



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/2016-17/290

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

ITEMS	PP Side				NPP Side			
Bogie No	160596				160595			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-284				MCF/RBL-286			
Bolster no.	MCF/RBL-789				MCF/RBL-791			
Axle No	S- 3526 RWF		S- 3683 RWF		S- 3770RWF		S- 2869 RWF	
Wheel Dia	917.242	917.320	917.312	917.270	917.237	917.33	917.271	917.336
Wheel Disc No	00048-6068 VR 06-16	00015-6071 VR 06-16	00083-6067 VR 06-16	00175-6067 VR 06-16	00105-6108 07-16	00028-6011 06-16	00152-6108 07-16	00044-6008 06-16
R.B. Nos.	05-16 0400	05-16 03599	06-16 04573	05-16 03643	06-16 04496	05-16 03364	06-16 04632	05-16 03630
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.	DN150-1223	CMFSK04-16-5100-132-43	DN150-1268	CMFSK04-16-5100-132-41	CMFSK09-16-510-212-8	CMFSK09-16-510-192-39	CMFSK09-16-5100-212-17	CMFSK09-16-5100-192-55
Compressed Ht. at Tested Load	510	468	512	472	514.5	469	514.5	469
Alignment deviation (mm)	16	9	13	8	7	9	7	9

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	G	G 16-5	G 16-5
2.	Primary inner Spring	CMAFJ	CMAFJ 08-16-1101(18,95,93,94)	CMAFJ 08-16 1101(67,64,61,70)
3.	Primary Damper	KONI	05-2016(31880,32006,32043,31159)	05-2016(32052,32088,32060,32121)
4.	Secondary Damper	GREEP	KW 24-2016 301550739	KW 24-2016 301550739
5.	Lateral Damper	KONI	22-2016 4897	22-2016 5081
6.	Brake Cylinder	KBI	4415K29,4304K29,4303K29,4413K29	4414K29,4305K29,4306K29,4416K29
7.	Brake Caliper	KBI	3994-29,4013-29,4012-29,3992-29	3993-29,4014-29,4015-29,3995-29
8.	Brake Disc	FAV	08-16(3394,3376,3498,3357) D 133561-300	08-16(3282,3279,3379,3497) D 133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JL.12.15		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
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		

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 KBI ,Palwal Haryana	16H1778
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016H2540
4.	PVC	M/s Premier Polyflim Ltd. DLI	
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 AB Composites, Kolkata	
12.	Hopper Window	M/s Rail Tech, KXH	
13.	Non-AC Area Ceiling	M/s Gandhi Safe & Allied, 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 Fab, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank (2X685L)	M/s Amit Engg, 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 Savitri Engg. Products Paonta Sahib	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

[Signature]
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडि०का०, रायबरेली (जालगंज)



Modern Coach Factory Raebareli

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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

SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)	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 मु.या.अभि./फनि. DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लालगंज RCF / RBL / LLJ





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



MCF/RBL/QEFSCN-8001
VER. 01.06.2016
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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	16272/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	

P. Kumar
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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(MODERN COACH FACTORY RAEBARELI)



MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make :SSK On board Sr no :2016.07.060 HT panel Sr no :2016.07.027	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller& pump box Make:KALSI Sr no PA:5470/07/2016 Sr no.1:270364/07/2016 Sr no.2: 270365/07/2016 Srno.CPA:5516/07/2016	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

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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



MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

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FOR ELECTRICAL ITEMS

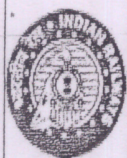
ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

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: 061602382	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 473	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 : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0116152373	M/s : KNORR	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/2016	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

वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Section Engineer

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



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



QUALITY CONTROL RECTIFICATION ATTENDED CALL MEMO

MCF/RBL/QEF/6009

VER.01.06.2016

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DATE: 11.12.16Coach no. LSCN-181

1. Nature of QC inspection : Audit/100% ✓
2. Sub Assembly/Assembly/
Component No Reference : —
3. Stage Reference : outsourced-Tx
4. (i) Whether offered initially/ : After Rectification
After Rectification
(ii) If rectified, QC Defect Report No: QCI Dated: 10.12.16

Please check and advice clearance.

	Signature	
V. K. Verma	Name	RAJENDRA KUMAR
SSE/JE-Elect.QC	Designation	SSE/JE EP-stage- <u>outsourced-Tx</u>