



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/ 618

Coach No.		1	8	2	0	4	/	C	-	Date of dispatch				0	8	-	0	3	-	1	8			
Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	1	9	4	-	2	0	1	7	-	1	8

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated-05-01-2018
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/-10	1) 1098 (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 06 NPP END 06
		Complete M/s Shivalic fastners pvt.ltd. mohali	
2.	Side wall	M/S V4U(CONTRACTOR)	RH 77194 LH 77194
3.	End wall	PP END M/S E.c.blades & tool pvt. Ltd CDG	PP END 77194 NPP END 77194
		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 Escorts ltd railway equipment FBD	PP END 2824 NPP END 2786
6.	Buffers	N.A.	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	➤ 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	08Sec. 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	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -VIBGYOR	MCF	89/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

रेलवे कारखाना, रायबरेली (उत्तर प्रदेश)



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RLY	C	R	-	-	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	1	9	4	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	171270				171269			
Bogie Type	FIAT				FIAT			
Frame no.	VS-787				MCF/RBL-688			
Bolster no.	AMIT ENG.-171(30-01-18)				SFPL-203(07-02-18)			
Axle No	17-Z-4885		17-Z-2716		17A-8910		17B-8171	
Wheel Dia	917.437	917.403	917.461	917.486	917.408	917.494	917.417	917.497
Wheel Disc No	TZ-05-17 16904-70P7	TZ-05-17 13910-70H1	TZ-05-17 09864-70P1	TZ-05-17 13911-70H1	TZ-5-17 20067- 7PK9	TZ-06-17 23299-7RK3	TZ-06-17- 23298-7QJ7	TZ-06-17 23297-7QJ7
R.B. Nos.	09-17-10114	07-17-08215	09-17-09618	07-17-08153	09-17-11660	09-17-12619	09-17-12138	09-17-13311
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.	DN-16W-1967	CMFSK-09-17- 5100-315-37	DN-16W-2006	CMFSK-09-17- 5100-315-136	DN-16X-1909	CMFSK 09-17- 5100-315-4	DN-16X-1883	CMFSK-09-17- 5100-315-12
Compressed Ht. at Tested Load	513	468	513	467.5	515	469	514	469
Alignment deviation (mm)	11	13	11	12	09	08	11	12

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	460,471	393,468
2.	Primary outer Spring	CMFSK/CMGBD	03-17 (71,94,170,399)	06-17(61,175,92,177)
3.	Primary Inner Spring	CMFSK	03-17-(591,348,546,561)	08-17(367,508,547,358)
4.	Primary Damper	KNORR	09-17(11373,11338,11354,11346)	09-17(11440,11447,11341,11350)
5.	Secondary Damper	GEREP	KW 17-2017(301550739)	KW 17-2017(301550739)
6.	Lateral Damper	SV	06-17 -019524	06-17 -019524
7.	Brake Cylinder	KBI	9783-K29, 9479-K29, 9469-K29,9706-K29	9701K-29,9470K-29,9478K-29,9707K-29
8.	Brake Caliper	KBI	8780-29,08836-29,8834-29,8779-29	8777-29,8835-29,8833-29,8778-29
9.	Brake Disc	KBI	24119149-0031-52-17, 24119149-0030-52-17,24119149-0028-52-17, 24119149-0029-52-17	24119149-0009-52-17, 24119149-0010-52-17,24119140-0006-52-17, 24119140-0002-52-17
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction Lever	AR		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/BONY		
20.	Fork make	EMSON		


 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 KBI Faridabad. New Delhi	PASS17L2858
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2017L3892
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 Premier polyfilm, New Delhi	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	UIC Vestibule (PPE)	M/s-Sunrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Sunrest ind.kolkata	
11.	Gangway bridge mounting (PPE)	M/s Mahaveer matel works Kapurthala	
12.	Gangway bridge mounting (NPPE)	M/s Mahaveer matel works Kapurthala	
13.	Body Side Window	M/s AGF Pvt. Ltd, Kolkata	
14.	Emergency Window	M/s EXCEL india Pvt. Ltd, Kolkata	
15.	Hopper Window	M/s Aikon ind.salon H.P	
16.	Side panel	M/S-Deco mica ahemdabad	
17.	Roof ceiling	M/s MICA PLY BHOPAL	
18.	Door way ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors	M/s JBM Faridabad	
20.	Vestibule Door(PPE)	M/s Kalsi LDH	
21.	Vestibule Door(NPPE)	M/s Kalsi LDH	
22.	Bio Tank	M/s Rasandik eng.ind.ltd.	
23.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. 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.	Controlled Discharge Tap	M/s Kalsi Pumps JALANDHER	
27.	Lavatory Doors	M/s JR Industries Jalandhar	
28.	Seat & Berth	M/s Oriental veneer products	
29.	Snack Table	M/s Gandhi JALANDHER	

SSE/QC/MCF/RBL

रायबरेली (महानगर)



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Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	1	9	4	-	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, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the 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
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4, para- V of RDSO specification no .M&C/PCN/100/2013-Given below -

S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate)Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)
1	After 1 year	80% of initial gloss	7	5B
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	4B

If any imperfection is noticed or any defect arises during the warranty –period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL Assistant Mechanical Engineer/Quality	Dy.CQM/MCF/RBL Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना, रायबरेली

SCN - 557



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	18204/C
RAILWAY	CR	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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : ISG On Board Sr no : 17-12-0092 HT Panel Sr no : 17-12-0084	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2017-07-081 Sr no.1 : 17060155 Sr no.2 : 17060314 Sr no.CPA: 2017-07-039	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.	Passenger Alarm Cum Indication Light (PACIL) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	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.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : LIGHT	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: RT VISION	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
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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11.	Battery fuse box +ve Make : INDO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : AUTOMETER Sr no: BCH-061611307	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016643	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make KNORR Sr no : 0117423872	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 09/17	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

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

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/PE

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