



रेल डिब्बा कारखाना, रायबरेली
RAIL COACH FACTORY, RAEBARELI



206

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

ROLLING STOCK CERTIFICATE

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

Date: 09/12/2015

SHELL No.	L	W	A	C	C	N	1	7	R	B	L	/	1	4	-	1	5	DATE OF DISPATCH	0	8	0	9	2	0	1	5
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RLY	C	R	Type	L	W	A	C	C	N	Coach No.	1	4	1	2	0	/	C
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- Railway Board's Order No. : 2014/M(C)/142/1 dtd 21.07.2014
- Tare Weight of Coach : 45.6 Tonnes
- Carrying Capacity : (a) Seating : 72 (b) Sleeping : 72 (c) 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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-15	1) 1103(NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Buffers	N.A.				
2.	Centre Buffer Coupler	M/s ESCORTS	PP END	3894	NPP END	3816

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	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

7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U.	VIGBYOR	93/92
2.	Insulation	Satisfactory		



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SHELL No.	R B L - 1 7 - 2 0 1 4 - 1 5	DATE OF DISPATCH	0 8 / 0 9 / 1 5
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RLY	C	R	Type	L	W	A	C	C	N	Coach No.	1	4	1	2	0	/	C
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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	150055				150056			
Bogie Type	FIAT				FIAT			
Frame no.	EC-15				EC-03			
Bolster no.	HEI-36				RBL-69			
Axle No	A 3003 3 3221 RWF 2014		C 4623 6 22778 RWF		3 2975 A 3042 RWF 2014		Z 3712 2 4871 RWF 2014	
Wheel Dia	914	914	914	914	915	915	915	915
Wheel Disc No	06148 00180 VR 15	06148 00183 VR 15	06145 00045 VR 15	06145 00081 VR 15	06145 00070 VR 15	06145 00078 VR 15	06148 00071 VR 15	06145 00055 VR 15
R.B. Nos.	12 14 02887	04 14 29888	02 15 30203	04 14 02558	02 15 29540	04 14 30402	04 14 30411	04 14 30401
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.	CMGBD 06 15 836 29	G 13 3 4587	CMGBD 06 15 836 29	G 13 3 4654	CMGBD 06 15 836 29	G 12 14 3693	CMGBD 06 15 836 29	G 12 14 1783
Compressed Ht. at Tested Load	511.5	465	513	467	514.5	467	513.5	467
Alignment deviation (mm)	9	21	10	23	7	24	8	27

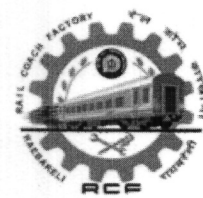
10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
1.	Primary outer Spring	L&S 03 12 CV (0279),(0059),(0180),(0058)		L&S
2.	Primary Inner Spring	CV05 15(7143 146 8),CV 01 15 (7143 143 28) CV 05 15(7143 146 50),CV05 15(7143 146 91)		CVFSK
3.	Primary Damper	20889, 21103, 20900, 21064 (06-2014)		KONI
4.	Secondary Damper	5101,5222 (42/2014)		KONI
5.	Lateral Damper	41-2014 3048		KONI
6.	Brake Cylinder	241 K 29, 292 K 29, 291 K 29, 240 K 29		KBI
7.	Brake Caliper	234 29,280 29,281 29, 235 29		KBI
8.	Brake Disc	24044185 0003 40/14,24044185 0020 40/14 24043541 0024 35/14,24043542 0008 35/14		KBI
9.	Ball Joint Control Arm			MGN
10.	Lateral Bump Stop			GMT,MGN
11.	Traction Centre make			EMSON
12.	Traction lever make			SARITA
13.	Ball joint traction lever			MGN
14.	Ball joint traction centre			GMT
15.	Secondary Rubber Pad			TECSPAK
16.	Rubber Spring			GMT
17.	Anti roll bar make			SARITA
18.	Roll Link make			SARITA
19.	Fork make			SARITA

[Signature]
BSE/OC/Bogie



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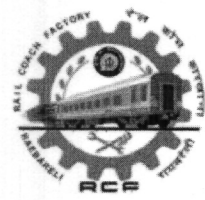
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Faridabad ,New Delhi	14J0814
2.	Pull box	M/s KBI ,Faridabad ,New Delhi	
3.	DV	M/s KBI ,Faridabad ,New Delhi	2014H1342
4.	PVC	M/s Responsive Industries, Mumbai	
5.	UIC Vestibule (PPE)	M/s SUNCREST Industris Best Bengal.	
6.	UIC Vestibule (NPPE)	M/s Ameenji Pvt. Ltd. Hyderabad	
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 Hindustan Fibre Ltd. Vadodra (Gujrat)	
13.	Non-AC Area Ceiling	M/s Amirchand Engg.works, jalandhar	
14.	Supply Air Duct	M/s Amirchand Engg.works, jalandhar	
15.	Body Side Doors	M/s JBM Faridabad	
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 Amit Engineers, Baddi (HP)	
21.	Auxiliary Water Tank	M/s Manoj Enterprises , Mohali Punjab	
22.	Under Slung Water Tank(450 L)	M/s Shivalik Fastener Mohali PB	
23.	Under Slung Water Tank(2X685L)	M/s Shivalik Fastener Mohali PB	
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 seemex New Delhi	141223,1370,1371
30.	Side Wall panel	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
31.	Seat & Berth	M/s Mohan Rail Components Pvt. Ltd. KXH	
32.	Light Luggage Rack	M/s Virendra Steel Enterprises Chandigarh	
33.	Snack Table	M/s Anjani Technology Noida	
34.	Yaw Damper	M/s GEREP Sup.- M/s SFT Engineering KOLKATA	



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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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
RCF/RBL

SSE/QC
RCF/RBL अभियंता
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

उप मु.यां.अभि./फर्नि.
DY CME/FURNISHING
रेल कोच फैक्ट्री / रायबरेली / लालगंज
RCF / RBL / LLJ



EMPRISE Marketing

B-1/31, Sector H, Aliganj
Lucknow - 226 024 (India)
Tel.: (0522) 3208468, 3221900
Tele Fax : (0522) 4017682
E-mail : emprisemarketing@hotmail.com

Date: 27.02.2015

DY CME/P
RAIL COACH FACTORY
LALGANJ
RAEBARELI

Contract Agreement no-RCF/RBL/MECH/PTG/13-14/0005 DT 23.07.2014

WARRANTY CERTIFICATE NO:EMP/FEB/2015

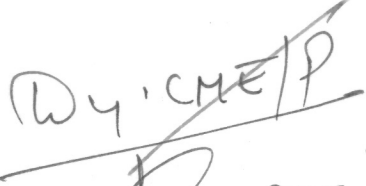
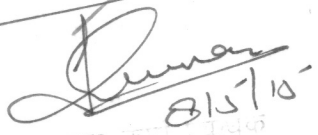
This is to certify that POLYURETHANE PAINTING work done under your contract no-RCF/RBL/MECH/PTG/13-14/0005 dated 23.07.2014 has been completed on:

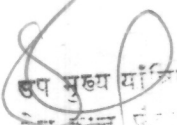
SL	COACH TYPE	RCF/RBL Furnishing no	Completion date	Coach Number	Railways
1	LWACCN-17	L3T-206	26.02.2015	14120/c	CR

The Pu Painting work done on each coach shall be warranted for a period of 03 years from the date of completion of the work for the coaches for gloss retention/color retention & adherence properties as per RDSO specification: M&C/PCN/100/2009. If any imperfection is noticed or any defect arise during the warranty period due to improper material used or due to bad workmanship EMPRISE MARKETING shall be bound to set right the defect/imperfection on free of cost basis.

For: EMPRISE MARKETING


(Authorised Signatory)



सहायक कार्यकारी अधिकारी
Asth. Wm Manager
रेल कोच फैक्ट्री रायबरेली (लालगंज)
Rail Coach Factory Raebareli (Lalganj)


उप मुख्य यंत्रिक अधिकारी
रेल कोच फैक्ट्री रायबरेली
Dy. Chief Engineer
RCF/RBL, Raebareli







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



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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	SAFETIES :	
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

(Signature)

Senior Section Engineer
Quality control / Electrical
RCF, Raebareli



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



RCF/RBL/QEF7001

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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 : AMIT Sr no of RMPU (NPP side) : 1067-G Sr no of RMPU (PP side) : 1066-G Sr no of Microprocessor: AE.14.09.0296/AMIT	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make: AMIT Sr no : AE/SB/062	As per spec no . EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller & pump box Make: KALSI Sr no PA: 4140/10/2014 Sr no.1: 251419/10/2014 Sr no.2: 251420/10/2014 Sr no.CPA: 4155/10/2014	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)



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VER.2014:00
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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 nil, Item 1.	09
18.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame	EDML 047,Rev nil ,Item 2.	09
19.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev-a Am-1,2&3	01 set
20.	70AH/110V, 54 Cells, 02V each, maintenance free pure lead acid tin monoblock, battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 02/2015	EDTS 129,Rev nil	01 set
21.	Battery box for LHB coaches.	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01

(Signature)
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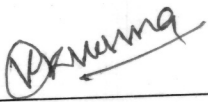
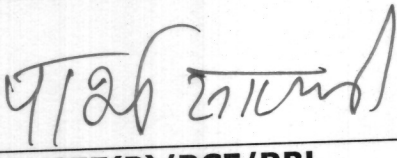
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VER.2014:00

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
22.	Battery fuse box +ve Make : ISG	As per LW 71001,Alt-F	01
23.	Battery fuse box -ve Make : ISG	As per LW 71002,Alt-F	01
24.	Regulated battery charger Make : HIREL Sr no: 14100087	As per RDSO/pe/spec/ac/01 29, Rev.-1 (2009)	01
25.	Emergency battery charger Make : WAVES Sr no: WEBCE-14534	EDTS 163,Rev `c' corg.-2&3	01
26.	60KVA transformer Make : VIMAL Sr no : 2355	As per rdso/pe/spec/ac/008 0/rev-0 (2007)/Am- 1&2/Corr. 1,2&3	01
27.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev `e' Am-2	02 sets
28.	Feeder junction boxes. Make : NEC	EDML 020,Rev-I	02
29.	Wheel set earthling equipment. Make : DARSHAN & CHANDA	EDTS101,REV- C,AM-1	02
30.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0114121042	M/s : KNORR	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SD ENGINEERS	As per spec no EDTS 139, Rev- E ,Sec II.	01

 SSE/EL/QC	 DYCEE(P)/RCF/RBL
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विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer
Electric Production - Quality
RCF / RBL / LLJ

उप मुख्य विद्युत अभियंता (उत्पादन)
रेल कोच फैक्टरी-रायबरेली, लालगंज
DY.CEE/P-RCF/RBL/LLJ