



Modern Coach Factory Raebareilly

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/2019-20/1016

RLY	C	R	-	Coach No.	1	9	7	2	3	0	/	C	DATE OF DISPATCH	0	5	-	1	1	-	1	9
DISPATCH TO	SSE/STOCK/CR/BB				Type	L	W	S	C	N	1	Shell No.	9	7	4	9	8	FUR.NO.	LSCN-1303		

1. **Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 13-06-2019
2. **Tare Weight of Coach** : 41.24 Tones
3. **Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. **Special feature: -1.-** 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

2.- RFID(Radio frequency identification) fitted for traceability of coach

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) 1105 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame Front Part	PP END M/S-M.T.F	242
		NPP END M/S-M.T.F	242
	Complete	M/S-M.T.F	242
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 MCF/RBL(CONTRACTOR V4U)LK0	297/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)LK0	297/02
4.	End wall	PP END M/s-RSM MOHALI	---
		NPP END M/s-RSM MOHALI	---
5.	Roof	M/S-ECBT	352
6.	Centre Buffer Coupler	M/S -SANROK ENT.	PP END 14224 NPP END 14151

7. 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

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-NEROLAC	(SUPPLY & APPLY)	90/88	12.10.19
2.	Insulation	Satisfactory				

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191586				191585			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1191				MCF/RBL-1194			
Bolster no.	SECPL-234				SECPL-236			
Axle No	19 S- 3554 RWF		19 S- 3495 RWF		19 S- 0982 RWF		19 S- 6806 RWF	
Wheel Dia	917.433	917.499	917.447	917.51	917.511	917.569	917.476	917.534
Wheel Disc No	TZ 07-19 65626-9RL9	TZ 07-19 65625-9RL9	TZ 07-19 67051-9RM8	TZ 07-19 69682-9RN3	TZ 07-19 70508-9RN6	TZ 07-19 65880-9RQ0	TZ 07-19 67043-9RM8	TZ 07-19 67042-9RM8
R.B. Nos.	08-19-23464	08-19-24080	08-19-26040	08-19-24980	08-19-24910	08-19-24646	08-19-25427	08-19-25427
CTRB 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
Make & Nos.	TAYAL & CO. Sr.NO.19-09 3658	TAYAL & CO. Sr.NO.19-09 3780	TAYAL & CO. Sr.NO.19-09 3692	TAYAL & CO. Sr.NO.19-09 3669

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18261,18274	18268,18265
2.	Primary outer Spring	CMFSK	09-19 1100-078 (2249,2287,2205,2206)	09-19 1100-078 (2254,221,52290,1944)
3.	Primary Inner Spring	CMFSK	08-19 11010-064(627,335,355,636)	08-19 11010-064(255,346,361,365)
4.	Primary Damper	KONIC	03-19 (2466,06676,02038,06901)	03-19 (04255,08200,06270,06315)
5.	Secondary Damper	GB	07-19 (01503,01501)	07-19 (01294,01256)
6.	Lateral Damper	KONI	04-19 02334	04-19 02349
7.	Brake Cylinder	KBI	B(8296,7274,7277,8295)K29	B(8302,7271,7272,8303)K29
8.	Brake Caliper	KBI	B(6340,5352,5353,5343)K-29	B(5341,5354,5355,5342)K-29
9.	Brake Disc	KBI/FAV	24198279 0034-35/19,08-19-24080 24198279 0026-35/19,24198279 0027-35/19	FAV-06-19 (6156,6160),D133561-300 KBI-24200072 0038-38/19,24200072 0037-38/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	JJ/ SF(SARITA)		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	19 B- 3802,198-4150	19 B- 4137,198-4125
17.	Check Valve	KNORR	18771	18762
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	SF(SARITA)		
21.	Control Arm Upper	RVE	310719-2,290719-3,270719-3,300719-2	260719-1,310719-2,260719-1,260719-3
22.	Control Arm Lower	RVE	030819-3,020819-3,240719-2,020819-2	030819-4,020819-3,240719-4,030819-4
23.	Phonic Wheel	KNOOR	K-08-19	K-07-19

Signature of SSE/Bogie/QC





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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3749 37/19
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	2019 J 8951
5.	Foot Step	M/s- SUPER SPAR K PVT. LTD. FARIDABAD	PP-7680/29
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	NPP-7591/29
7.	Floor board	M/S-G.I NATURAL KOLKATA	
8.	PVC	M/S-G.I NATURAL KOLKATA	
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-RAKESH IRON KXH	
13.	Gangway bridge mounting (NPPE)	M/s-RAKESH IRON KXH	
14.	Body Side Window	M/S-G.I NATURAL KOLKATA	
15.	Emergency Window	M/S-G.I NATURAL KOLKATA	
16.	Hopper Window	M/S-G.I NATURAL KOLKATA	
17.	Side panel	M/S-G.I NATURAL KOLKATA	
18.	Roof ceiling	M/S-G.I NATURAL KOLKATA	
19.	Door way ceiling	M/S-G.I NATURAL KOLKATA	
20.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule Door(PPE)	M/S- KALSI, LUDHIYANA	
22.	Vestibule Door(NPPE)	M/S- KALSI, LUDHIYANA	
23.	Bio Tank with pressurized flushing	M/S- JSL LIFE STYLE LTD. & IMI	
24.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
25.	Under Slung Water Tank(2X685L)	M/S- SHIVALIK FAST. MOHALI	
26.	Under Slung Water Tank (1X685L)	M/S- AMIT ENG. MOHALI	
27.	Controlled Discharge Tap	M/s- AGMECO (P) LTD. UK	
28.	Flexible Faucet	M/s-KAPCO VALES JALANDHAR	
29.	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
30.	Lavatory Doors	M/S-G.I NATURAL KOLKATA	
31.	Seat & Berth	M/s- NARMADA FOREST SERVICE LTD. BHOPAL	
32.	Snack Table	N/A	
33.	RFID	M/s-TECH SOLUTION GURGAON	Sr.103741,103742

बिबि
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालमंज)



MCF/RBL



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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 qualityrcfbl@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 वार 03 नु 0 अभियंता	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियंता/गुणवत्ता	Dy.CQM/MCF/RBL जोगिन्दर सिंह
गुणवत्ता विभाग रेडिओका 0, रायबरेली (लालगंज)	Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



MCF/RBL



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197230/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 : AMIT ENGG. On Board Sr no : AE/USBC-1371 HT Panel Sr no : AE/USBC-1373	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/10/0059 Sr no.1 : 6208 Sr no.2 : 6182 Srno.CPA: sr no - 2019/10/002-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: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SALZER/RECORD	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: ORIENT	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 ELECT.	CC76289 & CC76443	09

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11.	Battery fuse box +ve Make : INDORAIL	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
13.	Regulated battery charger Make : PI ENGG. Sr no : PI-19070045	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2148	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 : INDORAIL	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118380272	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 : 08/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL for SEE(P)/MCF/RBL

आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A. /Electrical/MCF/RBL

