



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/ 544

Coach No.	1	7	4	0	7	6	/	C		DATE OF DISPATCH	3	0	0	3	2	0	1
-----------	---	---	---	---	---	---	---	---	--	------------------	---	---	---	---	---	---	---

RLY	W	R	Type	L	G	S	-	-	Shell No.	6	6	0	9	2	-	2	0	1	6	-	1	7
-----	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

- Railway Board's Order No. : 2016/M(C)/142/1, Dated 02.03.17
- 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)1099 (NPPE) 2) 1102(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/s-Siddhu industries corporation, KXH
		Complete	M/s-MCF/RBL
2.	Side wall	M/s-MCF/RBL	RH
3.	End wall	PP	M/s-E.C Blades & tools Pvt. Ltd.
		NPP	M/s-E.C Blades & tools Pvt. Ltd.
4.	Roof	M/s-TI Metal forming Thiruninravur	
5.	Centre Buffer Coupler	M/s Escorts Ltd. Railway equipment division, Faridabad	PP END
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	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	89/87
2.	Insulation			

SSE/QC/MCF/RBL



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/2016-17/544

Coach No.			1	7	4	0	7	6	/	C	-	DATE OF DISPATCH						3	0	0	3	2	0	1	7
RLY	W	R		Type	L	S	-	3		Shell No.		6	6	0	9	2	-	2	0	1	6	-	1	7	

8. DETAIL OF BOGIES :

ITEMS	NPP SIDE				PP SIDE			
Bogie No	161208				161207			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-218				ECBT-245			
Bolster no.	SCI-26				RBL- 987			
Axle No	S - 1674		V-1362		V - 1854		S -3846	
Wheel Dia	917.623	917.588	917. 603	917. 553	917.570	917.643	917.644	917.535
Wheel Disc No	00085-6190 VR-08-16	04995-6QH3 VR-05-16	00129-6217 VR-09-16	00012-6217 VR-09-16	00087-6218 08-16	00134-6218 08-16	00158-6218 08-16	00008-6183 07-16
R.B. Nos.	05-16 99748	09-16 77475	05-16 97880	05-16 62339	09-16 07460	07-16 05270	09-16 07552	07-16 05477
CT R B Make	SKF		SKF		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.	DN15-0-1298	CMGBD11-16- 5100-139-26	DN16U-1499	CMGBD08-16- 5100-90-1	DN16-S-1595	CMGBD08-16- 5100-90-9	DN16-S-1569	CMGBD-11-16- 5100-139-99
Compressed Ht. at Tested Load	515	472	515	471	512	472	510	472
Alignment deviation (mm)	7	11	8	12	10	12	13	12

10. TRACEABILITY OF BOGIE ITEMS:

S NO	ITEM	MAKE/ SUPPLIER	SERIAL NO	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	01-17 1100-233(165,74,133,36)	01-17 1100-233(230,151,111,175)
2.	Primary Inner Spring	L&S	06-16 CVA 1434	06-16 CVA 1434
3.	Primary Damper	GEREP	KW 44-2016 301530049	KW(44- 2016,24-2016,24-2016,44-2016)301530049
4.	Secondary Damper	GABRIEL	11-16(130,132)	11-16(127,128)
5.	Lateral Damper	KONI	22-2016 5466	22-2016 4744
6.	Brake Cylinder	KBI	5352K29,5245K29,5259K29,5351K29	5430K29,5268K29,5270K29,5426K29
7.	Brack Caliper	KBI	4019-29,4891-29,4889-29,4818-29	4851-29,4900-29,4901-29,4848-29
8.	Brake Disc	FAV	D133561-300(6220,6163,6175,6171)12-16	D133561-300(6216,6214,6215,6281)12-16
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	SGA/MGN		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	JI		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction Canter	SGA		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA/SGA/MGN		
19.	Fork make	SARITA		

SSE/BOGIE/QC/MCF/RBL



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/ 544

Coach No.			1	7	4	0	7	6	/	C	DATE OF DISPATCH					3	0	0	3	2	0	1	
RLY	W	R	Type	L	G	S	-	-	Shell No.		6	6	0	9	2	-	2	0	1	6	-	1	7

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Palwal Haryana	PASS16L192
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016K2726
4.	PVC	M/s Premier polyfilm, New Delhi	
5.	Foot Step	M/s Hi tech, RBL	
6.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
7.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
8.	Body Side Window	M/s AB Composites Pvt. Ltd. Kolkata	
9.	Emergency Window	M/s Macedon Vinimay Pvt. Ltd, Kolkata	
10.	Hopper Window	M/s Rail Tech,Kapurthala (P.B)	
11.	Body Side Doors 1,2,3,5	M/s JBM, Faridabad	
12.	Body Side Doors 4	M/s Air Flow, Chennai	
13.	Body Side Doors 6	M/s Bukata, CDG	
14.	Bio Tank	N.A.	
15.	Overhead Water Tank(4X390L)	M/s Rail Fab. KXH	
16.	Bib Cock/Controlled Discharge Tap	M/s Agmeco. Faucet Pvt.Ltd. Mohali	
17.	Lavatory Doors	N.A.	
18.	Seat & Berth	M/s Ananya Rail Coach Component India RBL	

SSE/QC/MCF/RBL



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/ 544

Coach No.			1	7	4	0	7	6	/	C	DATE OF DISPATCH					3	0	0	3	2	0	1	
RLY	W	R	Type	L	G	S	-	-	Shell No.		6	6	0	9	2	-	2	0	1	6	-	1	7

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, 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	AME/QC/MCF/RBL	Dy.CME/FUR/MCF/RBL

वरिष्ठ अभियन्ता
गुणवत्ता विभाग
रेडिओग्रॉ, रायबरेली (लाल-लाल)

सहायक यांत्रिक अभियन्ता/गुणवत्ता-1
Assistant Mechanical Engineer/Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

उप म. यां. अभि. / फर्नि.
DY CME/FURNISHING
को. रेल. डि. कारखाना, रायबरेली
MCF/RBL, LLJ



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

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	174076/C	TYPE COACH	LGS
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	

Pkumg
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 3377/355/064 HT Panel Sr no : 3377/355/064	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 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, FLOLITE	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

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

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 : ISG	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: 16030760	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : 609	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 : AECO	EDTS-328 REV-C	02
17.	Wheel set earthling equipment. Make : CHANDA,MAA LAXMI	EDTS101,REV-C,AM-1	02
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0116422676	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 09/2016	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	 Dy CEE(P)/MCF/RBL
----------------------	------------------------------

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 & Plg/M.C.F./LLJ/RBL