

LSJ-65



# 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/ 530

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

- Railway Board's Order No. : 2016/M(C)/142/1, Dated 06.02.17
- 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)1095 (NPPE) 2) 1103(PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/s-Rail tech Pvt. Ltd. kapurthala
		Complete	M/s-MCF/RBL
2.	Side wall		M/s-MCF/RBL
3.	End wall	PP	M/s-Rail tech Pvt. Ltd. kapurthala
		NPP	M/s-E.C Blades & tools Pvt. Ltd.
4.	Roof		M/s-TI Metal forming Thiruninravur
5.	Centre Buffer Coupler		M/s Escorts Ltd. Railway equipment division, Faridabad
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"> <li>Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>Max. pressure in BC</li> <li>All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	9 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	<ul style="list-style-type: none"> <li>Exhaust BP @ 0.3 kg/cm<sup>2</sup>/min.</li> </ul>	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> <li>Exhaust BP @ 0.1 kg/cm<sup>2</sup>/Sec, after 06 Sec.</li> </ul>	Brake must apply	OK

#### 7. PAINTING DETAILS:

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

SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०का०, रायबरेली (लालगंज)





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RLY	W	R		Type	L	S	-	3		Shell No.		6	6	0	9	4	-	2	0	1	6	-	1	7

### 8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	160899				160900			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-402				VS/RBL-393			
Bolster no.	VS/RBL-055				VS/RBL-64			
Axle No	S - 3800		S - 1653		V - 1632		V - 1147	
Wheel Dia	917.543	917.348	917.584	917.398	917.604	917.571	917.628	917.583
Wheel Disc No	00063-6186 VR-09-16	00062-6191 VR-08-16	00111-6177 VR-09-16	00170-6186 VR-09-16	00160-6216 08-16	00068-6217 09-16	00133-6218 08-16	00161-6216 08-16
R.B. Nos.	04-16 94435	05-16 62999	07-16 73462	05-16 97404	09-16 76692	09-16 77523	03-16 87522	09-16 79027
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.	CMGBD12-16- 5101-136-43	CMGBD11-16- 5100-139-106	CMGBD12-16- 5101-136-86	CMGBD11-16- 5100-139-55	DN16-P-1686	DN16K-1363	DN16-P-1789	DN16K-1236
Compressed Ht. at Tested Load	513	472	513	472	512	471	512	471
Alignment deviation (mm)	9	11	8	9	8	17	11	17

### 10. TRACEABILITY OF BOGIE ITEMS:

S NO	ITEM	MAKE/ SUPPLIER	SERIAL NO	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	L&S	07-16 CM 2612	07-16 2612
2.	Primary Inner Spring	L&S/CMFSK	06-16 CVA 1434	11-16-1101-218(137,17,73,152)
3.	Primary Damper	GEREP	KW 44-2016 301530049	KW 44- 2016 301530049
4.	Secondary Damper	KONI/KNORR	45-2016(10369,10449)	10-2016(0157,0160)
5.	Lateral Damper	KONI	15-2016 4099	15-2016 4668
6.	Brake Cylinder	KBI	5331K29,5256K29,5257K29,5332K29	5408K29,5227K29,5228K29,5407K29
7.	Brack Caliper	KBI	4798-29,4886-29,4887-29,4799-29	4823-29,4858-29,4859-29,4822-29
8.	Brake Disc	KBI/FAV	24088856 0028-52/16,24088856 0026-52/16 24088857 0028-53/16,24088857 0027-53/16	(11-16-5983,11-16-5981,12-16-6078,12-16-6065) D 133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN/SGA		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	JI		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction Canter	SGA		
15.	Secondary Rubber Pad	TECSPA		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL





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**ROLLING STOCK CERTIFICATE**

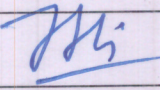
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RLY	W	R	Type	L	S	3	-	-	Shell No.	6	6	0	9	4	-	2	0	1	6	-	1	7
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**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS16L1923
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016K2726
4.	PVC	M/s Premier polyfilm, New Delhi	
5.	Foot Step	M/s Hi tech, RBL	
6.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
7.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
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 Rail Tech,Kapurthala (P.B)	
11.	Body Side Doors 2,3,4,5,6	M/s JBM, Faridabad	
12.	Body Side Doors 1	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	

  
SSE/QC/MCF/RBL

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RLY	W	R	Type	L	S	3	-	-	Shell No.		6	6	0	9	4	-	2	0	1	6	-	1	7

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	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.

**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 वरि०अनु० अभियंता गुणवत्ता विभाग रे०डि०का०, 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 डि० सु० यां.अभि / फर्नि. DY CME/FURNISHING रेल कोच फैक्ट्री / 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	174066/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	

*W. K. Sharma*  
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>ISG</b> On Board Sr no : <b>17.02.116</b> HT Panel Sr no : <b>17.02.117</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02	Emergency light system for EOG type coaches (AEL), Make : <b>VGL</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>DR AUTO</b>	CC 76213, Alt`d'.	<b>26</b>
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : <b>DR AUTO</b>	CC 76216, Alt `c'.	<b>02</b>

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





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>ISG</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>HIREL</b> Sr no: <b>16030765</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>617</b>	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0`, TypeI.	<b>01</b>
15.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>S INTERNATIONAL</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>S I, 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>0116432725</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>11/2016</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>

**SSE/EL/QC**

**Dy CEE(P)/MCF/RBL**

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

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