



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/ 396

Coach No.	1	6	2	5	5	/	C	-	DATE OF DISPATCH	3	1	0	1	2	0	1	7
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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	6	0	-	2	0	1	6	-	1	7
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- Railway Board's Order No. : 2016/M(C)/142/1 Dated- 18.05.2016
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) 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)1096 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part Complete	M/s Ved Sessomeccanica India Pvt. Ltd. Kanpur M/s-MCF/RBL
2.	Side wall	M/s-MCF/RBL	PP END 67160 NPP END 67160
3.	End wall	PP- M/s E.C.Blade & Tool Chandigarh NPP- M/s E.C.Blade & Tool Chandigarh	RH 67160 LH 67160 PP END 67160 NPP END 67160
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE	PP END 1866 NPP END 1875
5.	Centre Buffer Coupler	M/s SANROK	
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 GS	92/90
2.	Insulation		Satisfactory	

[Signature]
SSE/OC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालाज)



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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160796				160795			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-305				ECBT-122			
Bolster no.	RBL-934				AMIT-97			
Axle No	S-3500		S-3287		S-3025		S-1669	
Wheel Dia	917.338	917.386	917.373	917.402	917.324	917.346	917.427	917.378
Wheel Disc No	00127-6070 06-16	00088-6017 06-16	00083-6105 07-16	00171-6018 06-16	00037-6045 06-16	00089-6045 06-16	00077-6045 06-16	00171-6045 06-16
R.B. Nos.	09-16 07366	09-16 07713	09-16 07763	09-16 07892	09-16 07807	07-16 05009	09-16 07526	07-16 06721
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	G-16-8-205	G-16-9-229	G-16-8-276	G-16-9-403	CMFSK-11-16 5101-229-34	G-16-9-309	CMFSK-11-16 5101-229-26	G-16-9-235
Compressed Ht. at Tested Load	514	469	514	471	511.5	471	511.5	469
Alignment deviation (mm)	01	17	01	14	8	15	10	16

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	I&S	07-16 2612	07-16 CM 2612
2.	Primary Inner Spring	G	G-16-8	G-16-8
3.	Primary Damper	KONI	2016-06(33590,33610,33599,333547)	2016-06(33615,33559,33538,33539)
4.	Secondary Damper	KONI/GREEP	18-2016 (8992,9138)	KW 44/2016 301550739
5.	Lateral Damper	KONI	22-2016 (5353)	22-16 (5035)
6.	Brake Cylinder	FAV	M16-081,L16-214,L16-208,M16-084	M16-132,M16-056,M16-058,M16-130
7.	Brake Caliper	FAV	M16005B,M16004B,M16003B,M16006B	M16469B,M16472B,M16471B,M16470B
8.	Brake Disc	KBI/FAV	24085685 0018-39-16,24085685 0017-39-16 24085282 0025-37-16,24085282 0028-37-16	D-133561-300 10-16 (5006,5009,5009,5078)
9.	Ball Joint Control Arm	SGA/MGN		
10.	Lateral Bump Stop	SGA		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	JI/J-I		
13.	Ball joint traction lever	SGA		
14.	Ball joint traction centre	S/BLOC		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA/EMSON		
18.	Roll Link make	SARITA,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 Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	M16032B
2.	Pull box	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	
3.	DV	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	16115546B
4.	PVC	M/s Premier polyfilm, New Delhi	
5.	UIC Vestibule (PPE)	M/s Sun crest Industries West Bengal	
6.	UIC Vestibule (NPPE)	M/s Sun crest Industries West Bengal	
7.	Foot Step	M/s Hi-tech Infra RBL	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
10.	Body Side Window	M/s AGF Pvt. Ltd. Kolkata	
11.	Emergency Window	M/s Macedon Vinimay Pvt. Ltd, Kolkata	
12.	Hopper Window	M/s Aikon Technologies Pvt. Ltd. Solan(H.P.)	
13.	Non-AC Area Ceiling	M/s J.R. Industries, Jalandhar	
14.	Body Side Doors	M/s JBM, Faridabad/Sukata, CDH	
15.	Vestibule Door(PPE)	M/s Kalsi, LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi, LDH	
17.	Bio Tank	M/s Rail Tech, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank (2X685L)	M/s Shivalik Fasteners, Mohali Punjab	
20.	Under Slung Water Tank (1X450L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s KPR Industries, Mohali	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

[Signature]
 33/03/2016 MCF/RBL
 गुणवत्ता विभाग

रेल डि० का०, 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 & PERIOD OF TRIAL
			Frequency	

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs 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 qualitycfrbl@gmail.com

 SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	 AME/QC/MCF/RBL सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 उप मुख्य अभियंता / फर्निशिंग Dy CME/ Furnishing Dy CME/FUR/MCF/RBL आधुनिक रेल डिब्बा कारखाना रायबरेली Modern Coach Factory Raebareli
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Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16255/C
RAILWAY	CR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL,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 NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT On Board Sr no : 316 HT Panel Sr no : 326	EDTS 333, Rev ` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA: 2016/08/017 Sr no 1: 16060151 Sr no.2: 16060142 Srno.CPA: 2016/08/6106	As per spec EDTS 186,Rev-a, Am- 2	01
03.	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	
06.	Fitment of Switch Plate Assly(Cabin Side)	EDML 086, Rev-03.	10
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	10
08.	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
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.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	10

[Signature]
**Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli**



RCF/RBL



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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

12.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	CC 76216, Alt `c'.	02
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	24
14.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
15.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
16.	Regulated battery charger Make : HI REL Sr no: 16080084	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 512	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	As per spec No EDTS 105,Rev `e' Am-2	02 sets
19.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
20.	Wheel set earthling equipment. Make : DARSHAN,CHANDA&CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 19/16/680	M/s : FAIVELEY	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARARAJA Lug date : 12/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
23.	Battery box for LHB coaches.	CC 91205	01

 SSE/EL/QC	 Dy CEE(P)/MCF/RBL
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वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer
Electric Production - Quality
RCF / RBL / LLJ

उप मुख्य विद्युत अभियन्ता (उत्पादन)
रेल कोच फैक्टरी-रायबरेली, लालगंज
DY.CEE/P-RCF/RBL/LLJ



RCF/RBL