



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/2019-20/1753

RLY	SWR	COACH NO	201817/C	DATE OF DISPATCH	29-Feb-20
Type	LWSCN1	Shell No.	97867	DISPATCH TO	Sr.DME/UBL
				FUR.NO.	LSCN-1506

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-03-06-2019
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 1102/1099

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END M/s-OMAX AUTOS	213
		NPP END M/s-OMAX AUTOS	218
		Complete MCFRBL-V4U TECHIE	97867
2	Lav. side wall	M/S-MIDAS GUJRAT	LAV.1
		M/S-MIDAS GUJRAT	LAV.4
3	Side wall	LH SIDE MCF/RBL(CONT. V4U)	473/01
		RH SIDE MCF/RBL(CONT. V4U)	473/02
4	End wall	PP END M/s-RAIL TECH KXH	
		NPP END M/s-RAIL TECH KXH	
5	Roof	M/S-ECBT	406
6	Centre Buffer Coupler	M/S-ESCORT LTD	PP 3240 NPP 3270

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	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF
		OF PAINT		(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION
1	Paint	P.U	G.S INDUS	M/S-G.S INDUSTRIES	75/97	28-Feb-20
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरिष्ठ अनु० अभियंता
गुणवत्ता विभाग
रेडिओका, रायबरेली (नालगंज)





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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RLY	S	W	R	Coach No.	2	0	1	8	1	7	/	C	-	DATE OF DISPATCH	2	9	0	2	2	0	2	0
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DISPATCH	Sr.DME/UBL	Type	L	W	S	C	N	1	Shell No.	9	7	8	6	7	FUR .NO	LSCN-1506
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193701				193702			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX ENGG.- 34				MCF/RBL - 2251			
Bolster no.	AMIT - 803				MCF/RBL - 2666			
Axle No	20 V - 0581 RWF		20 V -0561 RWF		20 V- 0765 RWF		20 V - 0806 RWF	
Wheel Dia	917.37	917.455	917.473	917.456	917.482	917.531	917.412	917.463
Wheel Disc No	TZ 01-19 22266-8XH3	TZ 02-19 28591-9ML9	TZ 10-18 01589-8WI6	TZ 02-19 26358-9ML0	TZ 02-19 23424-9ML4	TZ 02-19 24083-9MM0	TZ 07-19 68542-9RN2	TZ 02-19 25690-MI8
R.B. Nos.	11-19 34024	11-19 41886	11-19 43406	11-19 34808	11-19 44270	12-19 34822	11-19 44099	12-19 34719
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.	CMFSK 12-19 F09-152-666	CMAFJ 12-18 5100-39	CMFSK 12-19 F09-151-605	CMAFJ 12-19 5100-34	CMFSK 12-19 F09-152-984	CMAFJ 12-19 5100-18	CMFSK 12-19 F09-152-617	CMAFJ 12-19 5100-44
Compressed Ht. at Tested Load	514.5	472	516	472	514	472	514	472
Alignment deviation (mm)	12	5	12	5	13	5	13	5

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	267051,267105	267155,267172
2.	Primary outer Spring	CMSTL	06-19 F07-N84-07A-4551,07-19 F07-N89-07A-3632,07-19 F07-N90-07A(2282,3200)	07-19 F07-N90-07A(3037,2257,3195,,), 02-19 F07-N88-07A-4521
3.	Primary Inner Spring	CMSTL	07-19 F06-N92-06A(3650,3715,8089,3905)	02-19 F06-N92-06A(4081,4140,4137,3886)
4.	Primary Damper	IAI	12-19 (288372,286522,286585,288541)	12-19 (288154,286783,286542,286744)
5.	Secondary Damper	KONI	04-19 (00743,00819)	04-19 (00678,00677)
6.	Lateral Damper	IAI	11-19 280607	11-19 280685
7.	Brake Cylinder	KBI	C(3584,2145,2096,3402)-K-29	C(1178,0071,2015,3596)-K-29
8.	Brake Caliper	KBI	B(9923,9913,9916,9921)-29	B(7870,7919,9914,9922)-29
9.	Brake Disc	FAV	01-20 D133561-300(192,193,747,746)	01-20 D133561-300(282,318,317,316)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JL		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR/ARYAN		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT EMSON/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	151119-1,151119-3,171119-2,151119-3	171119-3,171119-3,151119-1,161119-1
22.	Control Arm Lower	RVE	211119-2,161119-1,121119-4,221119-1	211119-2,121119-2,251119-1,181119-1
23.	Phonic Wheel	KBI	K-12-19,K-12-19	K-12-19,K-12-19

Signature of SSE/Bogie/QC





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				FUR.NO.	LSCN-1506

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-ESCORT	2019120286
2	Distribution valve	M/s-ESCORT	1912A286
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 (WIDER)	M/S-EXCEL IR KOLKATA	
15	Emergency Window (WIDER)	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-OASIS	
27	Under Slung Water Tank (1x685L)	M/s-SHIVALIK FAST MOHALI	
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-ADVANCED SILICON PALWAL	
33	Ventury grill	NA	
34	RFID	NA	

Deema

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेडिंक ००, रायबरेली (लालगंज)





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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Type	LWSCN1	Shell No.	97867	DISPATCH TO	Sr.DME/UBL	FUR.NO.
						LSCN-1506

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:

- 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

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	SME/AME/QC/MCF/RBL	Dy. COM/MCF/RBL

वरिष्ठ अभियंता
गुणवत्ता विभाग
रेडिओ, रायबरेली (नालगंज)

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

Joginder Singh
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

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

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES							
TYPE COACH		LWSCN		SHELL/COACH NO		201817/C	
RAILWAY		SWR	ELECT.FIT DATE		02-03-2020	FUR.NO	SCN-1506
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/HOG NON AC SCN COACHES

01.	Switch board cabinet Make : ABROL On Board Sr no : 2019/11/419 B HT Panel Sr no : 2019/11/404 A	EDTS 333, Rev ` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 20/01/002 Sr no.1 : 19110224 Sr no.2 : 19110375 Srno.CPA: sr no: 2020/01/0065-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : A PAUL	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 : VENTWELL	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: 12190065	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2893	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 : NANDRATAN	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119345506	M/s : KNORR	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 आ0रे0डि0का0 / 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

