



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 355

Coach No.	1	6	3	0	4	/	C	-	DATE OF DISPATCH	2	3	0	1	2	0	1	7
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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	4	9	-	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)1105 (NPPE) 2)1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s E.C.Blade & Tool Chandigarh			
		Complete	M/s-MCF/RBL			
2.	Side wall	M/s-MCF/RBL	RH	67149	LH	67149
			PP END	67149	NPP END	67149
3.	End wall	PP- M/s Rail Tech KXH	PP END	67149	NPP END	67149
		NPP- M/s Rail Tech KXH				
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE				
5.	Centre Buffer Coupler	M/s ESCORTS	PP END	6527	NPP END	6521
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 .	6 – 10 sec.	7 sec.
		➤ Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²
		➤ All Brake are applied	OK	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	91/88
2.	Insulation		Satisfactory	

परिभाषित अभियंता
 SSE/QC/MCF/RBL
 मुणवत्ता विभाग

रेडिंकॉ, रायबरेली (लालगंज)



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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160910				160909			
Bogie Type	FIAT				FIAT			
Frame no.	VS-284				ECBT-155			
Bolster no.	AMIT-114				AMIT-103			
Axle No	S - 1688		S - 3477		S - 3430 RWF		S - 1923 RWF	
Wheel Dia	917.341	917.326	917.360	917.327	917.282	917.315	917.383	917.396
Wheel Disc No	00078-6067 VR 06-16	00008-6110 VR 07-16	00157-6110 VR 07-16	00169-6110 VR 07-16	00188-6045 VR 06-16	00117-6103 VR 07-16	00051-6067 VR 06-16	00048-6103 VR 07-16
R.B. Nos.	07-16 05830	07-16 05638	07-16 05624	07-16 05490	07-16 05067	07-16 06077	07-16 05592	07-16 05877
CT R B Make	TIMKEN		TIMKEN		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.	DN15-0-1285	G16-6-162	DN15-0-2204	G16-6-011	DN15-0-1260	G16-6-065	DN15-0-1353	G16-6-077
Compressed Ht. at Tested Load	513	467	512	472	516	471	515	471
Alignment deviation (mm)	10	8	10	7	6	8	7	8

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMGBD,L&S	10-16 1100-112(139,64,135,138)	07-16CM 2612
2.	Primary Inner Spring	CMFSK	11-16 1101-218(66,166,77,137)	11-16 1101-218(229,99,191,186)
3.	Primary Damper	KONI	06-2016(34742,34760,34802,35009)	06-2016(35011,34814,35063,34737)
4.	Secondary Damper	GREEP	KW 24-2016 301550739	KW 24-2016 301550739
5.	Lateral Damper	KONI	22-2016 5512	22-2016 4903
6.	Brake Cylinder	FAV	L16-191,L16-157,L16-160,L16-192	L16-201,L16-151,L16-150,L16-062
7.	Brake Caliper	FAV	L16192B,L16191B,L16190B,L16189B	N16011B,N16012B,N16010B,N16009B
8.	Brake Disc	KBI	24085284 0008-38/16,24085284 0007-38/16 24085284 0039-38/16,24085284 0040-38/16	24085685 0009-38/16,24085685 0010-38/16 24085681 0009-38/16,24085681 0010-38/16
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA		
12.	Traction lever make	SARITA,J107-16		
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	EMSON		
18.	Roll Link make	SARITA/SGA		
19.	Fork make	SARITA		

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Signature of SSE/Bogie/QC



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DATE OF DISPATCH

2 3 0 1 2 0 1 7

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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faveley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	M16004B
2.	Pull box	M/s Faveley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	
3.	DV	M/s Faveley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	16115511B
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 Pvt. Ltd. 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 Kalsi LDH	
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	

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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

वरिष्ठ अंतर्ग अडिटर SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि०का०, 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 Dy. CME/FURNISHING रेल कारखाना फर्निशिंग / रायबरेली / लालगंज रेल कारखाना फर्निशिंग MCF/RBL/ALLU MCF/RBL/ALLU



**Govt. of India- Ministry of Railways
(MODERN COACH FACTORY RAEBARELI)**



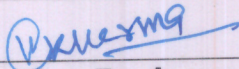
MCF/RBL/QEFSCN-8001
VER. 01.06.2016
PAGE 1 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16304/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	


Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

PAGE 2 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : HIND RECTIFIRE On board Sr no : H3551116004 HT panel Sr no : H3551116004	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5427/7/2016 Sr no.1: 268452/7/2016 Sr no.2: 268453/7/2016 Srno.CPA: 5451/7/2016	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

(Signature)

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



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PAGE 3 OF 3

FOR ELECTRICAL ITEMS

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: 38/16/635	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 556	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 earthling equipment. Make : CHANDA, S INTERNATIONAL	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 38/16/635	M/s : FAIVELEY	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : AMARA RAJA 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

(Signature) *(Signature)*

SSE/EL/QC

Dy CEE(P)/MCF/RBL

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