



# 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/ 527

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

- Railway Board's Order No. : 2016/M(C)/142/1, Dated 02.03.17
- 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)1105 (NPPE) 2) 1105(PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s-Sidhu Industrial corporation, KXH	PP END	66084	NPP END	66084
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	66084	LH	66084
3.	End wall	PP	M/s-Rail tech Pvt. Ltd. kapurthala	PP END	66084	NPP END	66084
		NPP	M/s-E.C. Blades & tools Pvt. Ltd, Chandigarh				
4.	Roof		M/s-Indara industries corporation				
5.	Centre Buffer Coupler		M/s Escorts Ltd. Railway equipment division ,Faridabad	PP END	7155	NPP END	7141
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	89/87
2.	Insulation			

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
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रे०डि०का०, रायबरेली (लालगंज)



665-60

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RLY	W	R		Type				L	S	-	3		Shell No.				6	6	0	8	4	-	2	0	1	6	-	1	7							

### 8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161182				161181			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-427				VS/RBL-438			
Bolster no.	VS/RBL-0071				SFPL-142			
Axle No	V - 1482		P- 9578		V-1291		V-2322	
Wheel Dia	917.563	917.503	917.607	917.526	917.587	917.472	917.582	917.535
Wheel Disc No	00137-6202 VR-09-16	00105-6186 VR-09-16	00157-6214 VR-09-16	00025-6212 VR-08-16	00101-6193 08-16	00126-6193 08-16	00033-6188 09-16	00039-6191 08-16
R.B. Nos.	07-16 06825	07-16 05782	07-16 07030	07-16 05064	07-16 06795	09-16 07536	07-16 06756	07-16 06291
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

### 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.	CMFSK02-17F09-240-26	CMFSK02-17F08-231-99	CMFSK02-17F09-240-70	CMFSK02-17F08-231-66	CMFSK02-17F09-240-30	CMFSK02-17F8-231-41	CMFSK02-17F9-240-78	CMFSK02-17F231-132
Compressed Ht. at Tested Load	515	468	513.5	469	514	472	513	471
Alignment deviation (mm)	10	6	10	6	6	6	6	6

### 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(236,30,41,137)	01-17 1100-233(126,123,209,274)
2.	Primary Inner Spring	L&S	06-16 1434	06-16 1434
3.	Primary Damper	KNORR	07-16(2581,2658,2471,2799)	07-16(2614,2539,2458,2608)
4.	Secondary Damper	GABRIL	01-2017(0473,0472)	01-2017(0474,0434)
5.	Lateral Damper	KONI	22-2016 5533	22-2016 5345
6.	Brake Cylinder	KBI	5411K29,5278K29,5276K29,5410K29	5409K29,5277K29,5141K29,5247K29
7.	Brack Caliper	KBI	4826-29,4919-29,4916-29,4825-29	4824-29,4917-29,4820-29,4713-29
8.	Brake Disc	FAV	D133561-300(6247)12-16 D133561-300(317,308,309)01-17	D133561-300(6244)12-16,D133561300(314)01-17 D133561-300(6235,6254)12-16
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI07-16		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction Canter	SGA		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/SGA		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL





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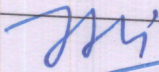
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11. TRACEABILITY OF FURNISHING ITEMS

### 11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS16L1953
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	
4.	PVC	M/s Premier polyfilm, New Delhi	2016L2754
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 safe,Kapurthala (P.B)	
11.	Body Side Doors	M/s JBM, Faridabad	
12.	Bio Tank	N.A.	
13.	Overhead Water Tank( 4X390L)	M/s Rail Fab. KXH	
14.	Bib Cock/Controlled Discharge Tap	M/s Agmeco. Faucet Pvt.Ltd. Mohali	
15.	Lavatory Doors	N.A.	
16.	Seat & Berth	M/s Savitri Engg. Prod. Paonta Sahib	

  
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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	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 qualityrcfbl@gmail.com

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

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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

डि० सु.या.अभि./फनि.  
DY CME/FURNISHING  
रेल कोच फैक्ट्री / रायबरेली / लालगंज  
RCF / RBL / LLJ





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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	174016/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	

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>3377/355/115</b> HT Panel Sr no : <b>3377/355/115</b>	EDTS 333, Rev `01'Am-1	<b>01</b>
02	Emergency light system for EOG type coaches (AEL)	EDTS 151, Rev -c Am-1 & 2	<b>04</b>
04.	Lavatory light fitting assly	LW 76001, Alt nil	<b>04</b>
05.	Fitment of Passenger Alarm cum indication light (PACIL).	As per drg no. LW 76005, Alt -e 02 nos	<b>02</b>
06.	Fitment of Switch Plate Assly (Cabin Side)	EDML 127, Rev-1	<b>10</b>
07.	Fitment of Switch Plate Assly (Corridor Side)	EDML 127, Rev-1	<b>10</b>
08.	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>
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033, Alt `c,	<b>04</b>
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213, Alt `d'.	<b>24</b>
11.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	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

12.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	<b>24</b>
13.	Battery fuse box +ve Make : <b>ISG</b>	LW 71001,Alt-F	<b>01</b>
14.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
15.	Regulated battery charger Make : <b>HI REL</b> Sr no: <b>16030769</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
16.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>617</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	<b>01</b>
17.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev`e' Am-2	<b>02 sets</b>
18.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>02</b>
19.	Wheel set earthing equipment. Make : <b>CHANDA&amp;CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
20.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no: <b>0116212495</b>	M/s : <b>KNORR</b>	<b>01 set</b>
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH MODIFIED TRAY TOSKED-644 Make : <b>HBL</b> Lug date : <b>12/2016</b>	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	<b>01 set</b>
22.	Battery box for LHB coaches.	CC 91205	<b>01</b>

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

वरिष्ठ अनुभाग अभियन्ता  
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 & Plan/M.C.F./LLJ/RBL

