



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 113
(ANTYODAYA)

Coach No.		1	6	4	1	7	/	C	DATE OF DISPATCH				0	5	-	0	7	-	1	7			
RLY	E	C	R	Type	L	W	S	-	-	Shell No.	6	6	1	0	8	-	2	0	1	7	-	1	8

- Railway Board's Order No. : 2016/M(C)/142/1, Dated 29.07.2016
- Tare Weight of Coach : 40.66 Tonnes
- Carrying Capacity : (a) Seating: 100 (b) 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)1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO		ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Rail tech pvt.ltd. KXH	PP END	66108	NPP END	66108
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	66108	LH	66108
3.	End wall	PP	M/S Rail tech pvt.ltd. CDG	PP END	66108	NPP END	66108
		NPP	M/S Rail tech pvt.ltd. CDG				
4.	Roof		M/s-MCF/RBL				
5.	Centre Buffer Coupler		M/s Escort Pvt. Ltd. Faridabad	PP END	7224	NPP END	7254
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	8 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	M/s VIBGYOR	88/85
2.	Insulation			

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SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिडका, रायबरेली (लालगंज)



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8. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	170202				170201			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS-5-0030				MCF/RBL/LS-5-0028			
Bolster no.	MCF/RBL/LS-5-151				MCF/RBL/LS-5-0045			
Axle No	S-9432		S-9281		V-1943		V-1385	
Wheel Dia	917.574	917.394	917.573	917.389	917.512	917.492	917.486	917.468
Wheel Disc No	00155-6204 VR08-16	00053-6226 VR 09-16	00011-6226 VR 09-16	00190-7255 VR 10-16	00091-7253 VR10-16	00012-7259 VR10-16	00076-7259 VR10-16	00110-6197 VR09-16
R.B. Nos.	12-16 09420	12-16 08523	12-16 09121	07-16 07212	12-16 09128	07-16 06719	12-16 09048	12-16 08518
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie PP side		Bogie NPP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	RFDPL 0149 RASR 747N2-100P36	RFDPL 0138 RASR 747N2-100P36	RFDPL 0198 RASR 747N2-100P36	RFDPL 0183 RASR 747N2-100P36

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	CMFSK/CMGBD	01-17-1100-233(324,319,341,136)	02-17-1100-05(298,314,311,138)
2.	Primary Inner Spring	CMFSK	01-17-1101-232(297,465,322,176)	01-17-1101-232(202,395,131,403)
3.	Primary Damper	KNORR	02-17(5097,5160,5100,5064)	02-17(5026,5093,5078,5077)
4.	Secondary Damper	GABRIEL	03-17(119,120)	03-17(117,118)
5.	Lateral Damper	GREEP	KW 17-2017 301550559	KW 17-2017 301550559
6.	Brake Cylinder	KBI	5991K-29,5897K-29,5898K-29,5993K-29	5994K-29,5899K-29,5900K-29,5992K-29
7.	Brake Caliper	KBI	5380-29,5496-29,5497-29,5882-29	5383-29,5498-29,5499-29,5381-29
8.	Brake Disc	FAV	02-17-418-D133561-300,02-17-416-D133561-300, 03-17-1232-D133561-300,02-17-415-D133561-300	03-17-1233-D133561-300,03-17-1234-D133561-300, 02-17-378-D133561-300,03-17-379-D133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI 07-16		
13.	Ball joint traction lever	S.BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	KNORR	01-17(5961,5942)	01-17(6066,5912)
16.	Check Valve	KNORR	02-17 9615	01-17 9670
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

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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	Pass16L1935
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016L2736
4.	FIBA	M/s KBI ,Palwal Haryana	PP END NPP END
5.	PVC	M/s Responsive ind.mumbai	
6.	Foot Step	M/s Super spark pvt.ltd.faridabad	
7.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
8.	Lavatory Inlay	N/A	
9.	Body Side Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
10.	Emergency Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
11.	Hopper Window	M/s Shatabdi Safety glass, Vadodara	
12.	Body Side Doors 2,3,5,6	M/s JBM, Faridabad	
13.	Body Side Doors 1,4	M/s Sukata CDG	
14.	Bio Tank	M/s Rail Fab. KXH	
15.	Overhead Water Tank(4X390L)	M/s Rail Fab. KXH	
16.	Bib Cock/Controlled Discharge Tap	M/s Jaguar Pvt. Ltd. Alwar	
17.	Lavatory Module	M/s Hindustan Fiber Ltd. Vadodara	
18.	Lavatory Doors	M/s Hindustan Fiber Ltd. Vadodara	
19.	Water purified	M/s Parag Polymer, Lucknow	
20.	Seat & Berth	M/s Hindustan Fiber Glass works Ltd. Vadodara	

[Signature]
SSE/QC/MCF/RBL

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12. MODIFICATION (IF ANY) : Water purified fitted as per RDSO RDSO/Spec/ 2015/CG-04

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, mirror 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

SSE/QC/MCF/RBL उप निरीक्षक अभियंता गुणवत्ता विभाग है०डि०का०, रायबरेली (लालगंज)	AME/QC/MCF/RBL C.S. Pandey सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

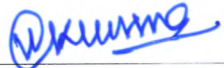
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FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	16417/C	TYPE COACH	LWS
RAILWAY	ECR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
2.	LIGHTS,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
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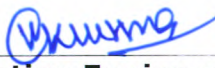
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : ISG On Board Sr no : 16.11.0067 HT Panel Sr no : 17.02.0137	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : KAVERI	As per drg no. LW 76005,Alt -e 02 nos	02
04.	Fitment of Switch Plate Assly (Cabin Side) Make : SSK	EDML 127,Rev-1& DRG NO 4248ALT-a	10
05.	Fitment of Switch Plate Assly (Corridor Side) Make : SSK	EDML 127,Rev-1 & DRG NO 4249 ALT-a	10
06.	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
07.	Fitment of Fluorescent light fitting for LHB type coaches. Make : DR AUTO	LW 76033,Alt`c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DR AUTO	CC 76213,Alt`d`.	26
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : DR AUTO	CC 76216, Alt `c`.	02


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FOR ELECTRICAL ITEMS

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10.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	26
11.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HI REL Sr no: 17030453	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : 606	As per RDSO/PE/SPEC/TL 0158,2010, Rev `0`, TypeI.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev `e` Am-3 TYPE-2	01 set
16.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : CHANDA&CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116462808	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 05/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HI TECH	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL

वरिष्ठ अनुमान अभियन्ता
गुणवत्ता नियंत्रण
आउटरीडिंका/लालगंज/रायबरेली
S.S.E/Elect-QC/M.C.F./LJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow

