



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/ 365

Coach No.		1	6	2	4	9	/	C	-	DATE OF DISPATCH					2	8	0	1	2	0	1	7	
RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	5	0	-	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)1104 (NPPE) 2)1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

3. TRACEABILITY OF CRITICAL ITEMS							
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s Ved Sessomeccanica India Pvt. Ltd. Kanpur	PP END	67150	NPP END	67150
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	67150	LH	67150
3.	End wall		PP- M/s Rail Tech KXH	PP END	67150	NPP END	67150
			NPP- M/s Rail Tech KXH				
4.	Roof		M/s-Pennar Industries Limited , Tamilnadu				
5.	Centre Buffer Coupler		M/s ESCORTS	PP END	6680	NPP END	6679
6.	Buffers		N.A.				

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	<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	8 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> Exhaust BP @ 0.1 kg/cm²/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	93/90
2.	Insulation		Satisfactory	

JM
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि0का0, रायबरेली (लाहौर)



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Rolling Stock Certificate No.: MSF 123456																									
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RLY		C	R	Type		L	W	S	C	N	Shell No.		6	7	1	5	0	-	2	0	1	6	-	1	7

8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160936				160935			
Bogie Type	FIAT				FIAT			
Frame no.	VS/MCF/RBL-037				VS/MCF/RBL-048			
Bolster no.	RBL-948				RBL-848			
Axle No	S - 3247		S - 3783		S- 3550 RWF		S - 3803 RWF	
Wheel Dia	917.486	917.490	917.435	917.477	917.443	917.480	917.423	917.475
Wheel Disc No	00153-6107 VR 07-16	00092-6017 VR 06-16	00054-6021 VR 06-16	00081-6068 VR06-16	00092-6021 VR 06-16	00040-6017 VR 06-16	00076-6021 VR 06-16	00096-6017 VR 06-16
R.B. Nos.	09-16 07586	07-16 06578	09-16 07841	07-16 06866	09-16 07461	07-16 07215	09-16 07893	07-16 06700
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.	G16-8-195-50	G16-9-284-50	G16-8-224-50T	G16-9-329-50T	G16-8A-155-49T	G16-9-267-49T	G16-8-234-49	G16-9-243-49
Compressed Ht. at Tested Load	514	470	516	470	513	470	514	469
Alignment deviation (mm)	3	15	5	16	1	19	1	18

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	L&S	07-16 2612	07-16 2612
2.	Primary Inner Spring	G	G 16-8	G 16-8
3.	Primary Damper	KONI	06-2016(34154,33765,33862,34163)	06-2016(33500,33570,33873,33871)
4.	Secondary Damper	KONI	18-2016(9018,9157)	18-2016(8974,9004)
5.	Lateral Damper	KONI	22-2016 4788	22-2016 4420
6.	Brake Cylinder	FAV	M16(037,161,165,040)	M16(162,253,252,161)
7.	Brake Caliper	FAV	N16(031,034,033,032)B	N16(057,056,055,058)B
8.	Brake Disc	KBI	24085280 0035-37/16,24085280 0013-37/16 24085682 0039-39/16,24085683 0019-39/16	24085281 0039-37/16,24085281 0038-37/16, 24085681 0040-39/16,24085681 0040-39/16
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA		
12.	Traction lever make	JI07-16		
13.	Ball joint traction lever	S.BLOC		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA,EMSON		
18.	Roll Link make	SARITA/MGN		
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 Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	M16021B
2.	Pull box	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	
3.	DV	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	16115523B
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 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 Rail Safe KXH	
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 Hans pal KXH	
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	

JH
 SSI/DC/MCF/RBL
 चरित्रगुण अभियंता

गुणवत्ता विभाग
 रेडिओका, रायबरेली (लालमंडी)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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

SSS/QC/MCF/RBL गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	AME/QC/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 Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Lalganj, Raebareli



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



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

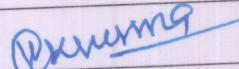
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH		LWSCN	SHELL/COACH NO	16249/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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MCF/RBL/QEFSCN- 8001

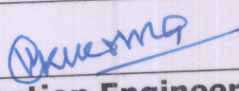
VER. 01.06.2016

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT On board Sr no : 324 HT panel Sr no : 307	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2016/08/067 Sr no.1: 16060019 Sr no.2: 16070343 Srno.CPA: 2016/08/057	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


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Quality control / Electrical
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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: 16110260	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 542	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 : FAIVELEY Sr no : 37/16/624	M/s : FAIVELEY	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA 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 फैक्ट्री / लालगंज / रायबरेली
Sr. Section Engineer
Electric Production - Quality
RCF / RBL / LLJ

उप मुख्य विद्युत अभियन्ता (उत्पादन)
रेल कोच फैक्ट्री-रायबरेली, लालगंज
DY.CEE/P-RCF/RBL/LLJ