



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/ 361

Coach No.				1	6	3	0	6	/	C	-	DATE OF DISPATCH					2	5	0	1	2	0	1	7
RLY	C	R	-	Type	L	W	S	C	N	Shell No.		6	7	1	2	9	-	2	0	1	6	-	1	7

1. Railway Board's Order No. : 2016/M(C)/142/1 Dated- 18.05.2016
2. Tare Weight of Coach : 41.24 Tones
3. 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)1098 (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	PP END 67129 NPP END 67129
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 67129 LH 67129
3.	End wall	PP- M/s E.C.Blade & Tool Chandigarh	PP END 67129 NPP END 67129
		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 6659 NPP END 6650
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"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ 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	BERGER	91/88
2.	Insulation		Satisfactory	

JHS
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालमंज)



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/2016-17/361

Coach No.	1	6	3	0	6	/	C	-	DATE OF DISPATCH	2	5	/	0	1	/	1	7
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	C	R	Type	L	W	S	C	N	Shell No.	6	7	1	2	9	-	2	0	1	6	-	1	7
-----	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160808				160807			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-43				VS/RBL-MCF-47			
Bolster no.	RBL-858				RBL-949			
Axle No	S-3110		S-3875		S-3629		S-1670	
Wheel Dia	917.431	917.367	917.453	917.385	917.510	917.453	917.475	917.430
Wheel Disc No	00138-6110 07-16	00114-6103 07-16	00143-6018 06-16	00128-6110 07-16	00100-6018 06-16	00077-6071 06-16	00013-6103 07-16	00139-6047 06-16
R.B. Nos.	07-16 05957	09-16 07332	07-16 05335	09-16 07370	05-16 98796	02-16 84030	09-16 07301	09-16 07658
CT R B Make	TIMKEN		TIMKEN		SKF		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.	CMFSK 11-06-5101-229-60	G-16-9-225	CMFSK 11-06-5101-229-201	G-16-9-255	G-16-8-278	G-16-9-375	G-16-8-189	G-16-9-377
Compressed Ht. at Tested Load	512	470	513	471	515	470	515	469
Alignment deviation (mm)	7	8	10	12	1	1	1	1

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 07-16CM(2612)
2.	Primary Inner Spring	G	G-16-8	G-16-8
3.	Primary Damper	KONI	2016-06(34360,35066,33650,34528)	2016-06(33469,33475,34566,34333)
4.	Secondary Damper	KONI	18-2016(9007,8826)	18-2016(9345, 8852)
5.	Lateral Damper	SV	12-15 (018497)	12-15 (018497)
6.	Brake Cylinder	KBI	4998-K-29,4912-K-29,4911-K-29,4997-K-29	4999-K-29,4909-K-29,4910-K-29,5000-K-29
7.	Brake Caliper	KBI	4545-29,4603-29,4602-29,4544-29	4546-29,4600-29,4601-29,4547-29
8.	Brake Disc	KBI	24085280 37-16(0001,0004,0010,0007)	24084279 0038-37-16,24084279 0039-37-16 24084279 0040-37-16,24085280 0003-37-16
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	SARITA		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TEESPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA,SGA		
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: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 361

Coach No.	1	6	3	0	6	/	C	-	DATE OF DISPATCH	2	5	0	1	2	0	1	7
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	2	9	-	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	16J1841
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016J2631
4.	PVC	M/s Premier polyfilm, New Delhi	
5.	UIC Vestibule (PPE)	M/s Ameenji Rubber ,Hyderabad	
6.	UIC Vestibule (NPPE)	M/s Ameenji Rubber ,Hyderabad	
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 Aikon Technologies Pvt. Ltd. Solan(H.P.)	
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 Kalsi LDH	
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]
SSE/QC/MCF/RBL
वरिष्ठ निरीक्षक

गुणवत्ता विभाग
रेडिंक 0, रायबरेली (लालगांव)



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/ 361

Coach No.		1	6	3	0	6	/	C	-	DATE OF DISPATCH				2	5	0	1	2	0	1	7		
RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	2	9	-	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 qualityrcfbl@gmail.com

वरिष्ठ अभियंता SSE/QC/MCF/RBL गुणवत्ता विभाग	AME/QC/MCF/RBL G.S. Pandey	Dy.CME/FUR/MCF/RBL

रेडि०का०, रायबरेली (लालगंज)

सहायक यांत्रिक अभियंता/गुणवत्ता
Assistant Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareliउप मु०या०अभि०/फर्नि
Dy CME/ Furnishing
आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली
Modern Coach Factory Lalgañ, Raebareli



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



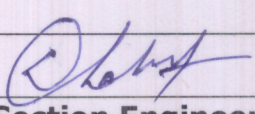
MCF/RBL/QEFSCN-8001
VER. 01.06.2016
PAGE 1 OF 3

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	16306/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



**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 : AMIT ENGINEERS On board Sr no : AE/VSBC-308 HT panel Sr no : AE/VSBC-322	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2016/08/056 Sr no.1: 16060077 Sr no.2: 16060077 Srno.CPA: 2016/08/0082	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**



**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'.	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: BCH061610249	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 545	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : S. INTERNATIONALS	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 : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116212519	M/s : KNORR	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

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