



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/2019-20/1710

RLY	SWR	COACH NO	201772/C	DATE OF DISPATCH	28-Feb-20
Type	LWSCN1	Shell No.	97743	DISPATCH T	Sr.DME/MYS
				FUR.NO.	LSCNG-407

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	Epoxy flooring in lavatory	M/s-ACME INDIA NDLS
B	Anti slip friendly Grab Bar	M/s-ACME INDS NDLS
C	Provision of Health Faucet in lavatories	M/s-ACME INDS NDLS
D	Washbasin counter Top (Corian of Duport or Montelli)	M/s-ACME INDS NDLS
E	GFRE ceiling instead of NPTC	M/s-ACME INDS NDLS
F	DGFRP panels instead of LP panels	M/s-ACME INDS NDLS
G	Honey Comb partition frame with DGFRP sheet instead of FRP sheet	M/s-ACME INDS NDLS
H	Venturi arrangement in lavatory	M/s-ACME INDS NDLS
I	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 1097/1100

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-AMIT ENGG. 58
		Part NPP END	M/S-AMIT ENGG. 90
		Complete	MCFRBL-V4U AIRCON 97743
2	Lav. side wall	M/S-MIDAS GUJRAT	LAV.1
		M/S-MIDAS GUJRAT	LAV.2
3	Side wall	LH SIDE	M/S-DTL PUNE 12
		RH SIDE	M/S-DTL PUNE 12
4	End wall	PP END	M/S-OMAX REWARI
		NPP END	M/S-OMAX REWARI
5	Roof	M/S-DTL PUNE	21
6	Centre Buffer Coupler	M/s- FRONTIER	PP END 09 P2 NPP END 88P2

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.	07 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	VIBGYOR	M/S-VIBGYOR	88/86	08.01.2020
2	Insulation			Satisfactory		

वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिओका, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/**2019-20/1710**

RLY	S	W	R	Coach No.										2	0	1	7	7	2	/	C	-	DATE OF DISPATCH										2	8	0	2	2	0	2	0
DISPATCH		Sr.DME/MYS			Type		L	W	S	C	N	1	Shell No.		9	7	7	4	3	FUR .NO					LSCN-G-407															
8. DETAIL OF BOGIES:																																								
ITEMS																																								

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192846				192845			
Bogie Type	FIAT				192845			
Frame no.	MIPL-318				FIAT			
Bolster no.	MCF/RBL-0562				MIPL-287			
Axle No	19 P - 2743 RWF				19 S - 0433 RWF			
Wheel Dia	917.233	917.434	917.253	917.41	917.19	917.419	917.258	917.451
Wheel Disc No	TZ 06-19 57746-9QJ0	TZ 06-19 57729-9QJ0	TZ 06-19 52315-9PFO	TZ 06-19 56804-9QJ4	TZ 05-19 56503-9QJ0	TZ 06-19 57741-9QJ0	TZ 06-19 56799-9QK4	TZ 06-19 56802-9QJ4
R.B. Nos.	09-19 31268	09-19 31492	09-19 31359	11-19 31305	11-19 40272	09-19 31349	09-19 3173	09-19 31395
CT R B Make	TIMKEN				TIMKEN			

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO. Sr.NO- 10-19 5953	TAYAL & CO. Sr.NO-10-19 5023	TAYAL & CO. Sr.NO-10-19 4960	TAYAL & CO. Sr.NO-10-19 4954

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	279933,283171	283168,282963
2.	Primary outer Spring	CMAFI/CMFSK	07-19 1100(365,362,364,355)	10-19 1100-114(1708,1434,1245,1360)
3.	Primary Inner Spring	RSKSTL	07-19 F06(1922,6028,2033,5973)	10-19 1101-101(1553,1508,1565,1563)
4.	Primary Damper	IAI	09-19 (282776,282059,282104,282917)	11-19 (282765,282601,282312,282254)
5.	Secondary Damper	GBSVD	07-19 (02039,02238)	09-19 (02001,02006)
6.	Lateral Damper	KONI	04-19 2376	04-19 02019
7.	Brake Cylinder	KBI	C(1141,0035,0092,1144)-K-29	C(1153,0093,0097,1143)-K-29
8.	Brake Caliper	KBI	B(7825,7941,7942,7824)-29	B(7823,7944,7943,7826)-29
9.	Brake Disc	FAV	12-19 (8508,8510,8155,8156)D133561	12-19 (8279,8280,6442,6443)D133561
10.	Ball Joint Control Arm	ARYAN/GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	GMT/ARYAN		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	KNORR	12-19-1283, 12-19-1311	16-19-B-1699, 16-19-B-1690
17.	Check Valve	KNORR	17261	18452
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT EMSON/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	KUMAR/SF	0810,0525,0628,0715	812,---,733,548
22.	Control Arm Lower	KUMAR/SF	D(0878,944,877,656)	820,348,735,648
23.	Phonic Wheel	KBI	K-09-19,K-09-19	K-09-19,K-09-19

Signature of SSE/Bogie/QC





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				FUR.NO.	LSCNG-407

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S - KBI	4049 41/19
2	Distribution valve	M/S - KBI	2019K9261
3	Pull box	M/S - KBI	
4	FIBA	M/S - KBI	7733/29,7839
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER 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-KRP PUNE	
11	UIC Vestibule (NPPE)	M/S-KRP PUNE	
12	Gangway bridge mounting (PPE)	M/S-HARE KRISHNA COMPONENTS KXH	
13	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA COMPONENTS KXH	
14	Body Side Window(WIDDER)	M/s-ACME INDIA NDLS	
15	Emergency Window (WIDDER)	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 (DGFRP)	M/s-ACME INDIA NDLS	
19	Door way/Gangway Ceiling	M/s-ACME INDIA NDLS	
20	Partition panel Honeycomb	M/s-ACME INDIA NDLS	
21	Partition pillar	M/s-ACME INDIA NDLS	
22	Body Side Doors	M/s-ACME INDIA NDLS	
23	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
24	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
25	Bio Tank	M/S-JSL LIFE STYLE	
26	Pressurised Flushing (electro.pneu.)	M/S-IMI	
27	Auxiliary Water Tank	M/S-OASIS	
28	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST MOHALI	
29	Under Slung Water Tank (1x685 L)	M/S-AMIT ENGG. MOHALI	
30	Health Faucet	M/s-KAPCO VALES JALANDHAR	
31	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
32	Controlled discharge tap	M/s-EAUSER .LTD .	
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	Ventury grill	M/s-ACME INDIA NDLS	
37	Water purifier(02 NOS)	M/s-ACME INDIA NDLS	
38	RFID	N/A	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
मुद्रित विभाग

रेडिंक ०, रायबरेली (लालगंज)





Modern Coach Factory Raebareilly
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Type	LWSCN1	Shell No.	97743			FUR.NO.	LSCNG-407

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 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 मुख्य निरीक्षक 7.02.2020, रायबरेली (लालगंज)	 SME/AME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory	 DY.COM/MCF/RBL Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory
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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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DATE: 18.01.2017

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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	201772/C
RAILWAY	SWR	ELECT.FIT DATE	22-02-2020
FUR.NO	SCN-G-407		
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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES

01.	Switch board cabinet Make : ABROL On Board Sr no : 2019/11/404 B HT Panel Sr no : 2019/10/384 A	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 20/01/0026 Sr no.1 : 19110280 Sr no.2 : 19110228 Srno.CPA: 2019/12/089-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: VENTWELL/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: ENSAVE/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 : RT VISION	CC76289 & CC76443	09

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : RICHMOND	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : RICHMOND	LW 71002,Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 01201032	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2943	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONALS	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : RSI	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119412970	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI 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/OC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

आधुनिक रेल डिब्बा कारखाना, रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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

