

LSC4-31



# 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/2018-19/640

RLY	N	W	R	Coach No.	1	8	1	9	5	0	/	C	DATE OF DISPATCH	1	3	-	1	0	-	1	8				
DISPATCH TO		Sr.DME/C&W/IP			Type	L	W	S	C	N	1	Shell No.	8	7	1	4	7	-	2	0	1	8	-	1	9

1. **Railway Board's Order No.** : 2018/M(C)/142/2 Dated-14-09-2018
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) 1101 (NPPE) 2) 1105 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/S ROURKELA	09
		NPP END M/S ROURKELA	09
	Complete	MCF/RBL	87147
2.	Lav.side wall	M/S JSL COMP.	LAV.1 ---- LAV.2 ----
		M/S JSL COMP.	LAV.3 ---- LAV.4 ----
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	123
		RH SIDE MCF/RBL (CONTRACTOR V4U)	123
4.	End wall	PP END M/S Neera chandigarh	---
		NPP END M/S Neera chandigarh	--
5.	Roof	MCF/RBL	50
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7136 NPP END 7159

#### 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	08 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	90/89
2.	Insulation			Satisfactory	

Signature  
SSE/QC/MCF/RBL

20/04/2018, 11:15

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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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Coach No.	1	8	1	9	5	0	/	C	-	DATE OF DISPATCH					1	3	.	1	0	.	1	8			
RLY	N	W	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	4	7	-	-	-	-	-	-	-	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181529				181530			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1090				MCF/RBL-1088			
Bolster no.	VS-179				VS-187			
Axle No	18 E- 8785 RWF		18 E - 1912 RWF		17 E- 8268 RWF		17 D - 2633 RWF	
Wheel Dia	917.650	917.691	917.648	917.706	917.665	917.605	917.701	917.607
Wheel Disc No	TZ07-18 32527-8QP0	TZ06-18 29898-8QM1	TZ07-18 31558-8QN2	TZ07-18 32526-8RH3	TZ06-18 28614-8QM8	TZ07-18 34689-8RG2	TZ06-18 28613-8QM8	TZ07-18 33991-8RG3
R.B. Nos.	05-18 28256	04-18 26606	05-18 27668	05-18 37306	04-18 26095	05-18 36957	04-18 24583	05-18 27710
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.	CMGBD11-17- 5101-116-86	CMGBD03-18- 5100-41-608	CMGBD10-17- 5101-124-33	CMGBD05-18 5100-66-76	CMGBD11-17- 5101-116-46	CMGBD05-18- 5100-70-553	CMGBD11-17- 5101-136-211	CMGBD03-18 5100-41-527
Compressed Ht. at Tested Load	515	472	513	472	516	471	516	472
Alignment deviation (mm)	7	6	7	5	9	12	6	12

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	91,6	95,7
2.	Primary outer Spring	CMFSK	04-18 1100-402(229,152,167,84)	04-18 1100-402(384,215,228,315)
3.	Primary Inner Spring	CMGBD	05-18-1101 56(922,734,733,918)	05-18 1100-402 (706,7201,851,670)
4.	Primary Damper	KNORR	05-18 (20381,20393,20374,20382)	05-18 20380,06-18 23606, 05-18(20378,20373)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	03-18 2036	03-18 1989
7.	Brake Cylinder	KBI	A(6139,7554,7554,6064)K29	A(8063,7550,7555,8138)K29
8.	Brake Caliper	KBI	A(6446,6476,6465,6358)-29	A(6357,6462,6477,6444)-29
9.	Brake Disc	FAV	08-18(1491,1431,1560,1559) -D133561-300	08-18 (1392,1501,1390,1391) D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	140818-2,120818-1,120818-1,160818-1	140818-2,RVE,RVE,120818-1
22.	Control Arm Lower	RVE	160818-1,160818-1,140818-1,170818-1	RVE,160818-1,140818-1,130818-1

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME/C&W/IP	Type	L	W	S	C	N	1	Shell No.	8	7	1	4	7	-	2	0	1	8	-	1	9
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**11.TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	0692 14/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018D4774
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
6.	Floor board	M/S TWPL MUMBAI	
7.	PVC	M/s ACME INDIA NDLS	
8.	Lavatory Inlay	M/s OASIS INDS. JAGADHARI	
9.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
11.	Gangway bridge mounting (PPE)	M/s COMPETENT ENG.JALANDHAR	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENG.JALANDHAR	
13.	Body Side Window	M/s ACME INDIA NDLS	
14.	Emergency Window	M/s ACME INDIA NDLS	
15.	Hopper Window	M/s ACME INDIA NDLS	
16.	Side panel	M/s ACME INDIA NDLS	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way ceiling	M/s ACME INDIA NDLS	
19.	Partition frame	M/s ACME INDIA NDLS	
20.	Partition pillar	M/s ACME INDIA NDLS	
21.	Body Side Door	M/s JBM Faridabad	
22.	Vestibule Door(PPE)	M/s JBM Faridabad	
23.	Vestibule Door(NPPE)	M/s JBM Faridabad	
24.	Bio Tank	M/s M.K. METAL	
25.	Auxiliary Water Tank	M/s AMIT . mohali	
26.	Under Slung Water Tank( 2X685L)	M/s AMIT ENG BADDI	
27.	Under Slung Water Tank (1X685L)	M/s AMIT ENG . mohali	
28.	Flexible Faucet	M/s ACME INDIA NDLS	
29.	Lotah Filler Tap	M/s ACME INDIA NDLS	
30.	Controlled Discharge Tap	M/s HINDWARE ,(HSIL LTD) GURGAON	
31.	Lavatory Doors	M/s ACME INDIA NDLS	
32.	Seat & Berth	M/s ACME INDIA NDLS	
33.	Snack Table	N/A	

SSE/QC/MCF/RBL

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12. MODIFICATION (IF ANY) : Partition frame &amp; Partition pillar

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

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

**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 qualityrcfrbl@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 सहायक यंत्रिक अभियंता/गुणवत्ता आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	AME/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. COM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक 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	181950/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	

  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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PAGE 2 OF 3

**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : <b>SSK</b> On Board Sr no : <b>2017-02-054</b> HT Panel Sr no : <b>2017-08-221</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>2018/09/014</b> Sr no.1 : <b>18090008</b> Sr no.2 : <b>18090067</b> Sr no.CPA: <b>2018/09/108</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 CONTROL SYSTEM</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>10</b>
06.	Fitment of Switch Plate Assly Corridor Side),Make : <b>SSK</b>	EDML 086, Rev 03, ITEM-02	<b>10</b>
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>IMT CABLES</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>DR AUTO</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>INTRA ELECT.</b>	CC76289 & CC76443	<b>10</b>

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







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PAGE 3 OF 3

**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : <b>AECO</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>ISGPL</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>AUTOMETER LTD</b> Sr no: <b>BCH 061707154</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>1012</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>ISG</b>	EDTS-328 REV-C	<b>01 set</b>
17.	Wheel set earthing 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>0118145261</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>08/18</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>ANANYA</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आपरेटिंग/लातगंज/रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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

