



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/2018-19/279

Coach No.		1	8	0	5	5	/	C	-	DATE OF DISPATCH					1	4	-	0	7	-	1	8			
RLY	N	W	R	-	Type	L	W	A	C	C	W	Shell No.	8	2	0	0	4	-	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)1100 (NPPE) 2)1099 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part M/S Neera chandigarh	PP END 86 NPP END 51
		Complete M/s MCF/RBL	
2.	Side wall	M/s MCF/V4U	RH 82004 LH 82004
3.	End wall	PP END M/S Rubican steel mohali	PP END 82004 NPP END 82004
		NPP END M/S Rubican steel mohali	
4.	Roof	M/s MCF/RBL	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3919 NPP END 3840
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 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 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	91/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (सालगाँव)



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	4	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180748				180747			
Bogie Type	LWACCN				LWACCN			
Frame no.	ECBT-647				SCI-1755			
Bolster no.	MCF/RBL -1520				MCF/RBL -1390			
Axle No	17 W-3540 RWF		17 W -3628 RWF		17 W- 3356 RWF		17 W -3020RWF	
Wheel Dia	917.419	917.474	917.429	917.488	917.457	917.436	917.534	917.51
Wheel Disc No	TZ-03-17 08402-70K7	TZ 03-17 08403-70K7	TZ 05-17 13379-70L6	TZ 03-17 08401-70K7	TZ-03-17 05079-70K5	TZ 03-17 05241-70K9	TZ 03-17 05080-70K5	TZ 03-17 05081-70K5
R.B. Nos.	08-17 27671	02-18 12291	08-17 27665	02-18 12285	05-17 57963	06-17 82506	05-17 15604	05-17 57961
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.	CMRSK05-18F 18R02-184-400	CMFSK02-18- 2513-383-159	CMRSK05-18 F08R96-184-441	CMFSK02-18-9513- 383-147	CMRSK05-18R04- 18Y-731	CMFSK02-18- 9513-383-112	CMFSK05-18- F18-R02-18Y-240	CMFSK02-18-9513- 383-117
Compressed Ht. at Tested Load	511	466.5	510	464	512	468	511	468
Alignment deviation (mm)	14	7	17	8	20	9	19	8

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	SV	634,307	382,390
2.	Primary outer Spring	CVFSK	04-18 7411-357(511,409,539,163)	04-18 7411-357(203,502,452,584)
3.	Primary Inner Spring	CMRSK	05-14(170,442,416,544)-1702	06-14(1387,521,225,330)-1702
4.	Primary Damper	KNORR	12-17(14076,14094,13906,13540)	12-17 (13244,14226,14217,14221)
5.	Secondary Damper	KNORR	02-18 (3610,3611)	02-18(3616,3615)
6.	Lateral Damper	IAI	03-18 02184	03-18 202193
7.	Brake Cylinder	KBI	A(5401,5036,5008,5422)-K29	A(5359,4987,4992,5360)K29
8.	Brake Caliper	KBI	A(3935,4026,4027,3934)-29	A(3896,3986,3987,3897)-29
9.	Brake Disc	FAV	05-18(5081,5078,5068,5079) D133561-300	05-18(5214,5217,5390,5392)D133561-300
10.	Ball Joint Control Arm	S-BLOC		
11.	Lateral Bump Stop	AR/BONY		
12.	Traction Centre make	SARITA/SF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	MTC		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA/SF		
19.	Roll Link make	SARITA/AR,SF/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	070518-1,090518-1,140518-1,130518-1	090518-1,070518-1,070518-1,140518-1
22.	Control Arm Lower	RVE	100518-1,150518-1,150518-1,150518-1	RVE,210518-1, RVE,100518-1

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	0691-14/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018D4763
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 Premier polyfilm, New Delhi	
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 JR IND. 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 2,3,4	M/s SUKATA CDG	
23.	Body Side Doors 1	M/s JVR 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 FLASH FORGE LTD VIZAG	
29.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
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 Modules1	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
36.	Lavatory Modules2,3,4	M/s CMT MACHNISED Vadodra (Gujarat)	
37.	Lavatory Doors	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
38.	Waste Bin Arrangement	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
39.	Fire Extinguisher	M/s ATASSE	PP-3030,NPP-2679
40.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
41.	Light Luggage Rack	M/s Techno Industries Allahabad	
42.	Snack Table	M/s- GANDHI ENT. JALANDHAR	

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिआन्स, रायबरेली (उत्तरप्रदेश)



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RLY	N	W	R	-	Type	L	W	A	C	C	W	Shell No.	8	2	0	0	4	-	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	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.

वरिष्ठ अभियंता SSE/QC/MCF/RBL रेल डिब्बा कारखाना, रायबरेली (लाल मजरा)	जी. प्र. मण्डेय ज्येष्ठ अभियंता AME/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	अजय कुमार सिंह ज्येष्ठ अभियंता Dy. COM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली 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	18055/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	30.24 Cub mtr/min		OK
3.2	Return Air	49.76 Cub mtr/min		OK
3.3	Exhaust Air	6.65 Cub mtr/min		OK
3.4	Conditioned Air	202.87 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 :21.0 °C NPP Side :21.7 °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): 2477-B Sr no of RMPU 2 (PP side): 2468-B Sr no of Microprocessor: AE-18.04.631	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 145-05/2018	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make : KIND Sr no PA : 0027-07/17 Sr no.1 : 17070053 Sr no.2 : 17070054 Srno.CPA: 18040034	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 : INTRA 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: RT VISION + AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: RT VISION + 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 : HBL Lug date : 05/2018	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make : NIL	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 : ISGPL	LW 71002,Alt-F	01
27.	Emergency battery charger Make : WAVES Sr no: 184463 Make : WAVES Sr no: 184430	EDTS 163,Rev `c' corg.-2&3	02
28.	5KVA Transformer Make : VIMAL SL.no : 284	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make : STANDARD CAP. SL.no : 18C 440	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : AUTOMATIC Sr no : 03/18/T510483/189	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 : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118044423	M/s : KNORR	01 set
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : ZUMAX	As per spec no EDTS 139, Rev- E ,Sec II.	01

 SSE/EL/QC	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL
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वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / रायबरेली
S.S.E/EL-QC/M.C.F./LJ/RBL

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

