



# 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/ 556

Coach No.			1	7	4	0	8	6	/	C	DATE OF DISPATCH				3	1	0	3	2	0	1		
RLY	W	R	Type	L	G	S	-	-	Shell No.		6	6	0	8	9	-	2	0	1	6	-	1	7

1. Railway Board's Order No. : 2016/M(C)/142/1, Dated 02.03.17
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)1102 (NPPE) 2) 1104(PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO		ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s-E.C Blades & tools Pvt. Ltd.	PP END	66089	NPP END	66089
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL				
3.	End wall	PP	M/s-E.C Blades & tools Pvt. Ltd.	RH	66089	LH	66089
		NPP	M/s-E.C Blades & tools Pvt. Ltd.	PP END	66089	NPP END	66089
4.	Roof		M/s-Indira Industries Ranipet Chennai				
5.	Centre Buffer Coupler		M/s Escorts Ltd. Railway equipment division ,Faridabad	PP END	7612	NPP END	7613
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/cm². ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm². OK	7 sec. 3.0 kg/cm² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm²/min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm²/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	89/85
2.	Insulation			

*[Signature]*  
SSE/QC/MCF/RBL







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**8. DETAIL OF BOGIES :**

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161148				161147			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-244				VS/RBL-397			
Bolster no.	MCF/RBL/VS-0059				AMIT ENGG.-156			
Axle No	S - 2884		S - 2895		R - 2859		S - 3487	
Wheel Dia	917.548	917.542	917.548	917.565	917.520	917.519	917.552	917.537
Wheel Disc No	00053-6215 VR-08-16	00138-6218 VR-08-16	00093-6219 VR-09-16	00113-6214 VR-09-16	00157-6219 09-16	00054-6219 09-16	00130-6187 08-16	00051-6219 09-16
R.B. Nos.	03-16 87942	03-16 86420	03-16 87961	02-16 80276	03-16 87830	02-16 81035	03-16 87957	02-16 81250
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.	DN15-0-1332	CMGBD11-16- 5100-139-102	DN16W-2068	CMGBD11-16- 5100-139-40	DN16-S-1599	CMGBD08-16- 5100-90-14	DN16-S-1607	CMGBD-08-16- 5100-90-5
Compressed Ht. at Tested Load	516	472	514	472	512	472	513	472
Alignment deviation (mm)	10	6	13	8	8	9	9	9

**10. TRACEABILITY OF BOGIE ITEMS:**

S NO	ITEM	MAKE/ SUPPLIER	SERIAL NO	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	L&S	07-16 2612	07-16 2612
2.	Primary Inner Spring	L&S	06-16 1434	06-16 1434
3.	Primary Damper	GEREP	KW 44-2016 301530049	KW 44-2016 301530049
4.	Secondary Damper	KONI	45-2016(10402,10352)	45-2016(10319,10424)
5.	Lateral Damper	KONI	15-2016 4711	22-2016 5388
6.	Brake Cylinder	KBI	4975K29,4896K29,4894K29,4977K29	5449K29,5172K29,5182K29,5447K29
7.	Brack Caliper	KBI	4523-29,4587-29,4585-29,4522-29	4863-29,4823-29,4834-29,4862-29
8.	Brake Disc	KBI	24088852 0019-51/16,24088852 0023-51/16 24088851 0037-51/16,24088851 0039-51/16	24088852 0022-51/16,24088852 0018-51/16 24088850 0037-51/16,24088850 0036-51/16
9.	Ball Joint Control Arm	GMT		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	J107-16		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction Canter	SGA		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	MTC		
17.	Anti roll bar make	SARITA/EMSON		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL





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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	PASS17A206
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	
4.	PVC	M/s Premier polyfilm, New Delhi	2016M2885
5.	Foot Step	M/s Hi tech, RBL	
6.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
7.	Decoupling arrangement	M/s Elastomer Pvt. Ltd., Mumbai	
8.	Body Side Window	M/s AGF Pvt. Ltd. Kolkata	
9.	Emergency Window	M/s Macedon Vinimay Pvt. Ltd, Kolkata	
10.	Hopper Window	M/s Aikon Technologies Pvt. Ltd., Kolkata	
11.	Body Side Doors 1,2,3,5,6	M/s JBM, Faridabad	
12.	Body Side Doors 4	M/s Air Flow, Chennai	
13.	Bio Tank	N.A.	
14.	Overhead Water Tank( 4X390L)	M/s Rail Fab. KXH	
15.	Bib Cock/Controlled Discharge Tap	M/s Agmeco. Faucet Pvt.Ltd. Mohali	
16.	Lavatory Doors	N.A.	
17.	Seat & Berth	M/s Ananya Rail Coach Component India RBL	

  
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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 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.

#### 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

SSE/OC/MCF/RBL वरी 0अनु 0 अभियन्ता गुणवत्ता विभाग रेल डिप्ट 0, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक यांत्रिक अभियन्ता/गुणवत्ता-1 Assistant Mechanical Engineer/Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CME/FUR/MCF/RBL अधीक्षक यंत्रणा/आपूर्ति विभाग Dy.CME/FURNISHING रेल डिप्ट 0, रायबरेली (लालगंज) RCF / RBL / LLJ





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	174086/C	TYPE COACH	LGS
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	

*D. Kumar*  
**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>TRINITRON</b> On Board Sr no : <b>3377/355/066</b> HT Panel Sr no : <b>3377/355/066</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>CROMPTON GREAVES</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>FLOLITE</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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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>ISG</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>SSK</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>HI REL</b> Sr no: <b>16030774</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>639</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>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02</b>
18.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0116432747</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>HBL</b> Lug date : <b>06/2016</b>	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>HI TECH</b>	CC 91205	<b>01</b>

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

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

उप निदेशक अभियन्ता  
उत्पादन एवं योजना  
आपरेटिंगका/लालगंज/रायबरेली  
Dy.C.E.E./Prod & Plg/M.C.F./LLJ/RBL