



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/2017-18/ 186

Coach No.				1	7	4	0	2	/	C	DATE OF DISPATCH				0	9	-	0	8	-	1	7
RLY	W	C	R	Type	L	S	5	-	Shell No.	7	6	0	3	3	-	2	0	1	7	-	1	8

- Railway Board's Order No. : 2017/M(C)/142/2 Dated. 25.04.2017
- 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)1099(NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/S Omax auto gurgaon
		Complete	M/S Omax auto gurgaon
2.	Side wall	M/s-MCF/RBL	RH 76033 LH 76033
3.	End wall	PP M/s KEPL/Punchkula	PP END 76033 NPP END 76033
		NPP M/s KEPL/Punchkula	
4.	Roof	M/S TI metal forming thiruniravur	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 8963 NPP END 8968
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	09 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 GS	90/87
2.	Insulation	Satisfactory		

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रायबरेली, रायबरेली (हालगांज)



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8. DETAIL OF BOGIES:


ITEMS	PP Side				NPP Side			
Bogie No	170223				170224			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-883				SCI/FM-853			
Bolster no.	MCF/RBL/LS-5-0170				AAL/MCF-018			
Axle No	V-1326 RWF		V-2022 RWF		S-9733 RWF		S-1067 RWF	
Wheel Dia	917.519	917.557	917.456	917.522	917.493	917.521	917.509	917.505
Wheel Disc No	00186-7321 VR 10-16	00126-6225 VR 08-16	00120-6225 VR 08-16	00117-7253 VR 10-16	00059-6226 VR 09-16	00016-7253 VR 10-16	00016-7251 VR09-16	00106-7250 VR09-16
R.B. Nos.	05-16 99346	02-16 80599	05-16 97836	02-16 80804	09-16 79686	10-16 81656	10-16 81783	10-16 81765
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie PP side		BogieN PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	FSTVS.PVT.LTD.1107-04-2017	FSTVS.PVT.LTD.1105-04-2017	FSTVS.PVT.LTD.1118-04-2017	FSTVS.PVT.LTD.1117-04-2017

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMGBD	03-17-1100-22(100,07,144,116)	03-17-1100-22(114,87,63,89)
2.	Primary Inner Spring	CMAFJ	04-17-1101(08,09,18,25)	04-17-1101 (20,27,12,07)
3.	Primary Damper	KNORR	05-17(8012,7354,7405,7406)	05-17(8007,7273,7349,7359)
4.	Secondary Damper	GABRIEL	11-16(344,361)	11-16(364,365)
5.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
6.	Brake Cylinder	FAV	C17-248,C17-312,C17-284,C17-245	C17-124,C17-105,C17-106,C17-126
7.	Brake Caliper	FAV	D17259B, D17257B, D17258B, D17260B,	D17021B, D17023B, D17024B, D17122B,
8.	Brake Disc	KBI/FAV	24093108-0018-05-17, 24093108-0033-05-17, 24099124-0030-13-17, 24099124-0012-13-17,	02-17-645-D133561-300, 02-17-642-D133561-300, 02-17-539-D133561-300, 02-17-534-D133561-300,
9.	Ball Joint Control Arm	GMT		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA		
12.	Traction lever make	JI-12-16/ SARITA		
13.	Ball joint traction lever	S-BLOC/SGA		
14.	Ball joint traction centre	GMT		
15.	Leveling Valve	KNOOR	01-17(5944,6010)	01-17(6878,6884)
16.	Check Valve	KNORR	01-17 9656	03-17-10009
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA /SGA/GMT		
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 Faively transport tech.india ltd baddi(HP)	D17028B
2.	DV	M/s Faively transport tech.india ltd baddi(HP)	17045518B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 0383/29 NPP END 0424/29
5.	PVC	M/s Premier polyfilm, New Delhi	
6.	UIC Vestibule (PPE)	M/s Suresh SSIPL Mumbai	
7.	UIC Vestibule (NPPE)	M/s-Sunrest ind.kolkata	
8.	Foot Step	M/s Super spark pvt.ltd.faridabad	
9.	Gangway Bridge mounting(PPE)	M/s Mahavir metal works Kapurthala	
10.	Gangway Bridge mounting(NPPE)	M/s Mahavir metal works Kapurthala	
11.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
12.	Body Side Window	M/s AGF Pvt. Ltd, Kolkata	
13.	Emergency Window	M/s Macedon Vinimay Pvt. Ltd, Kolkata	
14.	Hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
15.	Body Side Doors	M/s Sukata CDG	
16.	Bio Tank	M/s Hindustan fibre ltd vadodara	
17.	Overhead Water Tank(4X390L) 1,2	M/s Rubicon fab kapurthala	
18.	Bib Cock/Controlled Discharge Tap	M/s Agmeco. Faucet Pvt.Ltd. UK	
19.	Lavatory Doors	N/A	
20.	Seat & Berth	M/s Oriental veneer products mumbai	
21.	Luggage Rack	M/s Lucky enterprises Gurgaon	

[Signature]
SSE/QC/MCF/RBL

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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 Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake pad, 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 वरिष्ठ अभियंता गुणवत्ता विभाग रेल डिब्बा कारखाना, रायबरेली (लालगंज)	AME/QC/MCF/RBL G.S. Pandey सहायक यंत्रिक अभियंता / गुणवत्ता आधुनिक रेल डिब्बा कारखाना, रायबरेली	Dy. COM/MCF/RBL जोगिंदर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

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	17402/C	TYPE COACH	LGS
RAILWAY	WC	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 : ISG On Board Sr no : 17/05/0169 HT Panel Sr no : 17/05/0117	EDTS 333, Rev `01'Am-1	01
02.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151, Rev -c Am-1 & 2	04
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : D R 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 : IMT CABLES	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 : D R AUTO	LW 76033, Alt `c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : KAVERI	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

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



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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 : INDORAIL	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INDORAIL	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HI REL Sr no: 17010418	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : 16015760	As per RDSO/PE/SPEC/TL 0158,2010, Rev` 0`, TypeI.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev` e` Am-3 TYPE-2	01 set
16.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : CHANDACHANDA	EDTS101,REV-C,AM-1	02 set
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 06/17/202	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : A RAJA Lug date : 05/2017	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : TECHNO INDUSTRIES	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL

वरिष्ठ अनुमान अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow

