



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/ 575

Coach No.			1	6	4	4	5	/	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	2	-	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)1100 (NPPE) 2)1101(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	M/s-E.C Blades & Tools Pvt. Ltd. Chandigarh	PP END 2527 NPP END 2520
	Complete	M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 66062 LH 66062
3.	End wall	PP M/s-Neera Chandigarh	PP END 66062 NPP END 66062
		NPP M/s Neera Chandigarh	
4.	Roof	M/s-MCF/RBL	
5.	Centre Buffer Coupler	M/s Escort Pvt. Ltd. Faridabad	PP END 7033 NPP END 7063
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	89/87
2.	Insulation			

SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

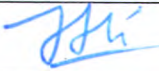
ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 575

Coach No.		1	6	4	4	5	/	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	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	Pass16L1903
2.	Pull box	M/s KBI ,Palwal Haryana	
3.	DV	M/s KBI ,Palwal Haryana	2016K2701
4.	FIBA	M/s KBI ,Palwal Haryana	PP END NPP END
5.	PVC	M/s Premier polyfilm, New Delhi	0227/29 0204/29
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 1,3,4	M/s JBM, Faridabad	
16.	Body Side Doors 2,5,6	M/s Sukata CDG	
17.	Bio Tank	M/s Rail Fab. KXH	
18.	Overhead Water Tank(4X390L)	M/s Rail Fab. KXH	
19.	Bib Cock/Controlled Discharge Tap	M/s Jaguar Pvt. Ltd.	
20.	Seat & Berth	M/s Hindustan Fiber Glass works Ltd. Vadodara	


SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareilly

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/2016-17/575
(ANTYODAYA)

Coach No.	1	6	4	4	5	/	C	-	DATE OF DISPATCH	3	1	/	0	3	/	1	7
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

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

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	161064				161063			
Bogie Type	FIAT				FIAT			
Frame no.	BEC-067				BEC-072			
Bolster no.	RBL-LS5-89				RBL-LS5-31			
Axle No	S-3750		V-2245		S-3251		S-1297	
Wheel Dia	917.653	917.652	917.657	917.620	917.623	917.616	917.670	917.597
Wheel Disc No	00183-6215 VR 08-16	00145-6215 VR 08-16	00150-6180 VR 07-16	00177-6180 VR 07-16	00188-6177 VR 09-16	00017-6180 VR 07-16	ZB-2014 270-10559	00569-6MG6 TZ05-16
R.B. Nos.	09-16 77204	04-16 94445	09-16 76756	04-16 94571	07-16 73318	04-16 93352	07-16 73329	05-16 63108
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 16-08-061 16-02	TAYAL & CO 16-08-046 16-02	TAYAL & CO 16-08-058 16-02	TAYAL & CO 16-08-094 16-02

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK/L&S	01-17,1100-233(268,28,42,205)	07-16 2612
2.	Primary Inner Spring	L&S	06-16 1434	06-16 1434
3.	Primary Damper	GEREP	KW 44-16 301530049	KW 44-16 301530049
4.	Secondary Damper	GABRIEL	11-16(0463)01-17(0468)	11-16(0460,0462)
5.	Lateral Damper	GEREP	KW 43-16 301550559	KW 43-16 301550559
6.	Brake Cylinder	KBI	5414K-29,5186K-29,5183K-29,5413K-29	5076K-29,5025K-29,5022K-29,5073K-29
7.	Brake Caliper	KBI	29(4829,4837,4836,4828)	29(4623,4695,4693,4620)
8.	Brake Disc	FAV	12-16(6164,6169)D133561-300 11-16(5998)D133561-300 12-16(6066)D133561-300	12-16(6151,6150,6158)D133561-300 11-16(5999)D133561-300
9.	Ball Joint Control Arm	SGA		
10.	Lateral Bump Stop	SGA/MGN		
11.	Traction Centre make	EMSON		
12.	Traction lever make	SARITA		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	SGA		
15.	Leveling Valve	ESCORT	1611,1611	1611,1611
16.	Check Valve	ESCORT	104016	102016
17.	Anti roll bar make	EMSON/SARITA		
18.	Roll Link make	SARITA/MGN		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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/ 575

Coach No.			1	6	4	4	5	/	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	2	-	2	0	1	6	-	1	7

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 qualityrcfbl@gmail.com

SSE/QC/MCF/RBL वरि०अनु० अभियंता गुणवत्ता विभाग रे०डि०का०, रायबरेली (लालगंज)	AME/QC/MCF/RBL जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CME/FUR/MCF/RBL उप० मु०या०अभि०/फर्नि Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Lalgarj, 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 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	16445/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	

[Signature]
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 : 3377/355/108 HT Panel Sr no : 3377/355/019	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 : 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 : INTEG	LW 76033,Alt `c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : 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

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 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: 16080095	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : 551	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S. INTERNATIONAL	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 : 0116422710	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 : 09/2016	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
----------------------	------------------------------

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./LLJ/RBL