



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/ 247

Coach No.		1	7	2	1	8	/	C	Date of dispatch					1	4	-	0	9	-	1	7			
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	8	2	-	2	0	1	7	-	1	8

- Railway Board's Order No. : 2017/M(C)/142/2 Dated- 26.05.2017
- 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) 1105 (NPPE) 2) 1101 (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 47 NPP END 47
		Complete M/S Shivalic fastners pvt.ltd.mohali	
2.	Side wall	M/s MCF/RBL	RH 77082 LH 77082
3.	End wall	PP END M/s KEPL/Punchkula	PP END 77082 NPP END 77082
		NPP END M/s KEPL/Punchkula	
4.	Roof	M/S Pennar ind. Ltd. Thiruvallur tamilnadu	
5.	Centre Buffer Coupler	M/S Sanrcok faridabad	PP END 3487 NPP END 3507
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	07 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	89/87
2.	Insulation		Satisfactory	

SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालमंज)



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COACH.NO	1	7	2	1	8	/	C	DATE OF DISPATCH										1	4	-	0	9	-	1	7
RLY	N	W	R	-	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	0	8	2	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170589				170590			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-507				ECBT-371			
Bolster no.	MCF/RBL/VS-135				MCF/RBL -1122			
Axle No	N-0805		N-6664		N-6178		N-6191	
Wheel Dia	917.574	917.551	917.551	917.489	917.508	917.581	917.578	917.649
Wheel Disc No	01816-7NL2 03-17	10034-7NM8 04-17	09741-7NM0 04-17	06961-7NK5 03-17	04474-70G1 03-17	08872-70N4 04-17	04475-7NK4 03-17	10016-7NM0 04-17
R.B. Nos.	09-16 76356	05-16 63206	09-16 76328	05-16 63102	09-16 76293	03-16 87309	09-16 76362	07-16 72899
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-04-17- F09-169-61	CMFSK-04-17- F08-222-42	CMFSK-04-17- F09-169-80	CMFSK-04-17- F08-222-235	CMFSK-04-17- F09-169	CMFSK-04-17- F08-222-184	CMFSK-04-17- F09-169-67	CMFSK-04-17- F08-222-89
Compressed Ht. at Tested Load	515	469	516	467.5	514	470	514	469
Alignment deviation (mm)	11	10	11	08	13	11	12	06

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	05-17(463,442,665,418)	05-17(517,415,664,421)
2.	Primary Inner Spring	CMGBD/CMFSK	03-17(278,356,312,96)	03-17(1121,1118,1108), 01-17-651
3.	Primary Damper	KNORR	05-17(7248,7846,7253,7249)	05-17(7506,7593,7381,7583)
4.	Secondary Damper	GEREP	KW-17-2017 301550739	KW17-2017 301550739
5.	Lateral Damper	KONI	42-2016 5860	42-2016 6008
6.	Brake Cylinder	FAV	F17-230, F17-177, F17-016, F17-062,	F17-177, F17-169, F17-081, F17-176,
7.	Brake Caliper	FAV	G17109B, G17107B, G17108B, G17110B,	F17707B, F17705B, F17704B, F17706B,
8.	Brake Disc	KBI	24099143-0003-14-17, 24099142-0007-14-17, 24099142-0034-14-17, 24099142-0036-14-17,	24099143-0018-14-17, 24099143-0019-14-17, 24099143-0008-14-17, 24099142-0011-14-17,
9.	Ball Joint Control Arm	GMT		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	EMSON		
12.	Traction lever make	SARITA/JI		
13.	Ball joint traction Lever	S-BLOC		
14.	Ball joint traction centre	S-BLOC		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/S-BLOC/SGA		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	8	2	-	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)	F17002B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17055581B
4.	Foot Step	M/s Super spark pvt. ltd. faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S Tawakal 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 Shivalic fastners pvt.ltd. mohali	
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	


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रे०डि०कार०, रायबरेली (बालगंज)



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Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	8	2	-	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 Frequency	REFERENCE & PERIOD OF TRIAL

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. Chief Quality Manager

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)

सहायक यंत्रिक अभियंता / गुणवत्ता
Assistant Mechanical Engineer/Qual. ty
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

जोगिन्दर सिंह
Joginder Singh
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	17218/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	

(Signature)
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 : 17/02/0157 HT Panel Sr no : 17/02/0156	EDTS 333, Rev`01`Am-1	01
02.	P/ump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2017/05/033 Sr no.1 : 17030020 Sr no.2 : 17030060 Sr no.CPA: 17/05/1096	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	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

Senior Section Engineer
Quality control / Electrical
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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 : HI REL Sr no: 16080084	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 816	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 earthling equipment. Make : CHANDA&CHANDA	EDTS101,REV-C,AM-1	02 sets
20.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 22/17/656	M/s : FAIVELEY	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : A RAJA Lug date : 07/2017	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	 SEE(P)/MCF/RBL
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वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
अणुपरेडिडका/ 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

