



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/2019-20/122

RLY	C	R	-	Coach No.	1	9	3	4	6	6	/	C	DATE OF DISPATCH	3	0	-	0	4	-	1	9
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DISPATCH TO	SSE/STOCK/ CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	8	2	FUR.NO.	L3T-1170
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -03 -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) 1101 (NPPE) 2) 1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

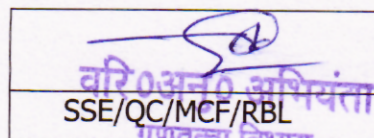
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END	M/s-DTL
		NPP END	M/s-DTL
		Complete	M/s-DTL
2.	Lav. side wall	M/s-DTL PUNE	LAV.1 --- LAV.2 ---
		M/s-DTL PUNE	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE	M/s-DTL PUNE
		RH SIDE	M/s-DTL PUNE
4.	End wall	PP END	M/s- OMAX REWARI
		NPP END	M/s- OMAX REWARI
5.	Roof	M/s-DTL PUNE	146
6.	Centre Buffer Coupler	M/S- SANROK ,FARIDABAD	PP END 12273 NPP END 10775

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	07 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-AXALATA	SUPPLY & APPLY	90/89	16.04.19
2.	Insulation	Satisfactory				



SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिओका, रायबरेली (लालगंज)



MCF/RBL



MODERN COACH FACTORY, RAEBARELI

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DISPATCH	SSE,STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	8	2	FUR .NO	L3T-1170
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190426				190425			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-113 (AIR SPIRING)				WIL-117 (AIR SPIRING)			
Bolster no.	MCF/RBL-LS5 - 671				MCF/RBL-LS5 - 708			
Axle No	19 M - 9694 RWF		19 M - 2977 RWF		19 L - 6004 RWF		19 M - 3468 RWF	
Wheel Dia	917.608	917.817	917.585	917.828	917.614	917.812	917.637	917.827
Wheel Disc No	TZ 12-18 19694-8WS6	TZ 12-18 18061-8WP9	TZ 10-18 02553-8WG9	TZ 10-18 02550-8WM7	TZ 12-18 16997-8WM1	TZ 12-18 16511-8WQ8	TZ 05-18 19280-8PQ2	TZ 12-18 12468-8XG3
R.B. Nos.	05-18 29203	07-18 41391	05-18 13933	07-18 41399	05-18 29207	05-18 39638	05-18 28276	05-18 39654
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 1152	AWADH RAIL INFRA LTD Sr.01-19 1151	AWADH RAIL INFRA LTD Sr.01-19 1107	AWADH RAIL INFRA LTD Sr.01-19 1129

10. TRACEABILITY 9OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	16139,18084	18070,18075
2.	Primary outer Spring	CMFSK	03-19 7411-545(79,677,749,833)	03-19 7411-545(1062,742,789,828)
3.	Primary Inner Spring	CMRSK	11-18 04Y(6830,7737,8009,7775)	10-18 04Y(8454,8027,7783,8740)
4.	Primary Damper	KNORR	02-19 (54932,53323,53325,54925)	02-19 (54887,54926,54930,53327)
5.	Secondary Damper	KNORR	12-18 (13177,13573)	12-18 (13564,13156)
6.	Lateral Damper	IAI	11-18 229313	11-18 229425
7.	Brake Cylinder	FAV	C19(466,379,349,323)	C19 (321,348,273,445)
8.	Brake Caliper	FAV	D19(039,037,026,028)B	D19(027,025,025,140)B
9.	Brake Disc	FAV	03-19 (1561,1562,1566,1568)D-133561-300	03-19 (2453,2454,2451,2450)D-133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction lever	MGN		
15.	Ball joint traction centre	PPI		
16.	Leveling Valve	KNORR	01-19 A 1152,1151	12-19 A 1317,A 1333
17.	Check Valve	KNORR	03-19 17307	03-19 17304
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ PPI/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	010119-1,010219-1,010219-3,011218-2	290119-4,010219-1,010219-1,010219-1
22.	Control Arm Lower	RVE	280119-1,RVE,091218-3,071218-1	070219-1,311218-3,RVE,010119-1
23.	Phonic Wheel	FAV	FT/KEP/1548	FT/KEP/1548

Signature of SSE/Bogie/QC



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DISPATCH TO	SSE/STOCK/ CSTM		Type	L	W	A	C	C	N	Shell No.	9	3	0	8	2	FUR.NO.	L3T-1170				

11. TRACEABILITY OF FURNISHING ITEMS:

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)	L 19160B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19035682B
3.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
6.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S-KRP PUNE	
9.	UIC Vestibule (NPPE)	M/S-KRP PUNE	
10.	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
11.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
12.	Body Side Window	M/s- BIRKON ENGG.GZB	
13.	Emergency Window	M/s- BIRKON ENGG.GZB	
14.	Lavatory/hopper Window	M/S- TECH FAB KXH	
15.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
16.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
17.	Supply Air Duct	M/S- HANSAL TRADERS, KXH	
18.	Partition panel	M/S-RAIL TECH KXH	
19.	Partition pillar	M/S- J.R. INDUSTRIES LTD. JALANDHAR	
20.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
21.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
22.	Body Side Doors 1,2,3	M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG	
23.	Body Side Door 4	M/s- JVR INDS, LUDHIYANA	
24.	Compartment Door (PPE)	M/S- HANSAL TRADERS, KXH	
25.	Compartment Door (NPPE)	M/S- HANSAL TRADERS, KXH	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
29.	Auxiliary Water Tank	M/S- MANOJ ENT,MOHALI	
30.	Under Slung Water Tank (2X685L)	M/S- RAIL FAB KXH	
31.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
32.	Flexible Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
33.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
34.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
35.	Lavatory Modules	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
36.	Lavatory Doors	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
37.	Fire Extinguisher	M/S- TRADE FIRE ENGG.	PPE-6926 ,NPPE-6961
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
39.	Light Luggage Rack	M/S- TECHO INDS, ALD.	
40.	Snack Table	M/S- DLJM, NOIDA	

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SSE/QC/MCF/RBL

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DISPATCH TO	SSE/STOCK/ CSTM			Type	L	W	A	C	C	N	Shell No.	9	3	0	8	2	FUR.NO.			L3T-1170	
12. MODIFICATION (IF ANY)											Nil										

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	SME/QC/MCF/RBL ज्योतिन्दर सिंह Senior Mechanical Engineer/Quality	Dy.CQM/MCF/RBL ज्योतिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager

रेडिओका, रायबरेली (लालगंज)

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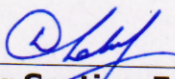
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES				
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	193466/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	19.96 Cub mtr/min		OK
3.2	Return Air	59.53 Cub mtr/min		OK
3.3	Exhaust Air	7.04 Cub mtr/min		OK
3.4	Conditioned Air	162.41 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			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 due to Ambient temp. below 22°C			OK


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FOR ELECTRICAL ITEMS

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ELECTRICAL TEST CERTIFICATE FOR LHB EOG 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	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): 3246 A Sr no of RMPU (PP side) : 3245 A Sr no of Microprocessor: AE 19.03.306	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : TROLEX Sr no : NIL	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/02/078 Sr no.1 : 19020014 Sr no.2 : 19020023 Sr no.CPA : 2019/02/136-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 : DR AUTO	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: RT VISION	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 : CMT	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

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : AMARA RAJA Lug date : 09/18	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : NIL	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 : INTEG	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 : BHASIN Sr no: 03190117 Make : BHASIN Sr no: 03190131	EDTS 163,Rev 'c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : BHASIN SL.no : 11182887	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-590	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089 LHB-4536	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 : 48/18/2010	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	AWM(ELECT.)/MCF/RBL
SEE(P)/MCF/RBL	

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S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
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A.W.M./Electrical/MCF/RBL