



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/ 533

Coach No.		1	7	4	0	3	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	8	8	-	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
- 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)1097(NPPE) 2) 1095(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part M/s-Shivalic Fastners Pvt Ltd Mohali	PP END 66088 NPP END 66090
		Complete M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 66088 LH 66088
3.	End wall	PP M/s-E.C. blades & tools Pvt. Ltd. Chandigarh	PP END 66088 NPP END 66088
		NPP M/s-E.C. blades & tools Pvt. Ltd. Chandigarh	
4.	Roof	M/s-Indira, Industries, Ranipet, Chennai	
5.	Centre Buffer Coupler	M/s Escorts Ltd. Railway equipment division, Faridabad	PP END 7606 NPP END 7630
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	8 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 BERGER	89/87
2.	Insulation			

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान अभियंता
मुख्य विभाग
रेल डिब्बा कारखाना, रायबरेली (जालगाँव)



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8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161166				161165			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-246				ECBT-256			
Bolster no.	SCI -38				SCI -40			
Axle No	V - 1658		V-1556		V-1253		V-1076	
Wheel Dia	917.554	917.593	917.577	917.602	917.582	917.612	917.610	917.615
Wheel Disc No	00012-6186 VR-09-16	00024-6183 VR-07-16	00127-6186 VR-09-16	00154-6186 VR-09-16	00125-6183 07-16	00016-6217 09-16	00189-6203 08-16	00062-6186 09-16
R.B. Nos.	09-16 07742	09-16 07637	09-16 07341	09-16 07569	09-16 07510	09-16 07302	09-16 07368	09-16 07379
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.	DN16P-1804	DN16H-1070	DN16U-1416	DN16H-1506	DN16-S-1503	DN16H-1502	DN16-S-1525	DN16H-1034
Compressed Ht. at Tested Load	514	472	514	471	512	469	512	469
Alignment deviation (mm)	12	12	11	10	11	9	12	9

10. TRACEABILITY OF BOGIE ITEMS:

S NO	ITEM	MAKE/ SUPPLIE R	SERIAL NO	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	L&S	07-16 2612	07-16 2612
2.	Primary Inner Spring	L&S	06-16 1434	06-16 1434
3.	Primary Damper	GEREP	KW 24-2016 301530049	KW 24-2016 301530049
4.	Secondary Damper	GABRIEL	01-17-0435,11-16-0440	11-16-0438,01-17-0437
5.	Lateral Damper	KONI	22-2016 5504	22-2016 5514
6.	Brake Cylinder	KBI	5131K29,5094K29,5093K29,5118K29	5132K29,5095K29,5096K29,5130K29
7.	Brack Caliper	KBI	4678-29,4745-29,4744-29,4676-29	4679-29,4746-29,4747-29,4677-29
8.	Brake Disc	FAV	D133561-300(6034,6015,6014,6035)11-16	D133561-300(6232,6228,6231,6225)12-16
9.	Ball Joint Control Arm	GMT		
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	MTG		
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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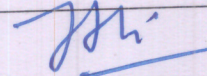
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RLY	W	R	Type	L	S	3	-	-	Shell No.	6	6	0	8	8	-	2	0	1	6	-	1	7
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS17A2063
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016M2880
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 Aikon Tech. Pvt. Ltd., salon (H.P)	
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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रे०डि०का०, रायबरेली (लालगंज)



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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 &
			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

डि०यु.सां.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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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	174036/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 : 17/02/0117 HT Panel Sr no : 17/02/0118	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

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





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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: 16030755	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 628	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 earthing equipment. Make : CHANDA&CHANDA	EDTS101,REV-C,AM-1	02
20.	Wheel Slide Protection System (WSP) Make : KNORR Sr no: 0116212501	M/s : KNORR	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 12/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
22.	Battery box for LHB coaches.	CC 91205	01

[Signature]
SSE/EL/QC

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

[Signature]
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

