



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1232

RLY	N	F	R	Coach No.	1	9	7	7	5	4	/	C	DATE OF DISPATCH	1	2	-	1	2	-	1	9
DISPATCH TO	Sr.DME/DBRG				Type	L	W	S	C	N	1	Shell No.	9	7	5	2	4	FUR.NO.		LSCN-1338	

1. Railway Board's Order No. : 2019/M(C)/142/2, Dated: 21-11-2019
2. Tare Weight of Coach : 41.24 Tones
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL
4. Special feature: - Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018

5. 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) 1102 (NPPE) 2) 1101 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-NECHD
		Complete	NPP END M/S-NECHD
	MCF/RBL		97524
2.	Lav. side wall	M/S- ATHANACY RBL	LAV.1 - LAV.2 -
		M/S- ATHANACY RBL	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE	M/S-ECBT (CDG)
		RH SIDE	M/S-ECBT (CDG)
4.	End wall	PP END	M/s-P.D.STEEL PANCHKULA
		NPP END	M/s-SIPL PALWAL
		M/s-ECBT	---
5.	Roof	M/s-ECBT	---
6.	Centre Buffer Coupler	M/s- FRONTIER	373
		PP END 73P2	NPP END 63P2

7. 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	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

8. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1.	Paint	P.U	M/s -VIBGYOR	(SUPPLY & APPLY)	90/89	01.11.19
2.	Insulation					

Satisfactory

Rome
SSE/QC/MCF/RBL

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MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DISPATCH	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	5	2	4	FUR .NO	LSCN-1338
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192232				192231			
Bogie Type	FIAT				FIAT			
Frame no.	APEX-03				RBL-2038			
Bolster no.	RBL-2933				RBL-2909			
Axle No	19 L - 5034 RWF	19 L - 5319 RWF	19 P- 2421 RWF	19 S - 4091 RWF				
Wheel Dia	917.522	917.487	917.487	917.518	917.505	917.501	917.397	917.44
Wheel Disc No	TZ 08-19 75337-9RP2	TZ 07-19 61889-9RP7	TZ 07-19 61220-9QJ1	TZ 07-19 61888-9RP7	TZ 07-19 64026-9RQ8	TZ 07-19 65817-9RQ0	TZ 07-19 69529-9RM9	TZ 07-19 66746-9P
R.B. Nos.	09-18-37060	09-18-36814	08-19-27862	08-19-28030	08-19-27496	08-19-28072	09-19-37172	08-19-28061
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. 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.	CMAFJ06-19-5101-113	CMFSK05-19-5100-027-523	CMAFJ06-19-5101-135	CMFSK05-19-5100-027-505	CMAFJ09-19-5101-119	CMFSK08-19-5100-027-518	CMAFJ09-19-5101-132	CMFSK08-19-5100-027-542
Compressed Ht. at Tested Load	515	470	515	472	515	471	515	471.5
10Alignment deviation (mm)	10	11	11	11	5	11	5	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	17464,17482	17473,17483
2.	Primary outer Spring	CMFSK	10-19 1100-114 (2128,2176,2164,2144)	10-19 1100-114 (2127,2112,2118,2152)
3.	Primary Inner Spring	CMFSK	10-19 1101-101 (449,43,65,481)	10-19 1101-101 (899,435,2131,482)
4.	Primary Damper	KONIC	03-19 (04799,05621,04599,05629)	03-19 (05053,05077,5113,06744)
5.	Secondary Damper	IAI	09-19 (272748,272809)	09-19 (278449,272800)
6.	Lateral Damper	KNORR/IAI	05-19 9573	05-19 9602
7.	Brake Cylinder	ESCORT	(45921,45864,45867,45918)	(49333,49035,46210,45906)
8.	Brake Caliper	ESCORT	(25741,25662,25667,25738)B	(28529,28337,25937,25726)B
9.	Brake Disc	KBI	24203752 0021-42/19,24203752 0022-42/19 24203753 0056-42/19,24203753 0059-42/19	24203751 0062-42/19,24203751 0061-42/19 24200059 0061-38/19,24200099 0008-38/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	SGA		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE/SF	210819-3,210819-2,290819-2,RVE	69,64,54,277
22.	Control Arm Lower	RVE/SF	230819-3,240819-3,230819-5,240819-5	SF,17,79,115
23.	Phonic Wheel	KBI	K08-19	K05-19

Signature of SSE/Bogie/QC

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12. TRACEABILITY OF FURNISHING ITEMS:

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S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	
2.	Pull box	M/S- KBI, FARIDABAD	3838 38/19
3.	Distribution valve	M/S- KBI, FARIDABAD	
4.	FIBA	N/A	2019 J 9027
5.	Foot Step	M/s- SUPER SPAR K PVT. LTD. FARIDABAD	
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/s-SHREE RAM PNL	
8.	PVC	M/S -RESPONSIVE IND	
9.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
10.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
11.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
12.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
14.	Body Side Window	M/s-ACME INDIA NEW DELHI	
15.	Emergency Window	M/s-ACME INDIA NEW DELHI	
16.	Hopper Window	M/s-ACME INDIA NEW DELHI	
17.	Side panel	M/s-WONDER LAMINATE KOLKATA	
18.	Roof ceiling	M/s-ACME INDS NEW DELHI	
19.	Door way ceiling	M/s-JAAM TOOLS RBL	
20.	Body Side Door 1,3	M/s- JVR INDS, LUDHIYANA	
21.	Body Side Door 2,4	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Bio Tank (Pressurized flushing)	M/S- RAIL FAB KXH & IMI	
25.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
26.	Under Slung Water Tank(2X685L)	M/S- SHIVALIK FAST. MOHALI	
27.	Under Slung Water Tank (1X685L)	M/S- SHIVALIK FAST. MOHALI	
28.	Flexible Faucet	M/s-KAPCO VALES JALANDHAR	
29.	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
30.	Controlled Discharge Tap	M/s- EAUSET PVT LTD GURGAON	
31.	Lavatory Doors	M/S- JR INDS JALNDHAR	
32.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
33.	RFID	N/A	

Deema

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DISPATCH TO		Sr.DME/DBRG			Type	L	W	S	C	N	1	Shell No.	9	7	5	2	4	FUR.NO.		LSCN-1338		
13. MODIFICATION (IF ANY)						: Nil																

13. MODIFICATION (IF ANY)

: NIL

14. DEVIATION (IF ANY)

: NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

16WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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 qualitycfrbl@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.

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वरिष्ठ यंत्रिक अभियंता
गुणवत्ता विभाग
७०डि०का०, रायबरेली (लालगंज)

वरिष्ठ यंत्रिक अभियंता/गुणवत्ता उप मुख्य गुणवत्ता प्रबंधक/शेड
Senior Mechanical Engineer/Quality Dy. Chief Quality Manager/Shell
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli 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/HOG NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH		LWSCN		SHELL/COACH NO		197754/C	
RAILWAY		NFR	ELECT.FIT DATE		09-12-2019	FUR.NO	SCN-1338
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/HOG NON AC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-1544 HT Panel Sr no : AE/USBC-1549	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/11/0022 Sr no.1 : 19100066 Sr no.2 : 19100013 Srno.CPA: sr no -NIL-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : RECORD/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD/SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: LIGHT ENGG.	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 : INTRA	CC76289 & CC76443	09

Senior Section Engineer
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11.	Battery fuse box +ve Make : SSK	LW 71001, Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002, Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: W4K5G-19134	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2484	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0`, Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105, Rev`e` Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101, REV-C, AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119312629	M/s : KNORR	01 set
19.	110V, 120AH, VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 08/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : TECHNO	CC 91205	01

वरिष्ठ अनुभाग अभियन्ता

SSE/EL/QC नियंत्रण

आपरेटिंग/लागू/रायबरेली

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

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

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL