



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/2017-18/268

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

- Railway Board's Order No. : 2017/M(C)/142/2 Dated- 26.05.17
- 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/-15	1)1105 (NPPE) 2)1103 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part M/S Omax auto gurgaon HR M/S Sidhu ind.corporation KXH	PP END 79 NPP END 1024
	Complete	M/s MCF/RBL	
2.	Side wall	M/s MCF/RBL	RH 72014 LH 72014
3.	End wall	PP END M/s Shivalic fastners pvt.ltd. mohali NPP END M/s Shivalic fastners pvt.ltd. mohali	PP END 72014 NPP END 72014
4.	Roof	M/s MCF/RBL	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 1423 NPP END 1421
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	7 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-BERGER	M/S-BERGER	89/87
2.	Insulation			Satisfactory	

वरिष्ठ अनुसंधान

SSE/QC/MCF/RBL

रेलवे डिब्बा कारखाना, रायबरेली (बिहार)



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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	170517				170518			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-361				RBL-426			
Bolster no.	MCF/RBL-1110				MCF/RBL/VS-104			
Axle No	V-1178		V-1748		V-1753		V-1972	
Wheel Dia	917.560	917.581	917.561	916.609	917.554	917.635	917.562	917.618
Wheel Disc No	00075-7274 10-16	00066-7257 10-16	00137-7257 10-16	00180-7321 10-16	00132-7321 10-16	00033-7321 10-16	00135-7274 10-16	00001-7257 10-16
R.B. Nos.	05-16 99963	10-16 81630	05-16 98404	10-16 81640	10-16 81650	05-16 62822	10-16 81606	06-16 98407
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMRSK-05-15F8F18-514-4702	CMRSK-03-16-F19-R68-19W-735	CMRSK-05-15-F8-199	CMRSK-05-16-F19-N91-19W-736	CMRSK-05-17-F18-8650	CMRSK-03-16-F19-R68-19W-551	CMRSK-03-15-F18-549-4702	CMRSK-03-16-F19-R68-19W-681
Compressed Ht. at Tested Load	509	468	507	468	511	644	512	467
Alignment deviation (mm)	17	21	17	24	13	29	11	25

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	RSK	03WA,0305,03WA,03WA	03WA-1773,03WA-1897,03WA-3015,03WA-1791
2.	Primary Inner Spring	RSK	1702(2283,2097,492,365)	391-1702,111-1702,384-1702,67-1702
3.	Primary Damper	KNORR	05-17(7832,7828,7785,7648)	05-17(7655,7679,7683,7675)
4.	Secondary Damper	KONI	42-2016 (10255,10201)	15-2016(8433,7416)
5.	Lateral Damper	KONI	42-2016 5941	42-2016 6020
6.	Brake Cylinder	KBI	6798-K-29, 6724-K-29, 6643-K-29, 6797-K-29,	6903-K-29, 6803-K-29, 6802-K-29, 6900-K-29,
7.	Brake Caliper	KBI	6086-29,6213-29,6211-29,6083-29	6186-29,6292-29,6291-29,6185-29
8.	Brake Disc	FAV	D133561-300-03-17-1335, D133561-300-03-17-1386, D133561-300-03-17-1384, D133561-300-04-17-1452,	D133561-300-04-17-1455, D133561-300-03-17-1380, D133561-300-03-17-1388, D133561-300-03-17-1387,
9.	Ball Joint Control Arm	GMT		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA		
12.	Traction lever make	SARITA		
13.	Ball joint traction lever	GMT		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/ GMT		
19.	Fork make	SARITA		

Signature of SSE/QC/Bogie





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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	PASS17E2310
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2017D3187
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 Kohinoor Industries, Jalandhar	
6.	Floor board	M/s Twakkal mumbai	
7.	PVC	M/s Responsive Industries, Mumbai	
8.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
9.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
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 Birkan engg.pvt.ltd.GAZIABAD	
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 Rail experts Jalandhar	
17.	Supply Air Duct	M/s Hanspal coach products KXH	
18.	Partition panel	M/s Honey comb associate bangaluru	
19.	Partition pillar	M/S Rail FAB pvt.ltd. KXH	
20.	Side Wall panel	M/s KAE Eng.pvt.ltd.esipl U.K	
21.	AC Trough	M/s KAE Eng.pvt.ltd.esipl U.K (NPP) M/s -Gcepee gurgaon HR (PP)	
22.	Body Side Doors	M/s JBM, Faridabad	
23.	Compartment Door (PPE)	M/S Rail tech pvt.ltd. KXH	
24.	Compartment Door (NPPE)	M/S Rail tech pvt.ltd. KXH	
25.	Vestibule Door(PPE)	M/s Kalsi Ludhiana	
26.	Vestibule Door(NPPE)	M/s Kalsi Ludhiana	
27.	Bio Tank	M/s Oriental Aghai	
28.	Auxiliary Water Tank	M/s Manoj Engg. Mohali	
29.	Under Slung Water Tank(1x450 L)	M/s Amit Engg. Mohali	
30.	Under Slung Water Tank (2X685L)	M/s Amit Engg. baddi	
31.	Flexible Faucet	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
32.	Lotah Filler Tap	M/s Metco Delhi	
33.	Lavatory Modules	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
34.	Lavatory Doors	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
35.	Waste Bin Arrangement	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
36.	Fire Extinguisher	M/s classic agnee	PP-5503,NPP-5504
37.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
38.	Light Luggage Rack	M/s Techno Industries Allahabad	
39.	Snack Table	M/s- International tractors ltd. Hoshiarpur	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग

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 Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:



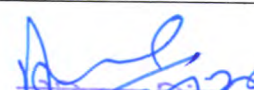
S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from date of supply 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 अनुष्ठान अभियंता SSE/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली	 जी एस. हाण्डेय G.S. Handey सहायक आधुनिक अभियंता / गुणवत्ता आधुनिक रेल डिब्बा कारखाना, रायबरेली AME/QC/MCF/RBL	 जोगिन्दर सिंह Joginder Singh सहायक आधुनिक अभियंता / गुणवत्ता आधुनिक रेल डिब्बा कारखाना, रायबरेली Dy.CQM/MCF/RBL
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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	17054/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	30.40 Cub mtr/min		OK
3.2	Return Air	87.58 Cub mtr/min		OK
3.3	Exhaust Air	7.54 Cub mtr/min		OK
3.4	Conditioned Air	209.20 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 :21.3 °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

(Signature)
Senior Section Engineer
Quality control / Electrical
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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
10.	WC gauge signal light Make: KAVERI	LW 76006,Alt-c	02
11.	Passenger alarm coach indication light Make: DR AUTO	LW 76005,Alt-e	02
12.	Reading Light fitting (Upper berth) Make: INTEG	LW 76023,Alt-e	26
13.	Reading light for longitudinal berth LHS Make: INTEG	LW 76022,Alt-e	09
14.	Reading light for transverse Lower Berth -LH Make: INTEG	LW 76020,Alt-e	09
15.	Reading light for transverse Lower berth RH Make: INTEG	LW 76021,Alt-e	08
16.	Fluorescent lamp 18W	RDSO/PE/SPEC/D/TL 0011-2000,Rev I, Sec- I , 07/2001	33
17.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	25
18.	Razor socket for WC 110/240V. Make: SSK	EDML 047 ,Rev nil	04
19.	Terminal strip Make: WAGO	EDML 033,Rev-c	01
20.	Terminal connector Make: WAGO	EDML 037,Rev`a`	04
21.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev_C, Item 1.	09
22.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: SSK	EDML 047,Rev_A ,Item 2.	09
23.	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
24.	PA system for LHB coaches Make : AHUJA	EDTS 173 Rev- a Am- 1,2&3	01 set

(Signature)
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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : LEEL Sr no of RMPU 1(NPP side): 17.05.0031 Sr no of RMPU 2 (PP side): 17.05.0037 Sr no of Microprocessor: 17.04.036/A PAUL	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : 17.06.0079	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2017/05/068 Sr no.1: 17030044 Sr no.2: 17030134 Srno.CPA: 2017/05/0042	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 : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Vestibule Light Fitting Single w/o diffuser Make: INTEG	LW 76004,Alt-b	06
06.	Ceiling light fitting DOUBLE w/o diffuser. Make: INTEG	LW 76011,Alt-c	09
07.	Ceiling light fitting with NL w/o diffuser w/o item 2&3 Make: DEW	LW 76013,Alt-c	09
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: NIL	LW 76001,Alt nil	04

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Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : A RAJA Lug date : 06/2017	EDTS 129,Rev nil	01 set
26.	Battery box for LHB coaches. Make: MERCURY COMPONENTS	As per drgno 1 10113 0 76 700 005,Alt C	01
27.	Battery fuse box +ve Make : INDORAIL	LW 71001,Alt-F	01
28.	Battery fuse box -ve Make : KONTACT	LW 71002,Alt-F	01
29.	Regulated battery charger Make : AAL Sr no: 061702433	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
30	Emergency battery charger Make : WAVES Sr no: 172512	EDTS 163,Rev `c` corg.- 2&3	01
31.	Provision of 5KVA TFR Make : AUTOMATIC Elect Ltd SL.no : T 509081/94	As Per EDTS-366,REV-NIL & CC-71510	01
32.	Provision of capacitor Bank Make : STANDARD CAPACITORS SL.no : 17/A/347	As per EDML-130 Rev- 1,Corr-1	01
33.	60KVA transformer Make : AUTOMATIC Elect Ltd Sr no : T 116146/05	As per rdso/pe/spec/ac/0080/re v-0 (2007)/Am-1&2/Corr. 1,2&3	01
34.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e` Am-2	02 sets
35.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
36.	Wheel set earthing equipment. Make : S INTERNATIONAL	EDTS101,REV-C,AM-1	02
37.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116512972	M/s : KNORR	01 set
38.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : HIND RECTIFIERS	As per spec no EDTS 139, Rev- E ,Sec II.	01

 SSE/EL/QC	 SEE(P)/MCF/RBL
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वरिष्ठ अनुमान अभियन्ता
गुणवत्ता नियंत्रण
आदर्श डीका 0 / 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

