



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/ 368

Coach No.	1	6	3	0	3	/	C	-	DATE OF DISPATCH	2	8	0	1	2	0	1	7
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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	1	7	-	2	0	1	6	-	1	7
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|------------------------------|---|---|
| 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:

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)1103 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS:					SERIAL NO			
S NO	ITEM		MAKE/SUPPLIER					
1.	Underframe	Front Part	M/s E.C.Blade & Tool Chandigarh	PP END	67117	NPP END	67117	
		Complete	M/s-MCF/RBL					
2.	Side wall		M/s-MCF/RBL	RH	67117	LH	67117	
3.	End wall		PP- M/s Rail Tech KXH	PP END	67117	NPP END	67117	
			NPP- M/s Rail Tech KXH					
4.	Roof		M/s-DTL Ancillaries Ltd. PUNE					
5.	Centre Buffer Coupler		M/s ESCORTS	PP END	6502	NPP END	6485	
6.	Buffers		N.A.					

6. AIRBRAKE TEST REPORT:

6. AIRBRAKE TEST REPORT:						
S NO	ITEM		DESCRIPTION		SPEC. VALUE	OBSERVED
1.	Full application	brake	<div>➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm².</div> <div>➤ Max. pressure in BC</div> <div>➤ All Brake are applied</div>		6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	6 sec. 3.0 kg/cm ² OK
2.	Insensitivity		<div>➤ Exhaust BP @ 0.3 kg/cm²/min.</div>		No brake application	OK
3.	Sensitivity		<div>➤ Exhaust BP @ 0.1 kg/cm²/Sec, after 06 Sec.</div>		Brake must apply	OK

7. PAINTING DAETAILS:

7. PAINTING DAETAILS:				
S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	BERGER	92/89
2.	Insulation		Satisfactory	

SSC/OC/MCF/RBL
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)





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8. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	160454				160216			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-174				VS/RBL-131			
Bolster no.	AMIT ENGG.-45				AMIT ENGG.-110			
Axle No	N-0983 RWF		N-0817 RWF		P-9656		P-9285	
Wheel Dia	917.242	917.284	917.251	917.300	917.421	917.509	917.388	917.476
Wheel Disc No	04735-6QG3 05-16	02521-5RK5 05-16	00424-6QG4 05-16	00318-6MG5 05-16	05009-6QL0 TZ 05-16	05010-6QL0 TZ 05-16	00963-6QJ9 TZ 05-16	05913-6QK8 TZ 05-16
R.B. Nos.	05-16 03615	02-16 00424	05-16 03624	02-16 00800	02-16 01121	02-16 00984	02-16 00670	02-16 01305
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.	CMFSK04-16- 5101-197-54	CMAFJ08-16- 5100-34	CMFSK04-16- 5101-197-52	CMAFJ08-16- 5100-33	CMFSK04-16- 5101-197-36	CMGBD03-16- 510004-52	CMFSK04-16- 5101-197-16	CMGBD03-16- 510004-28
Compressed Ht. at Tested Load	512	472	513.5	470	512	471	514	470
Alignment deviation (mm)	8	5	7	5	8	5	8	3

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	PP SIDE	NPP SIDE
1.	Primary outer Spring	CMGBD/G	03-16 1101-03(86,103,09,32)		G 14-3, G 13-11A,G13-11,G14-3
2.	Primary Inner Spring	CMGBD/CMFSK/G	CMGBD03-16-1101-02-113,CMFSK04-16-1101-196-55, G16-6,G16-6		04-16-1101-186(52,22,16,112)
3.	Primary Damper	KONI	05-2016(31672,31396,31575,31665)		05-2016(31529,31521,31601,31549)
4.	Secondary Damper	KONI	18-2016(9006,9344)		18-2016(7794,8023)
5.	Lateral Damper	KONI	22-2016 4581		15-2016 4582
6.	Brake Cylinder	KBI	4016K29,3999K29,3990K29,4019K29		3857K29,3767K29,3764K29,3855K29
7.	Brake Caliper	KBI	3711-29,3772-29,3771-29,3710-29		3550-29,3538-29,3537-29,3548-29
8.	Brake Disc	FAV/KBI	08-16(3266,3265,3269,3268) D 133561-300		24076720 0007-16/16,24076721 0031-17/16 24076719 0008-16/16,24076720 0009-16/16
9.	Ball Joint Control Arm	SGA			
10.	Lateral Bump Stop	SGA,MGN			
11.	Traction Centre make	SARITA,EMSON			
12.	Traction lever make	JI 12-15			
13.	Ball joint traction lever	GMT			
14.	Ball joint traction centre	GMT,SGA			
15.	Secondary Rubber Pad	TECSPAK,PRAG			
16.	Rubber Spring	GMT			
17.	Anti roll bar make	EMSON,SARITA			
18.	Roll Link make	SARITA/SGA/GMT			
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 KBI ,Palwal Haryana	16J1848
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016J2655
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 Pvt. Ltd. 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 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 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]
वरिष्ठ अधिकारी
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12. MODIFICATION (IF ANY) :	NIL
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13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL: NIL

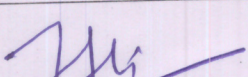

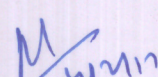
14. ITEM FITTED ON THE COACH ON TRIAL: NIL					
S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL	
			Frequency		

15. WARRANTY:

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:

- NOTE:
1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
 2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
 3. 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.
 4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
 5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com

		
<p>वरिष्ठ S.S.E./CC/MCF/RBL गुणवत्ता विभाग रे0डि0का0, रायबरेली (लालगंज)</p>	<p>AME/CC/MCF/RBL G.S. Pandey सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly</p>	<p>Dy.CME/FUR/MCF/RBL एम. मुंया0अभि0/फर्नि Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory, Lalgaon, Raebareilly</p>





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



MCF/RBL/QEFSCN-8001

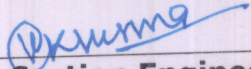
VER. 01.06.2016

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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	16303/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

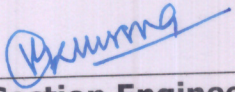
VER. 01.06.2016

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : HIND RECTIFIRE On board Sr no : H3551116003 HT panel Sr no : NIL	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: KALSI Sr no PA: 5484/7/2016 Sr no.1: 270392/7/2016 Sr no.2: 270393/7/2016 Srno.CPA: 5431/7/2016	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 : 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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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: 16110264	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : PANTRONICS Sr no : PAN-15015658	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 : NEC	EDTS-328 REV-C	02
20.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116212503	M/s : KNORR	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 फ़ैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer
Electric Production - Quality
RCF / RBL / LLJ

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