



Modern Coach Factory Raebareilly
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/2019-20/1296

RLY	CR	COACH NO	199458/C	DATE OF DISPATCH	21.12.2020
Type	LWACCW	Shell No.	93327	DISPATCH TO	SSE/STOCK/CR/PUNE
				FUR.NO.	L2T(T)-95

- Railway Board's Order No. : 2019/M(C)/142/2, DATED-18.12.2019
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL

4. Special feature:

- Due to fitment of L3T roof in L2T shell, more space available in transverse side
- Extend linen room to accommodate the space NPP end (width 270 mm)
- Height (from floor level to ceiling) raised from 2250mm to 2510mm.
- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.
- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.
- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.
- Provision of sliding cum sleeping berth. (MAKE- M/S- ANANYA RAIL COACH COMPONENTS IND.LLJ)
- 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	4250
4	CBC height/Buffer height from Rail level 1105 +0/-10	NPP /PP 1105/1104

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-MTF	615
		Part NPP END M/S-MTF	553
		Complete M/S-V4U TECHIE	93327
2	Lav. side wall	M/S-R.TECH KXH	LAV.1 LAV.2
		M/S-R.TECH KXH	LAV.3 LAV.4
3	Side wall	LH SIDE MCF/RBL	209/01
		RH SIDE MCF/RBL	209/02
4	End wall	PP END MCF/RBL	
		NPP END MCF/RBL	
5	Roof	MCF 3T	04/26
6	Centre Buffer Coupler	M/S-SANROK ENT.	PP ENI 14171 NPP END 14179

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	BERGER	M/S-BERGER	89/87	10/10/2019
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

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गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	Coach No.	1	9	9	4	5	8	/	C	-	DATE OF DISPATCH	2	1	1	2	2	0	1	9
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DISPATCH SSE/STOCK/CR/PUNE

Type

L

W

A

C

C

W

Shell No.

9

3

3

2

7

FUR.NO

L2T-T-95

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192615				192616			
Bogie Type	FIAT				192616			
Frame no.	RBL -2094				FIAT			
Bolster no.	APEX-71				RBL -1708			
Axle No	19 P-1916 RWF				APEX-60			
Wheel Dia	917.518	917.4	19 F	1355 RWF	917.542	917.448	19 S -3644 RWF	19 S -8568 RWF
Wheel Disc No	TZ 08-19 73934-9SL3	TZ 07-19 69191-9RL6	TZ 08-19 73933-9SL3	TZ 07-19 69197-9RL6	TZ 08-19 73690-9SL7	TZ 08-19 72322-9RQS	TZ 08-19 72323-9RSS	TZ 08-19 74618-9SK7
R.B. Nos.	08-19-29787	10-19-39917	08-19-29950	08-19-29127	08-19-29907	10-19-39718	08-19-29791	08-19-28674
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.	CMFSK11-19-5045-112-164	CMFSK07-19-9545-008-140	CMFSK11-19-5045-112-215	CMFSK07-19-9545-008-59	CMFSK11-19-5045-112-162	CMFSK07-19-9545-008-120	CMFSK11-19-5045-112-169	CMFSK07-19-9545-008-75
Compressed Ht. at Tested Load	510	465.5	510.5	466	511.5	466	512	466
Alignment deviation (mm)	12	10	11	9	10	8	9	7

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	15943,18672	18666,18677
2.	Primary outer Spring	CMAFI	05-19 7411 (406,410,408,404)	05-19 7411 (407,405,403,409)
3.	Primary Inner Spring	CMRSK	01-18 -F02-R91-02Y(2879,2789,2512,3659)	01-18 -F02-R91-02Y (2875,4439,3297,2963)
4.	Primary Damper	KONI	03-19 (06608,08574,06638,08561)	03-19 (04916,04461,04911,04888)
5.	Secondary Damper	KONI	04-19 (05818,05819)	04-19 (05813,5765)
6.	Lateral Damper	IAI	05-19 251354	05-19 251028
7.	Brake Cylinder	KBI	(C1107,89952,89963,81076)K-29	(C1069,89961,89928,81077)K-29
8.	Brake Caliper	KBI	B (7809,7864,7849,7764)K-29	B (7761,7850,7848,7759)K-29
9.	Brake Disc	FAV	10-19-(3134,3142,3903,3904)D-133561-300	10-19-(3902,3901,3869,3872)D-133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	AEW		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	210919-1,210919-1,210919-3,210919-1	210919-1,240919-2,210919-3,210919-1
22.	Control Arm Lower	RVE	210919-3,180919-1,160919-1,190919-1	210919-3,180919-1,210919-3,210919-3
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Note:-

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-ESCORT	
2	Distribution valve	M/S-ESCORT	2019070022
3	Pull box	M/S-KBI	1907A022
4	FIBA	NA	
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S PREMIER POLYFILM, GZB	
9	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
11	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
12	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16	Roof Ceiling	M/S-ALEX OVERSEAS PVT LTD KXH	
17	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JUC	
18	Supply Air Duct	M/S-RAIL COACH ENGG KXH	
19	Partition panel	M/S-RAIL TECH KXH	
20	Partition pillar	M/S-SIDHU INTERNATIONAL KXH	
21	Side Wall panel	M/S- H.F.GLASS VADODARA	
22	AC Trough	M/S-MEENA FIBER (NPP),MSL (PP)	
23	Body Side Doors 1,3,4	M/S- JBM INDUSTRIES, FARIDABAD	
24	Body Side Doors 2	M/S-JVR INDS LDH	
25	Compartment Door (PPE)	M/S-HANSPAL TRADERS KXH	
26	Compartment Door (NPPE)	M/S-HANSPAL TRADERS KXH	
27	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29	RMPU	M/S-AMIT ENGG PKL	
30	Bio Tank	M/S-JSL LIFESTYLE LTD GURGAON	
31	Auxiliary Water Tank	M/S-AMIT ENGG MOHALI	
32	Under Slung Water Tank (2X685L)	M/S-AMIT ENGG BADDI	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG BADDI	
34	Health Faucet	M/S-BAHREEN FIBRE GLASS CHITTOR	
35	Lotah Filler Tap	M/S-JAQUAR PVT,LTD ALWAR	
36	Bib cock	M/S-JAQUAR PVT,LTD ALWAR	
37	Lavatory Modules	M/S-BAHREEN FIBRE GLASS CHITTOR	
38	Lavatory Doors	M/S-BAHREEN FIBRE GLASS CHITTOR	
39	Fire Extinguisher	M/S-DEVIKA FIRE SAFETY	903,906
40	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
41	Seat & Berth	M/S-ANANYA RCC INDS LLJ	
42	Light Luggage Rack	M/S-LUCKY ENT.GURGAON	
43	Snack Table	M/S-DLJM NOIDE	
44	RFID	NA	

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						FUR.NO.	L2T(T)-95

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, 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 qualityrcfbl@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.

[Signature]

SSE/QC/MCF/RBL

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रेडिओका, रायबरेली (लालगंज)

[Signature]

SME/AME/QC/MCF/RBL

Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareilly

[Signature]

Dy. QOM/MCF/RBL

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG 2T AC COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG AC COACHES

TYPE COACH		LWACCW	SHELL/COACH NO		199458/C
RAILWAY	CR	ELECT.FIT DATE	14-12-2019	FUR.NO	2T-T-95
Sr no	Description of tests				Remarks
1.0	REFERENCE SPECIFICATION : L 446				
1.1	AIR CONDITIONING TEST : ELPS/TP/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		19.95 Cub mtr/min		OK
3.2	Return Air		72.32 Cub mtr/min		OK
3.3	Exhaust Air		6.82 Cub mtr/min		OK
3.4	Conditioned Air		161.55 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. Not done due to Ambient temp. below 22°C				----
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.				----

Senior Section Engineer
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ELECTRICAL TEST CERTIFICATE FOR LHB EOG HOG AC COACHES

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	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED	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 Sr no of RMPU 1(NPP side) 4172 J Sr no of RMPU 2(PP side): 4173 J Sr no of Microprocessor: AE 19.11.039	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : NEC SWITCHGEARS Sr no : 2019100580	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2019/11/0352 Sr no.1: 19100170 Sr no.2: 19100187 Srno.CPA: NIL-DR AUTO	As per spec EDTS 186,Rev-a, Am-2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : ECOFIT	EDTS331, TYPE-1 CORR.-1&2	02
05.	Passenger area Light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: RT VOSION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
08.	Emergency light system for EOG type coaches (AEL)Make: INTEG ELECT	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: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04

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Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	26
13.	Reading light for transverse berth (RHS) Make: DEVINTEC ELECT	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	9
15.	Passenger alarm coach indication light Make: KAVERI	LW 76005,Alt-e	02
16.	Razor socket for WC 110/240V. Make: SSK	EDML 047 ,Rev nil	04
17.	Terminal strip Make: WAGO	EDML 033,Rev-c	01
18.	Terminal connector Make: WAGO	EDML 037,Rev`a`	04
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev_C, Item 1.	09
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: SSK	EDML 047,Rev_A ,Item 2.	09
21.	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
22.	PA system for LHB coaches Make : AHUJA	EDTS 173 Rev- a Am-1,2&3	01 set

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 7/19	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: ANKUR	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : ISGPL	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
27.	Regulated battery charger(RBC CUM EBC) Make : PI ENGG.WORKS Sr no: PI-19110207	RDSO/PE/SPEC/AC/0183 (REV '1')	01
28.	5KVA Transformer Make: BHASIN SL.no : 09189937	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make: NEC SWITCHGEARS & CONTROLS SL.no : 2019100627	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-2411	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev`e` Am-2	02 sets
32.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	02
33.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make: ESCORT Sr no : 180370-59826-0045	M/s : ESCORT	01 set
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	00

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

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

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

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