



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/2019-20/1306

RLY	CR	COACH NO	199469/C	DATE OF DISPATCH	23/12/2019
Type	LWSCN1	Shell No.	97655	DISPATCH TO	Sr.DME/LTT
				FUR.NO.	LSCNG-369

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-19.12.2019

2. Tare Weight of Coach : 41.24 Tonnes

3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. Special feature:

A	Epoxy flooring in lavatory	M/s-ACME INDIA NDLS
B	Anti slip friendly Grab Bar	M/s-ACME INDIA NDLS
C	Provision of Health Faucet in lavatories	M/s-ACME INDIA NDLS
D	Washbasin counter Top (Corian of Duport or Montelli)	M/s-ACME INDIA NDLS
E	GFRE ceiling instead of NFTC	M/s-ACME INDIA NDLS
F	DGFRP panels instead of LP panels	M/s-ACME INDIA NDLS
G	Honey Comb partition frame with DGFRP sheet instead of FRP sheet	M/s-ACME INDIA NDLS
H	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, 1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-NE CHD	
	Part NPP END M/S-NE CHD		
	Complete MCF/RBL/AIRCON		97655
2	Lav. side wall	M/S-ATHANCY RBL LAV.1	LAV.2
		M/S-ATHANCY RBL LAV.3	LAV.4
3	Side wall	LH SIDE M/S-ECBT	54
		RH SIDE M/S-ECBT	54
4	End wall	PP END M/S-DTL PUNE	
		NPP END M/S-DTL PUNE	
5	Roof	MCF/CONT	207
6	Centre Buffer Coupler	M/s-ESCORT LTD PP END	2341 NPP END 2266

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.	07sec
		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	VIBGYOR	M/S-VIBGYOR	90/89	6/12/2019
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरिष्ठ अभियंता

गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	Coach No.	1	9	9	4	6	9	/	C	-	DATE OF DISPATCH	2	3	1	2	2	0	1	9
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DISPATCH	Sr.DME/LTT	Type	L	W	S	C	N	1	Shell No.	9	7	6	5	5	FUR .NO	LSCN-G-369
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192643				192644			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL -2123				MCF/RBL -2127			
Bolster no.	APEX-97				APEX-91			
Axle No	19 N - 4770 RWF	19 L - 2304 RWF	19 N - 4488 RWF	19 H - 4769 RWF				
Wheel Dia	917.728	917.654	917.617	917.717	917.646	917.57	917.715	917.764
Wheel Disc No	TZ 08-19 73754-9SK4	TZ 07-19 64907-9RL5	TZ 07-19 61789-9RM4	TZ 07-19 64910-9RN0	TZ 08-19 74848-9RL1	TZ 07-19 61612-9RR4	TZ 07-19 67186-9RP1	TZ 06-19 57397-QK6
R.B. Nos.	08-19 29634	11-19 40564	11-19 41715	11-19 40667	11-19 41542	11-19 41562	08-19 28837	11-19 41126
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.	CMFSK09-19- 5100-031-56	CMFSK05-19- 5100-027-193	CMFSK09-19- 5101-031-054	CMFSK05-19- 5100-027-378				
Compressed Ht. at Tested Load	514.5	471.5	514.5	472				
10Alignment deviation (mm)	9	10	7	10				

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	114,254	71,113
2.	Primary outer Spring	CMFSK	10-19-1100-115 (1773,1794,1814,1754)	10-19-1100-115 (1894,1864,1681,1873)
3.	Primary Inner Spring	CMFSK	11-19-1101-101 (1656,1624,1636,1635)	11-19-1101-101 (1719,1758,1789,1760)
4.	Primary Damper	KONIC	03-19 (00290,02455,01350,03058)	03-19 (02795,02709,02748,00212)
5.	Secondary Damper	IAI	09-19 (276998,276801)	09-19 (276804,266925)
6.	Lateral Damper	IAI	05-19 251353	05-19 250863
7.	Brake Cylinder	ESCORT	(50404,48385,50778,50209)	(50208,50779,48060,48485)
8.	Brake Caliper	ESCORT	(29269,27836,29643,29128)	(29129,29644,27788,27970)
9.	Brake Disc	KBI	24206703 0048-46/19,24206702 0059-46/19 24206714 0002-47/19,24206713 0025-47/19	24206710 0076-47/19,24206710 0075-47/19 24208710 0078-47/19,24206710 0079-47/19
10.	Ball Joint Control Arm	GMT/ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	AEW		
14.	Ball joint traction lever	SGA/GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE/SF	240919-2,160919-2,210919-3,210919-1	820,384-26,356-20,356-4
22.	Control Arm Lower	RVE/SF	210919-3,270919-2,280919-2,280919-1	698,384-32,356-24,356-8
23.	Phonic Wheel	FAV	FT/KEP-442	FT/KEP-442

Signature of SSE/Bogie/QC



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Type	LWSCN1	Shell No.	97655	DISPATCH TO	Sr.DME/LTT	FUR.NO. LSCNG-369

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPPP/PP)
1	Air Brake Module	M/S- ESCORTS	2019050157
2	Distribution valve	M/S- ESCORTS	1905A157
3	Pull box	M/S-FAV	
4	FIBA	N/A	
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/s-ACME INDIA NDLS	
9	Lavatory inlay	M/s-ACME INDIA NDLS	
10	UIC Vestibule (PPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
12	Gangway bridge mounting (PPE)	M/s-RAKESH IRON & STEEL KXH	
13	Gangway bridge mounting (NPPE)	M/s-RAKESH IRON & STEEL KXH	
14	Body Side Window (WIDER)	M/s-ACME INDIA NDLS	
15	Emergency Window (WIDER)	M/s-ACME INDIA NDLS	
16	Lavatory/hopper Window	M/s-ACME INDIA NDLS	
17	Side panel (DGFRP)	M/s-ACME INDIA NDLS	
18	Roof Ceiling (GFRE)	M/s-ACME INDIA NDLS	
19	Door way Ceiling (GFRE)	M/s-ACME INDIA NDLS	
20	Partition panel (FRAME)	M/s-ACME INDIA NDLS	
21	Partition pillar	M/s-ACME INDIA NDLS	
22	Body Side Doors	M/s-JVR LUDHIYANA	
23	Vestibule Door(PPE)	M/S- KALSI, LUDHIYANA	
24	Vestibule Door(NPPE)	M/S- KALSI, LUDHIYANA	
25	Bio Tank	M/S-UNIFAB,CEMCON CASTING PVT LTD	
26	Pressurised flushing (Elect Pneumatic)	NA	
27	Auxiliary Water Tank	M/S-SHIVALIK FAST MOHALI	
28	Under Slung Water Tank (2X685L)	M/S-AMIT ENGG BADDI+SFPL MOHALI	
29	Under Slung Water Tank (1x650 L)	M/S-SHIVALIK FAST MOHALI	
30	Health Faucet	M/s-KAPCO VALES JALANDHAR	
31	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
32	Controlled discharge tap	M/s- EAUSET PVT LTD GURGAON	
33	Lavatory Doors	M/s-ACME INDIA NDLS	
34	Fire Extinguisher	M/s-ACME INDIA NDLS	
35	Seat & Berth	M/s-ACME INDIA NDLS	
36	Water purifier	NA	
37	RFID	NA	

SSE/QC/MCF/RBL

वरिष्ठ अनु 0 अभियंता

गुणवत्ता विभाग

रेडिंक 0, रायबरेली (लालगंज)





		Modern Coach Factory Raebareilly 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/2019-20/1306					
RLY	CR	COACH NO	199469/C	DATE OF DISPATCH	23/12/2019
Type	LWSCN1	Shell No.	97655	DISPATCH TO	Sr.DME/LTT
13. MODIFICATION (IF ANY)				: Partition frame & Partition pillar	
14. DEVIATION (IF ANY)				: NIL	
15. ITEM FITTED ON THE COACH ON TRIAL : NIL					
S NO	ITEM PARTICULARS		PURPOSE	REPORT	REFERENCE &
				Frequency	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 गुणवत्ता विभाग ७०डि०आ०, रायबरेली (लालगंज)		 SME/AME/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareilly		 Dy.CQM/MCF/RBL Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	199469/C
RAILWAY	CR	ELECT.FIT DATE	21-12-2019
FUR.NO	SCN-G-369		
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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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 19/07/TCS/MCF/3436/355/0089 HT Panel Sr no : PD STEELS PDS/1911027	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/08/0030 Sr no.1 : 3655 Sr no.2 : 3693 Srno.CPA: 2019/08/0180-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : INTEG ELECT.	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 : SALZER/RECORD	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SALZER/RECORD	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: ORIENT	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin,Corridor,doorway and Gangway Lights. Make: ENSAVE	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 : INTRA	CC76289 & CC76443	09

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11.	Battery fuse box +ve Make : ISGPL	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: W4K5J 19815	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2571	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 : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 190001-60527-0047	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WITH 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 : NIL	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 स० कार्य प्रबन्धक/विद्युत आ०रे०डि०का०/रायबरेली A.W.M./Electrical/MCF/RBL