



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/2019-20/1211

RLY	N	F	R	Coach No.	1	9	7	7	2	7	/	C	DATE OF DISPATCH	1	0	-	1	2	-	1	9
DISPATCH TO	Sr.DME/DBRG			Type	L	W	S	C	N	1	Shell No.	9	7	4	5	3	FUR.NO.	LSCN-1369			

- Railway Board's Order No. : 2019/M(C)/142/2, Dated: 21.11-2019
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL
- Special feature: -1.- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018
- 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	1) 1096 (NPPE) 2) 1097 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-MAHAVEER
		Complete	NPP END M/S-MAHAVEER
2.	Lav. side wall	MCF/RBL(CONTRACTOR V4U)	07
		M/S- ATHANY RBL	05
3.	Side wall	M/S- ATHANY RBL	97453
		LAV.1 - LAV.2 -	
4.	End wall	MCF/RBL(CONTRACTOR V4U)	LAV.3 - LAV.4 -
		M/S-DTL PUNE	340/01
5.	Roof	M/S-DTL PUNE	340/02
		MCF/CONT.	---
6.	Centre Buffer Coupler	M/s-FRONTIER LTD	---
		PP END 185P2 NPP END 183P1	154

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm ² . OK	08 Sec. 3.0 kg/cm ² 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	M/s -AXLATA	M/S-EMPRISE	95/94	19.11.19
2.	Insulation			Satisfactory		

SSE
SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
मोडर्न कोच फैक्ट्री, रायबरेली (उत्तरांचल)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191651				191652			
Bogie Type	FIAT				FIAT			
Frame no.	RBL-2050				RBL-2082			
Bolster no.	RBL-2958				RBL-2886			
Axle No	19 N - 5039 RWF				19 N - 5040 RWF			
Wheel Dia	917.515365	917.52	917.505	917.502	917.509	917.483	917.435	917.42
Wheel Disc No	TZ 08-19 74367-9SK3	TZ 08-19 74738-9SK7	TZ 08-19 73579-9SR4	TZ 08-19 74365-9SR3	TZ 07-19 68152-9RR1	TZ 07-19 69453-9RQ3	TZ 07-19 61777-9RN3	TZ 07-19 44001-9RN4
R.B. Nos.	08-19 29563	10-18 40020	08-19 29332	08-19 29408	08-19 29347	08-19 29990	08-19 29874	08-19 29444
CT R B Make	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.	CMAFJ06-19-5101-136	CMFSK05-19-5100-027-595	CMAFJ06-19-5101-138	CMFSK05-19-5100-027-516	CMAFJ06-19-5101-134	CMFSK06-19-5100-027-561	CMFAJ06-19-5101-173	CMFSK06-19-5100-027-428
Compressed Ht. at Tested Load	515	471	515	472	514	470.5	516	472
10Alignment deviation (mm)	5	11	5	11	10	10	10	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	15919,15975	15920,15916
2.	Primary outer Spring	CMFSK	10-19 1100-114 (41,17,7,138)	10-19 1100-114 (144,94,125,131)
3.	Primary Inner Spring	CMFSK	10-19 1101-101 (2122,353,2060,392)	10-19 1101-101 (2113,35,393,394)
4.	Primary Damper	KONIC	03-19 (06971,04879,06332,01383)	03-19 (04221,01382,03934,01341)
5.	Secondary Damper	IAI	09-19 (272786,272754)	09-19 (272908,271759)
6.	Lateral Damper	IAI	05-19 271241	05-19 271397
7.	Brake Cylinder	FAV	L19(022,162,169,100)	L19(612,156,718,646)
8.	Brake Caliper	FAV	L19(817,815,814,816)B	L19(832,830,831,833)B
9.	Brake Disc	FAV	10-19(3837,3991,3928,2480)	10-19(3925,3846,2499,4553)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	GMT/SGA		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	AFW		
17.	Rubber Spring	AFW		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SF	1011,1491,1017,1083	820,887,510,85
22.	Control Arm Lower	SF	371,02,221,371	215,18,16,292
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Signature of SSE/Bogie/QC

महाराष्ट्र विभाग
रेलवे, रायबरेली (लातगंज)



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DISPATCH TO				Sr.DME/DBRG				Type	L	W	S	C	N	1	Shell No.	9	7	4	5	3	FUR.NO.	LSCN-1369

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- ESCORT	
2.	Distribution valve	M/S- ESCORT	2019070028
3.	Pull box	M/S- FAIVELY	2019070028
4.	FIBA	NA	
5.	Foot Step		
6.	Decoupling arrangement	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
7.	Floor board	M/S-ELASTOMER LINING WORKS, MUMBAI	
8.	PVC	M/s-SHREE RAM PNL GOVINDGARH	
9.	Lavatory Inlay	M/S -RESPONSIVE INDS. DEHLI	
10.	UIC Vestibule (PPE)	M/s- SEEMA IND. BHOPAL	
11.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
12.	Gangway bridge mounting (PPE)	M/S-SUNCREST IND.KOLKATA	
13.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
14.	Body Side Window	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
15.	Emergency Window	M/s- FP INDS, KOLKATA	
16.	Hopper Window	M/s-AGF INDS KOLKATA	
17.	Side panel	M/S- SHATABDHI VADODARA + VEDANSH RBL	
18.	Roof ceiling	M/s-WONDER LAMINATE KOLKATA	
19.	Door way ceiling	M/s-ACME INDIA NDLS	
20.	Body Side Doors	M/s-ZAAM TOOLS RBL	
21.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Bio Tanks	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Auxiliary Water Tank	M/S- JSL LIFESTYLE .GURGAON	
25.	Under Slung Water Tank(2X685L)	M/S- AMIT ENG. MOHALI	
26.	Under Slung Water Tank (1X685L)	M/S- SHIVALIK FAST MOHALI	
27.	Controlled Discharge Tap	M/S- SHIVALIK FAST MOHALI	
28.	Flexible Faucet	M/s- EAUSET PVT LTD GURGAON	
29.	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
30.	Lavatory Doors	M/s-KAPCO VALES JALANDHAR	
31.	Seat & Berth	M/s-J.R. JALANDHAR	
32.	RFID	M/S- HINDUSTAN FIBRE GLASS WORKS VADODARA	
		NA	

[Signature]
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
रेलवे कारखाना, रायबरेली (लालगंज)





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DISPATCH TO		Sr.DME/DBRG			Type	L	W	S	C	N	1	Shell No.	9	7	4	5	3	FUR.NO.	LSCN-1369		
13. MODIFICATION (IF ANY)										:										NIL	
14. REMARKS																					

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

16WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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 30 months 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 qualityrcfbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of 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/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ उपायुक्त अभियन्ता
गुणवत्ता विभाग
आधुनिक रेल डिब्बा कारखाना, रायबरेली (उत्तर प्रदेश)

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
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 NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197727/C
RAILWAY	NFR	ELECT.FIT DATE	10-12-2019
FUR.NO	SCN-1369		
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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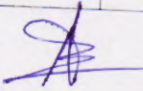
DATE:18.01.2017

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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-1547 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: 2019/08/0024 Sr no.1 : 3441 Sr no.2 : 3410 Srno.CPA: sr no - 2019/08/0016-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: RT VISION	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: 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: RT VISION	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


Senior Section Engineer
Quality control / Electrical
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC 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: 11190620	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2614	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 : 180641-60147-0020	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 : ANANYA	CC 91205	01

वरिष्ठ अनुभाग अभियन्ता SSE/ELT/लालगंज/रायबरेली आधुनिक रेल डिब्बा कारखाना/लालगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, Sr Electrical Engineer/MCF/RBL AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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