



# 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/ 573

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

- Railway Board's Order No. : 2016/M(C)/142/1, Dated-29-07-16
- Tare Weight of Coach : 40.66 Tonnes
- 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)1101 (NPPE) 2)1095(PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	M/s-E.C Blades & Tool Pvt. Ltd. Chandigarh	PP END 2518 NPP END 2523
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 66061 LH 66061
3.	End wall	PP M/s-E.C Blades & Tool Pvt. Ltd. Chandigarh	PP END 66061 NPP END 66061
		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 7009 NPP END 7053
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 DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s VIBGYOR	91/87
2.	Insulation		Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनु अभियंता  
गुणवत्ता विभाग  
रेडिओका, रायबरेली (लागूगंज)







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(ANTYODAYA)

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### 8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	161069				161070			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-LS5-0015				MCF/RBL/LS5-0061			
Bolster no.	VS-08				VS-04			
Axle No	V-2230		R-2959		V-1936		V-1105	
Wheel Dia	917.553	917.571	917.539	917.535	917.567	917.531	917.562	917.533
Wheel Disc No	00188-6180 VR 07-16	00074-6180 VR 07-16	00076-6212 VR 08-16	00049-6216 VR 08-16	00115-6212 VR 08-16	00130-6216 VR 08-16	00194-6191 VR 08-16	00040-6191 VR 08-16
R.B. Nos.	09-16 07720	09-16 07449	09-16 07754	09-16 07681	09-16 07482	09-16 07836	09-16 07402	09-16 07743
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

### 9. SECONDARY SUSPENSION

DESCRIPTION	BogieNPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	RFDPL-0146 RASR-747N2-100P-36	RFDPL-0224 RASR-747N2-100P-36	RFDPL-0207 RASR-747N2-100P-36	RFDPL-0135 RASR-747N2-100P-36

### 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	01-17,1100-233(333,254,208,267)	01-17,1100-233(203,25,104,32)
2.	Primary Inner Spring	L&S	06-16 1434	06-16 1434
3.	Primary Damper	KNOOR	07-16(2777,2610'2559,2585)	07-16(2546,2630,2730,2757)
4.	Secondary Damper	KNOOR	02-17(0267,0250)	02-17(0251,0234)
5.	Lateral Damper	GEREP	KW 43-16 301550559	KW 43-16 301550559
6.	Brake Cylinder	KBI	5524K-29,5346K-29,5348K-29,5528K-29	5227K-29,,5345K-29,5338K-29,5483K-29
7.	Brake Caliper	KBI	29(4940,4965,4967,4943)	29(4942,4964,4957,4897)
8.	Brake Disc	FAV	12-16(6305,6304)D133561-300 11-16(6025,6031)D133561-300	11-16(6022,6049)D133561-300 01-17(326,329)D133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	SARITA/JI		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	ESCORT	1610,1610	11611,2016
16.	Check Valve	ESCORT	1611	102016
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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**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	Pass16L1905
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016K2709
4.	FIBA	M/s KBI ,Palwal Haryana	PP END 0210/29 NPP END 0222/29
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.	Bib Cock/Controlled Discharge Tap	M/s Jaguar Pvt. Ltd.	
19.	Seat & Berth	M/s Hindustan Fiber Glass works Ltd. Vadodara	

  
 SSE/QC/MCF/RBL  
 वरिष्ठ अनुष्ठानिक अभियंता  
 गुणवत्ता विभाग  
 रेल डिब्बा कारखाना, रायबरेली (लालगंज)





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**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	REFERENCE & PERIOD OF TRIAL
			Frequency	

**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:**

- 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 qualityrcfrbl@gmail.com

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CME/FUR/MCF/RBL

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (लालगंज)

जी.एस. पाण्डेय  
G.S. Pandey  
सहायक यांत्रिक अभियंता/गुणवत्ता  
Assistant Mechanical Engineer/Quality  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

उप मु०या०अभि०/फनि  
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	16443/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>2K16123397</b> HT Panel Sr no : <b>2K16123396</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, JIPL</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>

*(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.	<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>1703017</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-16015644</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>KNORR</b> Sr no : <b>0116422706</b>	M/s : <b>KNORR</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>AMARA RAJA</b> Lug date : <b>07/2016</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>

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गुणवत्ता नियंत्रण  
आ०रे०डि०का० / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

उप मुख्य विद्युत अभियन्ता  
उत्पादन एवं योजना  
आ०रे०डि०का० / लालगंज / रायबरेली  
Dy.C.E.E./Prod & Plg/M.C.F./LLJ/RBL

