



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/2018-19/248

Rolling Stock Certificate No.: MCF/RBL/QC/RCS/2018																									
Coach No.		1	8	0	5	1	/	C	-	DATE OF DISPATCH					0	1	-	0	7	-	1	8			
RLY	N	W	R	-	Type	L	W	A	C	C	W	Shell No.	8	2	0	0	2	-	2	0	1	8	-	1	9
MCF/142/3 Dated: 16.04.18																									

1. Railway Board's Order No. : 2018/M(C)/142/2 Dated- 16.04.18
2. Tare Weight of Coach : 44.5 Tonnes
3. Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL

4. SHELL LEADING DIMENSIONS:	DESCRIPTION	DIMENSION (MM)
S NO		
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)1104 (NPPE) 2)1104 (PPE)

5. TRACEABILITY OF SHELL ITEMS:	MAKE/SUPPLIER	SERIAL NO
S NO	ITEM	
1.	Under frame	Front Part M/S Neera chandigarh
	Complete	M/s MCF/RBL
2.	Side wall	M/s MCF/RBL
3.	End wall	PP END M/S RSM
	NPP END	M/S P.D.STEEL
4.	Roof	M/s MCF/RBL
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD
6.	Buffers	N.A.
		PP END 99 NPP END 96
		RH 82002 LH 82002
		PP END 82002 NPP END 82002
		PP END 3822 NPP END 3926

6. AIRBRAKE TEST REPORT:	DESCRIPTION	SPEC. VALUE	OBSERVED
S NO	ITEM		
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
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:	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
S NO	DESCRIPTION	TYPE OF PAINT	
1.	Paint	P.U	M/S -VIBGYOR
2.	Insulation		
			Satisfactory

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	N	W	R	-	Type	L	W	A	C	C	W	Shell No.	8	2	0	0	2	-	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180562				180561			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-845				ECBT-588			
Bolster no.	APEX-210				APEX-208			
Axle No	17 W-2411 RWF		17 W-3472 RWF		17W- 3651RWF		17 W -8077 RWF	
Wheel Dia	917.552	917.511	917.57	917.518	917.587	917.554	917.569	917.54
Wheel Disc No	TZ-03-17 01550-6QJ0	TZ 03-17 01551-6QJ0	TZ 03-17 01743-7NL3	TZ 03-17 01548-6QJ0	TZ-04-17 10248-7NK7	TZ 04-17 10249-70J0	TZ 04-17 10246-70J8	TZ 04-17 10247-7NK7
R.B. Nos.	04-18 05209	02-18 03323	04-18 05743	02-18 03851	04-18 05035	04-18 05666	02-18 04521	04-18 05499
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

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.	CMFSK05-18F18 R1803-18Y-920	CMFSK02-18- 9513-383-150	CMFSK05-18-F 18-R96-18Y-923	CMFSK02-18- 9513-383-172	CMRSK05-18F18- R96-18Y-644	CMRSK02-18- 9513-383-138	CMRSK05-18F 18R96-18Y-915	CMRSK02-18-9513- 383-127
Compressed Ht. at Tested Load	509	468	510	468	507	467	507	468
Alignment deviation (mm)	17	7	14	7	14	7	14	7

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KB	6263,6262	6261,6293
2.	Primary outer Spring	CVFSK	04-18 7411-357(114,793,53,385)	04-18 7411-357(413,451,42,334)
3.	Primary Inner Spring	RSK	05-14 (406,09,622,255)-1702	05-14(524,524,272,2554)-1702
4.	Primary Damper	KNORR	11-17(13770,13751,13747),12-17 14078	12-17 14074 11-17 (13753,13748,12-17 14101
5.	Secondary Damper	KNORR	03-18 (3778,3825)	02-18(3652,3650)
6.	Lateral Damper	KNORR	03-18 2071	03-18 2063
7.	Brake Cylinder	FAV	C18(150,017,213),B18-300	E18-299,C18(413,451,42,334)
8.	Brake Caliper	FAV	D18(028,026)B,C18(809,811)B	C18(812,810,818,919)B
9.	Brake Disc	FAV	05-18(5307,5308,4282,4285)-D133561-300	05-18(5395,5396,5306,5399)D133561-300
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SF		
13.	Traction lever make	SF		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Secondary Rubber Pad	TECSPAK		
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	080518-2,RVE,RVE,140518-1	050518-4,080518-2,120518-2,RVE
22.	Control Arm Lower	RVE	100518-2,100518-2,RVE,,,070518-2	100518-2,070518-2,070518-2,070518-2

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 Faively transport tech.india ltd baddi(HP)	D18009B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045502B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	Foot Step	M/s Super Spark Pvt. Ltd. Faridabad	
5.	D-coupling arrangement	M/s ELASTOMER MUMBAI	
6.	Floor board	M/s Oriental veneer products	
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 Mahaveer metal works KXH	
11.	Gangway bridge mounting (NPPE)	M/s Mahaveer metal works KXH	
12.	Body Side Window	M/s TECH FAB LTD.KXH	
13.	Emergency Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
14.	Hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
15.	Roof Ceiling	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
16.	Door way /gang way ceiling	M/s J.R. Jalandhar	
17.	Supply Air Duct	M/s GANDHI ENT.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 2,4	M/s SUKATA CDG	
23.	Body Side Doors 1,3	M/s JVR IND.LDH	
24.	Compartment Door (PPE)	M/s Hanspal coach products KXH	
25.	Compartment Door (NPPE)	M/s Hanspal coach products KXH	
26.	Vestibule Door(PPE)	M/s JBM Faridabad	
27.	Vestibule Door(NPPE)	M/s JBM Faridabad	
28.	Bio Tank	M/s M.K.PRECISION	
29.	Auxiliary Water Tank	M/s Amit Engg. baddi	
30.	Under Slung Water Tank(1x450 L)	M/s Amit Engg. mohali	
31.	Under Slung Water Tank (2X685L)	M/s Amit Engg. mohali	
32.	Flexible Faucet	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
33.	Lotah Filler Tap	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
34.	Bib cock	M/s jaquar pvt.ltd. alwar	
35.	Lavatory Modules	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
36.	Lavatory Doors	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
37.	Waste Bin Arrangement	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
38.	Fire Extinguisher	M/s AGGARWAL FIRE	PP-2776,NPP-2663
39.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
40.	Light Luggage Rack	M/s Techno Industries Allahabad	
41.	Snack Table	M/s- GANDHI ENT. JALANDHAR	

Deenu
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंक ०, रायबरेली (उत्तर प्रदेश)



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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.

SSG/QC/MCF/RBL मुख्य निरीक्षक रेडिओकार, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक निरीक्षक/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL Joginder Singh उप मुख्य गुणवत्ता प्रबंधक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	18051/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	29.20 Cub mtr/min	OK
3.2	Return Air	42.09 Cub mtr/min	OK
3.3	Exhaust Air	7.91 Cub mtr/min	OK
3.4	Conditioned Air	189.94 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 :21.1 °C NPP Side :21.9 °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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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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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): 2619-E Sr no of RMPU 2 (PP side): 2627-E Sr no of Microprocessor: AE-18.03.611-AMIT	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 146-05/2018	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make : DR AUTO Sr no PA : 2018/03/057 Sr no.1 : 18020218 Sr no.2 : 18020236 Srno.CPA: 6939/03/2018-KALSI	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 : EYYANI	EDTS331, TYPE-1 CORR.-1&2	02
05.	Passenger area Light(Cabin) Make: DR AUTO	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 : MAAVE ELECT.	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K LITE	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04

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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: AGASTYA	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: AGASTYA	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 : 05/2018	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make : TECHNO INDUSTRIES	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 : BHASIN Sr no: 10174645 Make : BHASIN Sr no: 10174707	EDTS 163,Rev `c` corg.-2&3	02
28.	5KVA Transformer Make : VIMAL SL.no : 477	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make : STANDERD CAPACITORS SL.no : 18 C 442	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : AUTOMATIC Sr no : 03/18/T510483/184	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 : AECO	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 : 45/16/794	M/s : FAIVELEY	01 set
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : VISHAL	As per spec no EDTS 139, Rev- E ,Sec II.	01

SSE/EL/QC	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आ0रेडि0का0/लालगंज/रायबरेली
S.S.E/Elect-QC/M.C.F./LJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow