



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/ 284

Coach No.				1	7	4	0	6	/	C	DATE OF DISPATCH				0	3	-	1	0	-	1	7	
RLY	W	C	R	-	Type	L	S	5	Shell No.		7	6	0	1	6	-	2	0	1	7	-	1	8

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated. 25.04.2017
2. Tare Weight of Coach : 40.66 Tonnes
3. Carrying Capacity : (a) Seating: 100 (b) 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) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Sidhu ind.corporation KXH	PP END	108	NPP END	108
		Complete	M/S Sidhu ind.corporation KXH				
2.	Side wall		M/s-MCF/RBL	RH	76016	LH	76016
3.	End wall	PP	M/S E.c.blades &tool pvt. Ltd CDG	PP END	76016	NPP END	76016
		NPP	M/S E.c.blades &tool pvt. Ltd CDG				
4.	Roof		M/S Indira ind.ranipet chennai				
5.	Centre Buffer Coupler		M/S Sanrok faridabad	PP END	3035	NPP END	3043
6.	Buffers		N.A.				

6. AIRBRAKE TEST REPORT:


S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ Max. pressure in BC ➤ All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	08 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	SUPPLY & APPLY	89/87
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान विभाग
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	170324				170323			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-LS-5-0076				RBL-LS-5-0024			
Bolster no.	MCF/RBL-LS-5-0160				RBL-LS-5-167			
Axle No	V-2346		V-1157		V-2016		V-1998	
Wheel Dia	917.602	917.465	917.539	917.541	917.547	917.523	917.501	917.481
Wheel Disc No	00120-7261 10-16	00105-6220 09-16	00012-6205 09-16	00086-7248 09-16	00057-6205 09-16	00162-6190 09-16	00012-7253 10-16	00025-7261 10-16
R.B. Nos.	01-17 00290	01-17 00801	01-17 00457	01-17 00074	01-17 00194	01-17 00014	01-17 00649	01-17 00218
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AVADH RAIL INFRA LTD ARL-01-17-174	AVADH RAIL INFRA LTD ARL-01-17-150	AVADH RAIL INFRA LTD ARL-01-17-153	AVADH RAIL INFRA LTD ARL-01-17-133

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	01-17(498,551,561,560)	01-17(445,595,497,485)
2.	Primary Inner Spring	CMFSK	01-17(875,796,1179,1247)	01-17(1185,517,1379,1270)
3.	Primary Damper	KNORR	02-17(4999,5192,5359,5360)	02-17(5203,4949,5177,4961)
4.	Secondary Damper	GABRIEL	03-17(140,139)	03-17(136,128)
5.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
6.	Brake Cylinder	FAV	N-16-034,A17-123,A-17-054,A-17-078	M-16-377,M16-239,M-16-241,M-16-362
7.	Brake Caliper	FAV	B17059B,A17057B,A17058B,B17060B	A17017B,A17019B,A17020B,A17016B
8.	Brake Disc	FAV	D-133561-300-03-17-1344, D-133561-300-03-17-1346, D-133561-300-02-17-550, D-133561-300-02-17-551,	D-133561-300-02-17-511, D-133561-300-02-17-512, D-133561-300-02-17-546, D-133561-300-02-17-457,
9.	Ball Joint Control Arm	SGA/MGN		
10.	Lateral Bump Stop	SGA/MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI		
13.	Ball joint traction lever	S-BLOC		
14.	Ball joint traction centre	GMT		
15.	Leveling Valve	KNOOR	01-17(5929,6031)	01-17(5983,6008)
16.	Check Valve	KNORR	01-17 9655	01-17 9635
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA /GMT		
19.	Fork make	SARITA		

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)	D17035B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17045521B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 0809/29 NPP END 0392/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s TWPL mumbai	
8.	PVC	M/s Responsive ind.mumbai	
9.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
10.	UIC Vestibule (PPE)	M/s SSIPL Mumbai	
11.	UIC Vestibule (NPPE)	M/s SSIPL Mumbai	
12.	Gangway Bridge mounting(PPE)	M/s Mahavir metal works Kapurthala	
13.	Gangway Bridge mounting(NPPE)	M/s Mahavir metal works Kapurthala	
14.	Body Side Window	M/s AGF Pvt. Ltd, Kolkata	
15.	Emergency Window	M/s AB composites Pvt. Ltd, Kolkata	
16.	Hopper Window	M/s Rail tech KXH	
17.	Roof ceiling	M/s G.I.natural fibre composit Pvt. Ltd, Kolkata	
18.	Door way gangway ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors 4	M/s JBM faridabad	
20.	Body Side Doors 1,2,3,5,6	M/s Sukata CDG	
21.	Vestibule door(PPE)	M/S Kalsi LDH	
22.	Vestibule door (NPPE)	M/S Kalsi LDH	
23.	Bio Tank	M/s Hindustan fibre ltd vadodara	
24.	Overhead Water Tank(4X390L)	M/s Rail fab kapurthala	
25.	Bib Cock/Controlled Discharge Tap	M/s Agmeco. Faucet Pvt.Ltd. UK	
26.	Lavatory Doors	M/S Kalsi LDH	
27.	Seat & Berth	M/s Oriental veneer products mumbai	
28.	Luggage Rack	M/s Lucky enterprises Gurgaon	

[Signature]
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11. 12. MODIFICATION (IF ANY) : NIL

12. DEVIATION (IF ANY) : NIL

13. 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 अनु अभियंता गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)	 जी.एस. पाण्डेय G.S. Pandey सहायक रात्रिक अभियंता / गुणवत्ता AME / QC आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 राजेंद्र सिंह Rajendra Singh उप मुख्य गुणवत्ता प्रबंधक Deputy Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	17406/C	TYPE COACH	LGS
RAILWAY	WCR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
2.	LIGHTS,LAP CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2	CONTROL CIRCUIT	OK	
7.3	POWER CIRCUIT	OK	

[Signature]
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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01.	Switch board cabinet Make : SSK On Board Sr no : 2017/06/179 HT Panel Sr no : 2017/06/170	EDTS 333, Rev `01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : DR AUTO	As per drg no. LW 76005,Alt -e 02 nos	02
04.	Fitment of Switch Plate Assly (Cabin Side) Make : SSK	EDML 127,Rev-1& DRG NO 4248ALT-a	10
05.	Fitment of Switch Plate Assly (Corridor Side) Make : SSK	EDML 127,Rev-1 & DRG NO 4249 ALT-a	10
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : CONCORD,CROMPTON	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
07.	Fitment of Fluorescent light fitting for LHB type coaches. Make : DR AUTO	LW 76033,Alt `c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DEW	CC 76213,Alt `d'.	26
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : KAVERI	CC 76216, Alt `c'.	02

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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10.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	26
11.	Battery fuse box +ve Make : ISG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : AAL Sr no: 061701340	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : 16016045	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
16.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : MLI,CHANDA	EDTS101,REV-C,AM-1	02 set
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 22/17/679	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : A RAJA Lug date : 09/2017	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HI TECH	CC 91205	01

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

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गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E/Elect-QC/M.C.F./LLJ/RBL

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

