



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/ 576

Coach No.			1	6	4	4	6	/	C	DATE OF DISPATCH			3	1	0	3	2	0	1	7		
RLY	W	R	Type	L	W	S	-	-	Shell No.	6	6	0	6	0	-	2	0	1	6	-	1	7

- Railway Board's Order No. : 2016/M(C)/142/1, Dated -29-07-16
- 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)1095 (NPPE) 2)1097(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP-M/s-Neera Chandigarh NPP-M/s Rail Tech KXH	PP END 302 NPP END 2401
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 66060 LH 66060
3.	End wall	PP M/s- Rail Tech KXH NPP M/s Neera Chandigarh	PP END 66060 NPP END 66060
4.	Roof	M/s-MCF/RBL	
5.	Centre Buffer Coupler	M/s Escort Pvt. Ltd. Faridabad	PP END 7029 NPP END 7037
6.	Buffers	N.A.	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm ² . ➤ 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	M/s VIBGYOR	90/85
2.	Insulation			

SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०क्र०, रायबरेली (लालगंज)



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(ANTYODAYA)

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RLY	W	R	Type	L	W	S	-	Shell No.	6	6	0	6	0	-	2	0	1	6	-	1	7
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	161062				161061			
Bogie Type	FIAT				FIAT			
Frame no.	BEC-065				BEC-069			
Bolster no.	MCF/RBL/LS5-0085				MCF/RBL/LS5-0081			
Axle No	V-2312		V-2257		S-3897		V-2454	
Wheel Dia	917.677	917.617	917.665	917.605	917.671	917.615	917.426	917.424
Wheel Disc No	00170-6218 VR 08-16	00179-6214 VR 09-16	00146-6218 VR 08-16	00075-6218 VR 08-16	00097-6214 VR 09-16	00025-6214 VR 09-16	00065-6218 VR 08-16	00065-6204 VR 08-16
R.B. Nos.	05-16 63095	09-16 76834	05-16 62842	09-16 78971	09-16 75980	05-16 62557	03-16 85897	03-16 87788
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO 16-08-088 16-02	TAYAL & CO 16-08-090 16-02	TAYAL & CO 16-08-095 16-02	TAYAL & CO 16-08-055 16-02

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	L&S	06-16 1434	06-16 CVA 1434
3.	Primary Damper	KONI/GEREP	06-16(20936,33878,34668,33641)	KW 44-16 301530049
4.	Secondary Damper	GABRIEL/KNORR	11-16(0461),01-17(0466)	02-17(0243,0240)
5.	Lateral Damper	GEREP	KW 43-16 301550559	KW 43-16 301550559
6.	Brake Cylinder	KBI	5074K-29,5021K-29,5024K-29,5075K-29	4957K-29,4885K-29,4886K-29,4958K-29
7.	Brake Caliper	KBI	29(4621,4692,4694,4622)	29(4504,4576,4577,4505)
8.	Brake Disc	FAV	(12-16-6178,11-16-5997)D133561-300 12-16(6134,6139)D133561-300	12-16(6137,6138)D133561-300 11-16(5901,5902)D133561-300
9.	Ball Joint Control Arm	MGN/SGA		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	SARITA		
12.	Traction lever make	JI 12-15/SARITA		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	ESCORTS	1610,1610	2016,1611
16.	Check Valve	ESCORTS	102016	1611
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA/SGA		
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	Pass17B2077
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016M2930
4.	FIBA	M/s KBI ,Palwal Haryana	PP END 0219/29 NPP END 0231/29
5.	PVC	M/s Premier polyfilm, New Delhi	
6.	Foot Step	M/s Hi tech, RBL	
7.	Lavatory Module	M/s Hindustan Fiber Ltd. Vadodara	
8.	Lavatory Doors	M/s Hindustan Fiber Ltd. Vadodara	
9.	Water purified	M/s Parag Polymer, Lucknow	
10.	Lavatory Inlay	N/A	
11.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
12.	Body Side Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
13.	Emergency Window	M/s Hindustan Fiber Glass works Ltd. Vadodara	
14.	Hopper Window	M/s Shatabdi Safety glass, Vadodara	
15.	Body Side Doors	M/s JBM, Faridabad	
16.	Bio Tank	M/s Rail Tech. KXH	
17.	Overhead Water Tank(4X390L)	M/s Rail Fab. KXH	
18.	Bib Cock/Controlled Discharge Tap	M/s Jaguar Pvt. Ltd.	
19.	Seat & Berth	M/s Hindustan Fiber Glass works Ltd. Vadodara	


SSE/QC/MCF/RBL

चरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०क०, रायबरेली (लालगंज)



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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.
3	Water purified	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

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CME/FUR/MCF/RBL
वरि०अनु० अभियंता गुणवत्ता विभाग रे०डि०क्र०, रायबरेली (लालगंज)	जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	उप मु०या०अभि०/फर्नि Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Lalganj, 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	16446/C	TYPE COACH	LWS
RAILWAY	WR	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
Modern Coach Factory Raebareli





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PAGE 2 OF 3

01.	Switch board cabinet Make : ISG On Board Sr no : 16-10-056 HT Panel Sr no : 16-10-048	EDTS 333, Rev `01'Am-1	01
02.	Emergency light system for EOG type coaches (AEL), Make : INTEG	EDTS 151,Rev -c Am-1 & 2	04
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : DR AUTO	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.KANWER	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 : INTEG,DR AUTO & JIPL	CC 76213,Alt `d'.	26
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : KAVERI	CC 76216, Alt `c'.	02

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PAGE 3 OF 3

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 : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HIREL Sr no: 17030477	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN 1505392	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	02 sets
16.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
17.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116222531	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 : 11/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA RAIL COACH COMPONENTS	CC 91205	01

 SSE/EL/QC	 Dy CEE(P)/MCF/RBL
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वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

उप मुख्य विद्युत अभियन्ता
उत्पादन एवं योजना
आपरेटिंगका/लालगंज/रायबरेली
Dy.C.E.E./Prod & Ptg/M.C.F./RBL