


LSCN-867

	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/2018-19/1092

RLY	N	R	-	Coach No.	1	9	1	2	2	5	/	C	DATE OF DISPATCH	2	5	-	0	1	-	1	9	
DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	3	9	0	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2, Dated-28-11-2018
- 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) 1101 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

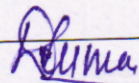
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s- NECHD	11/18
	Front Part	NPP END M/s- NECHD	11/18
	Complete	MCF/RBL	87390
2.	Lav. side wall	M/S- RAIL TECH, KXH	LAV.1 - LAV.2 -
		M/S- RAIL TECH, KXH	LAV.3 - LAV.4 -
3.	Side wall	M/S- ECBT PVT.LTD.CHANDIGARH	60
	LH SIDE	M/S- ECBT PVT.LTD.CHANDIGARH	60
	RH SIDE	M/S- ECBT PVT.LTD.CHANDIGARH	---
4.	End wall	PP END M/S- SFPL, MOHALI	---
		NPP END M/S- SFPL, MOHALI	---
5.	Roof	M/S-ECBT PVT.LTD. CHANDIGARH	36
6.	Centre Buffer Coupler	M/S- SANROK, ENG	PP END 10675 NPP END 10704

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ Max. pressure in BC ➤ All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	07 Sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/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	90/88
2.	Insulation			Satisfactory	


 SSE/QC/MCF/RBL

गुणवत्ता विभाग
 रीडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	N	R	-	-	Type	L	W	S	C	N	1	Shell No.	8	7	3	9	0	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182566				182565			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1529				MCF/RBL-1533			
Bolster no.	Vs-351				Vs-340			
Axle No	18 F - 2525 RWF		18 F - 8957 RWF		18 F - 8128 RWF		18 F - 2465 RWF	
Wheel Dia	917.382	917.488	917.567	917.533	917.408	917.456	917.405	917.578
Wheel Disc No	TZ07-18 38201-8RL8	TZ05-18 33142-8PN6	TZ03-18 08369-8MR6	TZ03-18 08368-8MR6	TZ05-17 22141-8PN6	TZ07-17 08498-8MG5	TZ08-18 44595-8RP8	TZ08-18 45114-8PN2
R.B. Nos.	05- 1828289	04-18 24959	05-18 39242	05-18 11543	05-18 37235	05-18- 36921	05-18 13041	05-18 24831
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.	CMFSK12-18-5101-512-132	CMGBD05-18-5100-54-462	CMFSK12-18-5101-159	CMGBD05-18-5100-66-443	CMFSK12-18-5101-138	CMGBD05-18-5100-54-63	CMFSK12-18-5101-512-155	CMGBD05-18-5100-54-138
Compressed Ht. at Tested Load	516	468	516	472	516	472	516	471
Alignment deviation (mm)	9	12	9	12	11	11	11	11

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	14040,14035	14036,13152
2.	Primary outer Spring	CMGBD	10-18 1100(122-211,121-137,121-198,121-192)	10-18 1100(122-87,121-338,121-125,121-84)
3.	Primary Inner Spring	CMGBD	08-18 (1037-30-2828,1103-22-2356,1101-52-2365,1032-20-269)	03-18 (1037-30-2702,1037-30-2701,1101-31-2802,1101-32-2687)
4.	Primary Damper	KNORR	12-18(49148,49117,49125,49168)	12-18(49136,49153,49148-43141)
5.	Secondary Damper	GEREP	KW 16-2018 301550739	KW16-2018 301550739
6.	Lateral Damper	IAI	01-19 237233	01-19 2372736
7.	Brake Cylinder	FAV	M18(385,525,420,420)	M18(414,431,409,438)
8.	Brake Caliper	FAV	N18(704,702,638,640)B	N18(639,637,577,580)B
9.	Brake Disc	KBI	24168006 0014-49/18,24168006 0006-49/18 24162603 0026-42-18,24164609 0002-42/18	24162514 0017-39/18,24162574 0052-39/18 24162274 0043-39/18,24162274 0009-39/18
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	PPI/UK		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	RKFL/PPI/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	051218-2,291118-1,311218-2,291118-2	261118-4,091118-1,301118-4,291118-1
22.	Control Arm Lower	RVE	291118-2,281118-3,281118-2,381118-3	261118-2,281118-2,311118-1,311118-1

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	3	9	0	-	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- KBI, FARIDABAD	M18060B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- KBI, FARIDABAD	18115602
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	M/s- SEEMA IND. BHOPAL	
9.	UIC Vestibule (PPE)	M/S- ELASTOMER LINING WORKS MUMBAI	
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- AGF, KOLKATA	
14.	Emergency Window	M/S- AGF, KOLKATA	
15.	Hopper Window	M/S- BEI PVT. LTD. PUNJAB	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/S- SYNTHETIC MODULAR, KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR INDUSTRIES, LDH	
20.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Bio Tank	M/s- RASANDIK ENG INDUSTRIES, GURUGRAM	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- SHIVALIC FASTNERS PVT.LTD. MOHALI	
25.	Under Slung Water Tank (1X685L)	M/s- AMIT ENG. MOHALI	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
27.	Lavatory Doors	M/s- KALSI, LDH	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/s- OVPL. INDUS. MUMBAI	
31.	Snack Table	N/A	

Signature
SSE/QC/MCF/RBL

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रेडिओका, रायबरेली (लालगंज)



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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	3	9	0	-	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 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 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 वरिष्ठ सुपरिन्टेन्डेंट गुणवत्ता विभाग रेडिंक 0, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक अभियंता/गुणवत्ता Assistant Mechanical Engineer / Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. QM/MCF/RBL उप मुख्य रसायनज्ञ/अभियंता Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
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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	191225/C
RAILWAY	NR	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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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : INTERNATIONAL On Board Sr no : SOP-NAC-MCF-18/07/0129 HT Panel Sr no : SOP-NAC-MCF-17/10/0011	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/126 Sr no.1 : 18120016 Sr no.2 : 18120078 Sr no.CPA: 2018/12/188-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS/CONCORD	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 : SALZER/RECORD	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 : CG POWER	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: RT VISION	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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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 : SIGNOTRON Sr no: 01191197	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18018005	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 : 41-18-1708	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	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंग/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