



# 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/2019-20/927

RLY	N	R	-	Coach No.	1	9	7	1	1	7	/	C	DATE OF DISPATCH	2	1	-	1	0	-	1	9
DISPATCH TO	Sr.DME(CHG)/FZR				Type	L	W	S	C	N	1	Shell No.	9	7	3	5	8	FUR.NO.	LSCN-1290		

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 &amp; 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:

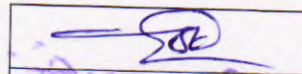
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-CHENNAI RADHA ENG.
		NPP END	M/S-CHENNAI RADHA ENG.
	Complete	M/S-CHENNAI RADHA ENG.	62
2.	Lav. side wall	M/S-ATHANACY RBL	62
		M/S-ATHANACY RBL	LAV.1 - LAV.2 -
		M/S-ATHANACY RBL	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE	MCF/RBL(CONTRACTOR V4U)
		RH SIDE	MCF/RBL(CONTRACTOR V4U)
4.	End wall	PP END	M/s-DTL PUNE
		NPP END	M/s-DTL PUNE
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5.	Roof	M/s-ECBT	---
6.	Centre Buffer Coupler	M/S-FAIVELEY	334
		PP END	G-19011 NPP END G-19020

#### 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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 Sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	KANSAI NEROLAC	91/90	04.10.19
2.	Insulation			Satisfactory		

  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

**ROLLING STOCK CERTIFICATE**

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DISPATCH	Sr.DME/CHG/FZR	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	8	FUR.NO	LSCN-1290
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**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	191577				191578			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-569				MCF/RBL-1160			
Bolster no.	SECPL-262				SECPL-261			
Axle No	19 R- 2392 RWF		19 S- 1938 RWF		19 S- 1185 RWF		19 S- 1184 RWF	
Wheel Dia	917.502	917.607	917.497	917.597	917.498	917.599	917.46	917.567
Wheel Disc No	TZ 07-19 63412-9RP6	TZ 07-19 63411-9RP6	TZ 07-19 63373-9RP4	TZ 07-19 63413-9RP6	TZ 07-19 70507-9RN6	TZ 07-19 64372-9RP4	TZ 07-19 69958-9RM2	TZ 07-19 75889-9SK2
R.B. Nos.	08-19-25938	08-19-23777	08-19-23188	08-19-25913	08-19-26002	08-19-26050	08-19-25920	06-19-12547
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
Make & Nos.	TAYAL & CO. Sr.NO.19-09 3801	TAYAL & CO. Sr.NO.19-09 3787	TAYAL & CO. Sr.NO.19-09 3781	TAYAL & CO. Sr.NO.19-09 3804

**11. TRACEABILITY OF BOGIE ITEMS :-**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	16378,16362	16365,16372
2.	Primary outer Spring	CMSTL	07-19 07A(1292,215,92037,1306)	07-19 07A(2110,448,71534,4807)
3.	Primary Inner Spring	CMFSK	08-19 1101-064(427,460,616,436)	08-19 1101-064(502,507,531,57)
4.	Primary Damper	KONI	03-19 (02071,02035,02555,02586)	03-19 (01867,02061,02066,01877)
5.	Secondary Damper	KONI/KNORR	04-19 (00859,00849)	07-19 (19516,19362)
6.	Lateral Damper	KONI	04-19 02397	04-19 02395
7.	Brake Cylinder	KBI	B(8305,7248,7251,8300)K-29	B(744,7858,5882,6741)K-29
8.	Brake Caliper	KBI	B(535,95326,5331,5355)K-29	B(3966,4100,4102,3968)K-29
9.	Brake Disc	KBI	06-19 (5785,5783,6002),07-19 (5784)	06-19 (6004,6003,6005,6006)
10.	Ball Joint Control Arm	GMT/AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF/SARITA		
13.	Traction lever make	JL/SF/SARITA		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT/ARYAN		
16.	Leveling Valve	KBI	19B-3719,19B-4185	19B-4063,19B-4070
17.	Check Valve	ESCORT	1904	1905
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/SF		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE/SF	310719-2,300719-1,300719-1,290719-1	240,632,68,2
22.	Control Arm Lower	RVE/SF	030819-1,240719-2,030819-2,240719-4	625,60,85,385
23.	Phonic Wheel	KBI	08-19	08-19

Signature of SSE/Bogie/QC





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**ROLLING STOCK CERTIFICATE**

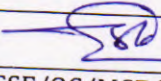
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DISPATCH TO	Sr.DME(CHG)/FZR	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	8	FUR.NO.	LSCN-1290
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**12. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	
2.	Pull box	M/S- KBI, FARIDABAD	3739 37/19
3.	Distribution valve	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	2019 J 8943
5.	Foot Step		PP-7662/29
6.	Decoupling arrangement	M/s- SUPER SPAR K PVT. LTD. FARIDABAD	NPP-10406/29
7.	Floor board	M/S-ELASTOMER LINING WORKS, MUMBAI	
8.	PVC	M/s-GI NATURAL INDS KOLKATA	
9.	Lavatory Inlay	M/s-GI NATURAL INDS KOLKATA	
10.	UIC Vestibule (PPE)	M/s- SEEMA IND. BHOPAL	
11.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
12.	Gangway bridge mounting (PPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
13.	Gangway bridge mounting (NPPE)	M/S- RAKESH IRON STORE, KXH	
14.	Body Side Window	M/S- RAKESH IRON STORE, KXH	
15.	Emergency Window	M/s-GI NATURAL INDS KOLKATA	
16.	Hopper Window	M/s-GI NATURAL INDS KOLKATA	
17.	Side panel	M/s-GI NATURAL INDS KOLKATA	
18.	Roof ceiling	M/s-GI NATURAL INDS KOLKATA	
19.	Door way ceiling	M/s-GI NATURAL INDS KOLKATA	
20.	Body Side Door 1,3	M/s-GI NATURAL INDS KOLKATA	
21.	Body Side Door 2,4	M/S- JVR INDS ,LDH	
22.	Vestibule Door(PPE)	M/S- SUKATA INDS, CDG	
23.	Vestibule Door(NPPE)	M/S- HANSPAL, KXH	
24.	Bio Tank with pressurized flushing	M/S- HANSPAL, KXH	
25.	Auxiliary Water Tank	M/s- RASANDIK ENG. INDUSTRIES, GURUGRAM	
26.	Under Slung Water Tank( 2X685L)	M/S- AMIT ENG. MOHALI	
27.	Under Slung Water Tank (1X685L)	M/S- AMIT ENG. MOHALI	
28.	Controlled Discharge Tap	M/S- AMIT ENG. MOHALI	
29.	Flexible Faucet	M/s-KAPCO VALES JALANDHAR	
30.	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
31.	Lavatory Doors	M/s- AGMECO LTD. UK	
32.	Seat & Berth	M/s-GI NATURAL INDS KOLKATA	
33.	RFID	M/s- T.W.P.L. INDUS. MUMBAI	
		M/s-ID TECH SOLUTION GURGAON	
			Sr.104329,104330

  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)





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DISPATCH TO	Sr.DME(CHG)/FZR				Type	L	W	S	C	N	1	Shell No.	9	7	3	5	8	FUR.NO.	LSCN-1290		

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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
6. 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	SME/QC/MCF/RBL	Dy.CQM/MCF/RBL

गिरि  
गुणवत्ता विभाग  
रेडिओका0, रायबरेली (लालगंज)

सहायक यंत्रिक अभियन्ता/गुणवत्ता-1  
Assistant Mechanical Engineer / Quality-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

जोगिन्दर सिंह  
उप मुख्य गुणवत्ता प्रबन्धक  
Dy. Chief Quality Manager  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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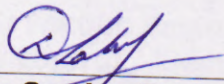
DATE: 18.01.2017

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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	197117/C
RAILWAY	NR	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







Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES**

11.	Battery fuse box +ve Make : <b>INDORAIL</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>RADIANT</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>WAVES</b> Sr no: <b>W4K5H 19499</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC 3089 LHB-2253</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	<b>01</b>
15.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</b>	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	<b>01 set</b>
16.	Feeder junction boxes. Make : <b>SYSTEMS</b>	EDTS-328 REV-C	<b>01 set</b>
17.	Wheel set earthling equipment. Make : <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
18.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0119212032</b>	M/s : <b>KNORR</b>	<b>01 set</b>
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>AMARA RAJA</b> Lug date : <b>08/19</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>HITECH</b>	CC 91205	<b>01</b>

 <b>SSE/EL/QC</b> वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आउटरीडिंग / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 <b>AWM(ELECT.)/MCF/RBL</b> <b>SEE(P)/MCF/RBL</b> वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, Sr. Electrical Engineer / RCF / RBL
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