



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/ 574

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

- Railway Board's Order No. : 2016/M(C)/142/1, Dated -29-07-16
- 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)1095 (NPPE) 2)1104(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	M/s-Shivalik Fasteners Pvt. Ltd. Mohali	PP END 66063 NPP END 66063
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 66063 LH 66063
3.	End wall	PP M/s-Neera Chandigarh NPP Neera Chandigarh	PP END 66063 NPP END 66063
4.	Roof	M/s-MCF/RBL	
5.	Centre Buffer Coupler	M/s Escort Pvt. Ltd. Faridabad	PP END 7001 NPP END 7048
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	90/86
2.	Insulation			

SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०क्र०, रायबरेली (उ०प्र०)



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(ANTYODAYA)

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RLY	W	R	Type	L	W	S	-	Shell No.	6	6	0	6	3	-	2	0	1	6	-	1	7
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	161030				161029			
Bogie Type	FIAT				FIAT			
Frame no.	BEC-63				BEC-058			
Bolster no.	RBL-LS5-04				MCF/RBL-LS5-0082			
Axle No	V-1877		S-1964		S-3102		S-3095	
Wheel Dia	917.621	917.603	917.634	917.634	917.412	917.588	917.614	917.605
Wheel Disc No	00140-6217 09-16	00081-6217 09-16	00143-6217 09-16	00062-6217 09-16	00097-6215 08-16	00101-6218 08-16	00034-6218 08-16	00127-6218 08-16
R.B. Nos.	09-16 77357	07-16 73450	09-16 77365	09-16 76697	05-16 98599	09-16 80050	05-16 098579	09-16 077485
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO 16-08-084 16-02	TAYAL & CO 16-08-080 16-02	TAYAL & CO 16-08-064 16-02	TAYAL & CO 16-08-068 16-02

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	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 CVA 1434	06-16 1434
3.	Primary Damper	GEREP	KW 44-16 301530049	44-16 301530049
4.	Secondary Damper	GABRIEL/KNORR	01-17(0456,0458)	02-17(0266,0241)
5.	Lateral Damper	GEREP	KW 43-16 301550559	KW 43-16 301550559
6.	Brake Cylinder	KBI	5396K-29,5241K-29,5248K-29,5394K-29	5395K-29,5244K-29,5243K-29,5416K-29
7.	Brake Caliper	KBI	29(4834,4872,4874,4832)	29(4833,4873,4875,4835)
8.	Brake Disc	FAV/KBI	11-16(6008)D133561-300 12-16(6159,6117)D133561-300 11-16(5965)D133561-300	51-16(0038)24088852,51-16(0017)24088853, 52-16(0035,0034)24088851
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	JI		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	ESCORT	1661,1611	1611,1611
16.	Check Valve	ESCORT	1611	1611
17.	Anti roll bar make	SARITA/EMSON		
18.	Roll Link make	SARITA/MGN/SGA		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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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	Pass16L1914
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016K2717
4.	FIBA	M/s KBI ,Palwal Haryana	PP END NPP END
5.	PVC	M/s Premier polyfilm, New Delhi	
6.	Foot Step	M/s Hi tech, RBL	
7.	Lavatory Module	M/s Hindustan Fiber Ltd. Vadodara	
8.	Lavatory Doors	M/s Hindustan Fiber Ltd. Vadodara	
9.	Water purified	M/s Parag Polymer, Lucknow	
10.	Lavatory Inlay	N/A	
11.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
12.	Body Side Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
13.	Emergency Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
14.	Hopper Window	M/s Shatabdi Safety glass, Vadodara	
15.	Body Side Doors 1	M/s JBM, Faridabad	
16.	Body Side Doors 2,3,4,5,6	M/s Sukata CDG	
17.	Bio Tank	M/s Rail Tech KXH	
18.	Overhead Water Tank(4X390L)	M/s Rail Fab. KXH	
19.	Bib Cock/Controlled Discharge Tap	M/s Jaguar Pvt. Ltd.	
20.	Seat & Berth	M/s Hindustan Fiber Glass works Ltd. Vadodara	

M/S
SSE/QC/MCF/RBL

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12. MODIFICATION (IF ANY) : Water purified fitted as per RDSO RDSO/Spec/ 2015/CG-04**13. DEVIATION (IF ANY)** : NIL**14. ITEM FITTED ON THE COACH ON TRIAL: NIL**

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & 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.
3	Water purified	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 वरिष्ठ अनुष्ठानिक अभियंता गुणवत्ता विभाग रेडिओ, रायबरेली (लागंज)	AME/QC/MCF/RBL जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CME/FUR/MCF/RBL उप मुख्य अभियंता/फर्निशिंग Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लागंज, रायबरेली Modern Coach Factory Laiganj, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

LWS - 19

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	16444/C	TYPE COACH	LWS
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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 3377/355/110 HT Panel Sr no : 3377/355/110	EDTS 333, Rev `01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTEG	EDTS 151,Rev -c Am-1 & 2	04
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : DR AUTO	As per drg no. LW 76005,Alt -e 02 nos	02
04.	Fitment of Switch Plate Assly (Cabin Side) Make : SSK	EDML 127,Rev-1& DRG NO 4248ALT-a	10
05.	Fitment of Switch Plate Assly (Corridor Side) Make : SSK	EDML 127,Rev-1 & DRG NO 4249 ALT-a	10
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : R.KANWER	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
07.	Fitment of Fluorescent light fitting for LHB type coaches. Make : JUKAHSO PVT LTD	LW 76033,Alt `c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : JUKAHSO PVT LTD	CC 76213,Alt `d'.	26
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : KAVERI	CC 76216, Alt `c'.	02

Senior Section Engineer
Quality control / Electrical
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PAGE 3 OF 3

10.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	26
11.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HIREL Sr no: 16080085	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : 533	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	02 sets
16.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
17.	Wheel set earthling equipment. Make : MAA LAXMI & S INTERNATIONAL	EDTS101,REV-C,AM-1	02
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116322632	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 05/16	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA RAIL COACH COMPONENTS	CC 91205	01

SSE/EL/QC	Dy CEE(P)/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आ0रे0डि0का0 / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

उप मुख्य विद्युत अभियन्ता
उत्पादन एवं योजना
आ0रे0डि0का0 / लालगंज / रायबरेली
Dy.C.E.E./Prod & Plg/M.C.F./LLJ/RBL



RCE/RBL