



# 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/2018-19/586

RLY	C	R	-	Coach No.	1	8	1	7	6	6	/	C	DATE OF DISPATCH	2	9	-	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	3	-	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) 1105 (NPPE)	2) 1100 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1.	Underframe	Front Part	PP END	M/S RADHE ENG. MAS		08	
			NPP END	M/S RADHE ENG. MAS		08	
	Complete	M/S RADHE ENG. MAS		08			
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)		100		
		RH SIDE	MCF/RBL (CONTRACTOR V4U)		100		
4.	End wall	PP END	M/s AMIT ENG.		---		
		NPP END	M/s AMIT ENG.		---		
5.	Roof	M/S TI metal forming thiruninravur		65			
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END	7183	NPP END	7115	

**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	90/81
2.	Insulation			Satisfactory	

*Hema*  
SSE/QC/MCF/RBL

रॉलिंग स्टॉक सिर्टिफिकेट  
रेल डिब्बा कारखाना, रायबरेली (बिहार)





MODERN COACH FACTORY, RAEBARELI

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**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181452				181451			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1057				MCF/RBL-1063			
Bolster no.	VS-181				VS-101			
Axle No	18 G- 3671 RWF		18 F - 9254RWF		18 F- 8296 RWF		18 F - 9225RWF	
Wheel Dia	917.5	917.5	917.494	917.632	917.493	917.642	917.504	917.652
Wheel Disc No	TZ06-18 30001-8QL7	TZ06-18 29998-8QL7	TZ07-18 34222-8QL3	TZ07-18 31992-8QP2	TZ07-18 31991-8QP2	TZ07-18 32063-8QP2	TZ07-18 32062-8QP2	TZ07-18 32061-8QP2
R.B. Nos.	05-18 11522	04-18 25453	05-18 28949	04-18 25446	05-18 11512	04-18 25445	04-18 26235	05-18 27197
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.	CMFSK01-18- 5101-343-190	CMGBD03-18- 5100-41-556	CMFSK01-18- 5101-343-23	CMGBD03-18- 5100-41-353	CMFSK01-18-5101- 343-119	CMGBD03-18- 5100-41-449	CMFSK01-18-5101- 41-335-105	CMGBD03-18- 5100-41-335
Compressed Ht. at Tested Load	516	471	516	470	415.5	472	514.5	469
Alignment deviation (mm)	11	11	12	11	9	5	7	5

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1172,1222	1156,1154
2.	Primary outer Spring	CMGBD	06-18 1100(67-200,69-201,71-190,67-196)	06-18 1100(72-205,72-405,74-347,72-213)
3.	Primary Inner Spring	CMGBD	05-18 1101(56-39,56-1135,56-65,57-1108)	05-18 1101(57-42,56-124,57-58,57-59)
4.	Primary Damper	KNORR	07-18(27238,27251,27249,27239)	07-18(27253,27246,27259,27248)
5.	Secondary Damper	GEREP	17-2017 301550739	17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4265	06-18 3933
7.	Brake Cylinder	ESCORT	44611,44294,44461,44700	44698,44660,44292,44610
8.	Brake Caliper	ESCORT	24672,24439,24642,24759	24757,24641,24437,24671
9.	Brake Disc	FAV	07-18(81,83,83,39)D133561-300	07-18(69,79,38,74)D133561-300
10.	Ball Joint Control Arm	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	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	170818-1, 170818-2, 170818-1, 190818-3	160818-2,170818-2,130818-3,200818-1
22.	Control Arm Lower	RVE	RAV,140818-1,160818-1,140818-1	070818-1,170818-1,RVE,170818-1

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	2018080041
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8041
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
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 Hanspal coach products KXH	
21.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
22.	Bio Tank1,2,3	M/s M.K. MEATAL	
23.	Bio Tank4	M/s AMIT ENG. . mohali	
24.	Auxiliary Water Tank	M/s MANOJ . mohali	
25.	Under Slung Water Tank( 2X685L)	M/s AMIT ENG. . BADDI	
26.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. . mohali	
27.	Flexible Faucet	M/s KAPCO VALVES,JALANDHAR	
28.	Lotah Filler Tap	M/s KAPCO VALVES,JALANDHAR	
29.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
30.	Lavatory Doors1,2	M/s KALSI LDH	
31.	Lavatory Doors2,4	M/s J.R. JALANDHAR	
32.	Seat & Berth	M/s OVPL MUMBAI	
33.	Snack Table	N/A	

*Rama*  
SSE/QC/MCF/RBL





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DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	3	3	-	2	0	1	8	-	1	9

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 &
			Frequency	PERIOD OF TRIAL

**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.

 SSE/QC/MCF/RBL रेडिडिंका०, रायबरेली (जालगंज)	 AME/QC/MCF/RBL सहायक यंत्रण प्रमुख-1 Assistant Mechanical Engineer / Quality 1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy.CQM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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SCN-720

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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	181766/C
RAILWAY	CR	DATE OF DESPATCH	
<b>Sr no</b>	<b>Description of test</b>		<b>Remarks</b>
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-559</b> HT Panel Sr no : <b>AE/USBC-650</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>2018/09/04</b> Sr no.1 : <b>18020006</b> Sr no.2 : <b>18060037</b> Sr no.CPA: <b>2018/09/033</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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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>M.B COMP.</b> Sr no: <b>2017/12/608</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>-975</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</b> <b>set</b>
16.	Feeder junction boxes. Make : <b>ISG</b>	EDTS-328 REV-C	<b>01</b> <b>set</b>
17.	Wheel set earthing equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02</b> <b>sets</b>
18.	Wheel Slide Protection System (WSP) Make : <b>ESCORT</b> Sr no : <b>180055-59399-0082</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  
अफिसर/विभाग/लातमंज/रायबरेली  
SSE/EL/QC/M.C.F./LLJ/RBL

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

