

LSEN-178



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/ 286

Coach No.				1	6	2	6	9	/	C	-	DATE OF DISPATCH				1	0	1	2	2	0	1	6	
RLY	C	R	-	Type	L	W	S	C	N	Shell No.		6	7	1	0	5	-	2	0	1	6	-	1	7

- Railway Board's Order No. : 2015/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)1104 (NPPE) 2)1098 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part Complete	M/s Sidhu Industrial Corporation, KXH M/s-MCF/RBL
2.	Side wall	M/s-MCF/RBL	RH 67105 LH 67105
3.	End wall	PP- M/s Rail Tech KXH NPP- M/s Rail Tech KXH	PP END 67105 NPP END 67105
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6064 NPP END 6062
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	GS	92/89
2.	Insulation	Satisfactory		

वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL
रायबरेली (लाहगंज)

LSCN-178

**MODERN COACH FACTORY, RAEBARELI****आधुनिक रेल डिब्बा कारखाना, रायबरेली**

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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160616				160615			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-100				ECBT-99			
Bolster no.	MCF/RBL-776				SCI-02			
Axle No	S-3497 RWF		S-3147 RWF		S-3486 RWF		S-2953 RWF	
Wheel Dia	917.240	917.224	917.270	917.250	917.275	917.245	917.270	917.222
Wheel Disc No	00155-6017 06-16	00154-6068 06-16	00088-6068 06-16	00022-6014 06-16	00191-6109 07-16	00090-6014 06-16	00130-6068 06-16	00095-6014 06-16
R.B. Nos.	05-16 04131	06-16 04906	05-16 04038	06-16 04759	05-16 04381	06-16 04736	05-16 04014	06-16 04840
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.	DN150-1367	DN15G-861	DN150-1255	DN15G-866	DN150-2256	DN15G819-849	DN150-1252	DN15G889
Compressed Ht. at Tested Load	512	471	514	470	516	471	515	471
Alignment deviation (mm)	11	14	11	12	14	9	14	6

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	G	G16-6	G16-6, G16-6 A, G16-6, G16-6
3.	Primary Damper	GREEP	KW 24-2016 301530049	KW 24-2016 301530049
4.	Secondary Damper	KONI	24-2016(8389,8361)	24-2016(8366,8353)
5.	Lateral Damper	KONI	22-2016 4482	22-2016 4770
6.	Brake Cylinder	KBI	4535K29,4461K29,4460K29,4536K29	4538K29,4462K29,4459K29,4537K29
7.	Brake Caliper	KBI	4100-29,4162-29,4161-29,4101-29	4103-29,4113-29,4160-29,4102-29
8.	Brake Disc	KBI	24051407 0023-29/16,24082888 0017-29/16 24082887 0028-29/16,24082887 0029-29/16	24083566 0007-30/16,24082888 0008-29/16 24082887 0025-29/16,24082887 0030-29/16
9.	Ball Joint Control Arm	SGA/MGN		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI.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



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	16J1792
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016H2613
4.	PVC	M/s Premier Polyflim Ltd. DLI	
5.	UIC Vestibule (PPE)	M/s Cemcon Industries, DLI	
6.	UIC Vestibule (NPPE)	M/s Cemcon Industries, DLI	
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	
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 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 Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, jalandhar	

7/11/20
रि०अ००० अधिस्ता
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लाहमंज)



Modern Coach Factory Raebareli

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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	0	5	-	2	0	1	6	-	1	7
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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL: NIL

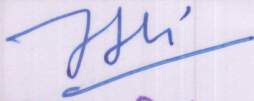

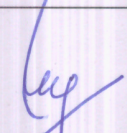
S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

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

		
वरि०अनु० अभियंता SSE/OC/MCF/RBL रायबरेली विभाग रे०डि०का०, रायबरेली (लालगंज)	पदस्थक यंत्रिक अभियंता/गुणवत्ता G.S. Pandey Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. CME/FUR/MCF/RBL 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

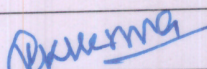
PAGE 1 OF 3

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	16269/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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(MODERN COACH FACTORY RAEBARELI)**



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 : SSK On board Sr no : 2016.07.056 HT panel Sr no : 2016.07.058	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5522/07/2016 Sr no.1: 269301/07/2016 Sr no.2: 269302/07/2016 Sr no.CPA: 5468/07/2016	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

**Senior Section Engineer
Quality control / Electrical
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VER. 01.06.2016

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: 061602380	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 490	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 : ABROL	EDTS-328 REV-C	02
20.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0116172429	M/s : KNORR	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI 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
Sr. Section Engineer

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