



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/2018-19/1009

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

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) 1100 (NPPE) 2) 1099 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/s- DTL, PUNE	19
		NPP END M/s- DTL, PUNE	19
	Complete	M/s- DTL, PUNE	19
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	LH SIDE MCF/RBL CONTRACTOR V4U	219/01
		RH SIDE MCF/RBL CONTRACTOR V4U	219/02
4.	End wall	PP END M/S- NECHD, CDG	---
		NPP END M/S- NECHD, CDG	---
5.	Roof	M/S- PIL, THIRUVALLUR	187
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 9967 NPP END 9931

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	89/88
2.	Insulation			Satisfactory	

[Signature]
SSE/OC/MCF/RBL

गुणवत्ता विभाग
रेडिंक ०, 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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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/1009

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

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182331				182332			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1548				VS-1547			
Bolster no.	AMIT-293				AMIT-282			
Axle No	18 G -0893 RWF		18G-1311 RWF		18 G-3302 RWF		18 G - 3757 RWF	
Wheel Dia	917.402	917.571	917.430	917.575	917.414	917.553	917.415	917.542
Wheel Disc No	TZ05-18 26185-8MR1	TZ05-18 18874-8MP2	TZ05-18 22474-8PP8	TZ07-18 33717-8RG5	TZ05-18 18872-8PQ3	TZ07-18 33720-8PG5	TZ07-18 35970-8RM1	TZ07-18 35971-8RM1
R.B. Nos.	05-18 26732	05-18 40895	05-18 38701	05-18 38700	05-18 27725	05-18 27745	05-18 26806	05-18 40900
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.	CMFSK12-18-5101-512-69	CMRSSK09-16F08-R58-08Y-1774	CMFSK12-18-5101-512-48	CMRSDK12-16-F08-N12-08Y-1922	CMFSK12-18-5101-512-44	CMRSK09-15-F08-R58-08Y-1788	CMFSK12-18-5101-512-73	CMRSDK04-18-F08-N73-08Y-1290
Compressed Ht. at Tested Load	511.5	472	513	471	513.5	467	511.5	471
Alignment deviation (mm)	9	8	9	8	7	3	7	2

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1630,1640	1659,1626
2.	Primary outer Spring	CMGBD	10-18 1100 121 (511,508,460,614)	10-18 1100(121-555,122-507,121-594,122-505)
3.	Primary Inner Spring	CMGBD	03-18 1037-30 (2827,2694,2649,2851)	0318-1101-312684,03-18 1037-30(2739,2755,2760)
4.	Primary Damper	KNORR	05-18(20308,20301,20328,20352)	05-18(20320,21854,20317,20357)
5.	Secondary Damper	GEREP	16-2018 301550739	16-2018 301550739
6.	Lateral Damper	SV	01-18 019949	01-18 019949
7.	Brake Cylinder	FAV	L18(143,439,438,164)	L18- (149,270,403,344)
8.	Brake Caliper	FAV	M18(463,462,461,464)B	M18(395,393,505,507)B
9.	Brake Disc	FAV	12-18(6585,6584),11-18(6006,6005)D133561-300	11-18(6011,6007,6010,6012)-D 133561-300
10.	Ball Joint Control Arm	BONY/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	DUREL		
17.	Rubber Spring	PPI/AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	231118-3,231018-1,131118-1,130918-3	211018-1,231018-3,231118-1,021118-2
22.	Control Arm Lower	RVE	RVE,191118-2,180918-3,RVE	RVE,271018-2,271018-1,101118-3

[Signature]
Signature of SSE/Bogie/QC



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DISPATCH TO	Sr.CDO/ALD	Type	L	W	S	C	N	1	Shell No.	8	7	3	0	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- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	L 18048 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)	18105564 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S- RESPONSIVE IND. DELHI	
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- SUNCREST IND. KOLKATA	
11.	Gangway bridge mounting (PPE)	M/s- HARE KRISHNA, KXH	
12.	Gangway bridge mounting (NPPE)	M/s- HARE KRISHNA, KXH	
13.	Body Side Window	M/S- AJC INDS, KOLKATA	
14.	Emergency Window	M/S- AGF, KOLKATA	
15.	Hopper Window	M/s- RAIL TECH, KXH	
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-HANSPAL, KXH	
21.	Vestibule Door(NPPE)	M/s-HANSPAL, KXH	
22.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES, GRUGRAM	
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- AMIT ENG. MOHALI	
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- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
31.	Snack Table	N/A	

SSE/OC/MCF/RBL.

वारिष्ठानु ० अभियंता

गुणवत्ता विभाग

रेडिडि००, रायबरेली (लागवज)



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

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.COM/MCF/RBL
वरिष्ठ गुणवत्ता विभाग	आधुनिक रेल डिब्बा कारखाना, रायबरेली	उप मुख्य गुणवत्ता प्रबन्धक
गुणवत्ता विभाग	Modern Coach Factory, Raebareli	Dy. Chief Quality Manager
रेल डिब्बा कारखाना, रायबरेली		आधुनिक रेल डिब्बा कारखाना, रायबरेली

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 00
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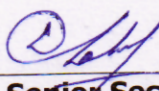
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FOR ELECTRICAL ITEMS

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	182995/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



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-812 HT Panel Sr no : AE/USBC-832	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/73 Sr no.1 : 18110167 Sr no.2 : 18110206 Sr no.CPA: 2018/12/120-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 : SSK/SAIZER	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SAIZER	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

(Signature)

Senior Section Engineer
Quality control / Electrical
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : NEC	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: 11/18/0108	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-764	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 earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 28/18/1230	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 : ANANYA	CC 91205	01

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

वरिष्ठ अनुमान अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / लालमंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

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