


LSR-453

	<b>Modern Coach Factory Raebareli</b> <b>आधुनिक रेल डिब्बा कारखाना, रायबरेली</b>		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/ 259

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

1. **Railway Board's Order No.** : 2017/M(C)/142/2 Dated- 26.05.2017
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/-15	1) 1097 (NPPE) 2) 1102 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

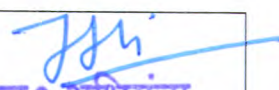
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/S Ved sessomeccanica india pvt.ltd.cnb
	Complete	M/S Ved sessomeccanica india pvt.ltd.cnb	PP END 48 NPP END 48
2.	Side wall	M/s MCF/RBL	RH 77100 LH 77100
3.	End wall	PP END	M/S E.c.blades & tool pvt. Ltd CDG
	NPP END	M/S E.c.blades & tool pvt. Ltd CDG	PP END 77100 NPP END 77100
4.	Roof	M/S Pennar ind. Ltd. Thiruvallur tamilnadu	
5.	Centre Buffer Coupler	M/S Sanrcok faridabad	PP END 3715 NPP END 3716
6.	Buffers	N.A.	

**6. AIRBRAKE TEST REPORT:**

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> <li>➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm².</li> <li>➤ Max. pressure in BC</li> <li>➤ All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm². OK	07 Sec. 3.0 kg/cm² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm²/min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm²/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-BERGER	M/s -BERGER	90/87
2.	Insulation			Satisfactory	

  
 वरिष्ठ अभियंता  
 SSE/QC/MCF/RBL  
 गुणवत्ता विभाग  
 रेलवे कारखाना, रायबरेली (लालगंज)





# 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/2017-18/259

COACH.NO	1	7	2	2	2	/	C	DATE OF DISPATCH							2	0	-	0	9	-	1	7			
RLY	N	W	R	-	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	1	0	0	-	2	0	1	7	-	1	8

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	170579				170580			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-400				RBL-610			
Bolster no.	SFPL-206				RBL/SCI-115			
Axle No	N-1040		N-6658		N-6731		N-6147	
Wheel Dia	917.629	917.577	917.559	917.373	917.543	917.387	917.515	917.436
Wheel Disc No	01648-7NK6 03-17	06799-70G3 03-17	09583-7NM8 04-17	L0031-70H6 04-16	10215-7NLO 04-17	10216-7NLO 04-17	L0803-70H6 04-17	R0802-70H9 04-17
R.B. Nos.	07-16 73216	05-16 62626	10-16 81678	05-16 98839	04-16 93537	07-16 73003	03-16 87784	09-16 79620
CTRB 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.	CMGBD01-17- 5101-02	CMFSK-04-17- F08-222-250	CMGBD01-17- 5101-02	CMFSK-04-17- F08-222-238	CMFSK-02-17- F09-240-75	CMFSK-04-17- F08-222-172	CMFSK-04-17- F09-240-75	CMFSK-04-17- F08-222-193
Compressed Ht. at Tested Load	515	471	516	472	515	472	513	470
Alignment deviation (mm)	05	07	06	07	06	10	05	09

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	05-17 (27,206,350,38)	CMFSK-05-17(311,199,180,11)
2.	Primary Inner Spring	CMGBD	03-17 (81,340,289,302)	03-17 (339,333,75,1117)
3.	Primary Damper	KNORR	05-17(7480,8686,7468,7511)	05-17(7851,7204,7867,7855)
4.	Secondary Damper	GEREP	KW-17-2017 301550739	KW17-2017 301550739
5.	Lateral Damper	KONI	42-2016 5617	42-2016 5728
6.	Brake Cylinder	FAV	E17-099, E17-90, E17-058, E17-102,	E17-089, E17-073, E17-072, D17-275,
7.	Brake Caliper	FAV	F17091B, F17089B, F17088B, F17090B,	F17055B, F17052B, F17053B, F17054B,
8.	Brake Disc	KBI	24099124-0009-13-17, 24099124-0008-13-17, 24099123-0036-13-17, 24099123-0037-13-17, 24099125-0021-13-17, 24099125-0020-13-17,	24099144-0015-14-17, 24099144-0016-14-17,
9.	Ball joint Control Arm	GMT		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	SARITA		
13.	Ball joint traction Lever	S-BLOC		
14.	Ball joint traction centre	S-BLOC		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA/EMSON		
18.	Roll Link make	SARITA/S-BLOC/SGA		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC





# 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/ 259

Coach No.	1	7	2	2	2	/	C	Date of dispatch	2	0	-	0	9	-	1	7
-----------	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	1	0	0	-	2	0	1	7	-	1	8
-----	---	---	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	G17036B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17055516B
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 Responsive ind.mumbai	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
10.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
11.	Gangway bridge mounting (PPE)	M/S-Mahaveer metal works KXH	
12.	Gangway bridge mounting (NPPE)	M/S-Mahaveer metal works KXH	
13.	Body Side Window	M/s AGF Pvt. Ltd, Kolkata	
14.	Emergency Window	M/s AB composites Pvt. Ltd, Kolkata	
15.	Hopper Window	M/s Rail tech KXH	
16.	Side panel	M/S-Milton ind.vadodara	
17.	Roof ceiling	M/s G.I.natural fibre Pvt. Ltd, Kolkata	
18.	Door way ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors	M/s Sukata CDG	
20.	Vestibule Door(PPE)	M/s Kalsi LDH	
21.	Vestibule Door(NPPE)	M/s Kalsi LDH	
22.	Bio Tank	M/s Oriental veneer products	
23.	Auxiliary Water Tank	M/s Amit eng.mohali	
24.	Under Slung Water Tank( 2X685L)	M/s Amit eng.Baddi	
25.	Under Slung Water Tank (1X685L)	M/s Amit eng.Baddi	
26.	Bib Cock/Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
27.	Lavatory Doors	M/s JR Industries Jalandhar	
28.	Seat & Berth	M/s Oriental veneer products mumbai	
29.	Snack Table	M/s Gandhi Enterprises Jalandhar	

*[Signature]*  
 वरिष्ठ 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: 00  
DATE: 16.05.2016

### ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 259

Coach No.		1	7	2	2	2	/	C	Date of dispatch				2	0	-	0	9	-	1	7				
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	1	0	0	-	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 Frequency	REFERENCE & PERIOD OF TRIAL

### 15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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.

 वरिष्ठ अनुसंधान अधिकारी SSE/QC/MCF/RBL गुणवत्ता विभाग रेल डिप्टी, रायबरेली (लालगंज)	 जी. एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality AME/QC/MCF/RBL Modern Coach Factory, Raebareli	 जोगिंदर सिंह Joginder Singh मुख्य गुणवत्ता अधिकारी Chief Quality Manager DY, QM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
--	---	---





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

PAGE 1 OF 3

### 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	17222/C
RAILWAY	NWR	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	

*(Signature)*  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 2 OF 3

**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : <b>ISG</b> On Board Sr no : <b>17-02-0154</b> HT Panel Sr no : <b>17-02-0145</b>	EDTS 333, Rev` 01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller & pump box Make : <b>LEC</b> Sr no PA: <b>1705/1122</b> Sr no.1 : <b>17040098</b> Sr no.2 : <b>17040084</b> Sr no.CPA: <b>1705/1086</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL), Make : <b>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Fitment of Passenger Alarm cum indication light (PACIL), Make : <b>DR AUTO</b>	As per drg no. LW 76005,Alt - e	<b>02</b>
05.	Fitment of Switch Plate Assly(Cabin Side) Make : <b>RECORD</b>	EDML 086,Rev-03, ITEM-01	<b>10</b>
06.	Fitment of Switch Plate Assly Corridor Side),Make : <b>RECORD</b>	EDML 086, Rev 03, ITEM-02	<b>10</b>
07.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>CONCARD</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
08.	Fitment of Fluorescent light fitting for LHB type coaches. Make : <b>DR AUTO</b>	LW 76033,Alt -c	<b>04</b>
09.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : <b>DEW</b>	CC 76213,Alt` d'.	<b>24</b>
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : <b>KAVERI</b>	CC76289 & CC76443	<b>10</b>

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

PAGE 3 OF 3

## FOR ELECTRICAL ITEMS

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

11.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : <b>KAVERI</b>	CC 76216, Alt 'c'.	<b>02</b>
12.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	<b>24</b>
13.	Battery fuse box +ve Make : <b>AECO</b>	LW 71001,Alt-F	<b>01</b>
14.	Battery fuse box -ve Make : <b>INDORAIL</b>	LW 71002,Alt-F	<b>01</b>
15.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>BCH 061611299</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
16.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>835</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev '0', Ty I.	<b>01</b>
17.	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>
18.	Feeder junction boxes. Make : <b>ELECO</b>	EDTS-328 REV-C	<b>01 set</b>
19.	Wheel set earthing equipment. Make : <b>CHANDA &amp; CHANDA</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
20.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>22/17/678</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : <b>A.RAJA</b> Lug date : <b>08/17</b>	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	<b>01 set</b>
22.	Battery box for LHB coaches. Make : <b>ANANYA</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आपरेटिंगका/लालगंज/रायबरेली  
S.S.E./Elect-QC/M.C.F./LJ/RBL

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

