



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/ 273

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

1. Railway Board's Order No. : 2015/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)1099 (NPPE) 2)1098 (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 67107 NPP END 67107
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 67107 LH 67107
3.	End wall	PP- M/s Rail Tech KXH	PP END 67107 NPP END 67107
		NPP- M/s Rail Tech KXH	
4.	Roof	M/s-MCF/RBL	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6038 NPP END 6041
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 DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	GS	93/89
2.	Insulation	Satisfactory		

[Signature]

SSE/QC/MCF/RBL

परिष्कारक अभियंता

गुणवत्ता विभाग

रेडिओका, रायबरेली (ल.प्र.प्र.)





MODERN COACH FACTORY, RAEBARELI

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

8. DETAIL OF BOGIES :

ITEMS	PP Side						NPP Side			
Bogie No	160634						160633			
Bogie Type	FIAT						FIAT			
Frame no.	MCF/RBL-279						ECBT-074			
Bolster no.	MCF/RBL-780						RBL-793			
Axle No	S-2895 RWF			S- 3551 RWF			S-3116 RWF		S-1914 RWF	
Wheel Dia	917.306	917.329	917.297	917.32	917.35	917.31	917.349	917.294		
Wheel Disc No	00045-6046 06-16	00167-6108 07-16	00132-6109 07-16	00035-6109 07-16	00079-6046 06-16	00095-6008 06-16	00178-6046 06-16	00115-6046 06-16		
R.B. Nos.	06-16 04782	05-16 03307	06-16 04816	05-16 03206	06-16 04762	08-15 07333	06-16 04908	05-16 04249		
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.	DN15-0-2243	DN15-G-828	DN15-0-1277	DN15-G-953	DNN15-0-1280	DN15G-818	DN15-0-1291	DN15G-804
Compressed Ht. at Tested Load	513	468	511	470	512	472	510	472
Alignment deviation (mm)	13	10	13	11	13	10	10	13

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
3.	Primary Damper	GREEP	24-2016 301530049	24-2016 301530049
4.	Secondary Damper	KONI	24-2016(7987,8406)	24-2016(8402,8245)
5.	Lateral Damper	S.V/KNOOR	S/V12-15 018497	04-2016 0279
6.	Brake Cylinder	KBI	4355K29,4324K29,4326K29,4356K29	4353K29,4323K29,4325K29,4354K29
7.	Brake Caliper	KBI	3974-29,4033-29,4035-29,3975-29	3972-29,4032-29,4034-29,3973-29
8.	Brake Disc	KBI	24082891 0024-30/16,24082891 0025-30/16 24082888 0033-29/16,24082888 0030-29/16	24082885 0016-29/16,24082884 0009-28/16 24082888 0032-29/16,24082886 0014-29/16
9.	Ball Joint Control Arm	GMT/MGN		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI.12.15		
13.	Ball joint traction lever	SGA/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/GMT		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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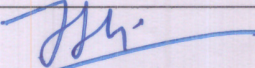
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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	0	7	-	2	0	1	6	-	1	7
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	16H1784
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016H2568
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	
15.	Vestibule Door(PPE)	M/s Hans pal, KXH	
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	


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

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 Frequency	REFERENCE & PERIOD OF TRIAL

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

VSI/OC/MCF/RBL गुणवत्ता विभाग रेडिंक 0, रायबरेली (लाल अ.)	AME/OC/MCF/RBL G.S. Pandey सहायक यंत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy CME/FUR/MCF/RBL उप नु. यं. अभि. / यंत्रि. DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / उत्तर प्रदेश RCF / RBL





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



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

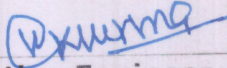
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16268/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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On board Sr no : 2016-7-035 HT panel Sr no : 2016-7-028	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5466/7/2016 Sr no.1: 270356/7/2016 Sr no.2: 270357/7/2016 Srno.CPA: 5197/7/2016	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: 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 : HIREL Sr no: 16080066	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 491	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 earthling equipment. Make : MLI,DARSHAN	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0116192467	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 : 01/2015	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