

637-943



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/459

RLY	N	R	-	Coach No.	1	8	1	2	6	3	/	C	DATE OF DISPATCH	3	1	-	0	8	-	1	8
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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	A	C	C	N	Shell No.	8	3	1	4	9	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M/(C)/142/2 dated -27-08-2018

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) 1104 (NPPE) 2) 1100(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/s Shivalic fastners pvt.ltd. mohali
			NPP END M/s Shivalic fastners pvt.ltd. mohali
		Complete	M/s Shivalic fastners pvt.ltd. mohali
2.	Lav.side wall	M/S JSL COMP	LAV.1 - LAV.2 -
		M/S JSL COMP	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 P.D.STEEL
		NPP END	M/S P.D.STEEL
5.	Roof	MCF/RBL	49
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 5493 NPP END 5696

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
1.	Paint	P.U	M/S -GS	SUPPLY & APPLY	92/91
2.	Insulation			Satisfactory	

Rama
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लाभगंन)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	N	R		-	Type	L	W	A	C	C	N	Shell No.	8	3	1	4	9	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181258				181257			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-1008				MCF/RBL-1248			
Bolster no.	AMIT-532				AMIT-313			
Axle No	18 F-7479 RWF		18F- 7827 RWF		18 F - 8411 RWF		N -6555 RWF	
Wheel Dia	917.512	917.456	917.527	917.432	917.535	917.444	917.498	917.393
Wheel Disc No	TZ-05-18 17712-8MP9	TZ-05-18 17070-8MV8	TZ-05-18 17055-8MS7	TZ-04-18 13052-8MQ4	TZ-05-18 17068-8MS1	TZ-05-18 17709-8MP9	TZ-05-18 17066-8MS5	TZ-05-18 17721-8MT7
R.B. Nos.	11-17 19572	11-17 22434	11-17 24851	01-18 10935	01-18 27765	01-18 10129	01-18 27655	01-18 10125
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	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMAFJ07-18-8836-9	CMFSK07-18-9513-401-308	CMAFJ07-18-8836-12	CMFSK07-18-9513-401-282	CMAFJ07-18-8836-32	CMFSK07-18-9513-401-158	CMAFJ07-18-8836-29	CMFSK07-18-9513-401-23
Compressed Ht. at Tested Load	512	464	512	463	515	466.5	515	463
Alignment deviation (mm)	16	7	15	7	15	10	12	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	8896,8916	8915,8894
2.	Primary outer Spring	RSK/CMRSK	07-18 - 03Y(109,523,1106,679)	07-18 03Y(163,837,730,170)
3.	Primary Inner Spring	CMFSK	04-18 7143-404(776,812,967,851)	05-18 143-59-(453,467,288,403)
4.	Primary Damper	KNORR	07-18(28057,28022,28028,28034)	07-18(28008,28071,28009,28043)
5.	Secondary Damper	KNORR	07-18 5763,05-18 4475	07-18(5785,5790)
6.	Lateral Damper	KNORR	06-18 4283	06-18 4284
7.	Brake Cylinder	KBI	A(6875,6267,6275,6376)K29	A(6880,6272,5901,6510)K29
8.	Brake Caliper	KBI	A(5165,5199,5158,5163)-29	A(5164,3196,5163,4921)-29
9.	Brake Disc	KBI	24147854 0004-26/18,24147653 0026-26/18 24147649 0053-26/18,24147650 0031-26/18	24147651 0056-26/18,24147653 0008-26/18 24147653 0029-26/18,24147653 0027-26/18
10.	Ball Joint Control Arm	PRAG		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SF		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR,		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	250718-2,250718-2, RVE, RVE	230718-3,250718-2,230718-3,230718-3
22.	Control Arm Lower	RVE	RVE,270718-3, RVE,270718-3	RVE,200718-3,170718-2,250718-3

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 KBI Faridabad. New Delhi	1274 29/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018 G 5552
4.	Foot Step	M/s HITECH INER AVENTUROS PVT. LTD. RBL	
5.	Decoupling arrangement	M/s KOHINOOR MUMBAI	
6.	Floor board	M/s TWPL .mumbai	
7.	PVC	M/s RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/s ELASTOMER MUMBAI	
9.	UIC Vestibule (NPPE)	M/s ELASTOMER MUMBAI	
10.	Gangway bridge mounting (PPE)	M/s Rakesh iron store KXH	
11.	Gangway bridge mounting (NPPE)	M/s Rakesh iron store KXH	
12.	Body Side Window	M/s Birkan engg.pvt.ltd. GAZIABAD	
13.	Emergency Window	M/s Birkan engg.pvt.ltd. GAZIABAD	
14.	Lavatory/hopper Window	M/s Birkan engg.pvt.ltd. GAZIABAD	
15.	Roof Ceiling	M/s Hindustan fibre ltd ,vadodara	
16.	Door way /gang way ceiling	M/s Amirchand engg.works Jalandhar	
17.	Supply Air Duct	M/s AMIT ENGG. PANCHKULA	
18.	Partition panel	M/s UNIVERSAL MTAL TEK, NOIDA	
19.	Partition pillar	M/s JR IND., Jalandhar	
20.	Side Wall panel	M/s Hindustan fibre ltd ,vadodara	
21.	AC Trough	M/s AISHANA (PP),MSL(NPP)	
22.	Body Side Door 1,3,4	M/s JVR INDUSTRIES LTD.LDH	
23.	Body Side Door 2,	M/s Sukata Tractor parts pvt.ltd. CDG	
24.	Compartment Door (PPE)	M/s KALSI FAB PVT. LTD.	
25.	Compartment Door (NPPE)	M/s KALSI FAB PVT. LTD.	
26.	Vestibule Door(PPE)	M/s JBM, Faridabad	
27.	Vestibule Door(NPPE)	M/s JBM, Faridabad	
28.	Bio Tank	M/s Amit Engg,BADDI	
29.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
30.	Under Slung Water Tank (2X685L)	M/s Amit Engg, MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/s Amit Engg, Mohali	
32.	Flexible Faucet	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
33.	Lotah Filler Tap	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
34.	Bib cock	M/s JAQUAR PVT. LTD ALWAR	
35.	Lavatory Modoules	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
36.	Lavatory Doors	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
37.	Fire Extinguisher	M/s MERCUREY FIRE MUMBAI	NPP-1814,PP-1811
38.	Seat & Berth	M/s Oriental veneer products mumbai	
39.	Light Luggage Rack	M/s- Techno ind. ALD	
40.	Snack Table	M/s- MACHINO PLASTIES LTD. GURGAON	

[Signature]
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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	A	C	C	N	Shell No.	8	3	1	4	9	-	2	0	1	8	-	1	9
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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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.

V. R. Singh	G. S. Pandey	Joginder Singh
SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

मुख्य विभाग
रेडिओका, रायबरेली (लालगंज)

सहायक यंत्रिक अभियंता / मुख्य
Assistant Mechanical Engineer
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

उप मुख्य गुणवत्ता प्रबंधक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
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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	181263/C
RAILWAY		NR	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	28.94 Cub mtr/min		OK
3.2	Return Air	66.50 Cub mtr/min		OK
3.3	Exhaust Air	8.14 Cub mtr/min		OK
3.4	Conditioned Air	156.39 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 :21.9 °C NPP Side :22.1 °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

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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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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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): 2795-G Sr no of RMPU (PP side) : 2804-G Sr no of Microprocessor: AE-18.07.775	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : TRINITRON Sr no : TCS/RBL/3407/0184/002	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA : 6956/03/2018 Sr no.1 : 289065 Sr no.2 : 289066 Sr no.CPA : 7035/04/2018	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: DR AUTO	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 : MAAVE ELECT.	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : NIL	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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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 : 06/17	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : TECHNO INDUSTRIES	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 : SSK	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 : WAVES Sr no: WEBCF-184515 Make : WAVES Sr no: WEBCF-184479	EDTS 163,Rev 'c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC-3089-LHB-424	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : STANDARD CAPACITORS SL.no : 18C-466	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : AUTOMATIC Elect Ltd Sr no : 8/17/T509927/73	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS)coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
29.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118175437	M/s : KNORR	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : ZUMAX	As per EDTS -139, Rev- E ,Sec II.	01

<p>वसिष्ठ अनुमति अभियन्ता SSE/EL/QC मुख्य विद्युत निरीक्षण आधुनिक रेल डिब्बा कारखाना / रायबरेली / रायबरेली S.S.Elect-QC/M.C.F./LJ/RBL</p>	<p>वसिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ SEE(R)/MCF/RBL/ DYCEE/P&P/MCF/RBL</p>
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