



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/2019-20/1250

RLY	NFR	COACH NO	197735/C	DISPATCH TO	Sr.DME/DBRG	DATE OF DISPATCH	14/12/2019
Type	LWSCN1	Shell No.	97633			FUR.NO.	LSCN-1379

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-21.11.2019
2. Tare Weight of Coach : 41.24 Tonnes
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. Special feature:

A 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, 1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under	Front PP END	M/S-NAV NIRMAN 32/34
	Part	NPP END	M/S-NAV NIRMAN 32/34
	Complete	M/S-NAV NIRMAN	32/34
2	Lav. side wall	M/S- ATHANACY RBL LAV.1	LAV.2
		M/S- ATHANACY RBL LAV.3	LAV.4
3	Side wall	LH SIDE	MCF/RBL(CONT V4U) 355/01
		RH SIDE	MCF/RBL(CONT V4U) 355/02
4	End wall	PP END	M/S-P.D STEEL PKL
		NPP END	M/S-SIPL PALWAL
5	Roof	MCF CONT	182
6	Centre Buffer Coupler	M/s- ESCORT LTD PP END	2278 NPP END 2293

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	AVERAGE	DATE OF
				(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION
1	Paint	P.U	AXALTA	M/S-EMPRISE	99/94	26/11/2019
2	Insulation					

Satisfactory

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान अभियंता
गुणवत्ता विभाग
रेलवे डिब्बा कारखाना, रायबरेली (ल.प्र.)



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

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RLY	N	F	R	Coach No.	1	9	7	7	3	5	/	C	-	DATE OF DISPATCH	1	4	1	2	2	0	1	9
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DISPATCH	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	6	3	3	FUR.NO	LSCN-1379
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192521				192522			
Bogie Type	FIAT				FIAT			
Frame no.	RBL/LS5-1186				RBL/LS5-1173			
Bolster no.	SECPL-443				SECPL-435			
Axle No	19 N- 9023 RWF		19 L- 5497 RWF		19 N- 3316 RWF		19 R- 6237 RWF	
Wheel Dia	917.482	917.482	917.482	917.523	917.455	917.477	917.505	917.459
Wheel Disc No	TZ 07-19 64650-9RQ1	TZ 08-19 73810-9S11	TZ 08-19 74705-9SK7	TZ 08-19 74200-9RR3	TZ 08-19 74718-9SK7	TZ 08-19 74794-9SL0	TZ 08-19 74700-9SK4	TZ 07-19 67194-9RP1
R.B. Nos.	08-19-28414	08-19-28319	09-19-37703	08-19-28579	08-19-28571	08-19-28708	08-19-30007	08-19-28455
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
Make & Nos.	AVADH RAIL INFRA Sr.NO.07-19 420	AVADH RAIL INFRA Sr.NO.07-19 4158	TAYAL & CO. Sr.NO.19-07 2495	TAYAL & CO. Sr.NO.19-07 3016

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
1.	Yaw Damper	KBI	17345,17364	1754,217368
2.	Primary outer Spring	CMFSK	10-19 1100-114 (58,193,97,90)	10-19 1100-114 (15,91,197,64)
3.	Primary Inner Spring	CMFSK/CMSTL	10-19 1101-101 (282,218,285,270)	02-19 06A (3460,228,68261,2741)
4.	Primary Damper	KONIC	03-19 (04972,06383,06342,04561)	03-19 (04260,06950,06445,04761)
5.	Secondary Damper	KONI	04-19 (04972,06342)	04-19 (04260,06445)
6.	Lateral Damper	KONI	04-19 04566	04-19 04761
7.	Brake Cylinder	ESCORT	(50998,24690,49273,50997)	(48180,48982,48981,48182)
8.	Brake Caliper	ESCORT	(29567,28820,28822,29566)	(27693,28330,28330,27665)
9.	Brake Disc	KBI	24200051 0010-36/19,24200051 0009-36/19 24200051 0008-36/19,24200051 0019-36/19	24198279 0062-35/19,24198279 0061-35/19 24198278 0061-35/19,24198278 0060-35/19
10.	Ball Joint Control Arm	GMT/ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1906,1906	1906,1906
17.	Check Valve	ESCORT	1906	1906
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE/SF	160819-1,170819-3,210819-2,190819-2	338,348,61,777
22.	Control Arm Lower	RVE/SF	230819-2,130819-3,140819-4,230819-2	19,235,RVE--9210819-1,210819-2
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Signature of SSE/Bogie/QC



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Type	LWSCN1	Shell No.	97633			FUR.NO.	LSCN-1379

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPPP/PP)
1	Air Brake Module	M/S- ESCORTS	2019040118
2	Distribution valve	M/S- ESCORTS	1904A118
3	Pull box	M/S -FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	
4	FIBA	M/S-KBI	10402/29,10385/29
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7	Floor board	M/s- A.B.COMPOSTE KOLKATA	
8	PVC	M/s- A.B.COMPOSTE KOLKATA	
9	Lavatory inlay	M/S-SEEMA INDS BHOPAL	
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- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/s- A.B.COMPOSTE KOLKATA	
15	Emergency Window	M/s- A.B.COMPOSTE KOLKATA	
16	Lavatory/hopper Window	M/s- A.B.COMPOSTE KOLKATA	
17	Side panel	M/s- A.B.COMPOSTE KOLKATA	
18	Roof Ceiling	M/s- A.B.COMPOSTE KOLKATA	
19	Door way Ceiling	M/s- A.B.COMPOSTE KOLKATA	
20	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
21	Vestibule Door(PPE)	M/S- KALSI IND LDH	
22	Vestibule Door(NPPE)	M/S- KALSI IND LDH	
23	Bio Tank	M/S- JSL LIFE STYLE LTD GURUGRAM	
24	Auxiliary Water Tank	M/S-AMIT ENG. MOHALI	
25	Under Slung Water Tank (2X685L)	M/S-AMIT ENG. MOHALI	
26	Under Slung Water Tank (1x450 L)	M/S-SHIVALIK FAST. MOHALI	
27	Health Faucet	M/s-KAPCO VALES JALANDHAR	
28	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
29	Controlled discharge tap	M/s- EAUSET PVT LTD GURGAON	
30	Lavatory Doors	M/s- A.B.COMPOSTE KOLKATA	
31	Seat & Berth	M/S- ANANYA RCC LALGANJ	
32	RFID	NA	

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग

रौंडे 00का 0, रायबरेली (लाहौर)



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Type	LWSCN1	Shell No.	97633			FUR.NO.	LSCN-1379

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, molding window glasses, mirrors, curtain clutch wire etc. (items which 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 d
anship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

वरिष्ठ अभियंता उप मुख्य अभियंता रॉडिओ विभाग आधुनिक रेल डिब्बा कारखाना, रायबरेली	वरिष्ठ यांत्रिक अभियंता/गुणवत्ता SME/AME/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	जोगिन्दर सिंह उप मुख्य अभियंता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli Dy.CQM/MCF/RBL
SSE/QC/MCF/RBL		



Modern Coach Factory Raebareli
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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

TYPE COACH	LWSCN	SHELL/COACH NO	197735/C
RAILWAY	NFR	ELECT.FIT DATE	11-12-2019
FUR.NO	SCN-1379		
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 NON AC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-1542 HT Panel Sr no : AE/USBC-1543	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/08/0103 Sr no.1 : 3632 Sr no.2 : 3636 Srno.CPA: sr no -NIL-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 : RECORD/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD/SALZER	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

(Signature)

**Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli**



Modern Coach Factory Raebareilly
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

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 19805	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2557	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 : MV ELECTRO	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 : 190001-60527-0121	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH 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	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

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

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

