



रेल डिब्बा कारखाना, रायबरेली

RAIL COACH FACTORY, RAEBARELI



FORM NO: RCF/RBL/QMF 8001
VERSION: 2012-01-01

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC

Date: 24/05/2016

SHELL No.	L	W	A	C	C	N	5	3	0	1	0	1	5	-	1	6	DATE OF DISPATCH	3	1	1	2	2	0	1	5
RLY	E	R	Type	L	W	A	C	C	N	Coach No.	1	5	1	2	6	/	C	-							

Railway Board's Order No. : 2015/M(C)/142/1 dtd 13.10.2015

1. Tare Weight of Coach : 45.6 Tonnes
2. Carrying Capacity : (a) Seating : 72 (b) Sleeping : 72 (c) Luggage : NIL

3. 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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-15	1) 1104(NPPE) 2) 1105(PPE)

4. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Buffers	N.A.	
2.	Centre Buffer Coupler	M/s Faiveley	PP END N14005B NPP END N14007B

5. 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	7 Sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/Sec, after 02 Sec. 	Brake must apply	OK

6. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U.	VIBGYOR	96/94
2.	Insulation		Satisfactory	



आधुनिक रेल डिब्बा कारखाना रायबरेली
MODERN COACH FACTORY RAE BARELI



FORM NO: RCF/RBL/QMF 8001
VERSION: 2012-01-01

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 27/04/2016

SHELL No.	R	B	L	-	5	3	0	1	0	-	2	0	1	5	-	1	6	DATE OF DISPATCH	3	1	/	1	2	/	1	5
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RLY	E	R		Type	L	W	A	C	C	N		Coach No.	1	5	1	2	6	/	C						
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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	150195 (MCF/RBL)				150196 (MCF/RBL)			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1027				ECBT-1030			
Bolster no.	RBL-205				RBL-181			
Axle No	CHT 13 126604		CHT 13 128863		CHT 13 128880		CHT 13 126235	
Wheel Dia	915.709	915.711	915.570	915.678	915.603	915.709	915.619	915.708
Wheel Disc No	6225-00155 15VR	6225-00064 15VR	6225-00136 15VR	6225-00081 15VR	6225 00137 15VR	6219-00124 15VR	6225-00098 15VR	6225 00140 15VR
R.B. Nos.	12-14-22574	10-14-17077	12-14-22567	12-14-21242	12 14 22552	10 14 16771	12 14 22994	10 14 16780
CT R B Make	SKF		SKF		SKF		SKF	

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.	CMFSK 0715-8836-169	RSK 497	CMFSK 0715-8836-169	RSK 475	CMFSK 0715-8836-169	RSK 580	CMFSK 0715-8836-169	RSK 464
Compressed Ht. at Tested Load	510	468	511	467	512	467	513	665
Alignment deviation (mm)	7	42	8	43	6	31	8	33

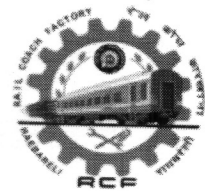
10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
1.	Primary outer Spring	03 R 95-3951-2891, 03 R 97-0159-2891, 03 R 97-0154-2891, 03 R 94-0422-2891	03 R 91-0493-2891, 03 R 97-0433-2891, 03 R 94-3911-2891, 03 R 96-3961-2891	RSK
2.	Primary Inner Spring	CMGBD 09 15 143-56 (153,141,174,173)	CMGBD 09 15 143-56 (132,143,158,10)	CMGBD
3.	Primary Damper	2015-03 (25393,25409,25477,25407)	2015-03 (25373,26680,26566,26973)	KONI
4.	Secondary Damper	14-2015 (6118,5944)	2015-14(6015,5659)	KONI
5.	Lateral Damper	11-2015-3321	11-2015-3304	KONI
6.	Brake Cylinder	535 K 29,580 K 29,578 K 29,573 K 29	960 K 29,1055 K 29,1054 K 29,953 K 29	KBI
7.	Brake Caliper	499-29,555-29,553-29,501-29	921-29,1030-29,1029-29,919-29	KBI
8.	Brake Disc	24058114 0003 22/15,24056185 0019 19/15 24057939 0007 22/15,24057938 0012 22/15	24057877 0015 22/15,24056185 0008 19/15 24057939 0005 22/15,24056185 0013 19/15	KBI
9.	Ball Joint Control Arm			GMT
10.	Lateral Bump Stop			MGN,GMT
11.	Traction Centre make			SARITA
12.	Traction lever make			SARITA
13.	Ball joint traction lever			GMT
14.	Ball joint traction centre			GMT
15.	Secondary Rubber Pad			TECSPAK
16.	Rubber Spring			GMT
17.	Anti roll bar make			EMSON
18.	Roll Link make			SARITA, GMT
19.	Fork make			SARITA

*Responsible
SSE/Bogie/AC*



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RLY	E	R	Type	L	W	A	C	C	N	Coach No.	1	5	1	2	6	/	C	-
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Faridabad ,New Delhi	15G1148
2.	Pull box	M/s KBI ,Faridabad ,New Delhi	
3.	DV	M/s KBI ,Faridabad ,New Delhi	2015G1716
4.	PVC	M/s Responsive Industries, Mumbai	
5.	UIC Vestibule (PPE)	M/s Elastomer Lining Works ,Thane	
6.	UIC Vestibule (NPPE)	M/s Elastomer Lining Works ,Thane	
7.	Foot Step	M/s Super Spark Pvt. Ltd. Faridabad	
8.	Decoupling arrangement	M/s SECO Industries, Mumbai	
9.	Body Side Window	M/s Aikon Technology Pvt.Ltd.Solan (H.P)	
10.	Emergency Window	M/s Aikon Technology Pvt.Ltd.Solan (H.P)	
11.	Lavatory Window	M/s Rail Tech, Kapurthala	
12.	Roof Ceiling	M/s KAE Sataraganj Pvt. Ltd. ESIPL U.K.	
13.	Non-AC Area Ceiling	M/s Gandhi Enterprises, Jalandhar	
14.	Supply Air Duct	M/s Hanspal Coach Products KXH	
15.	Body Side Doors	M/s Kalsi Ludhiana	
16.	Compartment Door (PPE)	M/s Rail Tech, Kapurthala	
17.	Compartment Door (NPPE)	M/s Rail Tech, Kapurthala	
18.	Vestibule Door(PPE)	M/s Kalsi Ludhiana	
19.	Vestibule Door(NPPE)	M/s Kalsi Ludhiana	
20.	CDTS	M/s Darshan Enterprises, New Delhi	
21.	Auxiliary Water Tank	M/s Shivalik Fastener Mohali PB	
22.	Under Slung Water Tank(450 L)	M/s Shivalik Fastener Mohali PB	
23.	Under Slung Water Tank(2X685L)	M/s Amit Engineers, Baddi (HP)	
24.	Flexible Faucet	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
25.	Lotah Filler Tap	M/s Metco Delhi	
26.	Lavatory Modoules	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
27.	Lavatory Doors	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
28.	Waste Bin Arrangement	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
29.	Fire Extinguisher	M/s Pahal Fire	NPP 7972, PP 7982
30.	Side Wall panel	M/s KAE Sataraganj U.K.	
31.	Seat & Berth	M/s Savitri Engg. Products Pontasahib HP	
32.	Light Luggage Rack	M/s Verendra Steel Enterprises Chandigarh	
33.	Snack Table	M/s Anjani Technology Noida	
34.	Yaw Damper	M/s Gereep Supplier M/s SFT Engg. kolkata	NPP-1086,1093 PP -1141,1095





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RLY	E	R	Type	L	W	A	C	C	N	Coach No.	1	5	1	2	6	/	C	-							

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, 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:

- 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 RCF/RBL.
- For any complain/ suggestion please mail at qualityrcfrbl@gmail.com

DY CME

MCF/RBL

DY CME/FURNISHING

रेल कोच फैक्ट्री / रायबरेली / लालगंज

RCF/RBL/LLJ

सहायक अभियन्ता/ गुणवत्ता
Assst. Engineer/ Quality
रेल डिब्बा कारखाना, लालगंज, रायबरेली
Rail Coach Factory, Lalganj, Raebareli



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ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

Senior Section Engineer
Quality control / Electrical
RCF, Raebareli

Вкнижка



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



RCF/RBL/QEF8001

VER. 10.08.2015

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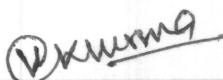
FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETY ITEMS	OK
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED	OK

R 407C


Senior Section Engineer
Quality control / Electrical
RCF, Raebareli



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



RCF/RBL/QEF8001

VER. 10.08.2015

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : INTEC Sr no of RMPU 1 (NPP side): 15-J-390 Sr no of RMPU 2(PP side) : 15-J-398 Sr no of Microprocessor: 15.08.135/SDWL	As per rdso/pe/spes/ac/0061/rev -1/2005	02
02.	Switch board cabinet Make : AMIT Sr no : AE/SB/103	As per spec no . EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA- 4045/8/2014 Sr no.1- 250883/8/2014 Sr no.2- 250884/8/2014 Sr no.CPA- 4205/10/2014	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Vestibule Light Fitting Single	LW 76004,Alt-b	07
06.	Ceiling light fitting DOUBLE w/o diffuser.	LW 76011,Alt -c	09
07.	Ceiling light fitting with NL w/o diffuser w/o item 2&3	LW 76013,Alt -c	09
08.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly	LW 76001,Alt nil	04
10.	WC gauge signal light	LW 76006,Alt-c	02

(Signature)

Senior Section Engineer
Quality control / Electrical
RCF, Raebareli



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



RCF/RBL/QEF8001

VER. 10.08.2015

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Passenger alarm coach indication light	LW 76005,Alt-e	02
12.	Fluorescent lamp 18W	RDSO/PE/SPEC/D/TL 0011-2000,Rev I, Sec-I, 07/2001	34
13.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	25
14.	Razor socket for WC 110/240V.	EDML 047 ,Rev nil	04
15.	Terminal strip	EDML 034,Rev-a	01
16.	Terminal connector	EDML 037,Rev`a`	04
17.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame	EDML 047,Rev- C, Item 1.	09
18.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame	EDML 047,Rev-A, Item 2.	09
19.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover	As per cat no EL-243 (EL signature series) of M/s SSK	09
20.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am- 1,2&3	01 set
21.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 05/2015	EDTS 129,Rev nil	01 set
22.	Battery box for LHB coaches.	1 10113 0 76 700 005 w/o item 5, 22, 23, 26 & 27.	01

(Signature)

**Senior Section Engineer
Quality control / Electrical
RCF, Raebareli**




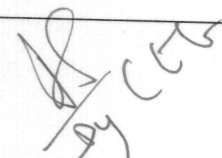
**Govt. of India- Ministry of Railways
(RAIL COACH FACTORY-RAEBARELI)**



RCF/RBL/QEF8001
VER. 10.08.2015
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Battery fuse box +ve Make : NEC	As per LW 71001,Alt-F	01
24.	Battery fuse box -ve Make : NEC	As per LW 71002,Alt-F	01
25.	Regulated battery charger Make : HIREL Sr no : 15050283	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
26.	Emergency battery charger Make : BHASIN Sr no: 05140625	EDTS 163,Rev `c` corg.-2&3	01
27.	60KVA transformer Make : PANTRONICS Sr no : PAN-14011973	As per rdso/pe/spec/ac/0080/rev -0 (2007)/Am-1&2/Corr. 1,2&3	01
28.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e` Am-2	02 sets
29.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDML 020, Rev- I/EDTS-328 REV-C.	02
30.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
31.	Wheel Slide Protection System (WSP) Make : KNORR & Sr no : 0114341358	M/s : KNORR	01 set
32.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGRATION	As per spec no EDTS 139, Rev- E , Sec II.	01

 SSE/EL/QC वरिष्ठ खण्ड अभियन्ता विद्युत उत्पादन-गुणवत्ता रेल कोच फैक्टरी / लालगंज / रायबरेली Sr. Section Engineer Electric Production - Quality RCF / RBL / LLJ	 DyCEE(P)/RCF/RBL उप मुख्य विद्युत अभियन्ता (उत्पादन) रेल कोच फैक्टरी-रायबरेली, लालगंज DY.CEE/P-RCF/RBL/LLJ
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