



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/ 364

Coach No.	1	6	2	5	0	/	C	-	DATE OF DISPATCH	2	7	0	1	2	0	1	7
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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	1	8	-	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)1096 (NPPE) 2)1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END 67118 NPP END 67118
		Complete	M/s E.C.Blade & Tool Chandigarh
2.	Side wall	M/s-MCF/RBL	RH 67118 LH 67118
3.	End wall	M/s-MCF/RBL	PP END 67118 NPP END 67118
		PP- M/s Rail Tech KXH	
		NPP- M/s Rail Tech KXH	
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE	PP END 6479 NPP END 6472
5.	Centre Buffer Coupler	M/s ESCORTS	
6.	Buffers	N.A.	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full 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	GS	89/86
2.	Insulation		Satisfactory	

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



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8. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	160800				160799			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL -310				VS/RBL-307			
Bolster no.	RBL-926				RBL-824			
Axle No	S-1827		S-3596		S - 3850		S - 3139	
Wheel Dia	917.387	917.296	917.375	917.368	917.424	917.363	917.435	917.375
Wheel Disc No	00049-6110 07-16	00052-6067 06-16	00009-6070 06-16	00070-6106 07-16	175-6104 07-16	00116-6047 06-16	00163-6108 07-16	00101-6043 06-16
R.B. Nos.	09-16 07894	09-16 07617	09-16 07572	09-16 07793	02-16 83527	02-16 83176	02-16 83621	02-16 83406
CT R B Make	TIMKEN		TIMKEN		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.	G-16-8-190-7	G-16-9-371	G-16-8-227-7	G-16-9-323	G-16-8-221	G-16-9-231	G-16-8-239	G-16-9-351
Compressed Ht. at Tested Load	516	472	516	470	516	472	515	471
Alignment deviation (mm)	1	13	2	17	4	13	3	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	L&S	L&S 07-16 (2612)	L&S 07-16 (2612)
2.	Primary Inner Spring	G	G 16-8	G 16-8
3.	Primary Damper	KONI	06-2016 (34270,34118,33794,34141)	06-2016 (33781,34144,34146,34125)
4.	Secondary Damper	KONI/GREEP	18-2016(9035,9026)	KW-44/2016 (301550739)
5.	Lateral Damper	SV/KONI	12-15 018497	22-2016 4643
6.	Brake Cylinder	FAV	L-16-380,M-16-035,M-16-036,L-16-381	L-16-328,L-16-206,L-16-207,L-16-324
7.	Brake Caliper	FAV	N16159B,N16157B,N16158B,N16160B	M-16521B,M16523B,M-16524B,M-16522B
8.	Brake Disc	KBI/FAV	24085282 0032-38-16 , 24085284 0034-38-16 24085282 0017-37-16 , 24085282 0016-37-16	D-133561-300 10-16 (4937,4934,4970,4953)
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	SGA		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI/J-I		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	GMT		
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)	M16045B
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)	16115561B
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 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/Sukata CDH	
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 Shivalik Fasteners, 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]
 दि. 16.05.2016 रायबरेली
 डी.डी. 001/म.सी.ए.सी.
 गुणवत्ता विभाग

रेडि०का०, 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 qualityrcfrbl@gmail.com

SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	AME/QC/MCF/RBL 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 Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Laiganj, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	16250/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 : AMIT On Board Sr no : USBC-331 HT Panel Sr no : USBC-325	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 5269/05/2016 Sr no 1: 267681/05/2016 Sr no.2: 267682/05/2016 Srno.CPA: 5473/07/2016	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: 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.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	10

Prerna
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 :AAL Sr no:061610218	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make :VIMAL Sr no :529	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 :AECO	EDTS-328 REV-C	02
20.	Wheel set earthing equipment. Make :DARSHAN,CHANDA&CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no :39/16/657	M/s: FAIVELEY :	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI 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