

LSCW-901



# 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/2018-19/1190

RLY	E	R	-	Coach No.	1	9	1	9	2	4	/	C	DATE OF DISPATCH	1	3	-	0	2	-	1	9			
DISPATCH TO		CWM/LLH		Type	L	W	S	C	N	1	Shell No.	8	7	4	6	0	-	2	0	1	8	-	1	9

1. Railway Board's Order No. : 2018/M(C)/142/2, Dated-07-02-2019
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) 1099(NPPE) 2)1096(PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S Manjit techno fab raebareli
		Complete	NPP END M/S Sidhu ind.corporation KXH
			MCF/RBL
2.	Lav. side wall	M/S Rail tech pvt.ltd. KXH	LAV.1 --- LAV.2 ---
		M/S Rail tech pvt.ltd. KXH	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 Shivalic fastners pvt.ltd. mohali
		NPP END	M/s Shivalic fastners pvt.ltd. mohali
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur Cheenai	255
6.	Centre Buffer Coupler	M/s FRONTIER LTD	PP END 30 NPP END 32

#### 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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	06 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

#### 7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -GS	Supply & apply	90/88
2.	Insulation			Satisfactory	

S. S. S. S. S.  
 वरिष्ठ प्रमुख/महानिरीक्षक  
 गुणवत्ता विभाग  
 रेलवे कारखाना, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	E	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	4	6	0	-	-

**8. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	182724				182723			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1545				MCF/RBL-1572			
Bolster no.	MCF/RBL-2428				MCF/RBL-2024			
Axle No	18 H - 9026 RWF		18 H - 8954 RWF		18 J - 2288 RWF		18 J - 2308 RWF	
Wheel Dia	917.603	917.632	917.586	917.602	917.532	917.588	917.544	917.615
Wheel Disc No	TZ 07-18 39309-8RQ6	TZ 07-18 42775-8RS7	TZ 07-18 38020-8RL7	TZ 07-18 39065-8RQ4	TZ07-18 40123-8RM5	TZ07-18 40122-8RL4	TZ08-18 44944-8RS8	TZ05-18 24682-8PS2
R.B. Nos.	07-18 17871	07-18 18173	07-18 16760	07-18 17947	08-18 20272	07-18 18032	07-18 18110	08-18 18870
CT R B 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.	CMGBD02-19- 5101-05-17	CMGBD05-18- 5100-66-100	CMGBD02-19- 5101-05-30	CMGBD05-18- 66-103	CMGBD02-19- 5101-05-27	CMGBD05-18- 5100-66-120	CMGBD02-19- 5101-05-14	CMGBD05-18- 5100-66-123
Compressed Ht. at Tested Load	516	472	516	466	514	472	514	472
Alignment deviation (mm)	10	6	11	6	14	11	14	12

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

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	13085,13084	13086,12987
2.	Primary outer Spring	CMGBD	10-18 1100 (121-476,119-465,122-435,119-570)	10-18 1100-(119-446,121-380,122-524,122-44)
3.	Primary Inner Spring	CMFSK	02-18 1101-402(615,384,616,747)	02-18 1101-402(433,484,778,766)
4.	Primary Damper	IAI	12-18 (47719,48927,47251,49883)	12-18(48944,47787,48957,47254)
5.	Secondary Damper	IAI	12-18 (235497,237376)	12-18 (235487,237366)
6.	Lateral Damper	IAI	12-18 237376	12-18 235263
7.	Brake Cylinder	KBI	A (9837,9222,9152,9735)K29	A (9746,9136,9161,9747)K29
8.	Brake Caliper	KBI	A (7984,8038,7888,7905)-29	A (7900,7879,7890,7903)-29
9.	Brake Disc	KBI	24164609 0036-43/18,24164608 0038-43/18 24164009 0035-43/18,24164609 0037-43/18	24167527 0025-43/18,24164690 0040-43/18 24167528 0001-43/18,2416757 0030-43/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	PPI		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	ASL/ EMSON		
21.	Control Arm Upper	RVE	121218-1,071218-1,051218-1,071218-1	081218-1,051218-3,051218-1,071218-1
22.	Control Arm Lower	RVE	171218-1,071218-2,071218-1,171218-1	171218-1,071218-2,071218-1,081218-1

Signature of SSE/Bogie/QC







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DISPATCH TO	CWM/LLH	Type	L	W	S	C	N	1	Shell No.	8	7	4	6	0	-	2	0	1	8	-	1	9

11. TRACEABILITY OF FURNISHING ITEMS:

**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	1944 02/19
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	2019A6528
5.	Decoupling arrangement	M/S- ELASTOMER MUMBAI	
6.	Floor board	M/s- EG WOOD BOARD HYDARABAD	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s- SEEMA INDS. BHOPAL	
9.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/S- ELASTOMER MUMBAI	
11.	Gangway bridge mounting (PPE)	M/s COMPETENT ENGG.	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENGG.	
13.	Body Side Window	M/S- AGF INDS, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- S.S IND PUNJAB	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/s SHNTHETIC MODULAR KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR LDH	
20.	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
21.	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
22.	Bio Tank	M/s- SARVAN INFRATEL LTD	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank( 2X685L)	M/s- AMIT ENG. MOHALI	
25.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
27.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
28.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
29.	Lavatory Doors	M/s- KALSI, LDH	
30.	Seat & Berth	M/S- CMT MECHANISED SYS.LTD VADODARA	
31.	Snack Table	N/A	

*(Signature)*  
SSE/QC/MCF/RBL  
वरिष्ठ निरीक्षक  
गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)





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DISPATCH TO	CWM/LLH	Type	L	W	S	C	N	1	Shell No.	8	7	4	6	0	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY) : Nil

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, 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	AME/QC/MCF/RBL	Dy. COM/MCF/RBL
गुणवत्ता विभाग	आधुनिक रेल डिब्बा कारखाना, रायबरेली	गुणवत्ता विभाग
रे 0डि0का 0, रायबरेली (लालगंज)	Modern Coach Factory, Raebareli	गुणवत्ता विभाग





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	191924/C
RAILWAY	ER	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 : <b>NEC</b> On Board Sr no : <b>2018/16/22</b> HT Panel Sr no : <b>2018/16/16</b>	EDTS 333, Rev` 01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b> Sr no PA: <b>2018/12/33</b> Sr no.1 : <b>18100544</b> Sr no.2 : <b>18100675</b> Sr no.CPA: <b>2018/12/003-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL), Make : <b>CONCORD</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Passenger Alarm Cum Indication Light (PACIL) Make: <b>KAVERI</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	<b>02</b>
05.	Fitment of Switch Plate Assly(Cabin Side) Make : <b>SSK</b>	EDML 086,Rev-03, ITEM-01	<b>20</b>
06.	Fitment of Switch Plate Assly Corridor Side),Make : <b>SSK</b>	EDML 086, Rev 03, ITEM-02	<b>20</b>
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>CG POWER</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
08.	Cabin, Corridor, doorway and Gangway Lights. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>26</b>
09.	Lavatory Light Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	<b>04</b>
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : <b>AGASTYA</b>	CC76289 & CC76443	<b>09</b>

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11.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>NEC</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>IC ELECTRICAL</b> Sr no: <b>12-18-0055</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>PAN-18018033</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>MAA LAXMI INDUSTRIES.</b>	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	<b>01 set</b>
16.	Feeder junction boxes. Make : <b>SIDWAL</b>	EDTS-328 REV-C	<b>01 set</b>
17.	Wheel set earthling equipment. Make : <b>DARSHAN INTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
18.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0118420506</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>SOUTHERN</b> Lug date : <b>12/17</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>TECHNO</b>	CC 91205	<b>01</b>

 <b>SSE/EL/QC</b> <b>वरिष्ठ अनुभाग अभियन्ता</b> <b>गुणवत्ता नियंत्रण</b> <b>आ०रे०डि०का० / लालगंज / रायबरेली</b> <b>S.S.E./Elect-QC/M.C.F./LLJ/RBL</b>	 <b>AWM(ELECT.)/MCF/RBL</b> <b>SEE(P)/MCF/RBL</b> <b>स० कार्य प्रबन्धक / विद्युत</b> <b>आ०रे०डि०का० / रायबरेली</b> <b>A.W.M./Electrical/MCF/RBL</b>
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