



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/2019-20/1722

RLY	SWR	COACH NO	201767/C	DATE OF DISPATCH	28-Feb-20
Type	LWSCN1	Shell No.	97707	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	LSCN-1510

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 1103/1098

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/s-M.T.F	268
		Part NPP END M/s-M.T.F	268
		Complete M/s-M.T.F	268
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)	457/01
		RH SIDE MCF/RBL(CONT. V4U)	457/02
4	End wall	PP END M/S-RAIL TECH KXH	
		NPP END M/S-RAIL TECH KXH	
5	Roof	M/S-DTL	50
6	Centre Buffer Coupler	M/S-FRONTIER LTD PP	149P2 NPP 217P2

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.	8sec
		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	G.S. INDS	M/S-G.S INDUSTRIES	75/96	25-Feb-20
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL
 परिचालन अधिकारी
 गुणवत्ता विभाग
 मंडीका 0, 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/2019-20/1722

RLY	S	W	R	Coach No.	2	0	1	7	6	7	/	C	-	DATE OF DISPATCH	2	8	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	C	N	1	Shell No.	9	7	7	0	7	FUR .NO	LSCN-1510
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193626				193625			
Bogie Type	FIAT				FIAT			
Frame no.	MIPL-421				MCF/RBL-1574			
Bolster no.	SCI-172				SCI-490			
Axle No	20V-0778 RWF		20V-1320 RWF		20V-3525 RWF		20V-3510 RWF	
Wheel Dia	917.399	917.446	917.402	917.474	917.352	917.38	917.469	917.432
Wheel Disc No	TZ 11-19 77638-9WE6	TZ 11-18 14927-8WQ0	TZ 07-19 64856-9RP7	TZ 07-19 64895-9RQ8	TZ 11-19 80223-9WF3	TZ 11-19 62771-9RL5	TZ 11-19 77459-9WE6	TZ 11-19 77643-9VG9
R.B. Nos.	12-19 35714	12-19 36030	11-19 42872	12-19 35203	11-19 43631	11-19 35591	11-19 43074	11-19 35270
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	AVADH RAIL INFRA LTD. 01-20-7143	AVADH RAIL INFRA LTD. 01-20-7185	AVADH RAIL INFRA LTD. 11-19-7153	AVADH RAIL INFRA LTD. 01-20-7152

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	267119,254861	254890,267059
2.	Primary outer Spring	CMSTL	07-19-07A(4590,3431,2303,2964)	07-19-07A(8000,4591,3207,3334)
3.	Primary Inner Spring	CMSTL	08-19-06A(3704,1574,3944,3659)	08-19-06A(4183,3785,2873,4081)
4.	Primary Damper	IAI	12-19(288102,288484,288140,286784)	12-19(286908,287305,287893,287338)
5.	Secondary Damper	KONI	04-19 (03276,03294)	04-19 (02375,02279)
6.	Lateral Damper	IAI	09-19 274699	09-19 274785
7.	Brake Cylinder	KBI	C(8406,2116,2338,3455)K29	(C3482,B2128,B2191,C3594)K29
8.	Brake Caliper	KBI	B(9882,9891,0017,9848)29	B(9781,9956,9972,99141)29
9.	Brake Disc	FAV	01-20(641,643,1123,1126)D133561-300	01-20(1165,1166,834,834)D133561-300
10.	Ball Joint Control Arm	ARYAN/GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Bull joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1908,1908	1908,1912
17.	Check Valve	ESCORT	1908	1908
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SF/IRPL	38,461,111,118	2007A11,2007A11,2007A12,1930L48
22.	Control Arm Lower	SF/IRPL	58,368,215,312	2004A05,1912L14,1914L21,1916L97
23.	Phonic Wheel	KBI	K-11-19	K-11-19

Signature of SSE/Bogie/QC



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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1722

RLY	SWR	COACH NO	201767/C	DATE OF DISPATCH	28-Feb-20
Type	LWSCN1	Shell No.	97707	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	LSCN-1510

12. TRACEABILITY OF FURNISHING ITEMS:



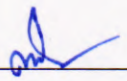
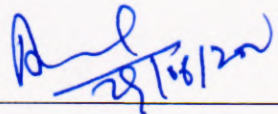
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	4581-52/19
2	Distribution valve	M/s-KBI	2019M9956
3	Pull box	M/s-FAV	
4	FIBA	M/s-KBI	7396/29,7431/29
5	Foot Step	M/S-SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER INDS MUMBAI	
7	Floor board	M/S-SHREE RAM PNL 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-EXCEL IR KOLKATA	
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 LUDHIYANA	
21	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
22	Vestibule Door(NPPE)	M/s-JBM 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-AMIT ENGG 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-HINDUSTAN FIBER VADODRA	
33	Ventury grill	NA	
34	RFID	NA	

Alma

SSE/QC/MCF/RBL

चरिउजनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)



		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/2019-20/1722						
RLY	SWR	COACH NO	201767/C	DATE OF DISPATCH		28-Feb-20
Type	LWSCN1	Shell No.	97707	DISPATCH TO	Sr.DME/MYS	FUR.NO. LSCN-1510
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
रेडिओका 0, रायबरेली





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		201767/C	
RAILWAY		SWR	ELECT.FIT DATE	27-02-2020	FUR.NO	SCN-1510	
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
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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 : 2019/11/412 B HT Panel Sr no : 2019/11/439 A	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 20/01/0041 Sr no.1 : 19110330 Sr no.2 : 19110372 Srno.CPA: sr no: 2020/01/0064-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: 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

(Signature)

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



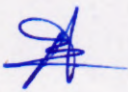
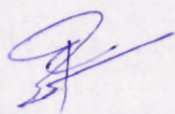
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FOR ELECTRICAL ITEMS

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

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: 02201131	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2919	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 : KNORR Sr no : 0119423072	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make: HLB Lug date: 12/19	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 आधुनिक रेल डिब्बा कारखाना / 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