1	8

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)	A17025B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	DV	M/s Faively transport tech.india ltd baddi(HP)	17015518B
4.	PVC	M/s Premier polyfilm, New 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 1,3	M/s JBM Faridabad	
15.	Body Side Doors 2,4	M/s Sukata CDG	
16.	Vestibule Door(PPE)	M/s Kalsi LDH	
17.	Vestibule Door(NPPE)	M/s Kalsi LDH	
18.	Bio Tank	M/s Amit Engg, Baddi	
19.	Auxiliary Water Tank	M/s Amit Engg, Baddi	
20.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
21.	Under Slung Water Tank (1X450L)	M/s Manoj Engineering, Mohali	
22.	Bib Cock/Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
23.	Lavatory Doors	N/A	
24.	Seat & Berth	M/s Oriental veneer products mumbai	
25.	Snack Table	M/s Gandhi Enterprises Jalandhar	

वरि०अनु० अभिवंता
SSE/QC/MCF/RBL
रे०डि०अनु०, रायबरेली (लालगंज)





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Rly	S	W	R	Type	L	W	S	C	N	Shell No.	7	7	0	1	6	-	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:

- 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

 वरिष्ठ अनुसंधान अभियंता SSE/QC/MCF/RBL रेल डिब्बा कारखाना, रायबरेली (लालगंज)	 सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 उप मुख्यालय अभियंता/गुणवत्ता DY. QCME/FUR/MCF/RBL आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Lalgaon, Raebareli
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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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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	17222/C
RAILWAY	SW	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	

Dyuman
Senior Section Engineer
Quality control / Electrical
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 : 16/12/0108 HT Panel Sr no : 16/12/0107	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 217/094 Sr no.1 : 12/2950 Sr no.2 : 12/2930 Sr no.CPA: 0073/02/2017	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 : DR AUTO	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

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 : SSK	LW 71002,Alt-F	01
15.	Regulated battery charger Make : HI REL Sr no: 16120347	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 676	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	02 sets
18.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	02
19.	Wheel set earthing equipment. Make : MAA LAXMI,CHANDA	EDTS101,REV-C,AM-1	02
20.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 45/16/801	M/s :	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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गुणवत्ता नियंत्रण
आपरेटिंग/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

उप मुख्य विद्युत अभियन्ता
उत्पादन एवं योजना
आपरेटिंग/लालगंज/रायबरेली
Dy.C.E.E./Prod & Plg/M.C.F./LLJ/RBL