



**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/2018-19/573

RLY	C	R	-	Coach No.	1	8	1	7	6	2	/	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	7	-	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)1098 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1.	Underframe	Front Part	PP END	M/S DTL ancillaries ltd pune		26	
			NPP END	M/S DTL ancillaries ltd pune		26	
	Complete	M/S DTL ancillaries ltd pune		26			
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)		98		
		RH SIDE	MCF/RBL (CONTRACTOR V4U)		98		
4.	End wall	PP END	M/s AMIT ENG.		---		
		NPP END	M/s AMIT ENG.		---		
5.	Roof	MCF/RBL		30			
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END	7137	NPP END	7160	

**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	90/88
2.	Insulation			Satisfactory	

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

भुवनेश्वरी विभाग  
रेलवे कारखाना, रायबरेली (लालबंज)





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	7	-	-	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181432				181431			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-1225				VS/RBL-1219			
Bolster no.	AMIT-402				AMIT-110			
Axle No	18 F- 9299 RWF		18 F - 8901 RWF		18 F- 8792 RWF		18 F - 8830 RWF	
Wheel Dia	917.492	917.605	917.509	917.636	917.497	917.608	917.54	917.645
Wheel Disc No	TZ06-18 30116-8RG1	TZ06-18 28744-8QM1	TZ07-18 33979-8RH1	TZ06-18 30112-8QL7	TZ06-18 30111-8QL7	TZ06-18 30124-8QM4	TZ06-18 30979-8QN7	TZ06-18 30981-8QN2
R.B. Nos.	05-18 27501	05-18 36461	05-18 27514	05-18 36632	05-18 27309	04-18 26713	04-18 25245	05-18 36635
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- 5101-78-185	CMGBD03-18- 5100-40-456	CMGBD06-18- 5101-78-185	CMGBD03-18- 5100-41-607	CMGBD06-18- 5101-78-219	CMGBD03-18- 5101-41-538	CMGBD06-18- 5101-78-169	CMGBD03-18- 5101-40-574
Compressed Ht. at Tested Load	512	471	512	470	519	468	515	471
Alignment deviation (mm)	6	12	6	12	9	5	7	6

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	16,23	22,12
2.	Primary outer Spring	CMFSK	04-18 1036-402 (136,97,393,442)	04-18 1100-402(421,81,77,18)
3.	Primary Inner Spring	CMFSK	04-18 1101-402(296,426,174,408)	04-18 1101 402(109,622,474,400)
4.	Primary Damper	KNORR	07-18(27201,27224,27218,27236)	07-18(27220,27207,27194,27199)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 3762	06-18 3757
7.	Brake Cylinder	ESCORT	44614,44379,44381,44617	44609,44296,44298,44608
8.	Brake Caliper	ESCORT	24675,24560,24562,24678	24670,24441,24443,24669
9.	Brake Disc	FAV	05-18 1270,08-18(1329,7799,1198)D133561-300	08-18(1330,1332,1200,1201)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/PARG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	200818-1,RVE,200818-3,170818-2	200818-3,190818-1,190818-1,200818-1
22.	Control Arm Lower	RVE	020818-1,140818-1,140818-1,170818-1	170818-1,140818-2,040818-1,170818-1

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	2018070036
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1807A8036
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-KIRAN RUBBER PUNE	
10.	UIC Vestibule (NPPE)	M/s-KIRAN RUBBER PUNE	
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 AGF .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 3	M/s SUKATA CDG	
20.	Body Side Door 1,2,4	M/s JVR LDH	
21.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
22.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
23.	Bio Tank	M/s FLASH FORGE VIZAG	
24.	Auxiliary Water Tank	M/s MANOJ . mohali	
25.	Under Slung Water Tank( 2X685L)	M/s AMIT ENG. . mohali	
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 Doors	M/s KALSI LDH	
31.	Seat & Berth	M/s NARMADA FOREST BHOPAL	
32.	Snack Table	N/A	

*Rama*  
SSE/QC/MCF/RBL

20180907, रायबरेली (रायबरेली)





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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.

 वरिष्ठ अभियंता गुणवत्ता विभाग रणडिक्का, रायबरेली (बालाजी)	 जी.एस. पाण्डेय G.S. Pandey Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy.COM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक 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	181762/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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**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-535</b> HT Panel Sr no : <b>AE/USBC-671</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>7268/07/18</b> Sr no.1 : <b>293290</b> Sr no.2 : <b>293291</b> Sr no.CPA: <b>7309/07/18</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 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>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. Sr no:1808423</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-17017327</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 Sr no : NIL</b>	M/s : <b>ESCORT</b>	<b>01 set</b>
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI 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  
आधुनिक डिब्बा कारखाना / 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

