



# 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/2018-19/572

RLY	C	R	-	Coach No.	1	8	1	7	7	4	/	C	DATE OF DISPATCH	2	7	-	0	9	-	1	8
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DISPATCH TO	Sr.DME/Cog./BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	3	8	-	2	0	1	8	-	1	9
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- 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) 1100 (NPPE)	2) 1101 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER		SERIAL NO				
1.	Underframe	Front Part	PP END	M/S amit engg.	02			
			NPP END	M/S amit engg.	02			
	Complete	M/S amit engg.		02				
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)		96			
		RH SIDE	MCF/RBL (CONTRACTOR V4U)		96			
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 MCF/RBL		32				
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END	7236	NPP END	7134		

**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/cm<sup>2</sup>.</li> <li>➤ Max. pressure in BC</li> <li>➤ All Brake are applied</li> </ul>	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	<ul style="list-style-type: none"> <li>➤ Exhaust BP @ 0.3 kg/cm<sup>2</sup>/min.</li> </ul>	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> <li>➤ Exhaust BP @ 0.1 kg/cm<sup>2</sup>/Sec, after 06 Sec.</li> </ul>	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 -GS	Supply & apply	89/88
2.	Insulation			Satisfactory	

*Signature*  
SSE/QC/MCF/RBL

सुपरिन्टेन्डेंट  
रेल डिब्बा कारखाना, रायबरेली (उत्तर प्रदेश)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	3	8	-	-	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181396				181395			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-750				ECBT-751			
Bolster no.	Sfpl-150				AMIT-334			
Axle No	18 D- 8311 RWF		18 D - 8349 RWF		18 D- 8063RWF		18 D - 8191 RWF	
Wheel Dia	917.451	917.618	917.526	917.644	917.556	917.667	917.549	917.667
Wheel Disc No	TZ03-18 06983-8MP4	TZ03-18 06520-8MV9	TZ03-18 06987-8MN9	TZ03-18 07565-8MP7	TZ03-18 07806-8MS2	TZ07-18 06514-8MP1	TZ07-18 35467-8RH6	TZ03-18 06575-8MV4
R.B. Nos.	05-18 36392	05-18 36346	05-18 27683	05-18 27108	04-18 27651	05-18 27204	05-18 28375	04-18 24480
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.	CMGBD06-18- 5101-78-134	CMGBD03-18- 5100-40-467	CMGBD06-18- 5101-78-130	CMGBD03-18- 5100-41-438	CMGBD06-18- 5101-78-227	CMGBD03-18- 5100-40-586	CMGBD06-18- 5101-78-165	CMGBD03-18- 5100-40-531
Compressed Ht. at Tested Load	515	470	516	470	516	472	516	472
Alignment deviation (mm)	6	11	6	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	180,67	03,463
2.	Primary outer Spring	CMGBD	06-18 1100- (74-434,74-435,31-370,72-330)	06-18 1100 (69-369,72-436,72-336,72-412)
3.	Primary Inner Spring	CMGBD	03-18 1101-31(3098,3026,3065,3048)	03-18 1101(32-3015,31-3049,32-2531,31-3093)
4.	Primary Damper	KNORR	07-18(27355,27354,27336,27337)	07-18(27902,27341,27908,27903)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4257	06-18 4254
7.	Brake Cylinder	ESCORT	44205,44177,44176,44204	44196,44192,44193,44197
8.	Brake Caliper	ESCORT	24385,24357,24356,24384	24376,24372,24373,24377
9.	Brake Disc	FAV	08-18(1159,1219,1164,1165)D133561-300	08-18(1162,1163,1133,1132)D133561-300
10.	Ball Joint Control Arm	PRAG/AR		
11.	Lateral Bump Stop	AR		
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/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	020818-3,020818-3,020818-3,060818-3	030818-1,020818-3,020818-1,020818-3
22.	Control Arm Lower	RVE	RVE,150618-2,260618-2,180618-2	030818-2,030818-2,RVE,RVE

Signature of SSE/Bogie/QC



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**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	201808051
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A0051
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-KRP MUMBAI	
10.	UIC Vestibule (NPPE)	M/s-KRP MUMBAI	
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 JVR LDH	
22.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
23.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
24.	Bio Tank	M/s FLASH FORGE VIZAG	
25.	Auxiliary Water Tank	M/s MANOJ ENT . mohali	
26.	Under Slung Water Tank( 2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
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	

*Rama*  
SSE/QC/MCF/RBL

रेल डिब्बा कारखाना, रायबरेली (सहायक)





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DISPATCH TO	Sr.DME/Cog./BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	3	8	-	2	0	1	8	-	1	9
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12. MODIFICATION (IF ANY) : Partition frame & 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	 J. S. पाण्डेय AME/QC/MCF/RBL Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. CQM/MCF/RBL Jaginder Singh उप मुख्य गुणवत्ता प्रबंधक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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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	181774/C
RAILWAY	CR	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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01.	Switch board cabinet Make : <b>AMIT ENGG.</b> On Board Sr no : <b>AE/USBC-539</b> HT Panel Sr no : <b>AE/USBC-631</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>7236/06/18</b> Sr no.1 : <b>293256</b> Sr no.2 : <b>293257</b> Sr no.CPA: <b>7004/07/18</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL), Make : <b>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Passenger Alarm Cum Indication Light (PACIL) Make: <b>DR AUTO</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>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>DR AUTO</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>26</b>
09.	Lavatory Light Make: <b>RT VISIPON</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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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>NAREN ELECT.</b> Sr no: <b>1808394</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-17016620</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>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
18.	Wheel Slide Protection System (WSP) Make : <b>ESCORT</b> Sr no : NIL	M/s : <b>ESCORT</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>07/18</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>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

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

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

