

LSEN-190



# 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/ 320

Coach No.		1	6	2	7	4	/	C	-	DATE OF DISPATCH				2	3	1	2	2	0	1	6		
RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	1	3	-	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)1096 (NPPE) 2)1095 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	M/s Ved Sessomeccanica India Pvt. Ltd. Kanpur	PP END 67113 NPP END 67113
	Front Part	M/s-MCF/RBL	
	Complete	M/s-MCF/RBL	RH 67113 LH 67113
2.	Side wall	M/s-MCF/RBL	
3.	End wall	PP- M/s E.C.Blade & Tool Chandigarh	PP END 67113 NPP END 67113
		NPP- M/s E.C.Blade & Tool Chandigarh	
4.	Roof	M/s-DTL Ancillaries Ltd. PUNE	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6467 NPP END 6466
6.	Buffers	N.A.	

#### 6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> <li>Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>Max. pressure in BC</li> <li>All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	7 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	<ul style="list-style-type: none"> <li>Exhaust BP @ 0.3 kg/cm<sup>2</sup>/min.</li> </ul>	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> <li>Exhaust BP @ 0.1 kg/cm<sup>2</sup>/Sec, after 06 Sec.</li> </ul>	Brake must apply	OK

#### 7. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	VIBGYOR	93/88
2.	Insulation		Satisfactory	

SSE/QC/MCF/RBL  
 गुणवत्ता विभाग  
 रेंडि0का0, रायबरेली (लखनऊ)



**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/2016-17/320

Coach No.		1	6	2	7	4	/	C	-	DATE OF DISPATCH			2	3	/	1	2	/	1	6					
RLY	C	R		Type	L	W	S	C	N		Shell No.		6	7	1	1	3	-	2	0	1	6	-	1	7

**8. DETAIL OF BOGIES :**

ITEMS	PP Side				NPP Side			
Bogie No	160676				160675			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-260				VS/RBL-252			
Bolster no.	MCF/RBL-673				MCF/RBL-747			
Axle No	S-3705 RWF		S-1694 RWF		S-3292 RWF		S-2826 RWF	
Wheel Dia	917.318	917.408	917.338	917.350	917.452	917.499	917.359	917.399
Wheel Disc No	00081-6175 07-16	00023-6067 06-16	00193-6129 07-16	00110-6067 06-16	00150-6140 07-16	00080-6140 07-16	00128-6137 07-16	00150-6137 07-16
R.B. Nos.	09-16 07634	09-16 07850	09-16 07590	09-16 07653	09-16 07352	09-16 07621	09-16 07513	09-16 07450
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

**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.	DN 15-0-2248	DN 15G-896	DN 15-0-1221	DN 15G-906	DN 15-0-1369	DN 15G-869	DN 15-0-1341	DN 15G-844
Compressed Ht. at Tested Load	515	468	516	469	516	470	515	467
Alignment deviation (mm)	10	14	10	8	10	8	10	11

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMGBD	11-16-1100-114(159,129,163,132)	11-16-1100-114-127,11-16-1100-133(14,128,135)
2.	Primary Inner Spring	G	G16-6	G16-6
3.	Primary Damper	KONI	06-2016(34280,34308,34263,34268)	06-2016(34751,34886,34775,34826)
4.	Secondary Damper	KONI	18-2016 (9111,9028)	24-2016(8395,8208)
5.	Lateral Damper	KONI	22-2016 5527	22-2016 5356
6.	Brake Cylinder	KBI	4572K29,4571K29, 4574K29,4571K29	4628K29,4601K29, 4599K29,4629K29
7.	Brake Caliper	KBI	4139-29,4272-29,4275-29,4138-29	4194-29,4302-29,4300-29,4195-29
8.	Brake Disc	FAV	10-16(4766,4765,4780,4810) D 133561-300	10-16(4944,4942,4803,4990)D 133561-300
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	GMT/MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	J.I		
13.	Ball joint traction lever	GMT		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	MTG		
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC





# 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/ 320

Coach No.	1	6	2	7	4	/	C	-	DATE OF DISPATCH	2	3	1	2	2	0	1	6
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	1	3	-	2	0	1	6	-	1	7
-----	---	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	16H1774
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016H2557
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 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 Tech, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank ( 2X685L)	M/s Amit Engg, Baddi	
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 Hindustan Fiber Glass Vadodra (Gujarat)	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

वरिष्ठ अधिकारी  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग

रेडि०का०, रायबरेली (लात)





# 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/ 320

Coach No.		1	6	2	7	4	/	C	-	DATE OF DISPATCH					2	3	1	2	2	0	1	6	
RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	1	3	-	2	0	1	6	-	1	7

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 रेडि०का०, रायबरेली (ललसंगंज)	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 रेल कोच फैक्ट्री / रायबरेली / लालसंगंज RCF / RBL / LLJ



SCN-190



**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	16274/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**





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



MCF/RBL/QEFSCN- 8001

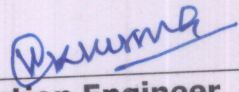
VER. 01.06.2016

PAGE 2 OF 3

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES**

01.	Switch board cabinet Make : <b>AMIT</b> On board Sr no : <b>330</b> HT panel Sr no : <b>313</b>	EDTS 333, Rev` 01`Am-1	<b>01</b>
02.	Pump equipment with PLC controller& pump box Make: <b>KALSI</b> Sr no PA: <b>5465/07/16</b> Sr no.1: <b>270354/07/2016</b> Sr no.2: <b>270355/07/2016</b> Srno.CPA: <b>5435/07/2016</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Lavatory light fitting assly	LW 76001,Alt nil	<b>04</b>
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.	<b>10</b>
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	<b>10</b>
08.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash. worthy features. Make: <b>R KANWAR</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033,Alt`c,	<b>04</b>
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213,Alt`d'.	<b>24</b>
11.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	<b>10</b>

  
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

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'.	<b>02</b>
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	<b>24</b>
14.	Battery fuse box +ve Make : <b>NEC</b>	LW 71001,Alt-F	<b>01</b>
15.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
16.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>061610246</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
17.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>15015549</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	<b>01</b>
18.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>S INTERNATIONAL</b>	As per spec No EDTS 105,Rev `e' Am-2	<b>02 sets</b>
19.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>02</b>
20.	Wheel set earthling equipment. Make : <b>S I, CHANDA&amp;CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
21.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr no : <b>0116212517</b>	M/s : <b>KNORR</b>	<b>01 set</b>
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>HBL</b> Lug date : <b>11/2016</b>	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	<b>01 set</b>
23.	Battery box for LHB coaches.	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>Dy CEE(P)/MCF/RBL</b>

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

उप मुख्य विद्युत अभियन्ता (उत्पादन)  
रेल कोच फैक्टरी-रायबरेली, ला  
OFFICE MCF/RBL