

LS3-61

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 523

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2515																						
Coach No.		1	7	4	0	2	6	/	C	DATE OF DISPATCH					2	5	0	3	2	0	1	7
RLY	W	R	Type	L	S	3	-	-	Shell No.	6	6	0	9	0	-	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)1096 (NPPE) 2) 1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS:				SERIAL NO			
S NO	ITEM		MAKE/SUPPLIER				
1.	Underframe	Front Part	M/s-E.C. blades & tools Pvt. Ltd. chandigarh	PP END	66090	NPP END	66090
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	66090	LH	66090
3.	End wall	PP	M/s-Rail tech Pvt. Ltd. kapurthala	PP END	66090	NPP END	66090
		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	7626	NPP END	7618
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 DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s VIBGYOR	91/87
2.	Insulation			

SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (उ०प्र०)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/523

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

8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161215				161216			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-269				ECBT-270			
Bolster no.	SCI-17				SFPL-137			
Axle No	S - 1829		V- 1151		S-9208		V-1322	
Wheel Dia	917.655	917.585	917.605	917.570	917.583	917.591	917.562	917.508
Wheel Disc No	00190-6177 VR-09-16	00147-6180 VR-07-16	00140-6177 VR-09-16	00132-6177 VR-09-16	00044-6188 09-16	00066-6203 08-16	00047-6186 09-16	00149-6202 09-16
R.B. Nos.	09-16 079762	09-16 76202	09-16 78836	09-16 076690	09-16 07365	09-16 07436	07-16 04973	07-16 05112
CT R B Make	SKF		SKF		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.	CMFSK11-16- 5101-229-23	CMGBD11-16- 5100-139-69	CMFSK11-16- 5101-229-7	CMGBD08-16- 5100-90-4	CMFSK11-16- 5101-229-36	CMGBD-03-16- 5100-04-133	CMFSK-11-16- 5101-229-54	CMGBD-03-16- 5100-04-132
Compressed Ht. at Tested Load	515	472	514	472	513.5	472	514	472
Alignment deviation (mm)	10	6	10	05	9	5	10	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(49,248,81,308)	12-16 1100-225-16,01-17 1100-233(78,246,154)
2.	Primary Inner Spring	L&S/CMFSK	06-16 1434	11-16 1101-218(33,67,47,136)
3.	Primary Damper	GEREP	KW 24-2016 301530049	KW 44-2016 301530049, 24-2016 301530049
4.	Secondary Damper	GABRIEL	01-2017(420,419)	01-2017(0418,0417)
5.	Lateral Damper	KONI	22-2016 5544	22-2016 5485
6.	Brake Cylinder	KBI	5240K29,5076K29,5077K29,5241K29,	5116K29,5167K29,5169K29,5115K29
7.	Brack Caliper	KBI	4706-29,4726-29,4727-29,4707-29	4663-29,4817-29,4819-29,4662-29
8.	Brake Disc	FAV	D133561-300(6114,6080)12-16 D133561-300(5982,5978)11-16	D133561-300(6083)12-16,D133561300(6060)11-16, D133561-300(337,338)01-17
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	SGA/MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI/SARITA		
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	SARITA		
18.	Roll Link make	SARITA/SGA/MGN		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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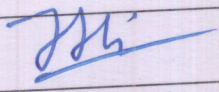
ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 523

Rolling Stock Certificate No.: MCR 1234567																						
Coach No.		1	7	4	0	2	6	/	C	DATE OF DISPATCH				2	5	0	3	2	0	1	7	
RLY	W	R	Type	L	S	3	-	-	Shell No.	6	6	0	9	0	-	2	0	1	6	-	1	7
CAPABILITY OF FURNISHING ITEMS:																		SERIAL NO.				

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS16L1952
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016L2753
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 Rail safe,Kapurthala (P.B)	
11.	Body Side Doors ,	M/s JBM, Faridabad	
12.	Bio Tank	N.A.	
13.	Overhead Water Tank(4X390L)	M/s Rail Fab. KXH	
14.	Bib Cock/Controlled Discharge Tap	M/s Agme co. Faucet Pvt.Ltd. Mohali	
15.	Lavatory Doors	N.A.	
16.	Seat & Berth	M/s Savitri Engg. Products Pvt. Ltd. Paonta Sahib	


SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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

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 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 qualityrcfbl@gmail.com

SSE/QC/MCF/RBL वरि०अनु० अभियंता गुणवत्ता विभाग रे०डि०का०, रायबरेली (लालगंज)	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 रुप मु.या.अभि./फनि. DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लालगंज RCF / RBL / LLJ

65-61

RCF/RB



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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	174026/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



रेलवे / रायबरेली



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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 : 3377/355/114 HT Panel Sr no : 3377/355/114	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

Dr. Kumar
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 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: 16030764	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 643	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
17.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	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 : CHANDA&CHANDA	EDTS101,REV-C,AM-1	02
20.	Wheel Slide Protection System (WSP) Make : KNORR Sr no: 0116422704	M/s : KNORR	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIh 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

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

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
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./Proc & Tg/M.C.F./LLJ/RBL

