

253-64



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/ 529

Rolling Stock Certificate No.: MCF/RBL/QC/KC/2013																						
Coach No.		1	7	4	0	5	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	3	-	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)1102 (NPPE) 2) 1104(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/s-Rail tech Pvt. Ltd. kapurthala	PP END 66093 NPP END 66093
		Complete M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 66093 LH 66093
3.	End wall	PP M/s-Rail tech Pvt. Ltd. kapurthala	PP END 66093 NPP END 66093
		NPP M/s-Rail tech Pvt. Ltd. kapurthala	
4.	Roof	M/s-TI Metal forming Thiruninravur	
5.	Centre Buffer Coupler	M/s Escorts Ltd. Railway equipment division ,Faridabad	PP END 7967 NPP END 7942
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 ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	7 sec. 3.0 kg/cm ² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm ² /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	93/87
2.	Insulation			

[Signature]
SSE/QC/MCF/RBL

वरिष्ठ अनु अभियंता
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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

8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161157				161158			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-264				ECBT-261			
Bolster no.	SCI -21				SCI - 19			
Axle No	S - 3878		S - 1768		V - 1301		V - 1611	
Wheel Dia	917.630	917.611	917.676	917.626	917.486	917.591	917.492	917.602
Wheel Disc No	00063-6175 VR-07-16	00196-6046 VR-06-16	00176-6215 VR-08-16	00141-6187 VR-08-16	00191-6186 VR 09-16	00075-6186 VR 09-16	00064-6186 VR 09-16	00083-6180 VR 07-16
R.B. Nos.	09-16 77433	05-16 97902	09-16 77127	11-16 94431	03-16 86078	09-16 76853	03-16 86062	07-16 73264
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-I-1693	DN16H-1188	DN16P-1846	DN16K-1223	DN16-P-1700	DN16I-1217	DN16-P-1737	DN16K-1220
Compressed Ht. at Tested Load	513	471	512	467	513	472	513	470
Alignment deviation (mm)	5	15	5	14	7	15	7	15

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(325,115,232,109)	01-17 1100-233(108,40,152,260)
2.	Primary Inner Spring	CMFSK/L&S	05-16-1101-148-8,11-16-1101-218(239,69,226)	06-16 1434
3.	Primary Damper	GEREP	KW 44-2016 301530049	KW(24-2016,44-2016,24-2016,24-2016)301530049
4.	Secondary Damper	GABRIEL/KNORR	11-16(234,230)	07-16(0110,0046)
5.	Lateral Damper	KONI	22-2016 4899	22-2016 5405
6.	Brake Cylinder	KBI	5223K29,5165K29,5130K29,5277K29,	5224K29,5163K29,5166K29,5222K29
7.	Brack Caliper	KBI	4689-29,4814-29,4781-29,4744-29	4690-29,4812-29,4815-29,4688-29
8.	Brake Disc	FAV/KBI	D133561-300(6165,6167,6180,6218)12-16	24088855 0032-52/16,24088855 0039-52/16 24088855 0009-52/16,24088855 0008-52/16
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	SARITA/JI12-15		
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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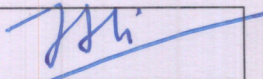
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Coach No.	1	7	4	0	5	6	/	C	DATE OF DISPATCH	2	6	0	3	2	0	1	7
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RLY	W	R	Type	L	S	3	-	-	Shell No.	6	6	0	9	3	-	2	0	1	6	-	1	7
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS17A2059
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016L2900
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 AB Composites 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 2,3,5,6	M/s JBM, Faridabad	
12.	Body Side Doors 1,4	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	


SSE/QC/MCF/RBL

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रेडिओ, रायबरेली (लालगंज)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 529

Rolling Stock Certificate No.: MCR 1234567																						
Coach No.		1	7	4	0	5	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	3	-	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 &
			Frequency	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/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

सुप.सु.या.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

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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	174056/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	

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



Modern Coach Factory Raebareli
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ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : ISG On Board Sr no : 17/02/0119 HT Panel Sr no : 17/02/0113	EDTS 333, Rev` 01`Am-1	01
02	Emergency light system for EOG type coaches (AEL)	EDTS 151, Rev -c Am-1 & 2	04
04.	Lavatory light fitting assly	LW 76001, Alt nil	04
05.	Fitment of Passenger Alarm cum indication light (PACIL).	As per drg no. LW 76005, Alt -e 02 nos	02
06.	Fitment of Switch Plate Assly (Cabin Side)	EDML 127, Rev-1	10
07.	Fitment of Switch Plate Assly (Corridor Side)	EDML 127, Rev-1	10
08.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : R KANWAR	IS 6680/92, First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033, Alt` c,	04
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213, Alt` d'.	24
11.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	CC 76216, Alt ` c'.	02

(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.	24
13.	Battery fuse box +ve Make : ISG	LW 71001,Alt-F	01
14.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
15.	Regulated battery charger Make : HI REL Sr no: 16030777	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 607	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
17.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	As per spec No EDTS 105,Rev` e' Am-2	02 sets
18.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
19.	Wheel set earthling equipment. Make : MAA LAXMI,CHANDA	EDTS101,REV-C,AM-1	02
20.	Wheel Slide Protection System (WSP) Make : KNORR Sr no: 011622636	M/s : KNORR	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
22.	Battery box for LHB coaches.	CC 91205	01

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आउरेडि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

Dy CEE(P)/MCF/RBL

उप मुख्य विद्युत अभियन्ता
उत्पादन एवं योजना
आउरेडि०का० / लालगंज / रायबरेली
Dy.C.E.E./Prod & Ptg/M.C.F./LLJ/RBL