



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/2018-19/588

RLY	N	C	R	Coach No.	1	8	0	9	5	/	C	-	DATE OF DISPATCH	2	9	-	0	9	-	1	8
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DISPATCH TO	Sr.CDO/AF	Type	L	W	A	C	C	W	Shell No.	8	2	0	2	3	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M(C)/142/2 Dated- 16.04.18
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1)1103 (NPPE) 2)1101 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part	PP END M/S Omax auto gurgaon HR	42
		NPP END M/S Omax auto gurgaon HR	41
	Complete	MCF/RBL	82023
2.	Lav.side wall	MCF/RBL CONTRACTOR V4U	LAV.1 77 LAV.2 78
		MCF/RBL CONTRACTOR V4U	LAV.3 79 LAV.4 80
3.	Side wall	LH SIDE MCF/RBL	23
		RH SIDE MCF/RBL	23
4.	End wall	PP END M/S Rail tech pvt.ltd. KXH	---
		NPP END M/S Rail tech pvt.ltd. KXH	---
5.	Roof	M/S DTL ancillaries ltd pune	---
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 5421 NPP END 5665

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	08sec. 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 DAETAILS:

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	89/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, रायबरेली (नालय)



MODERN COACH FACTORY, RAEBARELI

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RLY	N	C	R	Type	L	W	A	C	C	W	Shell No.	8	2	0	2	3	-	-	-	-	-	-	-	-
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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181323				181324			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-988				VS-1198			
Bolster no.	SFPL-169				AMIT-655			
Axle No	18 D-8001 RWF		18 F-0074 RWF		17D-2738 RWF		18 D-8168RWF	
Wheel Dia	917.706	917.611	917.628	917.631	917.672	917.579	917.63	917.71
Wheel Disc No	TZ-04-18 12269-8MN8	TZ-04-18 16052-8MT7	TZ-04-18 12327-8MN8	TZ-05-18 16886-8MV8	TZ04-18 11971-8NG7	TZ04-18 15691-8MT1	TZ04-18 13696-8MW0	TZ04-18 12471-8MX6
R.B. Nos.	04-18 24628	04-18 26301	01-18 10792	01-18 29941	02-18 15920	04-18 24005	04-18 24620	05-18 37172
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.	CMRSK07-16F18LS5-413	CMRSK07-18-9513-401-153	CMRSK06-16F18LS5-748	CMRSK07-18-9513-401-338	CMRSK06-16F18-R18-005	CMFSK07-18-9513-401-232	CMRSK06-16-F18-LS5-373	CMFSK05-18-9613-383-84
Compressed Ht. at Tested Load	509	468	509	464.5	511	465.5	511	467
Alignment deviation (mm)	10	11	10	11	11	9	11	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	66,72	71,79
2.	Primary outer Spring	RSK	07-18 03Y(632,835,629,781)	07-18 03Y(270,148,476,1161)
3.	Primary Inner Spring	RSK	06-18 02Y(3213,4854,2389,4851)	06-18 02Y(4626,4834,4672,4889)
4.	Primary Damper	KNORR	05-18(19444,19443,19447,19445)	05-18(19449,19448,19442,19446)
5.	Secondary Damper	KNORR	06-18 (5109,5106)	06-18 (5099,5112)
6.	Lateral Damper	KNORR	06-18 3893	06-18 3891
7.	Brake Cylinder	FAV	F18-450,F18-614,G18-033,D18-032	G18-189,G18-287,F18-613,D18-008
8.	Brake Caliper	FAV	H18(560,557,538,539)B	H18(584,581,558,559)B
9.	Brake Disc	FAV	03-18(2930,2931),08-18(1091,890) D133561-300	08-18(234,235,830,225) D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	J.I		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	EMSON/SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	230718-3,	230718-3,230718-3,190618-2,240718-1
22.	Control Arm Lower	RVE	060718-1,210718-1,200718-1,RVE	060718-1,270718-2,RVE,030718-3

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 Faively transport tech.india ltd baddi(HP)	D18026 B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045528B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	Foot Step	M/s HI TECH RBL	
5.	D-coupling arrangement	M/s ELASTOMER MUMBAI	
6.	Floor board	M/s NARMADA FOREST PVT. LTD. BHOPAL	
7.	PVC	M/s RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/s-Suncrest ind. kolkata	
9.	UIC Vestibule (NPPE)	M/s-Suncrest ind. kolkata	
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.	Hopper Window	M/s Aikon ind.salon H.P	
15.	Roof Ceiling	M/s KAL ENGG. PVT.LTD. U.K.	
16.	Door way /gang way ceiling	M/s JR Industries Jalandhar	
17.	Supply Air Duct	M/s Amirchand engg.works Jalandhar	
18.	Partition panel	M/s RAIL TECH, KXH	
19.	Partition pillar	M/S RAIL FAB, KXH	
20.	Side Wall panel	M/s Hindustan fibre ltd vadodara	
21.	AC Trough	M/s MSL CDG, (NPP) M/s KAL ENGG.(PP)	
22.	Body Side Doors 1,2,3	M/S- JVR INDUSTRIES ,LDH	
23.	Body Side Doors 4	M/s SUKATA CDG	
24.	Compartment Door (PPE)	M/s KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/s JBM INDS. Faridabad	
27.	Vestibule Door(NPPE)	M/s JBM INDS. Faridabad	
28.	Bio Tank	M/s FLASH FORGE LTD VIZAG	
29.	Auxiliary Water Tank	M/s Manoj Engineering, Mohali	
30.	Under Slung Water Tank(1x450 L)	M/s Shivalic fastners pvt.ltd. mohali	
31.	Under Slung Water Tank (2X685L)	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 KPR IND.	
35.	Lavatory Modules	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- SAFE PRO	PP-2465,NPP-1788
38.	Seat & Berth	M/s ANANYA RCC IND LLJ/RBL	
39.	Light Luggage Rack	M/s Techno Industries Allahabad	
40.	Snack Table	M/s- MACHINO PLASTIES LTD. GURGAON	

विकास
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रेडिंक 00, रायबरेली (लालगज)



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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.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.COM/MCF/RBL

रेडि०का०, रायबरेली (बालगंज)



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCW	SHELL/COACH NO	18095/C
RAILWAY		NCR	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	16.58 Cub mtr/min		OK
3.2	Return Air	44.70 Cub mtr/min		OK
3.3	Exhaust Air	5.91 Cub mtr/min		OK
3.4	Conditioned Air	160.59 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 :22.1 °C NPP Side :22.0 °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

Senior Section Engineer
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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	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 R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T 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 1(NPP side): 2869-H Sr no of RMPU 2(PP side): 2864-H Sr no of Microprocessor: AE-1808842	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-17-11-0085	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 7312/7/18 Sr no.1: 294524 Sr no.2: 294525 Srno.CPA: 2018/09/043-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: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
08.	Emergency light system for EOG type coaches (AEL)Make: VGS	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make: ARHAM	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

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Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: AGASTYA/DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	26
13.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	9
15.	Passenger alarm coach indication light Make: DR AUTO	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 : 08/18	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: ANKUR ENGG.	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
27.	Emergency battery charger Make : M.B & COMP. Sr no: 2017/12/645 Make : M.B & COMP. Sr no: 2017/12/597	EDTS 163,Rev `c' corg.-2&3	02
28.	5KVA Transformer Make: VIMAL SL.no : -200	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make: S.INTERNATIONAL SL.no : 267-01/18	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : 4725	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 : ISG	EDTS-328 REV-C	02
33.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 03/18/189	M/s : FAIVELEY	01 set
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आधुनिक रेल डिब्बा कारखाना / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr Electrical Engineer / RCF / RBL / Lucknow
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