



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/ 366

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

- 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)1100 (NPPE) 2)1103 (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	RH 67127 LH 67127
3.	End wall	PP- M/s E.C.Blade & Tool Chandigarh NPP- M/s E.C.Blade & Tool Chandigarh	PP END 67127 NPP END 67127
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6636 NPP END 6592
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	BERGER	94/88
2.	Insulation		Satisfactory	

[Signature]
SSE/QC/MCF/RBL
चरित्रागुण अभियंता

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)

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8. DETAIL OF BOGIES :

ITEMS	PP SIDE				NPP SIDE			
Bogie No	160966				160965			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-326				MCF/RBL-0324			
Bolster no.	AMIT-122				AMIT-126			
Axle No	S-3676		S-1900		S-1822		S- 1353	
Wheel Dia	917.340	917.382	917.307	917.376	917.381	917.316	917.296	917.329
Wheel Disc No	00056-6176 VR 07-16	00114-6140 VR 07-16	00186-6140 VR 07-16	00057-6176 VR 07-16	00140-6130 VR 07-16	00144-6046 VR 06-16	00045-6130 VR 07-16	00014-6135 VR 07-16
R.B. Nos.	02-16 84089	05-16 98232	03-16 87652	03-16 87853	03-16 87128	03-16 87537	03-16 87051	03-16 86658
CT R B Make	SKF		SKF		SKF		SKF	

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.	G16-8-160-29	G15-9-212-29	G16-8-165-30T	G16-9-247-30T	G15-8-287-31T	G16-9-271-31T	G15-9-271-31	G15-9-353-31
Compressed Ht. at Tested Load	516	470	516	470	514	472	514	470
Alignment deviation (mm)	1	17	1	17	1	11	4	8

10. TRACEABILITY OF BOGIE ITEMS:

S NO	ITEM	MAKE/ SUPPLIER	SERIAL NO	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	G	G16-8	G16-8
2.	Primary Inner Spring	G/CMFSK	G16-8	11-16 1101-218(130,45,203,92)
3.	Primary Damper	KONI	06-2016(33996,33855,33812,34667)	06-2016(34022,33852,34547,34044)
4.	Secondary Damper	GREEP	KW 44-2016 301550739	KW 44-2016 301550739
5.	Lateral Damper	DOWN	12-15 018497	12-15 018497
6.	Brake Cylinder	KBI	5050K29,4949K29,4950K29,5052K29	4898K29,4866K29,4863K29,4899K29
7.	Brack Caliper	KBI	4597-29,4640-29,4641-29,4599-29	4444-29,4556-29,4558-29,4447-29
8.	Brake Disc	FAV/KBI	10-16(5247,5248,5203,5175)D133561-300	24085282 0019-37/16,24085284 0011-38/16 24085284 0001-38/16,24085283 0033-38/16
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	SGA		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	JI-12-15		
13.	Ball joint traction lever	S.BLOC		
14.	Ball joint traction centre	SGA/GMT		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA/SGA		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL



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Coach No.

1 6 2 9 1 / C -

DATE OF DISPATCH

2 8 0 1 2 0 1 7

RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	2	7	-	2	0	1	6	-	1	7
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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	16J1844
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016J2639
4.	PVC	M/s Premier polyfilm, New Delhi	
5.	UIC Vestibule (PPE)	M/s Ameenji Rubber ,Hyderabad	
6.	UIC Vestibule (NPPE)	M/s Ameenji Rubber ,Hyderabad	
7.	Foot Step	M/s Super Spark Pvt. Ltd. Faridabad	
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 AB Composites, Kolkata	
12.	Hopper Window	M/s Rail Safe, KXH	
13.	Non-AC Area Ceiling	M/s J.R. Industries, Jalandhar	
14.	Body Side Doors	M/s JBM ,Faridabad	
15.	Vestibule Door(PPE)	M/s Hans pal KXH	
16.	Vestibule Door(NPPE)	M/s Hans pal KXH	
17.	Bio Tank	M/s Rail Fab ,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	

SSS/QC/MCF/RBL
गुणवत्ता विभाग
रेडि0का0, रायबरेली (लखनऊ)





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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 qualityrcfbl@gmail.com

वरिष्ठ अनुसंधान अधिकारी गुणवत्ता विभाग रेडिओ, रायबरेली (लागंज)	AME/QC/MCF/RBL 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

SCN - 207

DOC NO.: MCF/RBL/QEF/8001

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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	16291/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



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 3377/355/086 HT Panel Sr no : 3377/355/086	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make: KALSI Sr no PA: 5503/07/2016 Sr no 1: 289283/07/2016 Sr no.2: 289284/07/2016 Srno.CPA: 5458/07/2016	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

Prasanna
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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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:16080090	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make :PANTRONICS Sr no :15015657	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 :CHANDA&CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no :0116122311	M/s : KNORR	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

