



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/2018-19/1185

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019																									
RLY	E	R	-	Coach No.	1	9	1	9	2	3	/	C	DATE OF DISPATCH	1	2	-	0	2	-	1	9				
DISPATCH TO		CWM/LLH		Type	L	W	S	C	N	1	Shell No.		8	7	4	7	9	-	2	0	1	8	-	1	9

- 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) 1100(NPPE) 2)1099(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S Neera chandigarh	11
	Front Part	NPP END M/S Neera chandigarh	11
	Complete	MCF/RBL	87479
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	74
		RH SIDE M/S E.c.blades & tool pvt. Ltd CDG	74
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	281
6.	Centre Buffer Coupler	M/s Faively transport tech.india ltd baddi(HP)	PP END 18023 NPP END 18025

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	07 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	88/87
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/**1185**

Coach No.	1	9	1	9	2	3	/	C	-	DATE OF DISPATCH	1	2	.	0	2	.	1	9
RLY	E	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	4	7	9	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182437				182438			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1429				VS/RBL-1235			
Bolster no.	AMIT-349				AMIT-332			
Axle No	18 E- 5658 RWF		17 Y - 7967 RWF		18F- 2431 RWF		18F- 2694 RWF	
Wheel Dia	917.484	917.619	917.499	917.642	917.515	917.66	917.503	917.684
Wheel Disc No	TZ 05-18 18365-8MY0	TZ 05-18 18936-8MY0	TZ 05-18 25708-8PQ7	TZ 07-18 24694-8RP7	TZ05-18 18966-8MY0	TZ05-18 20043-8MT8	TZ05-18 20041-8MT8	TZ08-18 27916-8QG5
R.B. Nos.	05-18 16210	05-18 13995	06-18 16202	05-18 13770	06-18 16526	06-18 16814	07-18 41796	05-18 13765
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.	CMGBD07-18- 5101-77-138	CMGBD05-18- 5100-70-614	CMGBD08-17- 5101-87-146	CMGBD05-18- 5100-70-665	CMGBD08-17- 5101-77-133	CMGBD05-18- 5100-64-672	CMGBD09-17- 5101-87-136	CMGBD05-18- 5100-64-689
Compressed Ht. at Tested Load	512	472	513	472	516	472	514	472
Alignment deviation (mm)	6	11	6	12	9	12	7	11

10. TRACEABILITY 9OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12380,12782	12397,12784
2.	Primary outer Spring	CMGBD	10-18 1100-122(110,129,101,124)	10-18 1100-121 (111,103,123,180)
3.	Primary Inner Spring	CMGBD	03-18 (3014,2584,2588,2378)	10-18 1101 (32-2295,31-2325,32-2390,31-2517)
4.	Primary Damper	KNORR	12-18(234310,234184,234732,234339)	12-18(234911,234758,234231,234347)
5.	Secondary Damper	IAI/GEREP	12-18 (235494,235424)	16-2018 301550739
6.	Lateral Damper	IAI	12-18 235412	12-18 235259
7.	Brake Cylinder	KBI	A19(9604,8986,8979,9622)-29	A19(9626,8961,8975,9627)-29
8.	Brake Caliper	KBI	A19(7744,7820,7821,7761)-29	A19(7763,7816,7818,7764)-29
9.	Brake Disc	KBI	24162515 0024-41/18,24162515 0023-41/18 24162515 0022-41/18,24162515 0021-41/18	24162278 0028-40/18,24162321 0038-40/18 24162274 0006-39/18,24162275 0015-39/15
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SF/SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	PPI		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SF/AR		
20.	Fork make	ASL		
21.	Control Arm Upper	RVE	031218-1,RVE,RVE,091218-1,091218-3	051218-1,051218-1,051218-1,RVE
22.	Control Arm Lower	RVE	RVE,RVE,RVE,091218-1	RVE

Signature of SSE/Bogie/QC





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DISPATCH TO	CWM/LLH	Type	L	W	S	C	N	1	Shell No.	8	7	4	7	9	-	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. New Delhi	1925 01/19
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018M6472
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
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- ELASTOMER MUMBAI	
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 VADODARA	
16.	Side panel	M/S-SUNGLow PUNJAB LAMINATE	
17.	Roof ceiling	M/s EXCEL IND 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	

Signature
 SSE/QC/MCF/RBL
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रेडि0का0, रायबरेली (लालगंज)



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DISPATCH TO	CWM/LLH	Type	L	W	S	C	N	1	Shell No.	8	7	4	7	9	-	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 वर्तमान अभियंता गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)	AME/QC/MCF/RBL वरिष्ठ अभियंता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.QM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	191923/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 : SSK On Board Sr no : 2018/12/114 HT Panel Sr no : 2018/12/079	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/25 Sr no.1 : 18110250 Sr no.2 : 18110194 Sr no.CPA: 2018/12/064-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: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/RECORD	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: 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	09

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 : 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: 12-18-0061	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18018042	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 earthling equipment. Make : PRIME/CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118420512	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 07/18	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	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

गुणवत्ता निबन्धन
आरंभिका / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

सं कार्य प्रबन्धक / विद्युत
आरंभिका / रायबरेली
A.W.M./Electrical/MCF/RBL