

LSCN-734



# 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/2018-19/635

RLY	N	W	R	Coach No.	1	8	1	9	4	3	/	C	DATE OF DISPATCH	1	2	-	1	0	-	1	8			
DISPATCH TO		Sr.DME(C&W)JP		Type	L	W	S	C	N	1	Shell No.	8	7	1	6	4	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2 Dated-14-09-2018
- Tare Weight of Coach : 41.24 Tones
- 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) 1105 (NPPE) 2) 1098 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Rail tech pvt.ltd. KXH
		Complete	NPP END M/S Rail tech pvt.ltd. KXH
2.	Lav.side wall	M/S JSL COMP.HR	LAV.1
3.	Side wall	M/S JSL COMP.HR	LAV.2
		LH SIDE	LAV.3
		RH SIDE	LAV.4
4.	End wall	MCF/RBL (V4U CONTRACTOR)	121
		M/S Neera chandigarh	121
5.	Roof	M/S Neera chandigarh	---
6.	Centre Buffer Coupler	M/S TI metal forming thiruniravur	71
		M/S Sanrok faridabad	PP END 8382 NPP END 8436

#### 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	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

#### 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 -VIBGYOR	Supply & apply	90/88
2.	Insulation			Satisfactory	

*[Signature]*  
SSE/QC/MCF/RBL

रेल डिब्बा कारखाना, रायबरेली (जालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181540				181539			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-1985				SCI-1980			
Bolster no.	VS-171				VS-96			
Axle No	18 E- 0421 RWF		18 E - 8333 RWF		18 D- 8722 RWF		18 D - 8615 RWF	
Wheel Dia	917.543	917.543	917.502	917.526	917.535	917.563	917.515	917.561
Wheel Disc No	TZ07-18 32976-8QP3	TZ07-18 33927-8RG3	TZ07-18 35914-8QN8	TZ07-18 34786-8QP5	TZ07-18 34467-8QL6	TZ07-18 35916-8RG5	TZ07-18 35918-8QN5	TZ07-18 35866-8QM1
R.B. Nos.	04-18 24737	04-18 24493	04-18 24817	04-18 24569	04-18 24745	04-18 24517	02-18 17127	04-18 24572
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- 5101-116-32	CMGBD03-18- 5100-40-504	CMGBD11-17- 5101-116-22	CMGBD03-18- 5100-41-389	CMGBD10-17- 5101-124-42	CMGBD 03-18- 5100-41-394	CMGBD11-17- 5101-116-173	CMGBD03-18- 5100-41-584
Compressed Ht. at Tested Load	516	471	516	469	515	469	516	464
Alignment deviation (mm)	7	11	7	12	6	6	7	6

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1771,1789	1794,1784
2.	Primary outer Spring	CMFSK	04-18 1100-402(147,113,444,407)	04-18 1100-402(331,22,420,173)
3.	Primary Inner Spring	CMGBD	05-18-1101 56 (340,307,312,196),	05-18-1101 56 (359,364,83,213)
4.	Primary Damper	KNORR	05-18(20427,20435,20411,20425)	05-18(20439,20422,20431,20409)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	03-18 1991	03-18 1925
7.	Brake Cylinder	KBI	A(8146,7461,7533,8105)K29	A(8102,7534,7528,8114)K29
8.	Brake Caliper	KBI	A(6434,6391,6445,6411)-29	A(6410,6444,6443,6407)-29
9.	Brake Disc	FAV	08-18(1374,1373),09-18(2258,2257) -D133561-300	09-18 (2286,2284,2259,2260) D133561-300
10.	Ball Joint Control Arm	GMT		
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	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	PTC	198,188,45,80	155,98,181,64
22.	Control Arm Lower	PTC	31,33,64,72	83,28,PTC,46

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME(C&W)JP	Type	L	W	S	C	N	1	Shell No.	8	7	1	6	4	-	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	1557 34/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018H5942
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHINOOR JALANDHER	
6.	Floor board	M/S Shri ram pnl, govindgerh (PB)	
7.	PVC	M/s Responsive ind.mumbai	
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 MAHAVEER METAL KXH	
12.	Gangway bridge mounting (NPPE)	M/s MAHAVEER METAL KXH	
13.	Body Side Window	M/s EXCEL .KOLKATA	
14.	Emergency Window	M/s AGF .KOLKATA	
15.	Hopper Window	M/s BEI LTD PUNJAB	
16.	Side panel	M/S- SUNGLOW LAMINATE, PUNJAB	
17.	Roof ceiling	M/s -SYANTHETIC KOLKATA	
18.	Door way ceiling	M/s RAJA INDS. KHANNA	
19.	Body Side Door,1	M/s JVR IND. LDH	
20.	Body Side Door,2,3,4	M/s JBM IND Faridabad	
21.	Vestibule Door(PPE)	M/s JBM IND Faridabad	
22.	Vestibule Door(NPPE)	M/s JBM IND Faridabad	
23.	Bio Tank1,2,4	M/s FLASH FORGE VIZAG	
24.	Bio Tank3	M/s M.K. METAL	
25.	Auxiliary Water Tank	M/s AMIT ENG. . mohali	
26.	Under Slung Water Tank( 2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
27.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
28.	Flexible Faucet	M/S KAPCO VALVES,JALANDHAR	
29.	Lotah Filler Tap	M/S KAPCO VALVES,JALANDHAR	
30.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
31.	Lavatory Doors1,3	M/s J.R.IND. JALANDHAR	
32.	Lavatory Doors2,4	M/s KALSI LDH	
33.	Seat & Berth	M/s OVPL MUMBAI	
34.	Snack Table	N/A	

SSE/QC/MCF/RBL

रेडिओ, रायबरेली (जालंधर)



# Modern Coach Factory Raebareli

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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	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 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.

 <b>SSE/QC/MCF/RBL</b> वरिष्ठ अभियंता आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 <b>AME/QC/MCF/RBL</b> सहायक यांत्रिक अभियंता/गुणवत्ता-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 <b>Dy.COM/MCF/RBL</b> जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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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	181943/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  
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : <b>AMIT ENGG.</b> On Board Sr no : <b>AE/USBC-532</b> HT Panel Sr no : <b>AE/USBC-459</b>	EDTS 333, Rev` 01'Am-1	<b>01</b>
02.	Pump equipment with PLC controller & pump box Make : <b>KALSI</b> Sr no PA: <b>7298/7/18</b> Sr no.1 : <b>294496</b> Sr no.2 : <b>294497</b> Srno.CPA: <b>7285/07/18</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>LIGHT ENGG.</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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**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 061707173</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no :- <b>1011</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>MAA LAXMI INDUSTRIES</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>0118115061</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>08/2018</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> वरिष्ठ अनुभाग अभियन्ता	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

गुणवत्ता नियंत्रण  
आउटेरडिपका/लालगंज/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

