



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/2019-20/1225

RLY	N	F	R	Coach No.	1	9	7	7	3	4	/	C	DATE OF DISPATCH	1	1	-	1	2	-	1	9
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DISPATCH TO	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	5	7	7	FUR.NO.	LSCN-1364
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- 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: - 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

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	1) 1105 (NPPE) 2) 1098 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-M.T.F
		NPP END	M/S-M.T.F
	Complete	M/S-M.T.F	
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(CONTRACTOR V4U)
		RH SIDE	MCF/RBL(CONTRACTOR V4U)
4.	End wall	PP END	M/s-DTL PUNE
		NPP END	M/s-DTL PUNE
5.	Roof	M/s-ECBT	
6.	Centre Buffer Coupler	M/S- SANROK	PP END 14596 NPP END 14529

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	- Reduce pressure of BP from 5.0 to 3.4 kg/cm². - 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 -VIBGYOR	(SUPPLY & APPLY)	89/88	11.11.19
2.	Insulation			Satisfactory		

SSB/QC/MCF/RBL
 वरिष्ठ अनुसंधान अभियंता
 गुणवत्ता विभाग
 रेडिओ, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192537				192538			
Bogie Type	FIAT				FIAT			
Frame no.	RBL/LS5-0608				AML-175			
Bolster no.	SECPL-394				SECPL-217			
Axle No	19 P - 1322 RWF		19 L - 5564 RWF		19 N - 9263 RWF		19 P- 1901 RWF	
Wheel Dia	917.44	917.541	917.421	917.516	917.467	917.571	917.49	917.559
Wheel Disc No	TZ 07-19 64217-9RM3	TZ 08-19 75443-9SL0	TZ 08-19 73570-9SL4	TZ 08-19 73569-9SL4	TZ 08-19 71518-9RR5	TZ 07-19 64875-9RM4	TZ 07-19 65835-9RQ0	TZ 08-19 72189-9RS8
R.B. Nos.	08-19 30039	08-19-28307	08-19-29616	08-19-28897	08-19-28867	08-19-29139	08-19-29659	08-19-29152
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.	TAYAL & CO. Sr.NO.19-09 3837	TAYAL & CO. Sr.NO.19-09 3826	TAYAL & CO. Sr.NO.19-09 3772	TAYAL & CO. Sr.NO.19-09 2491

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18156,18142	18141,18147
2.	Primary outer Spring	CMFSK	10-19 1100-114 (1966,367,417,422)	10-19 1100-114 (383,347,396,390)
3.	Primary Inner Spring	CMFSK	10-19 1101-101 (121,265,182,230)	10-19 1101-101 (110,212,10,5179,)
4.	Primary Damper	KONIC	03-19 (02903,04042,01705,03977)	03-19 (03421,04695,04459,04780)
5.	Secondary Damper	IAI	09-19 (272796,272895)	09-19 (272835,722888)
6.	Lateral Damper	KONI	04-19 01574	04-19 02429
7.	Brake Cylinder	ESCORT	(47679,47895,47896,47680)	(47970,47824,47823,47968)
8.	Brake Caliper	ESCORT	(27281,27478,27479,27282)	(27532,27411,27410,27930)
9.	Brake Disc	FAV	10-19-(3844,3843,3160,3159)	10-19-(3040,3039,3905,3908)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT/ARYAN		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN		
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	19,248,125,10	18,78,001,86
22.	Control Arm Lower	RVE	83,583,109,1223	20,63,108,40
23.	Phonic Wheel	KBI	K-10-19	K-04-19

Signature of SSE/Bogie/QC

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०क्र०, रायबरेली (लालमंज)



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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- ESCORTS LTD	2019050163
2.	Pull box	M/S -FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	
3.	Distribution valve	M/S- ESCORTS LTD	1904A109
4.	FIBA	M/S- KBI, FARIDABAD	PP-10339/29
5.	Foot Step	M/s- SUPER SPAR K PVT. LTD. FARIDABAD	NPP-10304/29
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 IND. 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 MATEL WORKS, KAPURTHALA	
13.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
14.	Body Side Window	M/s- A.B.COMPOSTE KOLKATA	
15.	Emergency Window	M/s- A.B.COMPOSTE KOLKATA	
16.	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 Door 1,3	M/s- JVR INDS, LUDHIYANA	
21.	Body Side Door 2,4	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Bio Tank (Pressurized flushing)	M/S- JSL LIFE STYLE LTD. & IMI	
25.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
26.	Under Slung Water Tank(2X685L)	M/S- AMIT ENG. BADDI	
27.	Under Slung Water Tank (1X685L)	M/S- SHIVALIK FAST. MOHALI	
28.	Flexible Faucet	M/s-KAPCO VALES JALANDHAR	
29.	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
30.	Controlled Discharge Tap	M/s- EAUSET PVT LTD GURGAON	
31.	Lavatory Doors	M/s- A.B.COMPOSTE KOLKATA	
32.	Seat & Berth	M/S- ANANYA RCC IND LLJ	
33.	RFID	N/A	

SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)





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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 अभियंता
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

वरिष्ठ यांत्रिक अभियंता/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	197734/C
RAILWAY	NFR	ELECT.FIT DATE	10-12-2019
FUR.NO	SCN-1364		
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-1543 HT Panel Sr no : AE/USBC-1545	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/08/0117 Sr no.1 : 3727 Sr no.2 : 3482 Srno.CPA: sr no -2019/11/0135-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: 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: RT VISION/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 LHBCN(80-BERTHER)Coaches Make : INTRA	CC76289 & CC76443	09

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FOR ELECTRICAL ITEMS

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 : SSK	LW 71002, Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 11190653	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2627	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 : AUTO	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 : 180370-59826-0039	M/s : ESCORT	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 : ANANYA	CC 91205	01

 वरिष्ठ अनुभाग अभियन्ता SSE/EE/QC नियंत्रण 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 / RCF / RBL AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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