



Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

आधुनिक रेल डिब्बा कारखाना, रायबरेली

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/149

RLY	C	R	-	Coach No.	1	9	3	5	3	6	/	C	DATE OF DISPATCH	0	9	-	0	5	-	1	9
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DISPATCH TO	SSE/STOCK/ CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	2	1	FUR.NO.	L3T-1181
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -30 -04-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. 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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1105 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-RAIL TECH	51
		NPP END M/s-RAIL TECH	51
		Complete M/s-RAIL TECH	51
2.	Lav. side wall	M/s-RAIL TECH KXH	LAV.1 --- LAV.2 ---
		M/s-RAIL TECH KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	11/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	11/02
4.	End wall	PP END M/s-OMAX REWARI	---
		NPP END M/s-OMAX REWARI	---
5.	Roof	M/s-DTL	153
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 12241 NPP END 12319

6. 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/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	06 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

7. 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	22.04.19
2.	Insulation			Satisfactory		

विकास अभियंता
SSE/QC/MCF/RBL
रेडिओकार, रायबरेली (मालमंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190431				190432			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-185 (AIR SPIRING)				WIL-190 (AIR SPIRING)			
Bolster no.	MCF/RBL-LS5 - 698				MCF/RBL/LS5 - 726			
Axle No	19 M - 5921 RWF		19 L - 5735 RWF		19 L - 5230 RWF		19 L - 6434 RWF	
Wheel Dia	917.69	917.79	917.68	917.79	917.71	917.80	917.70	917.82
Wheel Disc No	TZ 06-18 26627-8PN9	TZ 07-17 28037-7RK4	TZ 12-18 15894-8XG3	TZ 05-18 19786-8PN4	TZ 06-17 20624-7OP9	TZ 05-18 26264-8MR1	TZ 07-17 27313-7RG6	TZ 07-17 28030-7RH7
R.B. Nos.	05-18 40261	05-18 14663	05-18 28746	06-18 16169	05-18 39472	05-18 14657	05-18 39492	05-18 36984
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AWADH RAIL INFRA LTD Sr.01-19 1146	AWADH RAIL INFRA LTD Sr.01-19 1115	AWADH RAIL INFRA LTD Sr.01-19 1087	AWADH RAIL INFRA LTD Sr.01-19 1103

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18074,18071	18073,18079
2.	Primary outer Spring	CMFSK	03-19 7411-545(728,104,163,183)	03-19 7411-545(1067,772,106,882)
3.	Primary Inner Spring	CMRSK	11-18 04Y(7189,7761,8066,7284)	10-18 04Y(8225,4543,8170,8120)
4.	Primary Damper	KNORR	02-19 (53967,54447,54105,53971)	02-19 (54438,53543,53954,53969)
5.	Secondary Damper	KNORR	12-18 (13500,13646)	12-18 (13492,13505)
6.	Lateral Damper	GABRIEL	11-18 1264	11-18 1266
7.	Brake Cylinder	FAV	C19(351,371,397,353)	C19 (355,398,382,407)
8.	Brake Caliper	FAV	D19(167,166,170,172)B	D19(171,169,282,283)B
9.	Brake Disc	FAV	03-19 (1431,1432,1425,1426)D-133561-300	03-19 (1156,1155,1430,1429)D-133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	ESCORT	1812,1812	1812,1812
17.	Check Valve	ESCORT	1812	1812
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	300119-3,310119-1,010219-4,020219-1	300119-1,310119-2,020219-1,300119-1
22.	Control Arm Lower	RVE	010219-1,230119-2,051218-1,081219-3	080219-2,081218-2,080219-3,030219-1
23.	Phonic Wheel	FAV	FT/KEP/1548	FT/KEP/1548

Signature of SSE/Bogie/QC



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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	C19119B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19035632B
3.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Fiba Device	M/S- KBI, FARIDABAD	PP-4837/29
5.	Foot Step		NPP-4856/29
6.	Decoupling arrangement	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
7.	Floor board	M/S- KOHINOOR KR, MUMBAI	
8.	PVC	M/s- T.W.P.L INDUS. MUMBAI	
9.	UIC Vestibule (PPE)	M/S RESPONSIVE IND.MUMBAI	
10.	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
11.	Gangway bridge mounting (PPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
12.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13.	Body Side Window	M/s- MAHAVEER METAL WORKS, KXH	
14.	Emergency Window	M/s- BIRKON ENGG.GZB	
15.	Lavatory/hopper Window	M/s- BIRKON ENGG.GZB	
16.	Roof Ceiling	M/S- TECH FAB KXH	
17.	Door way /gang way ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
18.	Supply Air Duct	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
19.	Partition panel	M/S- HANSAPAL TRADERS, KXH	
20.	Partition pillar	M/S-RAIL TECH KXH	
21.	Side Wall panel	M/S- SIDHU INTERNATIONAL CO. ORG.(SICO) KXH	
22.	AC Trough	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
23.	Body Side Doors 2,4	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
24.	Body Side Door 1,3	M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG	
25.	Compartment Door (PPE)	M/s- JVR INDS, LUDHIYANA	
26.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
27.	Vestibule Door(PPE)	M/s- KALSI FAB PVT. LTD. LDH	
28.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29.	Bio Tank	M/S- JBM INDUSTRIES, FARIDABAD	
30.	Auxiliary Water Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
31.	Under Slung Water Tank (2X685L)	M/S- MANOJ ENT,MOHALI	
32.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. MOHALI	
33.	Flexible Faucet	M/S- AMIT ENG. MOHALI	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
35.	Bib cock	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
36.	Lavatory Modules 1,2	M/s- JAQUAR PVT.LTD. ALWAR	
37.	Lavatory Modules 3,4	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
38.	Lavatory Doors	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
39.	Fire Extinguisher	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
40.	Seat & Berth	M/S-CAPITAL FIRE.COM.	PPE-07025 ,NPPE-07025
41.	Light Luggage Rack	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
42.	Snack Table	M/S- TECHNO INDS, ALD.	
		M/S- DLJM, NOIDA	

वर्तमान में उपस्थित
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिंक 0, रायबरेली (मालगंज)



अतिरिक्त / रायबरेली



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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

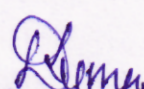

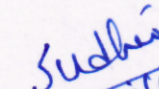
S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months 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 गुणवत्ता विभाग रेडि00410, रायबरेली (नालगंज)	 SME/QC/MCF/RBL वरिष्ठ मंत्रिक/अभियन्ता/गुणवत्ता Senior Mechanical Engg आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	 Dy. CQM/MCF/RBL Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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आधुनिक रेल डिब्बा कारखाना, रायबरेली



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	193536/C
RAILWAY		CR	DATE OF DESPATCH	
Sr no	Description of tests			Remarks
1.0	REFERENCE SPECIFICATION : L 446			
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.			
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01			
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.			
	Observed status : HEALTHY			
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE		OK
3.1	Fresh Air	19.31 Cub mtr/min		OK
3.2	Return Air	71.61 Cub mtr/min		OK
3.3	Exhaust Air	7.26 Cub mtr/min		OK
3.4	Conditioned Air	175.53 Cub mtr/min		OK
4.0	PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition PP Side :21.8 °C NPP Side :22.2 °C			OK
5.0	PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition. Not done			OK

17/5/19
Senior Section Engineer
Quality control / Electrical
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Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : AMIT ENGG. Sr no of RMPU (NPP side): 3376 C Sr no of RMPU (PP side) : 3482 D Sr no of Microprocessor: AE 18.12.097	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : TROLEX Sr no : 181163	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/02/022 Sr no.1 : 19010863 Sr no.2 : 19010879 Sr no.CPA : 2019/02/119-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : CONCORD	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K.LITE	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04
11.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02

17/5/19
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Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
14.	Terminal connector Make : WAGO	EDML 037,Rev`a'	04
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 04.	09
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 05.	09
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item -16.	09
18.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am- 1,2&3	01 set
19.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 02/19	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : TECHNO	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : AECO	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : NEC	As per LW 71002,Alt- F	01

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : ELECTRONIC EQUIPMENT PVT LTD. Sr no: 10180011 Make : BHASIN Sr no: 01196093	EDTS 163,Rev `c` corg.-2&3	02
24.	Provision of 5KVA TFR Make : BHASIN SL.no : 11182901	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-518	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089 LHB-6803	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : SIDWAL	EDTS-328 REV-C	01 set
29.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES.	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 10/19/359	M/s : FAIVELEY	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER	As per EDTS -139, Rev- E ,Sec II.	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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गुणवत्ता नियंत्रण
आरेडिका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
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