



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/2018-19/1191

RLY	E	R	-	Coach No.	1	9	1	9	2	5	/	C	DATE OF DISPATCH	1	3	-	0	2	-	1	9
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DISPATCH TO	CWM/LLH	Type	L	W	S	C	N	1	Shell No.	8	7	3	9	7	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M(C)/142/2, Dated-07-02-2019
- 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) 1105(NPPE) 2)1096(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/s Shivalic fastners pvt.ltd. mohali 11
		Complete	NPP END M/s Shivalic fastners pvt.ltd. mohali 11
			MCF/RBL 87397
2.	Lav. side wall	M/S Rail tech pvt.ltd. KXH	LAV.1 --- LAV.2 ---
		M/S Rail tech pvt.ltd. KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE M/S E.c.blades & tool pvt. Ltd CDG	75
		RH SIDE M/S E.c.blades & tool pvt. Ltd CDG	75
4.	End wall	PP END M/s Shivalic fastners pvt.ltd. mohali	---
		NPP END M/s Shivalic fastners pvt.ltd. mohali	---
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur Cheenai	280
6.	Centre Buffer Coupler	M/s Faively transport tech.india ltd baddi(HP)	PP END 18005 NPP END 18059

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 -GS	Supply & apply	91/89
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

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

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182722				182721			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1650				MCF/RBL-1480			
Bolster no.	MCF/RBL-2104				MCF/RBL-1980			
Axle No	18 H-9125 RWF		18H - 1184 RWF		18 J- 1384 RWF		18 H - 7169 RWF	
Wheel Dia	917.533	917.533	917.531	917.598	917.523	917.536	917.535	917.579
Wheel Disc No	TZ 08-18 45823-8RS3	TZ 05-18 18175-8MV0	TZ 07-18 40121-8RL4	TZ 07-18 40119-8RL4	TZ08-18 43626-8RR5	TZ08-18 25286-8PQ7	TZ07-18 41619-8RR4	TZ08-18 44602-8RM4
R.B. Nos.	08-18 19614	08-18 20731	07-18 17902	07-18 18105	08-18 20326	08-18 20166	07-18 18095	08-18 20346
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

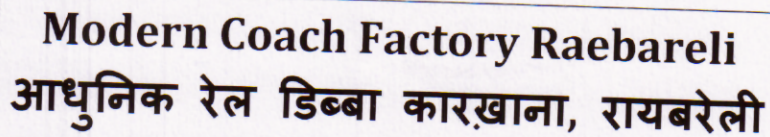
DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMGBD02-19-5101-05-13	CMGBD05-18-5100-64-409	CMGBD02-19-5101-05-45	CMGBD05-185100-70-405	CMGBD02-19-5101-05-33	CMGBD05-18-5100-66-200	CMGBD02-19-5101-05-20	CMGBD05-18-5100-66-330
Compressed Ht. at Tested Load	516	472	516	472	516	472	515	472
Alignment deviation (mm)	13	5	15	5	14	5	15	5

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12975,12979	13090,14783
2.	Primary outer Spring	CMGBD	10-18 1100 (119-474,108-111,122-550,119-434)	10-18 1100-(119-451,122-462,119-573,108-73)
3.	Primary Inner Spring	CMFSK	04-18 1101-402(481,413,761,502)	04-18 1101-402(482,765,764,489)
4.	Primary Damper	IAI	12-18 (48929,47242,47318,47478)	12-18(47334,47477,47724,47317)
5.	Secondary Damper	IAI	12-18 (235425,235509)	12-18 (235460,235485)
6.	Lateral Damper	IAI	12-18 237382	12-18 235354
7.	Brake Cylinder	KBI	A (9794,9072,9029,9729)K29	A (9815,9021,9210,9038)K29
8.	Brake Caliper	KBI	A (7945,7991,7884,7960)-29	A (7981,8023,8031,7983)-29
9.	Brake Disc	KBI	24167530 0018-43/18,24167529 0002-43/18 24167527 0024-43/18,24167527 0027-43/18	24167529 0003-43/18,24167530 0009-43/18 24167527 0031-43/18,24167527 0023-43/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
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	PPI		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	ASL		
21.	Control Arm Upper	RVE	081218-1,071218-1,081218-1,031218-2	081218-1,061218-2,081218-1,041218-1
22.	Control Arm Lower	RVE	061218-2,RVE,071218-1,RVE	071218-2,071218-1,071218-2,081218-2

Signature of SSE/Bogie/QC





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DISPATCH TO	CWM/LLH			Type	L	W	S	C	N	1	Shell No.	8	7	3	9	7	-	2	0	1	8	-	1	9

11. TRACEABILITY OF FURNISHING ITEMS:

11. TRACEABILITY OF FURNISHING ITEMS:									
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40
Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50
Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60
Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70
Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80
Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90
Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	1928 01/19
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	2018M6485
5.	Decoupling arrangement	M/S- ELASTOMER MUMBAI	
6.	Floor board	M/s- EG WOOD BOARD HYDARABAD	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s- SEEMA INDS. BHOPAL	
9.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/S- ELASTOMER MUMBAI	
11.	Gangway bridge mounting (PPE)	M/s COMPETENT ENGG.	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENGG.	
13.	Body Side Window	M/S- AGF INDS, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- S.S IND PUNJAB	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/s SHNTHETIC MODULAR KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR LDH	
20.	Vestibule Door(PPE)	M/s- KALSI LDH	
21.	Vestibule Door(NPPE)	M/s- KALSI LDH	
22.	Bio Tank	M/s- SARVAN INFRATEL LTD	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. MOHALI	
25.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
27.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
28.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
29.	Lavatory Doors	M/s- KALSI, LDH	
30.	Seat & Berth	M/S- CMT MECHANISED SYS.LTD VADODARA	
31.	Snack Table	N/A	

SSS/QC/MCH/RBL
गुणवत्ता विभाग
रे 0डि0का0, रायबरेली (लालगंज)



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DISPATCH TO	CWM/LLH	Type	L	W	S	C	N	1	Shell No.	8	7	3	9	7	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY)

NIL

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 गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)	SME/QC/MCF/RBL वरिष्ठ यंत्रिक अभियंता/गुणवत्ता Senior Mechanical Engineer आधुनिक रेल डिब्बा कारखाना Modern Coach Factory, R	Dy. COM/MCF/RBL ज्येष्ठ गुणवत्ता Dy. Chief Quality Manager 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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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	191925/C
RAILWAY	ER	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 : NEC On Board Sr no : 2018/16/32 HT Panel Sr no : 2018/16/11	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/018 Sr no.1 : 18110158 Sr no.2 : 18110246 Sr no.CPA: 2018/12/040-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : 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 : SSK	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK	EDML 086, Rev 03, ITEM-02	20
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	09

Senior Section Engineer
Quality control / Electrical
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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: 12-18-0089	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18018037	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 : 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 : KNORR Sr no : 0118430561	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : SOUTHERN Lug date : 12/17	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : TECHNO	CC 91205	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आंध्रप्रदेश/लालगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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सं कार्य प्रबन्धक / विद्युत
आंध्रप्रदेश/लालगंज/रायबरेली
A.W.M./Electrical/MCF/RBL

सं कार्य प्रबन्धक / विद्युत
आंध्रप्रदेश/लालगंज/रायबरेली
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