



# 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/2018-19/593

RLY	C	R	-	Coach No.	1	8	1	7	6	8	/	C	DATE OF DISPATCH	2	8	-	0	9	-	1	8	
DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	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) 1104 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	09
		Complete	09
2.	Lav.side wall	M/S JSL COMP.	09
		M/S JSL COMP.	LAV.1 ---- LAV.2 ---- LAV.3 ---- LAV.4 ----
3.	Side wall	LH SIDE	107
		RH SIDE	107
4.	End wall	PP END	---
		NPP END	---
5.	Roof	M/S TI metal forming thiruniravur	67
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7173 NPP END 7198

#### 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	08Sec. 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	

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान अधिकारी  
गुणवत्ता विभाग  
रेडिंका, रायबरेली (ता.रायबरेली)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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DATE: 16.05.2016

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RLY	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	4	-	-	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181449				181450			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-794				MCF/RBL-800			
Bolster no.	MCF/RBL-1698				AMIT-198			
Axle No	18 F- 8990 RWF		18 F - 9155 RWF		18 F- 8801RWF		18 F -8168RWF	
Wheel Dia	917.514	917.638	917.493	917.641	917.533	917.679	917.541	917.679
Wheel Disc No	TZ07-18 34228-8RG5	TZ07-18 34229-8RG5	TZ07-18 31753-8RH5	TZ07-18 31754-8RH5	TZ07-18 35645-8QL6	TZ07-18 35646-8QM9	TZ07-18 33953-8RG3	TZ07-18 35639-8QM9
R.B. Nos.	05-18 28917	04-18 23538	04-18 25630	04-18 24238	07-18 27215	05-18 29525	05-18 29464	07-18 27913
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.	CMGBD10-17- 5101-124-219	CMGBD03-18- 5100-41-624	CMGBD10-17- 5101-124-227	CMGBD03-18- 5100-41-356	CMGBD09-17- 5101-98-21	CMGBD03-18- 5100-41-512	CMGBD09-17- 5101-98-45	CMGBD03-18- 5100-40-340
Compressed Ht. at Tested Load	516	471	515	462	515	471	515	470
Alignment deviation (mm)	7	6	6	6	9	12	8	12

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1293,1283	1285,1292
2.	Primary outer Spring	CMGBD	06-18 1100 (67-1,69-368,72-184,72-198)	06-18 1100-74(344,346,407), 06-18 1100-72 64
3.	Primary Inner Spring	CMGBD	05-18-1101-56(268,53)04-18 1101-36 704, 05-18 1101-56 269)	05-18-1101-56(267,208,29,245)
4.	Primary Damper	KNORR	07-18(27260,27204,27213,27222)	07-18(27223,27208,27209,27247)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4209	06-18 3956
7.	Brake Cylinder	ESCORT	44722,45241,45240,44725	44607,44295,44293,44606
8.	Brake Caliper	ESCORT	24718,25180,25179,24783	24668,24440,24438,24667
9.	Brake Disc	FAV	07-18(25,78),08-18 (144,168) -D133561-300	07-18(53,34,54,52)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
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	WINLANE		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA /PRAG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	RVE,160818-2,120818-3,160818-2	200818-1,140818-2,140818-2,200818-1
22.	Control Arm Lower	RVE	RVE,410818-1,RVE,RVE	RVE

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	4	-	2	0	1	8	-	1	9
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**11. TRACEABILITY OF FURNISHING ITEMS:**

SNO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	2018080050
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8050
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHINOOR IND 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 RAKESH IRON STORE, KXH	
12.	Gangway bridge mounting (NPPE)	M/s RAKESH IRON STORE, KXH	
13.	Body Side Window	M/s EXCEL .KOLKATA	
14.	Emergency Window	M/s AGF .KOLKATA	
15.	Hopper Window	M/s Aikon ind.salon H.P	
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,	M/s JVR LDH	
20.	Vestibule Door(PPE)	M/s KALSI LDH	
21.	Vestibule Door(NPPE)	M/s KALSI LDH	
22.	Bio Tank	M/s FLASH FORGE VIZAG	
23.	Auxiliary Water Tank	M/s MANOJ . mohali	
24.	Under Slung Water Tank( 2X685L)	M/s AMIT ENG. . BADDI	
25.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. . mohali	
26.	Flexible Faucet	M/s KAPCO VALVES,JALANDHAR	
27.	Lotah Filler Tap	M/s KAPCO VALVES,JALANDHAR	
28.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
29.	Lavatory Doors	M/s JR IND JALANDHER	
30.	Seat & Berth	M/s OVPL MUMBAI	
31.	Snack Table	N/A	

  
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रेडिंकॉ, रायबरेली (बि.स.)



MCF/RBL



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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.

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परिष्कारित/सुधारा  
सुधारा/सुधारा  
सुधारा/सुधारा

आधुनिक रेल डिब्बा कारखाना/गुणवत्ता-1  
आधुनिक रेल डिब्बा कारखाना/गुणवत्ता-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
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आधुनिक रेल डिब्बा कारखाना/गुणवत्ता-1  
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आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli  
Dy. Chief Quality Manager  
Modern Coach Factory, Raebareli





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	181768/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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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-725</b> HT Panel Sr no : <b>AE/USBC-625</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>2018/09/043</b> Sr no.1 : <b>18060317</b> Sr no.2 : <b>18060284</b> Sr no.CPA: <b>2018/09/029</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>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>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 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**  
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**FOR ELECTRICAL ITEMS**

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>1808376</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>-992</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>S.INTERNATIONAL</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 : <b>180055-59399-0054</b>	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>
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वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आधुनिक रेल डिब्बा कारखाना / लालगंज / रायबरेली  
S.S.E/Elect-QC/M.C.F./LLJ/RBL

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

