



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/ 528

Coach No.		1	7	4	0	4	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	1	-	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)1105 (NPPE) 2) 1100(PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS.							
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s Rail Tech, (PP) M/s-E.C. blades & tools Pvt. Ltd. Chandigarh(NPP)	PP END	66091	NPP END	66091
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	66091	LH	66091
3.	End wall	PP	M/s-Rail tech Pvt. Ltd. kapurthala	PP END	66091	NPP END	66091
		NPP	M/s-E.C. blades & tools Pvt. Ltd. chandigarh				
4.	Roof		M/s-TI Metal forming Thiruninravur				
5.	Centre Buffer Coupler		M/s Escorts Ltd. Railway equipment division ,Faridabad	PP END	7635	NPP END	7621
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"> 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/cm ² . OK	9 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> 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	90/87
2.	Insulation			

SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)



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

8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161204				161203			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-255				ECBT-225			
Bolster no.	MCF/RBL -815				VS/RBL-58			
Axle No	S - 1531		V-1516		S-1654		S -1947	
Wheel Dia	917.677	917.599	917.692	917.579	917.614	917.590	917.675	917.594
Wheel Disc No	00029-6196 VR-08-16	00066-6196 VR-08-16	00047-6217 VR-09-16	00006-6196 VR-08-16	00132-6218 08-16	00038-6218 08-16	00179-6183 08-16	00013-6217 09-16
R.B. Nos.	05-16 62445	03-16 87515	05-16 62196	03-16 87512	09-16 77519	03-16 87608	05-16 62307	03-16 87509
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-S-1550	CMGBD11-16-5100-139-35	DN16U-1462	CMGBD11-16-5100-139-39	DN16-U-1428	CMGBD11-16-5100-139-77	DN16-S-1625	CMGBD-11-16-5100-139-74
Compressed Ht. at Tested Load	516	472	514	472	514	472	516	472
Alignment deviation (mm)	8	8	8	8	12	8	11	5

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(45,267,334,335)	01-17 1100-233(194,225,229,297)
2.	Primary Inner Spring	L&S	06-16 CVA 1434	06-16 CVA 1434
3.	Primary Damper	GEREP	KW 44-2016 301530049	KW 44-2016 301530049
4.	Secondary Damper	KNORR	07-16(0086,0066)	07-16(0064,0041)
5.	Lateral Damper	KONI	22-2016 5520	22-2016 5568
6.	Brake Cylinder	KBI	5232K29,5111K29,5112K29,5233K29	5317K29,5266K29,5265K29,5318K29
7.	Brack Caliper	KBI	4698-29,4762-29,4763-29,4699-29	4787-29,4897-29,4896-29,4785-29
8.	Brake Disc	FAV	D133561-300(6100,6095,6086,6076)12-16	D133561-300(6105,6182,6091,6084)12-16
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI		
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/SARITA		
18.	Roll Link make	SARITA/MGN/SGA		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL



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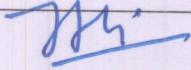
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11. TRACEABILITY OF FURNISHING ITEMS:

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S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS17A2072
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	
4.	PVC	M/s Premier polyfilm, New Delhi	2016M2922
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 Macedon Vinimay 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 Agme co. Faucet Pvt.Ltd. Mohali	
16.	Lavatory Doors	N.A.	
17.	Seat & Berth	M/s Savitri Engg. Products Pvt. Ltd. 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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com

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

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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

सुष मु.या.अभि./फर्नि.
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		174046/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

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





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01.	Switch board cabinet Make : ISG On Board Sr no : 16/12/0086 HT Panel Sr no : 17/02/0119	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
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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: 16030767	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 605	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
17.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	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: 0116212488	M/s : KNORR	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH 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	Dy CEE(P)/MCF/RBL

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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 & Ptg/M.C.F./LLJ/RBL



रेडिका/रायबरेली