	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/ 69

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

- Railway Board's Order No. : 2016/M(C)/142/1, Dated 02.03.17
- 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)1098(NPPE) 2) 1095(PPE)

5. TRACEABILITY OF SHELL ITEMS:

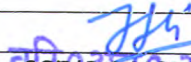
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Ved sssomeccanica india pvt.ltd.cnb	PP END	05	NPP END	05
		Complete	M/S Ved sessomeccanica india pvt.ltd.cnb				
2.	Side wall		M/s-MCF/RBL	RH	76004	LH	76004
3.	End wall	PP	M/s KEPL/Punchkula	PP END	76004	NPP END	76004
		NPP	M/s KEPL/Punchkula				
4.	Roof		M/s-TI Metal forming thiruniravur				
5.	Centre Buffer Coupler		M/s Escorts Ltd. Railway equipment division ,Faridabad	PP END	7101	NPP END	4607
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	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 GS	90/86
2.	insulation	Satisfactory		


 SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 रेडिओका, रायबरेली (लालगंज)



Modern Coach Factory Raebareilly

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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	161091				161092			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS-5-072				MCF/RBL/LS-5-068			
Bolster no.	MCF/RBL/LS-5-100				MCF/RBL/LS-5-022			
Axle No	W-2970		W-3329		W-3701		W-2495	
Wheel Dia	917.519	917.493	917.476	917.463	917.431	917.441	917.414	917.439
Wheel Disc No	00024-6201 VR08-16	00069-6187 VR08-16	00071-6187 VR08-16	00096-6219 VR09-16	00097-6219 VR09-16	00098-6219 VR09-16	00144-6201 VR08-16	00145-6201 VR08-16
R.B. Nos.	12-16-9083	12-16-8691	12-16-08378	12-16-8219	12-16-09100	12-16-08233	12-16-09158	12-16-08270
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AVDH RAIL INFRA LTD. 01-17-141	AVDH RAIL INFRA LTD. 01-17-151	AVDH RAIL INFRA LTD. 01-17-156	AVDH RAIL INFRA LTD. 01-17-164

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMGBD	02-17-1100-04(440,212,207),02-17-1100-05-199	02-17-1100-04(438,208,425),02-17-1100-05-215
2.	Primary Inner Spring	CMFSK	01-17-1101-232(440,314,179,144)	01-17-1101-232(286,79,247,42)
3.	Primary Damper	KNORR	02-17(5241,5243,2713,2499)	02-17(4916,5209,5302,5236)
4.	Secondary Damper	GABRIEL	11-16(328,330)	11-16(327,329)
5.	Lateral Damper	GREEP	KW 43-2016 301550559	KW 43-2016 301550559
6.	Brake Cylinder	KBI	5758-K-29,5588-K-29,5586-K-29,5760-K-29	5757-K-29,5585-K-29,5587-K-29,5761-K-29
7.	Brake Caliper	KBI	5153-29,5199-29,5197-29,5154-29,	5152-29,5196-29,5198-29,5155-29,
8.	Brake Disc	KBI	24093099-0018-02-17, 24093099-0017-02-17, 24088863-0009-01-17, 24088863-0011-01-17,	24088861-0022-01-17, 24093098-0018-02-17, 24088860-0011-01-17, 24088860-0013-01-17,
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	J-I-07-16		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	KNOOR	01-17(5990,5926)	01-17(6047,6018)
16.	Check Valve	KNORR	01-17-9620	01-17-6018
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA /MGN		
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	PASS17B2089
2.	DV	M/s KBI ,Palwal Haryana	2017A2966
3.	Pull box	M/s KBI ,Palwal Haryana	
4.	FIBA	M/s KBI ,Palwal Haryana	PP END 0406/29 NPP END 0397/29
5.	PVC	M/s Responsive ind.mumbai	
6.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
7.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
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 Aikon ind.jalandhar	
15.	Body Side Doors	M/s Sukata CDG	
16.	Bio Tank	M/s Rail Tech. kapurthala	
17.	Overhead Water Tank(4X390L)	M/s Rail 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 Ananya Rail Coach Component India RBL	
21.	Luggage Rack	M/s Lucky enterprises Gurgaon	

SS/OC/MCF/RBL
वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रेलवे डिपार्टमेंट, रायबरेली (लालगंज)

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RLY	E	R	-	Type	L	S	5	-	Shell No.	7	6	0	0	4	-	2	0	1	7	-	1	8
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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:

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 qualityrcfbl@gmail.com

SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिओक्ट 0, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक अभियंता (गुणवत्ता) Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CME/FUR/MCF/RBL जोगिन्दर सिंह Joginder Singh उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

[Type text]



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	ER	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 : SSK On Board Sr no : 2017/02/037 HT Panel Sr no : 2017/02/039	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 : 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 : CROMPTON GREAVES	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 : DR AUTO	LW 76033,Alt`c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DR AUTO,DEW	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
Modern Coach Factory Raebareli





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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 : ISG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HI REL Sr no: 16120324	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : 666	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 : CHANDA&CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116462795	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 : 06/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HI TECH	CC 91205	01

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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

