

LSCN-87



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/2018-19/969

RLY	N	C	R	Coach No.	1	8	2	9	8	0	/	C	DATE OF DISPATCH	2	9	-	1	2	-	1	8
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DISPATCH TO	Sr.CDO/ALD	Type	L	W	S	C	N	1	Shell No.	8	7	3	4	7	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 Dated-17-10-2018
2. Tare Weight of Coach : 41.24 Tones
3. 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	PP END M/S-M. TECH	155
		NPP END M/S-M. TECH	179
	Complete	MCF/RBL	87347
2.	Lav.side wall	M/S- RAIL FAB. KXH	LAV.1 - LAV.2 -
		M/S- RAIL FAB. KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	267/01
		RH SIDE MCF/RBL (CONTRACTOR V4U)	267/02
4.	End wall	PP END M/s- SFPL, MOHALI	--
		NPP END M/s- SFPL, MOHALI	--
5.	Roof	MCF/RBL	106
6.	Centre Buffer Coupler	M/S- DELLNER INDIA PVT.LTD.	PP END 2992 NPP END 3017

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 ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	06 Sec. 3.0 kg/cm ² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK

7. PAINTING DETAILS:

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

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



MCF/RBL



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	N	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	3	4	7	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182278				182277			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1625				MCF/RBL-1621			
Bolster no.	VS-311				AMIT-158			
Axle No	18G-9223 RWF		18G-9120 RWF		18H-3182 RWF		18G-9116 RWF	
Wheel Dia	917.574	917.704	917.565	917.648	917.573	917.673	917.563	917.672
Wheel Disc No	TZ07-18 42947-8RM3	TZ07-17 24867-7RJ3	TZ08-17 31320-7 TH 1	TZ07-17 24862-7RJ3	TZ07-17 27957-7QK3	TZ08-18 45309-8RP7	TZ04-18 15265-8NG8	TZ07-18 41611-8RR4
R.B. Nos.	05-18 28672	05-18 24921	04-18 24555	05-18 36738	05-18 27774	07-18 41284	07-18 41992	06-18 16987
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.	CMRSK02-17-F09-290-25	CMRSK04-18-F08-N73-08Y-716	CMRSK02-17-F09-240-27	CMRSK12-16-F08-N13-08Y-1226	CMFSK03-18-5101-388-23	CMRSK14-18-F08-N14-08Y-1777	CMFSK08-18-F08-5101-42-10	CMRSK05-18-F08-N73-08Y-1776
Compressed Ht. at Tested Load	513.5	470	514	472	513	468	513	466
Alignment deviation (mm)	10	12	8	12	7	10	7	10

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1891,1747	1746,1349
2.	Primary outer Spring	CMGBD	10-18 1100-122(128,761,740,161)	10-18 1100(122-16,121-747,122-12,122-3)
3.	Primary Inner Spring	CMGBD	07-18 1101-81(587,475,511),80-484	07-18 1101-80(508,505,509,485)
4.	Primary Damper	KNORR	12-17(14270,13321,13423,13322)	12-17(13319,13326,13346,14249)
5.	Secondary Damper	GEREP	KW 16-2018 301550739	KW 16-2018 301550739
6.	Lateral Damper	SV	01-18 019949	01-18 019949
7.	Brake Cylinder	FAV	H18-288,K18-055,L18(224,237)	K18-052,H18-290,L18(202,224)
8.	Brake Caliper	FAV	H18(1043,1041)B,L18(1374,1375)B	H18(1042,1044)B,L18(1322,1324)
9.	Brake Disc	FAV	10-18(4429,4434),11-18(5550,5554)D133561-300	11-18(5524,5518,5521,5520)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA/JI		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	AR/PPI/UK		
18.	Anti roll bar Make	WOM/SARITA		
19.	Roll Link make	SARITA/PPI/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	290918-2,041110-4,170918-4,290918-2	290918-1,140918-4,290918-2,311118-1
22.	Control Arm Lower	RVE	101118-1,311018-1,291018-3,291018-3	180918-1,RVE,280918-1,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- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	L 18107 B
2.	Pull box	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
3.	Distribution valve	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18105643 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR INDUSTRIES, JALANDHAR	
6.	Floor board	M/S TWPL, MUMBAI	
7.	PVC	M/s ACME INDIA, NDLS	
8.	Lavatory Inlay	M/S- SEEMA IND. BHOPAL	
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 MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
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 1,3	M/s- JBM FARIDABAD	
22.	Body Side Door 2,4	M/S- JVR INDUSTRIES ,LDH	
23.	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
24.	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
25.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES, GRUGRAM	
26.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
27.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. MOHALI	
28.	Under Slung Water Tank (1X685L)	M/S- KUTEER EQUIPMENT, PANCHKULA	
29.	Flexible Faucet	M/s- ACME INDIA NDLS	
30.	Lotah Filler Tap	M/s- ACME INDIA NDLS	
31.	Controlled Discharge Tap	M/s- HINDWARE ,(HSIL LTD) GURGAON	
32.	Lavatory Doors	M/s- ACME INDIA NDLS	
33.	Seat & Berth	M/s- ACME INDIA NDLS	
34.	Snack Table	N/A	

Signature
वसिष्ठ लाल गुणवत्ता विभाग
SSE/QC/MCF/RBL
रेडि०का०, रायबरेली (लालगंज)



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DISPATCH TO		Sr.CDO/ALD		Type	L	W	S	C	N	1	Shell No.		8	7	3	4	7	-	2	0	1	8	-	1	9

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 Frequency	REFERENCE & 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 qualitycfrrbl@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 SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिओका, रायबरेली (लालगंज)	सहायक यांत्रिक अभियंता/गुणवत्ता-II Assistant Mechanical Engineer/Quality-II आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 जोगिन्दर सिंह Joginder Singh उप मुख्य गुणवत्ता प्रशिक्षक Dy. Chief Quality Trainer आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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MCF/RBL



Modern Coach Factory Raebareli
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
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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	182980/C
RAILWAY	NCR	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 : AMIT ENGG. On Board Sr no : AE/USBC-804 HT Panel Sr no : AE/USBC-794	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/75 Sr no.1 : 18110467 Sr no.2 : 18110449 Sr no.CPA: 2018/12/008-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : IMT CABLES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : AGASTYA	CC76289 & CC76443	10

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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 11180864	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-1551	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0`,Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e` Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 35-18-1466	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 04/17	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आ0रे0डि0का0 / 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