



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/2019-20/1708

RLY	SWR	COACH NO	201770/C	DATE OF DISPATCH	28-Feb-20
Type	LWSCN1	Shell No.	97732	DISPATCH T	Sr.DME/MYS
				FUR.NO.	LSCNG-388

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 NFTC	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 1102/1098

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front Part	PP END M/S-RFPL 27
		NPP END	M/S-RFPL 40
	Complete	MCFRBL-V4U AIRCON	97732
2	Lav. side wall	M/S-DTL PUNE	LAV.1 LAV.2
		M/S-DTL PUNE	LAV.3 LAV.4
3	Side wall	LH SIDE	M/S-DTL PUNE 4
		RH SIDE	M/S-DTL PUNE 4
4	End wall	PP END	M/S-SIPL PALWAL
		NPP END	M/S-SIPL PALWAL
5	Roof	M/S-TI	1
6	Centre Buffer Coupler	M/s- ESCORTS	PP END 2687 NPP END 2676

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	89/87	27.12.19
2	Insulation			Satisfactory		

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका. रायबरेली (मालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	S	W	R	Coach No.	2	0	1	7	7	0	/	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	3	2	FUR .NO	LSCN-G-388
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192925				192926			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-717				MIPL-7			
Bolster no.	MCF/RBL-3398				MCF/RBL-3358			
Axle No	19 N - 4353 RWF	19 P - 7115 RWF	19 - 3335 RWF	19 N - 4407 RWF	19 - 3335 RWF	19 N - 4407 RWF	19 - 3335 RWF	19 N - 4407 RWF
Wheel Dia	917.331	917.336	917.321	917.324	917.342	917.264	917.368	917.28
Wheel Disc No	TZ 08-19 75910-9SK8	TZ 05-19 41937-9MI9	TZ 07-19 70448-9RL8	TZ 08-19 74624-9RP2	TZ 07-19 61750-9RM4	TZ 07-19 61753-9RM4	TZ 07-19 66346-9RS0	TZ 07-19 66349-9RS0
R.B. Nos.	08-19 28233	10-19 39904	09-19 31662	09-19 30692	09-19 31027	09-19 31051	09-19 31558	09-19 31030
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.	CMGBD-10-19-F06-756-37	CMFSK-09-19-5100-080-316	CMGBD-10-19-F06-756-59	CMFSK-09-19-5100-080-4	CMGBD-10-19-F06-756-11	CMRSK-05-18-F08-N73-08Y-1913	CMGBD-10-19-F06-756-2	CMRSK-05-18-F08-N73-08Y-1925
Compressed Ht. at Tested Load	513	467.5	513	471	514	472	514	472
Alignment deviation (mm)	29	7	27	7	26	6	12	6

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	16092,16078	16070,16073
2.	Primary outer Spring	CMFSK	11-19-1100-115-(1912,1827,1846,1677)	11-19-1100-115-(1211,1269,1869,1848)
3.	Primary Inner Spring	CMFSK	11-19-1101-105-(1627,1933,1920,1957)	11-19-1101-105-(1930,1595,1907,1902)
4.	Primary Damper	IAI	11-19 (281565,281554,282058,281997)	11-19 (281785,281298,281177,281053)
5.	Secondary Damper	GBSVD	11-19 (03090,02993)	11-19 (04131,01430)
6.	Lateral Damper	IAI	05-19 250811	05-19 250951
7.	Brake Cylinder	ESCORT	53733,31925,53841,31830	31829,31925,31926,31830
8.	Brake Caliper	KBI+ESCORT/ESCORT	KBI-(B-5174-29), ESCORT-(31971,31972,31812)	31829,53778,53777,53652
9.	Brake Disc	FAV	11-19-(7211,7210,6707,6706)	12-19-(8588,8562,7268,7267)
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	GMT		
16.	Secondary RubberPad	DUREL		
17.	Rubber Spring	GMT/ARYAN		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA+ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	KUMAR+SARITA/(SF) SARITA	KUMAR-(N1866,N4810,N5756), SARITA-939	561,356,L-510,513
22.	Control Arm Lower	KUMAR+SARITA	KUMAR-(N0820), SARITA-455,374,250	KUMAR-(N0514), SARITA-C128,29,410
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

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 -KBI	4070-42/19
2	Distribution valve	M/S -KBI	2019K9292
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 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-SUNCREAST KOLKATA	
11	UIC Vestibule (NPPE)	M/S-SUNCREAST KOLKATA	
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-UNIFAB -02 NOS+CEMCON -02 NOS	
26	Pressurised Flushing (electro.pneu.)	M/S-IMI	
27	Auxiliary Water Tank	M/S-AMIT ENGG. MOHALI	
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-EAUSSET PVT.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

रेडि०का०, रायबरेली (लालगंज)





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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 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 गुणवत्ता विभाग मोडिफाई, रायबरेली (लालगंज)	SME/AME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.QM/MCF/RBL 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 NONAC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	201770/C
RAILWAY	SWR	ELECT.FIT DATE	15-01-2020
FUR.NO	SCN-G-388		
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 NONAC SCN COACHES

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 19/12/TCS/MCF/3451/355/0057 HT Panel Sr no : 19/12/TCS/MCF/3451/355/0057	EDTS 333, Rev ` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 19/02/0070 Sr no.1 : 19100528 Sr no.2 : 19100402 Srno.CPA: NIL-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: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: CG POWER	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: 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 : INTRA	CC76289 & CC76443	09

Senior Section Engineer
Quality control / Electrical
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11.	Battery fuse box +ve Make : RICHMOND	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 12190757	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2804	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 : MAA LAXMI INDUSTRIES	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 : KNORR Sr no : 0119372857	M/s : KNORR	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 : HITECH	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
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