



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/ 252

Coach No.		1	7	2	2	0	/	C	Date of dispatch				1	5	-	0	9	-	1	7				
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	6	-	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) 1105 (NPPE) 2) 1104 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part Complete	M/S Manjit techno fab raebareli	PP END 45 NPP END 45
2.	Side wall	M/s MCF/RBL	RH 77096 LH 77096
3.	End wall	PP END M/S E.c.blades & tool pvt. Ltd CDG	PP END 77096 NPP END 77096
		NPP END M/S E.c.blades & tool pvt. Ltd CDG	
4.	Roof	M/S Pennar ind. Ltd. Thiruvallur tamilnadu	
5.	Centre Buffer Coupler	M/S Sanrcok faridabad	PP END 3469 NPP END 3514
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	90/86
2.	Insulation		Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
(रेलवे डिपार्टमेंट, रायबरेली)



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COACH.NO	1	7	2	2	0	/	C	DATE OF DISPATCH							1	5	-	0	9	-	1	7			
RLY	N	W	R	-	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	0	9	6	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170708				170707			
Bogie Type	FIAT				FIAT			
Frame no.	RBL-627				MCF/RBL-519			
Bolster no.	RBL-1120				MCF/RBL-1016			
Axle No	N-6538		N-6129		N-6476		N-6704	
Wheel Dia	917.599	917.489	917.561	917.483	917.513	917.490	917.515	917.485
Wheel Disc No	08445-70K1 03-17	08442-70K1 03-17	04897-7NK7 03-17	04895-7NK7 03-17	01210-70J0 03-17	08063-7NN1 03-17	08446-70K1 03-17	01111-70J0 03-17
R.B. Nos.	09-16 76899	05-16 63101	09-16 80078	05-16 63104	05-16 97985	09-16 77047	02-16 81712	09-16 78684
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-F09-240-26	CMFSK-02-17-F08-2311-166	CMFSK-02-17-F09-240-12	CMFSK-02-17-F08-2311-184	CMFSK-02-17-F09-240-17	CMFSK-02-17-F08-231-50	CMFSK-02-17-F09-240-83	CMFSK-02-17-F08-2311-261
Compressed Ht. at Tested Load	516	470	516	468	516	468.5	514.5	468.5
Alignment deviation (mm)	10	04	11	06	08	11	07	07

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMGBD	06-17(19,247,339,54)	06-17(316,278,59,374)
2.	Primary Inner Spring	CMGBD	05-17(932,569,452,935)	05-17(802,884,791,862)
3.	Primary Damper	GABRIEL	05-17(1420,1421,1422,1424)	04-17(1332,1382,1335,1334)
4.	Secondary Damper	GEREP	KW-17-2017 301550739	KW17-2017 301550739
5.	Lateral Damper	KONI	42-2016 5926	42-2016 5722
6.	Brake Cylinder	FAV	C17-070, F17-053, F17-052, E17-293,	F17-006, F17-013, F17-015, F17-004,
7.	Brake Caliper	FAV	G17149B, G17148B, G17147B, G17150B,	G17137B, G17136B, G17135B, G17138B,
8.	Brake Disc	FAV	D-133561-300-06-17-3435, D-133561-300-06-17-3437, D-133561-300-06-17-3412, D-133561-300-06-17-3409,	D-133561-300-06-17-3408, D-133561-300-06-17-3407, D-133561-300-06-17-3438, D-133561-300-06-17-3436,
9.	Ball Joint Control Arm	S-BLOC		
10.	Lateral Bump Stop	MTC		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	SARITA/JI		
13.	Ball joint traction Lever	MTC		
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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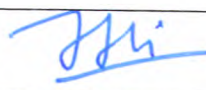
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11.TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	E17062B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17055568B
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 M.K. precision ltd. Navi mumbai	
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	


SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (जालंधर)





Modern Coach Factory Raebareli

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Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	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 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 qualityrcfrbl@gmail.com

SSE/QC/MCF/RBL	AME/QC/MCF/RBL Assistant Mechanical Engineer/Qual'ty आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. COM/MCF/RBL Joginder Singh उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालबंज)



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	17220/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



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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On Board Sr no : 2017/06/151 HT Panel Sr no : 2017/06/0163	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : LEC Sr no PA: 17/05/1097 Sr no.1 : 17040064 Sr no.2 : 17040062 Sr no.CPA: 17/05/1095	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,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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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 : SSK	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: BCH061701317	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 817	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	01
17.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	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 : S INTERNATIONAL	EDTS101,REV-C,AM-1	02 sets
20.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 19/17/640	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 : ANANYA	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL

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गुणवत्ता नियंत्रण
आपरेटिंग/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