



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/2019-20/1773

RLY	SWR	COACH NO	201863/C	DATE OF DISPATCH	5-Mar-20
Type	LWSCN1	Shell No.	97848	DISPATCH TO	Sr.DME/UBL
				FUR.NO.	LSCN-1511

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-13-06-2019
2. Tare Weight of Coach : 41.24 Tonnes
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. Special feature:

A Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

5. 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	NPP / PP 1105/1096

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	MCFRBL/SIS
		Part NPP END	M/S-AMIT
		Complete	MCFRBL-V4U TECHIE
2	Lav. side wall	M/S-ATHANCY ALD	LAV.1
		M/S-ATHANCY ALD	LAV.2
3	Side wall	LH SIDE	MCFRBL-V4U LKO
		RH SIDE	MCFRBL-V4U LKO
4	End wall	PP END	M/S-RAIL TECH KXH
		NPP END	M/S-RAIL TECH KXH
5	Roof	M/S-TI	76
6	Centre Buffer Coupler	M/s-ESCORTS	PP 3279 NPP 2220

7. AIR BRAKE 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 .	6 – 10 sec.	8 sec
		Max. pressure in BC	3.0 ± 0.15 kg/cm ² .	3.0 kg/cm ²
		All Brake are applied	OK	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

8. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF
		OF PAINT		(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION
1	Paint	P.U	AKZONOBEL	M/S-AKZONOBEL	78/96	25-Feb-20
2	Insulation			Satisfactory		


 SSE/QC/MCF/RBL

वरि०अनु० अभियंता
 गुणवत्ता विभाग
 १० डि० को०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1773

RLY	S	W	R	Coach No.	2	0	1	8	6	3	/	C	-	DATE OF DISPATCH	0	5	0	3	2	0	2	0
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DISPATCH	Sr.DME/UBL	Type	L	W	S	C	N	1	Shell No.	9	7	8	4	8	FUR.NO	LSCN-1511
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193168				193167			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX ENGG.-17				SIMPLEX ENGG.-20			
Bolster no.	MCF/RBL-3323				MCF/RBL-3456			
Axle No	19 L - 2322 RWF	19 T - 6877 RWF			19 T - 3571 RWF	19 L - 2256 RWF		
Wheel Dia	917.566	917.445	917.492	917.408	917.559	917.398	917.571	917.441
Wheel Disc No	TZ 02-19 22574-9MM4	TZ 02-19 24985-9ML8	TZ 06-19 60539-9QL3	TZ 07-19 64847-9RN7	TZ 03-19 29667-9MG3	TZ 02-19 29675-9ML9	TZ 02-19 23605-9MG4	TZ 01-19 21948-9XH8
R.B. Nos.	11-19 33185	11-19 33992	12-19 44855	12-19 32500	11-19 43655	11-19 43535	11-19 43783	11-19 43020
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. 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.	CMGBD-10-19- F09-757-285	CMFSK-11-19- 5113-080-367	CMGBD-10-19- F09-757-288	CMFSK-11-19- 5113-080-537	CMGBD-10-19- F09-756-284	CMFSK-11-19- 5113-080-531	CMGBD-10-19- F09-756-148	CMFSK-11-19- 5113-080-534
Compressed Ht. at Tested Load	512	470	514	470.5	512	471	513	471
Alignment deviation (mm)	16	9	17	9	27	9	27	9

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	266818,266872	266828,266887
2.	Primary outer Spring	CMSTL	07-19-F07-N86-07A-(1905,2168,2183,1807)	07-19-F07-N86-07A-(2577,1253,2148,1926)
3.	Primary Inner Spring	CMGBD	10-19-F06-842-(195,182,30,563)	10-19-F06-842-(322,129,128,209)
4.	Primary Damper	IAI	08-19 (267180,267243,267351,267198)	08-19 (267295,267274,267295,267344)
5.	Secondary Damper	IAI	08-19 (258058,267991)	08-19 (268009,267997)
6.	Lateral Damper	IAI	08-19 268462	08-19 267982
7.	Brake Cylinder	KBI	C(2292,1091,1159,2242)-K-29	C(229,1094,1157,2241)-K-29
8.	Brake Caliper	KBI	3-(8844,8882,8797,8925)-29	B-(8843,8888,8848,8800)-29
9.	Brake Disc	KBI	24206688-(0021,0022)-44-19, 2420718-(0003,0034)-48-19	24206688-0017-44-19, 24206717-0080-48-19, 24206717-0080-48-19, 24206719-0002-48-19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ/SARITA		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	AR		
16.	Secondary RubberPad	GMT		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA+GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	KUMAR	0998,8878,9379,0675	8097,1989,8677,8071
22.	Control Arm Lower	KUMAR	1967,7538,6418,2735	6281,3768,8108,4912
23.	Phonic Wheel	KONI	K 08-19	K 08-19

Signature of SSE/Bogie/QC



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DOC No. REV. 1
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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1773

RLY	SWR	COACH NO	201863/C	DATE OF DISPATCH	5-Mar-20
Type	LWSCN1	Shell No.	97848	DISPATCH TO	Sr.DME/UBL
				FUR.NO.	LSCN-1511

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-ESCORTS	2019120292
2	Distribution valve	M/s-ESCORTS	1912A292
3	Pull box	M/s-KBI	
4	FIBA	NIL	
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-SHREE RAM PNL	
8	PVC	M/S-RESPONSIVE INDS DELHI	
9	Lavatory inlay	M/S-SEEMA INDS BHOPAL	
10	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
11	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
12	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/S-EXCEL INDS KOLKATA	
15	Emergency Window	M/S-FP INDS KOLKATA	
16	Lavatory/hopper Window	M/S-AXSYS SOLUTION	
17	Side panel	M/S-WONDER LAMINATE KOLKATA	
18	Roof Ceiling	M/S-A.B.COMPOSITE KOLKATA	
19	Door way Ceiling	M/S-ZAAM TOOLS RBL	
20	Body Side Doors 1,3	M/s- SUKATA CDG	
	Body Side Doors 2,4	M/s- JBM FARIDABAD	
21	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
22	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
23	Bio Tank	M/s-JSL LIFE STYLE	
24	Presurized Flushing(Elect.pneumatic)	M/s- IMI	
25	Auxiliary Water Tank	M/s-AMIT ENGG. MOHALI	
26	Under Slung Water Tank (2X685L)	M/s-OASIS	
27	Under Slung Water Tank (1x685 L)	M/s-SHIVALIK FAST MOHALI	
28	Health Faucet	M/S-KAPCO VALVES JUC	
29	Lotah Filler Tap	M/S-KAPCO VALVES JUC	
30	Controlled discharge tap	M/s-AGMECO PVT LTD	
31	Lavatory Doors	M/S-JR JUC	
32	Seat & Berth	M/S-ADVANCE SILICON FARIDABAD	
33	Ventury grill	NIL	
34	RFID	NIL	

Deema
SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान अधिकारी
गुणवत्ता विभाग
रेलवे, रायबरेली (लागू)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	SWR	COACH NO	201863/C	DATE OF DISPATCH	5-Mar-20
Type	LWSCN1	Shell No.	97848	DISPATCH TO	Sr.DME/UBL
				FUR.NO.	LSCN-1511

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

16. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain 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 30months from the date of supply of material whichever is earlier.

NOTE:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from

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 यांत्रिक अभियन्ता/गुणवत्ता Senior Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	सुधीर कुमार Sudhir Kumar Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, Modern Coach Factory, F

वरिष्ठ यांत्रिक अभियन्ता
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लाहौर)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	201863/C
RAILWAY	SWR	ELECT.FIT DATE	02-03-2020
FUR.NO	SCN-1511		
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/HOG NON AC SCN COACHES

01.	Switch board cabinet Make : ABROL On Board Sr no : 2019/11/425 B HT Panel Sr no : 2019/10/379 A	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 20/01/0122 Sr no.1 : 19110533 Sr no.2 : 19110416 Srno.CPA: sr no: 2020/01/108-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : INTEG	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: WAVES	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: LIGHT ENGG.	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin,Corridor,doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: ENSAVE	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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11.	Battery fuse box +ve Make : INDORAIL	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : AECO	LW 71002,Alt-F	01
13.	Regulated battery charger Make : ELECTRONIC EQUIPMENT COMPANY Sr no : 12190073	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2971	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 : MV ELECTRO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORTS Sr no : 180641-60147-0056	M/s : ESCORTS	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make: HBL Lug date: 11/19	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

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E/Elect-QC/M.C.F./LLJ/RBL

AWM(ELECT.)/MCF/RBL
SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली,
Sr. Electrical Engineer / RCF / RBL