


LSCNM-14

	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/2018-19/1061

Rolling Stock Certificate No. 100712000																					
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1. **Railway Board's Order No.** : 2018/M(C)/142/2 Dated-28-11-2018
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) 1095 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS:					SERIAL NO			
S NO	ITEM		MAKE/SUPPLIER					
1.	Underframe	Front Part	PP END	M/s- RAIL TECH, KXH	24			
			NPP END	M/s- RAIL TECH, KXH	24			
		Complete	M/s- RAIL TECH, KXH			24		
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	M/s- MCF/RBL(CONTRACTOR V4U)		235/01			
		RH SIDE	M/s- MCF/RBL(CONTRACTOR V4U)		235/02			
4.	End wall	PP END	M/S-NECHD, CHANDIGARH		---			
		NPP END	M/S-NECHD, CHANDIGARH		---			
5.	Roof		M/S- PIL, THIRUVALLUR		196			
6.	Centre Buffer Coupler		M/S- FRONTIER LTD		PP END	110P1	NPP END	119P2

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	08 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 -BERGER	Supply & apply	89/88
2.	Insulation			Satisfactory	

Kerna
 SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 रेल डिब्बा कारखाना, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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Coach No.	1	9	1	1	8	7	/	C	-	DATE OF DISPATCH	2	1	.	0	1	.	1	9						
RLY	E	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	3	2	2	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182387				182388			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1355				ECBT-1354			
Bolster no.	MCF/RBL-2359				VS-323			
Axle No	18 G - 2911 RWF		18 G - 3909 RWF		18 F - 8497 RWF		18 F - 8113 RWF	
Wheel Dia	917.397	917.477	917.379	917.457	917.486	917.57	917.47	917.56
Wheel Disc No	TZ07-18 40615-8RL4	TZ07-18 34492-8RH1	TZ08-18 45202-8RP8	TZ04-18 15811-8MX1	TZ08-18 45787-8RL9	TZ08-18 45802-8RS8	TZ07-18 40205-8RN2	TZ08-18 45791-8RQ3
R.B. Nos.	05-18 26896	07-18 41049	07-18 26888	07-18 41567	05-18 40509	05-18 39789	05-18 29156	05-18 38712
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.	CMGBD08-17-5101-74-77	CMRSK03-18-F08-N73-08Y-1860	CMGBD09-17-5101-87-73	CMRSK03-18-N73-08Y-410	CMGBD08-17-5101-79-20	CMRSK03-18-F08-1473-08Y-1581	CMGBD09-17-5101-87-142	CMRSK03-18-F08-N73-08Y-1676
Compressed Ht. at Tested Load	514	469	516	468	516	473	514	467
Alignment deviation (mm)	16	6	6	6	6	7	6	6

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	14788,13802	13804,12127
2.	Primary outer Spring	CMGBD	10-18 1100(122-35,122-68,122-15,121-220)	10-18 1100 (121-293,121-153,122-311,121-266)
3.	Primary Inner Spring	CMGBD	03-18 1101 (36-2500,32-2487,32-2517,32-2552)	03-18 1101 (31-2892,32-2978,31-2881,28-3006)
4.	Primary Damper	KNORR	05-18(19923,19936,19935,19875)	08-18(19932,19934,19920,19939)
5.	Secondary Damper	GABRIEL	06-17 (1113,1118)	06-17(1114,1115)
6.	Lateral Damper	GB	10-18 00033	10-18 00032
7.	Brake Cylinder	FAV	L18(511,405,542,174)	L18(631,562,404,463)
8.	Brake Caliper	FAV	M18(512,510,445,448)B	M18(635,633,509,511)B
9.	Brake Disc	FAV	11-18 6401,10-18(3460,3455,3454)-D133561-300	12-18 (6115,6113,6049,6050) -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	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/PPI/UK, SARITA/ARE		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	231118-3,201118-4,201118-4,231118-1	231118-3,21118-5,211118-5,311118-1
22.	Control Arm Lower	RVE	RVE,191118-3,191118-4,221118-1	271118-2,191118-4,191118-3,221118-2

Signature of SSE/Bogie/QC



Modern Coach Factory Raebareli

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RLY	E	C	R	Coach No.	1	9	1	1	8	7	/	C	DATE OF DISPATCH	2	1	-	0	1	-	1	9
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DISPATCH TO	Sr.DME/C&W/ DNR	Type	L	W	S	C	N	1	Shell No.	8	7	3	2	2	-	2	0	1	8	-	1	9
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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 18077 B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18105588 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/S- E.G. WOOD BOARD, HYDRABAD	
7.	PVC	M/S- RESPONSIVE IND. DELHI	
8.	Lavatory Inlay	N/A	
9.	UIC Vestibule (PPE)	M/s- SUNCREST IND. KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
11.	Gangway bridge mounting (PPE)	M/S- HARE KRISHNA COMPONENT, KXH	
12.	Gangway bridge mounting (NPPE)	M/S- HARE KRISHNA COMPONENT, KXH	
13.	Body Side Window	M/S- MECEDOWN IND. KOLKATA	
14.	Emergency Window	M/S- AGF, KOLKATA	
15.	Hopper Window	M/s- BEI PVT LTD PUNJAB	
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.	Body Side Door	M/s-JVR, LDH	
20.	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
21.	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
22.	Bio Tank	M/s- RASANDIK ENG. INDS, GURUGRAM	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. BADDI	
25.	Under Slung Water Tank (1X685L)	M/s- KUTEER EQUIPMENT, PUNCHKULA	
26.	Flexible Faucet	M/s- ACME INDIA, NDLS	
27.	Lotah Filler Tap	M/s- ACME INDIA, NDLS	
28.	Controlled Discharge Tap	M/s- HINDWARE, (HSIL LTD) GURGAON	
29.	Lavatory Doors	M/s- ACME INDIA, NDLS	
30.	Seat & Berth	M/s- T.W.P.L. INDUS. MUMBAI	
31.	Snack Table	N/A	

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंकॉ, रायबरेली (लालगंज)

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002
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DISPATCH TO	Sr.DME/C&W/ DNR	Type	L	W	S	C	N	1	Shell No.	8	7	3	2	2	-	2	0	1	8	-	1	9
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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:

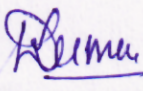
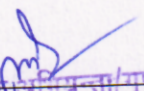
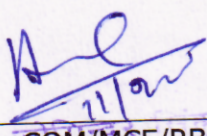
S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the 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 qualitycfrbl@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.

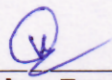
 SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिओका 0, रायबरेली (लालगंज)	 AME/QC/MCF/RBL सहायक मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. COM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
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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	191187/C
RAILWAY	ECR	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



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 : AMIT ENGG. On Board Sr no : AE/USBC-829 HT Panel Sr no : AE/USBC-802	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/117 Sr no.1 : 18120091 Sr no.2 : 18120067 Sr no.CPA: 2018/12/112-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: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : RECORD/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: RT VISION	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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : IC ELECTRICAL Sr no: 10-18-0042	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-17017316	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : SIDWAL	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 : 28-18-1168	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 02/18	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

SSE/EL/QC	AWM(P)/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आ0रे0डि0का0 / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

SEE(P)/MCF/RBL
स. कार्य प्रबन्धक/ विधुत
आधुनिक डिब्बा कारखाना/ रायबरेली
A.W.M./Electrical/MCF/RBL