



# 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/2018-19/270

Coach No.		1	8	0	5	4	/	C	-	DATE OF DISPATCH					1	1	-	0	7	-	1	8			
RLY	N	W	R	-	Type	L	W	A	C	C	W	Shell No.	8	2	0	0	3	-	2	0	1	8	-	1	9

- 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)1095 (NPPE) 2)1095 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part M/S Neera chandigarh	PP END 45 NPP END 49
		Complete M/s MCF/RBL	
2.	Side wall	M/s MCF/RBL	RH 82003 LH 82003
3.	End wall	PP END M/S P.D.steel	PP END 82003 NPP END 82003
		NPP END M/S Rail tech pvt.ltd. KXH	
4.	Roof	M/s MCF/RBL	
5.	Centre Buffer Coupler	M/S Dellnar INDIA PVT LTD.	PP END 2066 NPP END 2068
6.	Buffers	N.A.	

**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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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 -GS	SUPPLY & APPLY	90/86
2.	Insulation			Satisfactory	

परि०/अने०-अभियंता  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग

रे०डि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180806				180805			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL -960				MCF/RBL -0973			
Bolster no.	APEX-50				MCF/RBL -1594			
Axle No	17 W-2497 RWF		17 W -3524 RWF		17 W- 2444 RWF		17 W -3552RWF	
Wheel Dia	917.489	917.491	917.397	917.43	917.39	917.455	917.413	917.461
Wheel Disc No	TZ-05-17 15169-70P6	TZ 05-17 12969-70L4	TZ 05-17 16879-70P7	TZ 05-17 16878-70P7	TZ-05-17 16881-70P7	TZ 05-17 16880-70L7	TZ 03-17 06972-7NK5	TZ 03-17 06974-7NK5
R.B. Nos.	06-17 18132	06-17 24714	06-17 81106	06-17 25249	06-17 81072	06-17 18176	06-17 81338	06-17 24751
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.	RSK05-18- F18R96-18Y-310	CMFSK02-18- 9513-383-32	RSK05-18- F18R04-18Y-914	CMFSK02-18- 9513-383-129	RSK05-18F18R03- 18Y-336	CMFSK02-18- 9513-383-92	RSK05-17F 18R0618Y-599	CMFSK02-18-9513- 383-4
Compressed Ht. at Tested Load	510	468	509	465	512	467	573	468
Alignment deviation (mm)	16	10	16	10	22	13	23	13

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	SV	451,322	363,393
2.	Primary outer Spring	CVFSK	04-18 7411-357(366,11,158,35)	04-18 7411-357(99,167,74,266)
3.	Primary Inner Spring	RSK	05-14( 655,389,445,520)-1702	05-14(453,260,247,387)-1702
4.	Primary Damper	KNORR	12-17(13398,13917,14247,13320)	12-17 13924,11-17 13778,12-17(13327,13243)
5.	Secondary Damper	KNORR	02-18 (3559,3561)	02-18(3603,3593)
6.	Lateral Damper	IAI	01-18 196049	01-18 198525
7.	Brake Cylinder	KBI	A(5442,5034,5096,5497)-K29	A(5436,5035,5028,5435)K29
8.	Brake Caliper	KBI	A(3967,4030,4103,4023)-29	A(3966,4028,4031,3965)-29
9.	Brake Disc	FAV	05-18(5344,5391,5160,5161) D133561-300	05-18(5003,5005,5284,5132)D133561-300
10.	Ball Joint Control Arm	MB/S-BLOC		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SF/SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	RVE,140518-1,070518-1,070518-1	RVE,100518-4,070518-1,RVE
22.	Control Arm Lower	RVE	010518-2,100518-2,100518-2,RVE	070518-2,150518-1,D-9814,100518-2

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	0708-15/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018-D-4796
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	Foot Step	M/s Super Spark Pvt. Ltd. Faridabad	
5.	D-coupling arrangement	M/s ELASTOMER MUMBAI	
6.	Floor board	M/s TWPL MUMBAI	
7.	PVC	M/s Responsive ind.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 SHATABDI SAFTEY GLASS VADODARA	
13.	Emergency Window	M/s SHATABDI SAFTEY GLASS VADODARA	
14.	Hopper Window	M/s SHATABDI SAFTEY GLASS VADODARA	
15.	Roof Ceiling	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
16.	Door way /gang way ceiling	M/s GANDHI ENT.JALANDHAR	
17.	Supply Air Duct	M/s Amirchand engg.works Jalandhar	
18.	Partition panel	M/s HONEY COMB INTE. BANGALORE	
19.	Partition pillar	M/S RAIL TECH KXH	
20.	Side Wall panel	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
21.	AC Trough	M/s Gee pee gurgaon	
22.	Body Side Doors	M/s SUKATA CDG	
23.	Compartment Door (PPE)	M/s Hanspal coach products KXH	
24.	Compartment Door (NPPE)	M/s Hanspal coach products KXH	
25.	Vestibule Door(PPE)	M/s JBM Faridabad	
26.	Vestibule Door(NPPE)	M/s JBM Faridabad	
27.	Bio Tank	M/s FLASH FORGE LTD VIZAG	
28.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
29.	Under Slung Water Tank(1x450 L)	M/s Amit Engg. mohali	
30.	Under Slung Water Tank ( 2X685L)	M/s Amit Engg. mohali	
31.	Flexible Faucet	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
32.	Lotah Filler Tap	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
33.	Bib cock	M/s jaquar pvt.ltd. alwar	
34.	Lavatory Modules	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
35.	Lavatory Doors	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
36.	Waste Bin Arrangement	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
37.	Fire Extinguisher	M/s CHIRAG	PP-64050,NPP-64494
38.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
39.	Light Luggage Rack	M/s Techno Industries Allahabad	
40.	Snack Table	M/s- GANDHI ENT. JALANDHAR	

SSE/QC/MCF/RBL

वरिष्ठ अनु अभियंता

गुणवत्ता विभाग

रेडि०का०, रायबरेली (लालगंज)



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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 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 रेडि०का०, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. Chief Q. उप मुख्य रा. आधुनिक रेल डिब्बा कारखाना Modern Coach Factory





Modern Coach Factory Raebareli  
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH		LWACCW	SHELL/COACH NO	18054/C
RAILWAY		NWR	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	29.08 Cub mtr/min		OK
3.2	Return Air	63.31 Cub mtr/min		OK
3.3	Exhaust Air	5.80 Cub mtr/min		OK
3.4	Conditioned Air	165.91 Cub mtr/min		OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition.  PP Side :21.2 °C NPP Side :20.7 °C			OK
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> 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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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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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : <b>FEEL</b> Sr no of RMPU 1(NPP side): <b>2118000990</b> Sr no of RMPU 2 (PP side): <b>2118000986</b> Sr no of Microprocessor: <b>17.09.023 -A PAUL</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>ABROL</b> Sr no : <b>145-05/2018</b>	As per spec no .EDTS073,REV-D,AM-6	<b>01</b>
03.	Pump equipment with PLC controller& pump box Make : <b>KIND</b> Sr no PA : <b>0027/07/17</b> Sr no.1 : <b>17070053</b> Sr no.2 : <b>17070054</b> Srno.CPA: <b>18040034</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>EYYANI</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Passenger area Light(Cabin) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09</b>
06.	Corridor Light with Night light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09</b>
07.	Doorway/Gangway light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>06</b>
08.	Emergency light system for EOG type coaches (AEL) Make : <b>INTRA ELECT.</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>K LITE</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	<b>04</b>

  
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Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth ( LHS) Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F1	<b>9</b>
12.	Reading light for upper berth Make: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F2	<b>26</b>
13.	Reading light for transverse berth (RHS) Make: <b>DR AUTO +RT VISION</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F3	<b>8</b>
14.	Reading light for berth transverse ( LHS) Make: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F4	<b>9</b>
15.	Passenger alarm coach indication light Make : <b>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>
16.	Razor socket for WC 110/240V. Make : <b>SSK</b>	EDML 047 ,Rev nil	<b>04</b>
17.	Terminal strip Make : <b>WAGO</b>	EDML 033,Rev-c	<b>01</b>
18.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : <b>SSK</b>	EDML 047,Rev_C, Item 1.	<b>09</b>
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : <b>SSK</b>	EDML 047,Rev_A ,Item 2.	<b>09</b>
21.	Switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
22.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173 Rev- a Am-1,2&3	<b>01 set</b>

  
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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 : <b>HBL</b> Lug date : <b>05/18</b>	EDTS 129,Rev nil	<b>01 set</b>
24.	Battery box for LHB coaches. Make : <b>HITECH</b>	As per drgno 1 10113 0 76 700 005,Alt C	<b>01</b>
25.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
26.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
27.	Emergency battery charger Make : <b>WAVES</b> Sr no: <b>184497</b> Make : <b>WAVES</b> Sr no: <b>184391</b>	EDTS 163,Rev `c` corg.-2&3	<b>02</b>
28.	5KVA Transformer Make : <b>VIMAL</b> SL.no : <b>284</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
29.	Capacitor Bank Make : <b>STANDARD CAP.</b> SL.no : <b>18C 440</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
30.	60KVA transformer Make : <b>AUTOMATIC</b> Sr no : <b>3/18/T510483/189</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
31.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</b>	As per spec No EDTS 105,Rev`e` Am-2	<b>02 sets</b>
32.	Feeder junction boxes. Make : <b>ISG</b>	EDTS-328 REV-C	<b>02</b>
33.	Wheel set earthling equipment. Make : <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02</b>
34.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0118094841</b>	M/s : <b>KNORR</b>	<b>01 set</b>
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : <b>ZUMAX</b>	As per spec no EDTS 139, Rev- E ,Sec II.	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

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