



# 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/2016-17/ 572

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

1. Railway Board's Order No. : 2016/M(C)/142/1, Dated -29-07-16
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/-15	1)1099 (NPPE) 2)1095(PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/s-E.C Blades & Tool Pvt. Ltd. Chandigarh, M/s-NEC Switch gear & Control, Mohali
		Complete	M/s-MCF/RBL
2.	Side wall	M/s-MCF/RBL	RH 66054 LH 66054
3.	End wall	PP	M/s-E.C Blades & Tool Pvt. Ltd. Chandigarh
		NPP	M/s-E.C Blades & Tool Pvt. Ltd. Chandigarh
4.	Roof	M/s-MCF/RBL	
5.	Centre Buffer Coupler	M/s Escort Pvt. Ltd. Faridabad	PP END 7027 NPP END 7003
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	8 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 DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s VIBGYOR	90/88
2.	Insulation	Satisfactory		

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०क्र०, रायबरेली (जालगंज)





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### ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/572  
(ANTYODAYA)

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

ITEMS	NPP Side				PP Side			
Bogie No	161088				161087			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-836				MCF/RBL/LS5-0067			
Bolster no.	MCF/RBL/LS5-0101				MCF/RBL/LS5-0043			
Axle No	W-3580		W-2490		W-3349		W-3140	
Wheel Dia	917.440	917.424	917.464	917.489	917.579	917.489	917.565	917.452
Wheel Disc No	00146-6187 VR 08-16	00091-6187 VR 08-16	00043-6190 VR 07-16	00135-6180 VR 07-16	00036-6194 VR 08-16	00158-7260 VR 10-16	00141-7260 VR 10-16	00171-7260 VR 10-16
R.B. Nos.	12-16 08585	12-16 08734	12-16 08501	12-16 08300	12-16 08404	12-16 08276	12-16 08478	12-16 08415
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.	AVDH RAIL INFRA LTD 01-17-124ARL	AVDH RAIL INFRA LTD 01-17-159ARL	AVDH RAIL INFRA LTD 01-17-127ARL	AVDH RAIL INFRA LTD 01-17-140ARL

#### 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMGBD	02-17-1100-04(303,324,246,51)	02-17-1100-05(130,127,322,155)
2.	Primary Inner Spring	CMFSK	01-17-1101-232(118,167,364,488)	01-17-1101-232(154,61,485,319)
3.	Primary Damper	KNORR	07-16(2691,2529,2647,2489)	07-16(2669,2552,2655,2803)
4.	Secondary Damper	KNORR	02-17(0242,0252)	02-17(0232,0231)
5.	Lateral Damper	GEREP	KW 43-16 301550559	KW 43-16 301550559
6.	Brake Cylinder	FAV	B17-060,B17-191,B17-190,B17-063	B17-138,B17-030,B17-008,B17-109
7.	Brake Caliper	FAV	(B17227,B17225,B17226,B17228)B	(B17187,B17186,B17185,B17188)B
8.	Brake Disc	KBI	03-17(0021,0018)24093102 02-17(0010,0024)24093099	53-16(0021,0022)24088857 01-17(0005,0013)24088862
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	MGN/GMT		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI 07-16		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	KNORR	01-17(6005,6007)	01-17(6051,6050)
16.	Check Valve	KNORR	01-17(9687)	01-17(9608)
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC





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RLY	W	R	Type	L	W	S	-	-	Shell No.	6	6	0	5	4	-	2	0	1	6	-	1	7

**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively Transport Technologies India Ltd. Baddi (H.P)	H16023B
2.	Pull box	M/s Faively Transport Technologies India Ltd. Baddi (H.P)	
3.	DV	M/s Faively Transport Technologies India Ltd. Baddi (H.P)	16115527B
4.	FIBA	M/s KBI ,Palwal Haryana	PP END 0211/29 NPP END 0236/29
5.	PVC	M/s Premier polyfilm, New Delhi	
6.	Foot Step	M/s Hi tech, RBL	
7.	Lavatory Module	M/s Hindustan Fiber Ltd. Vadodara	
8.	Lavatory Doors	M/s Hindustan Fiber Ltd. Vadodara	
9.	Water purified	M/s Parag Polymer, Lucknow	
10.	Lavatory Inlay	N/A	
11.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
12.	Body Side Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
13.	Emergency Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
14.	Hopper Window	M/s Shatabdi Safety glass, Vadodara	
15.	Body Side Doors	M/s JBM, Faridabad	
16.	Bio Tank	M/s Rail Tech KXH	
17.	Overhead Water Tank ( 4X390L)	M/s Rail Fab. KXH	
18.	Controlled Discharge Tap/ Bib Cock	M/s Jaguar Pvt. Ltd.	
19.	Seat & Berth	M/s Hindustan Fiber Glass works Ltd. Vadodara	

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
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RLY	W	R	Type	L	W	S	-	-	Shell No.	6	6	0	5	4	-	2	0	1	6	-	1	7

**12. MODIFICATION (IF ANY)** : Water purified fitted as per RDSO RDSO/Spec/ 2015/CG-04**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 blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirror 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.
3	Water purified	24 months date of dispatch of coach or 30 months from date of supply of material whichever is earlier.

**NOTE:**

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com

SSE/QC/MCF/RBL वरिष्ठ अभियंता गुणवत्ता विभाग रेडिस्ट्रिक्ट, रायबरेली (लालगंज)	AME/QC/MCF/RBL जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CME/FUR/MCF/RBL उप मुख्याभियंता/फर्निशिंग Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Lalgarj, Raebareli



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

**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	16442/C	TYPE COACH	LWS
RAILWAY	WR	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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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>NEC</b> On Board Sr no : <b>2K1623398</b> HT Panel Sr no : <b>2K1623394</b>	EDTS 333, Rev `01'Am-1	<b>01</b>
02	Emergency light system for EOG type coaches (AEL), Make : <b>INTEG</b>	EDTS 151, Rev -c Am-1 & 2	<b>04</b>
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : <b>DR AUTO</b>	As per drg no. LW 76005, Alt -e 02 nos	<b>02</b>
04.	Fitment of Switch Plate Assly (Cabin Side) Make : <b>SSK</b>	EDML 127, Rev-1 & DRG NO 4248ALT-a	<b>10</b>
05.	Fitment of Switch Plate Assly (Corridor Side) Make : <b>SSK</b>	EDML 127, Rev-1 & DRG NO 4249 ALT-a	<b>10</b>
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>R KANWAR</b>	IS 6680/92, First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
07.	Fitment of Fluorescent light fitting for LHB type coaches. Make : <b>DR AUTO</b>	LW 76033, Alt `c,	<b>04</b>
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : <b>INTEG</b>	CC 76213, Alt `d'.	<b>26</b>
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : <b>KAVERI</b>	CC 76216, Alt `c'.	<b>02</b>

**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**





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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES**

PAGE 3 OF 3

10.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	<b>26</b>
11.	Battery fuse box +ve Make : <b>AECO</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make: <b>IC ELECT.</b> Sr no: <b>1703014</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>PAN-16015687</b>	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	<b>01</b>
15.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	<b>02 sets</b>
16.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>02</b>
17.	Wheel set earthling equipment. Make : <b>CHANDA &amp; CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
18.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>32/16/456</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>HBL</b> Lug date : <b>09/2016</b>	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>ANANYA RAIL COACH COMPONENT</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>Dy CEE(P)/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आ0रे0डि0का0 / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

उप मुख्य विद्युत अभियन्ता  
उत्पादन एवं योजना  
आ0रे0डि0का0 / लालगंज / रायबरेली  
Dy.C.E.E./Prod & Plg/M.C.F./LLJ/RBL