



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/2018-19/1262

RLY	C	R	-	Coach No.	1	9	2	0	4	3	/	C	DATE OF DISPATCH	2	7	-	0	2	-	1	9
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DISPATCH TO	SSE(STOCK)/CSTM	Type	L	W	A	C	C	N	Shell No.	8	3	4	4	6	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2, dated -22 -02-2019
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) 1103 (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, KXH
		NPP END	M/s-RAIL TECH, KXH
		Complete	M/s-RAIL TECH, KXH
2.	Lav. side wall	M/S- COMPETANT ENG. JUC	LAV.1 --- LAV.2 ---
		M/S- COMPETANT ENG. JUC	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 -RSM, MOHALI
		NPP END	M/S -RSM, MOHALI
5.	Roof	M/s -INDIRA, RENIPET, CHENNAI	146
6.	Centre Buffer Coupler	M/s- FRONTIER LTD.	PP END 130P2 NPP END 84P2

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	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

7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-BERGER	SUPPLY & APPLY	90/89
2.	Insulation			Satisfactory	

Rama
SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रेडिंका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI
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RLY	C	R	-	-	Type	L	W	A	C	C	N	Shell No.	8	3	4	4	6	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

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ITEMS	NPP Side				PP Side			
Bogie No	181762				181761			
Bogie Type	LWACCN				LWACCN			
Frame no.	WIL-105				WIL-102			
Bolster no.	AMIT - 103				AMIT-96			
Axle No	17 D - 1585 RWF		17 D - 1416 RWF		18 F - 8572 RWF		17 D - 2603 RWF	
Wheel Dia	917.526	917.511	917.556	917.556	917.542	917.614	917.584	917.624
Wheel Disc No	TZ-04-18 15998-8MT2	TZ-05-18 17005-8MS7	TZ-05-18 21462-8PR1	TZ-04-18 15997-8MT2	TZ-05-18 20042-8MT8	TZ-07-18 37972-8RR1	TZ-06-18 22198-7QP4	TZ-06-18 22192-7QP4
R.B. Nos.	06-18 16215	07-18 41754	06-18 16977	07-18 41748	05-18 14290	06-18 16865	07-18 41124	05-18 13992
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	TAYAL& CO.	TAYAL&CO.	TAYAL&CO.	TAYAL&CO.
	Sr.NO18-08 830	Sr.NO18-08 836	Sr. NO 18-08 848	Sr. NO 18-08 838

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12969,12966	12972,12971
2.	Primary outer Spring	CMRSK	08-18 03Y (5938,5701,5690,5671)	08-18 03Y (5490,5190,5485,5986)
3.	Primary Inner Spring	CMRSK	11-18 04Y (7154,4198,4417,4302)	11-18 04Y (5961,6739,5646,4818)
4.	Primary Damper	KNORR	12-18(47463,47459,47341,47468)	12-18(47234,47306,47450,47307)
5.	Secondary Damper	IAI	12-18 (230813,230799)	12-18 (231179,231062)
6.	Lateral Damper	GEREP	16-2018 301550559	16-2018 301550559
7.	Brake Cylinder	FAV	(L18-308,M18-031,380,K18-135)	(L18-242,M18-402,M18-033,L18-311)
8.	Brake Caliper	FAV	N18(399,398,361,404)B	N18(463,462,397,400)B
9.	Brake Disc	KBI	24162516 0031-48/18,24162516 0032-42/18 24162516 0041-42/18,24162516 0042-42/18	24164687 0022-42/18,24164009 0019-42/18 24164609 0020-42/18,24167538 0026-44/18
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 Vale	ESCORT	1805,1806	1805,1806
17.	Check Vale	ESCORT	1806	1806
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	261118-2,011218-1,051218-1,051218-1	301118-1,381118-4,071218-1,051218-3
22.	Control Arm Lower	RVE	051218-3,281118-2,051218-4,281118-4	271118-2,RVE,RVE,081218-4
23.	PHONIC WHEEL.	FAV	FT/KEP/1172	FT/KEP/1172

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)	N 18092 B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18105546 B
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-ELASTOMER LINING WORKS, MUMBAI	
9.	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
10.	Gangway bridge mounting (PPE)	M/S- HARE KRISHNA COACH PRODUCT,KXH	
11.	Gangway bridge mounting (NPPE)	M/S- HARE KRISHNA COACH PRODUCT,KXH	
12.	Body Side Window	M/S- BIRCON ENG. IND. PVT. LTD. GZB	
13.	Emergency Window	M/S- AIKON IND.SOLAN H.P	
14.	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Roof Ceiling	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
16.	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
17.	Supply Air Duct	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Partition panel	M/S- HONEY LITE PVT.LTD. BANGALORE	
19.	Partition pillar	M/s- RAIL TECH ,KXH	
20.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
21.	AC Trough	M/s-MSL (MOBILITY SOLUTION LTD.)	
22.	Body Side Door	M/S- JVR INDUSTRIES ,LDH	
23.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
24.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Vestibule Door(PPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
27.	Bio Tank	M/s- RAIL FAB, KXH	
28.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
29.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG, BADDI	
31.	Flexible Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
32.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
33.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
34.	Lavatory Modules 1,2	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
35.	Lavatory Modules 3,4	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
36.	Lavatory Doors	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
37.	Fire Extinguisher	M/S- CAPITAL FIRE WORKS , HR	PPE-6648 NPPE- 6635
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
39.	Light Luggage Rack	M/S- TECHO INDS, ALD.	
40.	Snack Table	M/s- INTERNATIONAL TRACTOR LTD. JALANDHAR	

[Signature]
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DISPATCH TO	SSE(STOCK)/CSTM			Type	L	W	A	C	C	N	Shell No.	8	3	4	4	6	-	2	0	1	8	-	1	9

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 qualityrcfrbl@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 वरिष्ठ गुणवत्ता अधिकारी गुणवत्ता विभाग रेडिफा, रायबरेली (लालगंज)	SME/QC/MCF/RBL असिस्टेंट मेकानिकल इंजीनियर / गुणवत्ता-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.COM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

ANNEXURE- A

MODERN COACH FACTORY, RAEBARELI

Special Design features in **SMART coach**. variants.

- 1) Passenger interface
 - a) Passenger announcement
 - b) Passenger Information
- 2) On board condition monitoring system (OBCMS)
 - a) Health of bearing, wheel, axle, suspensions & track.
 - b) Self Harvesting vibration sensor
- 3) Monitoring of other sub-systems.
 - a) Digital water level indicator.
 - b) Wi-Fi based infotainment system
- 4) Security and surveillance system
 - a) CCTV surveillance system
 - b) Emergency talk back



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH		LWACCN	SHELL/COACH NO	192043/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	19.89 Cub mtr/min		OK
3.2	Return Air	67.38 Cub mtr/min		OK
3.3	Exhaust Air	7.04 Cub mtr/min		OK
3.4	Conditioned Air	164.50 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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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): 3229 A Sr no of RMPU (PP side) : 3157 A Sr no of Microprocessor: AE 19.01.118	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : TROLEX Sr no : 18/169	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA : 7430/8/18 Sr no.1 : 296849 Sr no.2 : 296850 Sr no.CPA : 7402/08/18-KALSI	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: 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 : KAVERI	LW 76005,Alt-e	02

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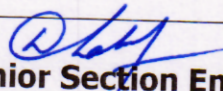
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : 04/17	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 : INTEG	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 : BHASIN Sr no: 01196066 Make : ELECTRICAL INDUSTRIES Sr no: 3266/12/2018	EDTS 163,Rev 'c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : BHASIN SL.no : 11182950	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-474	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-7167	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 : AECO	EDTS-328 REV-C	01 set
29.	Wheel set earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 32/18/1247	M/s : FAIVELEY	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGERATION	As per EDTS -139, Rev- E ,Sec II.	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आरेडिका / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आरेडिका / रायबरेली A.W.M./Electrical/MCF/RBL
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