



Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

आधुनिक रेल डिब्बा कारखाना, रायबरेली

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1697

RLY	SWR	COACH NO	201756/C	DATE OF DISPATCH	24-Feb-20
Type	LWSCN1	Shell No.	97789	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	LSCN-1505

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-07-02-2020
 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 1100/1102

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END	M/s-OMAX AUTOS 125
		NPP END	M/s-OMAX AUTOS 123
		Complete	MCFRBL-V4U TECHIE 97789
2	Lav. side wall	M/S-ATHANACY ALD	LAV.1 LAV.2
		M/S-ATHANACY ALD	LAV.4 LAV.3
3	Side wall	LH SIDE	MCF/RBL(CONT. V4U) 465/01
		RH SIDE	MCF/RBL(CONT. V4U) 465/02
4	End wall	PP END	M/s-RAIL TECH KXH
		NPP END	M/s-RAIL TECH KXH
5	Roof	M/S-TI	68
6	Centre Buffer Coupler	M/S-ESCORT LTD	PP 3232 NPP 3219

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.	08 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 OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1	Paint	P.U	AKZONOBEL	M/S-AKZONOBEL	74/95	23-Feb-20
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरिष्ठ अनु 0 अभियंता
 गुणवत्ता विभाग
 रेल डिब्बा कारखाना, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	S	W	R	Coach No.	2	0	1	7	5	6	/	C	-	DATE OF DISPATCH	2	4	0	2	2	0	2	0
DISPATCH	Sr.DME/MYS			Type	L	W	S	C	N	1	Shell No.	9	7	7	8	9	FUR .NO	LSCN-1505				

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193703				193704			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-2260				MCF/RBL-2297			
Bolster no.	MCF/RBL-2412				MCF/RBL-2710			
Axle No	19S-9795 RWF		19T-6712 RWF		19T-6469 RWF		19T-6516 RWF	
Wheel Dia	917.381	917.473	917.358	917.507	917.394	917.429	917.406	917.438
Wheel Disc No	TZ 07-19 65270-9RP5	TZ 03-19 29967-9MK1	TZ 05-19 41942-9MI9	TZ 05-19 41625-9PC7	TZ 01-19 21305-8XH9	TZ 12-18 15440-8XG2	TZ 06-19 59281-9QH7	TZ 06-19 60556-9QL3
R.B. Nos.	11-19 32530	12-19 44875	11-19 33030	11-19 33170	11-19 33581	11-19 32726	11-19 33362	11-19 34176
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.	CMFSK12-19-F09-158-607	CMFAJ12-19-5100-77	CMFSK12-19-F09-158-603	CMFAJ12-19-5100-66	CMFSK12-19-F09-158-602	CMFAJ12-19-5100-83	CMFSK12-19-F09-158-009	CMFAJ12-19-5100-82
Compressed Ht. at Tested Load	514.5	472	514.5	472.5	516	472	515.5	469
10Alignment deviation (mm)	10	5	12	5	7	5	7	5

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	266947,266956	266918,266958
2.	Primary outer Spring	CMGBD	10-19(885,794,665,739)	10-19(615,796,841,917)
3.	Primary Inner Spring	CMGBD	10-19(440,340,741,315)	07-19(859,3695,3540,1035)
4.	Primary Damper	IAI	12-19 (286665,286773,286562,286569)	12-19 (286640,286644,286687,286323)
5.	Secondary Damper	KONI	04-19 (00750,00835)	04-19 (00815,03280)
6.	Lateral Damper	IAI	11-19 280542	11-19 280565
7.	Brake Cylinder	KBI	C(2009,1082,1085,2003)K29	C(2008,1097,1044,2011)K29
8.	Brake Caliper	KBI	B(8679,8835,8836,8680)29	B(8681,8837,8834,8678)29
9.	Brake Disc	FAV	D133561-300(247,249,250,248)01-20	D133561-300(1077,1078,1075,1076)01-20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	171119-2,171119-3,211119-3,191119-2	171119-1,211119-7,171119-1,181119-2
22.	Control Arm Lower	RVE	221119-1,251119-3,251119-3,211119-1	221119-3,251119-2,251119-2,221119-2
23.	Phonic Wheel	KBI	K-01-20	K-01-20

Signature of SSE/Bogie/QC



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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-ESCORT	2019120287
2	Distribution valve	M/s-ESCORT	1912A287
3	Pull box	M/s-KBI	
4	FIBA	NA	
5	Foot Step	M/S-SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER INDS MUMBAI	
7	Floor board	M/S-SHREE RAM PNL GOVINDGARH	
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-MECIDON BHOPAL	
15	Emergency Window	M/S-FP INDS KOLKATA	
16	Lavatory/hopper Window	M/S-AXSYS SOLUTION SIMNAOUR	
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	M/S-JVR INDS LUDHIANA	
21	Vestibule Door(PPE)	M/s-JBM INDS FARIDABAD	
22	Vestibule Door(NPPE)	M/s-JBM INDS FARIDABAD	
23	Bio Tank	M/s-JSL LIFE STYLE GURUGRAM	
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-AMIT ENGG BADDI	
27	Under Slung Water Tank (1x685L)	M/s-RAIL TECH KAPURTHALA	
28	Health Faucet	M/S-KAPCO VALVES JALANDHAR	
29	Lotah Filler Tap	M/S-KAPCO VALVES JALANDHAR	
30	Controlled discharge tap	M/s-AGMECO PVT LTD UK	
31	Lavatory Doors	M/S-J.R INDS JALANDHAR	
32	Seat & Berth	M/S-HINDUSTAN VADODRA	
33	Ventury grill	NA	
34	RFID	NA	

SSE/QC/MCF/RBL

वरिष्ठ निरीक्षक

गुणवत्ता विभाग

रेल डिब्बा कारखाना, रायबरेली (नांदगांव)





Modern Coach Factory Raebareli
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				FUR.NO.	LSCN-1505

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 qualityrcfbl@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 अंशु 0 अभियंता	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

गुणवत्ता विभाग
रेडिओका 0, रायबरेली (लालगंज)

वरिष्ठ यांत्रिक अभियंता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जोगिन्दर सिंह
Joginder Singh
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/HOG NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	201756/C
RAILWAY	SWR	ELECT.FIT DATE	24-02-2020
FUR.NO	SCN-1505		
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	

(Signature)

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/HOG NON AC SCN COACHES

01.	Switch board cabinet Make : HIND RECTIFIERS On Board Sr no : H.355.19.G.346 HT Panel Sr no : H.355.19.H.394	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 20/01/0102 Sr no.1 : 19110429 Sr no.2 : 19110467 Srno.CPA: sr no: 2020/01/106-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : DR AUTO	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/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: SARIA	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
Modern Coach Factory Raebareli



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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 : SIGNOTRON Sr no: 01200983	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2833	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 : 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 : 190300-60836-0023	M/s : ESCORTS	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make: HLB 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 आररेडिडका/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

