



# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 287

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

- Railway Board's Order No. : 2015/M(C)/142/1 Dated. 18.05.2016
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) 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)1104 (NPPE) 2)1105 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

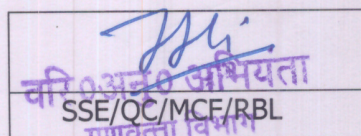
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s Sidhu Industrial Corporation, KXH	PP END	67086	NPP END	67086
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	67086	LH	67086
3.	End wall		PP- M/s E.C.Blade & Tool Chandigarh	PP END	67086	NPP END	67086
			NPP- M/s E.C.Blade & Tool Chandigarh				
4.	Roof		M/s-MCF/RBL				
5.	Centre Buffer Coupler		M/s ESCORTS	PP END	6009	NPP END	6013
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	7 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	GS	92/89
2.	Insulation		Satisfactory	



रेडिंक 0, रायबरेली (लागवज)



LSCN-180

**MODERN COACH FACTORY, RAEBARELI****आधुनिक रेल डिब्बा कारखाना, रायबरेली**

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

**8. DETAIL OF BOGIES :**

ITEMS	PP Side				NPP Side			
Bogie No	160600				160599			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-82				RBL-290			
Bolster no.	MCF/RBL-735				RBL-792			
Axle No	S-2023 RWF		S-2030 RWF		S-3094 RWF		S- 2885 RWF	
Wheel Dia	917.209	917.276	917.174	917.268	917.199	917.264	917.232	917.308
Wheel Disc No	00071-6011 05-16	00118-6011 06-16	00046-6008 06-16	00173-6108 7-16	00094-6067 06-16	00069-60008 06-16	00073-6011 06-16	00033-6008 06-16
R.B. Nos.	05-16 04266	05-16 04317	06-16 04722	05-16 04322	06-16 04624	06-16 04621	05-16 03919	05-16 04190
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.	G16-5-114-32	G16-6-125-32	G16-5-107-31	G16-6-006-31	G16-6-115-35	G16-6-012-35	G16-5-006-35	G16-6-001-35
Compressed Ht. at Tested Load	514	470	515	470	513	470	513	470
Alignment deviation (mm)	1	8	1	10	01	6	02	7

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	G	G 16-5	G 16-5
2.	Primary Inner Spring	G	G16-6	G16-6
3.	Primary Damper	KONI	05-2016(32478,32496,32604,32614)	05-2016(32615,32520,31910,32343)
4.	Secondary Damper	GREEP	KW 24-2016 301550739	KW 24-2016 301550739
5.	Lateral Damper	KONI	22-2016 5056	22-2016 5071
6.	Brake Cylinder	KBI	4427K29,4351K29,4361K29,4426K29	4429K29,4353K29,4352K29,4430K29
7.	Brake Caliper	KBI	4006-29,4068-29,4067-29,4007-29	4008-29,4070-29,4069-29,4009-29
8.	Brake Disc	FAV	08-16(3579,3407,3309,3303) D 133561-300	08-16(3284,3209,3214,3308) D 133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI.12.15		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	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		

Signature of SSE/Bogie/QC



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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	0	8	6	-	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	16H1787
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016H2574
4.	PVC	M/s Premier Polyflim Ltd. DLI	
5.	UIC Vestibule (PPE)	M/s Cemcon Industries, DLI	
6.	UIC Vestibule (NPPE)	M/s Cemcon Industries, DLI	
7.	Foot Step	M/s Hi-tech Infra RBL	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
10.	Body Side Window	M/s AGF Pvt. Ltd , Kolkata	
11.	Emergency Window	M/s AB Composites, Kolkata	
12.	Hopper Window	M/s Rail Tech, KXH	
13.	Non-AC Area Ceiling	M/s Gandhi Safe & Allied, Jalandhar	
14.	Body Side Doors	M/s JBM ,Faridabad/Sukata, CDH	
15.	Vestibule Door(PPE)	M/s Kalsi, LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi, LDH	
17.	Bio Tank	M/s Rail Tech, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank ( 2X685L)	M/s Amit Engg, Mohali Punjab	
20.	Under Slung Water Tank (1X450L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s KPR Industries, Mohali	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Savitri Engg. Products Paonta Sahib	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडि0का0, रायबरेली (ल. 17/18)



# Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	0	8	6	-	2	0	1	6	-	1	7
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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, mirrors, roller blinds, curtain & bulbs 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

वरि०अनु० अभियंता SSE/QC/MCF/RBL मुंबई	AME/QC/MCF/RBL G.S. Pandey सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy CME/FURN/MCF/RBL DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लालगंज RCF / RBL / LLJ





Govt. of India- Ministry of Railways  
(MODERN COACH FACTORY RAEBARELI)



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16271/C
RAILWAY	CR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL,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	

*P. K. Sharma*  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



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MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES**

01.	Switch board cabinet Make : <b>SSK</b> On board Sr no : <b>2016.07.051</b> HT panel Sr no : <b>2016.07.059</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller& pump box Make: <b>D R AUTO</b> Sr no PA: <b>2016/08/0061</b> Sr no.1: <b>16060025</b> Sr no.2: <b>16070183</b> Srno.CPA: <b>2016/08/093</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	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	
06.	Fitment of Switch Plate Assly(Cabin Side)	EDML 086, Rev-03.	<b>10</b>
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	<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.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	<b>10</b>

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



**Govt. of India- Ministry of Railways  
(MODERN COACH FACTORY RAEBARELI)**



MCF/RBL/QEFSCN- 8001

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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES**

12.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	CC 76216, Alt `c'.	<b>02</b>
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	<b>24</b>
14.	Battery fuse box +ve Make : <b>NEC</b>	LW 71001,Alt-F	<b>01</b>
15.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
16.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>061602385</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
17.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>506</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	<b>01</b>
18.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>S INTERNATIONAL</b>	As per spec No EDTS 105,Rev`e' Am-2	<b>02 sets</b>
19.	Feeder junction boxes. Make : <b>AECO</b>	EDTS-328 REV-C	<b>02</b>
20.	Wheel set earthling equipment. Make : <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02</b>
21.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr no : <b>0116172426</b>	M/s : <b>KNORR</b>	<b>01 set</b>
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WITH 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>
23.	Battery box for LHB coaches.	CC 91205	<b>01</b>

 <b>SSE/EL/QC</b>	 <b>Dy CEE(P)/MCF/RBL</b>
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वरिष्ठ खण्ड अभियन्ता  
विद्युत उत्पादन-गुणवत्ता

उप मुख्य विद्युत अभियन्ता (उत्पादन)  
रेल कोच फैक्ट्री-रायबरेली, लालगंज