



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/2019-20/1712

RLY	SWR	COACH NO	201774/C	DATE OF DISPATCH	28-Feb-20
Type	LWSCN1	Shell No.	97609	DISPATCH T	Sr.DME/MYS
				FUR.NO.	LSCNG-380

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 1101/1100

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END M/S-NE	
	Front Part	NPP END M/S-NE	
	Complete	MCFRBL-V4U TECHIE	97609
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 CDG	63
		RH SIDE M/S-ECBT CDG	63
4	End wall	PP END M/S-DTL PUNE	
		NPP END M/S-DTL PUNE	
5	Roof	MCFRBL-CONT.	217
6	Centre Buffer Coupler	M/s- FRONTIER PP END	240P2 NPP END 230P1

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 OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1	Paint	P.U	VIBGYOR	M/S-VIBGYOR	86/86	17.12.19
2	Insulation			Satisfactory		

वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ का. रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	S	W	R	Coach No.	2	0	1	7	7	4	/	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	6	0	9	FUR .NO	LSCN-G-380
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193115				193116			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-130				WIL-25			
Bolster no.	MCF/RBL-2872				MCF/RBL-2972			
Axle No	19 P - 1640 RWF	19 N - 8585 RWF	19 R - 2009 RWF	19 P - 1631 RWF				
Wheel Dia	917.346	917.335	917.139	917.263	917.278	917.29	917.266	917.319
Wheel Disc No	TZ 07-19 68097-9RR1	TZ 06-19 60486-9QL3	TZ 06-19 54498-9PD8	TZ 07-19 67013-9RM8	TZ 07-19 61483-9RP9	TZ 07-19 61749-9RM4	TZ 07-19 64573-9MH4	TZ 07-19 63855-9RR8
R.B. Nos.	09-19 30492	09-19 30565	09-19 31591	09-19 40362	09-19 31037	11-19 40303	09-19 31137	09-19 30941
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- F09-757-238	CMFSK -11-19- 5112-080-368	CMGBD-10-19- F09-757-191	CMFSK -11-19- 5112-080-422	CMGBD-10-19- F09-757-230	CMFSK -11-19- 5112-080-469	CMGBD-10-19- F09-756-82	CMFSK -11-19- 5112-080-431
Compressed Ht. at Tested Load	513	469	514	467.5	516	469	516	469
Alignment deviation (mm)	26	9	26	11	20	10	18	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	279621,279903	279980,279865
2.	Primary outer Spring	CMFSK	10-19-1100-115-(1787,1784,1807,1810)	10-19-1100-115-(1800,1651,1798,1772)
3.	Primary Inner Spring	CMFSK	11-19-1101-101-(1597,1995,1612,1974)	11-19-1101-101-(1625,1909,1949,1915)
4.	Primary Damper	IAI	11-19 (281164,281828,281155,281136)	11-19 (281464,281517,281324,281509)
5.	Secondary Damper	GBSVD	07-19 (01420,01421)	07-19 (01555,01554)
6.	Lateral Damper	IAI	05-19 251492	05-19 251488
7.	Brake Cylinder	ESCORT	49350,47816,53785,53628	53436,52783,53792,53776
8.	Brake Caliper	ESCORT	28555,27242,31933,31876	31581,31050,31940,31922
9.	Brake Disc	FAV	12-19-(7614,7615,7209,7534)-D133561-300	12-19-(8518,8519,8563,7265)-D133561-300
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
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	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON+GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	109,889,191,5	383,510,53,58
22.	Control Arm Lower	SF	98,325,232,198	218,322,118,208
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 -ESCORTS	2019090144
2	Distribution valve	M/S -ESCORTS	1909A144
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-OMAX AUTOS	
26	Pressurised Flushing (electro.pneu.)	M/S-IMI	
27	Auxiliary Water Tank	M/S-OASIS	
28	Under Slung Water Tank (2X685L)	M/S-AMIT ENGG. BADDI	
29	Under Slung Water Tank (1x685 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-AGMECO .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

गुणवत्ता विभाग

रेलवे कारखाना, रायबरेली (उत्तर प्रदेश)





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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 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 qualityrcfrbl@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. Chief Quality Manager
गुणवत्ता विभाग	आधुनिक रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना, रायबरेली
रेलवे कारखाना रायबरेली (न्यायगंज)	Modern Coach Factory Raebareli	Modern Coach Factory, Raebareli



	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
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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		201774/C
RAILWAY		SWR	ELECT.FIT DATE	24-02-2020	FUR.NO	SCN-G-380
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/3451/355/0046 HT Panel Sr no : 19/12/TCS/MCF/3451/355/004	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/2/0117 Sr no.1 : 19100402 Sr no.2 : 19100482 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: 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	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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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : SSK	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: 10190496	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2736	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 : ESCORTS Sr no : 190001-60527-0179	M/s : ESCORTS	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHD 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 : ANANYA	CC 91205	01

SSE/EL/QC	AWM(ELECT.)/MCF/RBL
वरिष्ठ अनुभाग अभियन्ता	SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

