

L3T-422

**आधुनिक रेल डिब्बा कारखाना, रायबरेली**  
**MODERN COACH FACTORY, RAEBARELI**

FORM NO: RCF/RBL/QMF 8002  
VERSION: 2016-01-13

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/107

SHELL NO.	5 3 1 4 7 - 2 0 1 5 - 2 0 1 7	DATE OF DISPATCH	2 9 0 7 2 0 1 6
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RLY	C	R	-	-	Type	L	W	A	C	C	N	Coach No.	1	6	1	3	7	/	C	-
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1. Railway Board's Order No. : 2015/M(C)/142/1 Dtd. 18.05.2016
2. Tare Weight of Coach : 45.6 Tonnes
3. 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) 1095 (NPPE) 2) 1099 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

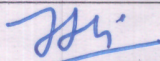
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	MCF/RBL	PP END	53147	NPP END	53147
	Front Part					
	Complete	MCF/RBL				
2.	Side wall	MCF/RBL	RH	53147	LH	53147
3.	End wall	NPP- M/s Rail Tech KXH	PP END	53147	NPP END	53147
		PP- M/s Rail Tech KXH				
4.	Roof	MCF/RBL				
5.	Centre Buffer Coupler	M/s ESCORTS	PP END	5429	NPP END	5428
6.	Buffers	N.A.				

**6. AIRBRAKE TEST REPORT:**

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	<ul style="list-style-type: none"> <li>➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>➤ Max. pressure in BC</li> <li>➤ All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	8 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, after 02 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	96/94
2.	Insulation	Satisfactory		

  
 55/QC/MCF/RBL  
 वरिष्ठ अधिकारी  
 गुणवत्ता विभाग

रेडिओका, रायबरेली (लालगंज)

L3T-422

RCF/RBL



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**8. DETAIL OF BOGIES :**

ITEMS	PP Side				NPP Side			
Bogie No	160305				160306			
Bogie Type	LWACCN				LWACCN			
Frame no.	SCI/FM-556				SCI/FM-558			
Bolster no.	RBL-599				RBL-427			
Axle No	P- 9035 RWF		P- 9469RWF		P- 9750 RWF		P-9000 RWF	
Wheel Dia	917.016	917.121	916.942	917.043	917.011	917.014	917.013	917.143
Wheel Disc No	07302-00006 15 VR	7270-00087 15 VR	7274-00007 15 VR	7270-00129 15 VR	7276-00014 15 VR	7305-00154 15 VR	6204-00065 15 VR	07298-00061 15 VR
R.B. Nos.	02-15 02521	03-15 03676	03-15 04329	02-15 02267	03-15 04002	03-15 04053	02-15 02261	03-15 03711
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

**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.	CMAFJ 02-16- 8836-36-4	CMGBD03-16- 513-06-61	CMAFJ 02-16- 8836-8	CVFSK03-16- 513-06-41	CMFSK04-16- 8836-193-45	CMGBD03-16- 513-06-37	CVFSK04-16- 8836-193-19	CMGBD 03-16-513- 06-168
Compressed Ht. at Tested Load	515	467	515	468	510	464	512	465
Alignment deviation (mm)	9	8	8	5	8	8	9	9

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
1.	Primary outer Spring	RSK 03 WA (114,259-2891,249,126)	RSK 03 WA (307,325,169,479)	RSK
2.	Primary Inner Spring	CMGBD 02-16- 143-72(31,8,73,26)	L&S10-15CVB2638	CVFSK/L&S
3.	Primary Damper	05-2016(30753,32727,32468,32768)	05-2016(32694,32809,32700,32678)	GEREP
4.	Secondary Damper	S.V.DWAN12-15 33509001	S.V.DWAN12-15 33509001	S.V.DWAN
5.	Lateral Damper	S.V.DWAN12-15 3350459	S.V.DWAN12-15 3350459	S.V.DWAN
6.	Brake Cylinder	3107K29,3101K29,3098K29,3106K29	2610K29,2641K29,2642K29,2611K269	KBI
7.	Brake Caliper	2975-29,2995-29,2992-29,2972-29	2538-29,2588-29,2589-29,2539-29	KBI
8.	Brake Disc	24067897 0003-08/16,24067896 0030-08/16 24067897 0004-08/16,24067813 0022-08/16	24065021 0036-05/16,24065021 0037-05/16 24067896 0024-08/16,24067896 0023-08/16	KBI
9.	Ball Joint Control Arm			MGN
10.	Lateral Bump Stop			MGN
11.	Traction Centre make			EMSON/SARITA
12.	Traction lever make			SARITA
13.	Ball joint traction lever			GMT
14.	Ball joint traction centre			MGN
15.	Secondary Rubber Pad			TECSPAK
16.	Rubber Spring			GMT
17.	Anti roll bar make			EMSON /SARITA
18.	Roll Link make			SARITA /MGN
19.	Fork make			SARITA

*Traye*

Signature of SSE/Bogie/QC



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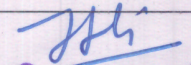
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**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI ,Faridabad ,New Delhi	15L1300
2.	Pull box	M/s KBI ,Faridabad ,New Delhi	
3.	DV	M/s KBI ,Faridabad ,New Delhi	2015K1905
4.	PVC	M/s Responsive Industries, Mumbai	
5.	UIC Vestibule (PPE)	M/s Suncrest Industries West Bengal	
6.	UIC Vestibule (NPPE)	M/s Suncrest Industries West Bengal	
7.	Foot Step	M/s Hitech Infra RBL	
8.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
9.	Body Side Window	M/s Aikon Technology Pvt.Ltd.Solan (H.P)	
10.	Emergency Window	M/s Rail Tech, Kapurthala	
11.	Lavatory/hooper Window	M/s Aikon Technology Pvt.Ltd.Solan (H.P)	
12.	Roof Ceiling	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
13.	Non-AC Area Ceiling	M/s Gandhi Safe & Allied, Jalandhar	
14.	Supply Air Duct	M/s Hanspal Coach Products Kapurthala	
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/Bio Tank	M/s Rail Tech, Kapurthala	
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 Mohali PB	
24.	Flexible Faucet	M/s Hindustan Fibre Ltd. Vadodra (Gujarat)	
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 Agni Safety Devices Haryana	NPP-7049 PP-7022
30.	Side Wall panel	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
31.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
32.	Light Luggage Rack	M/s Techno Industries, Allahabad	
33.	Snack Table	M/s International Tractor Ltd. Hoshiarpur	

  
 SSE/QC/MCF/RBL  
 गुणवत्ता विभाग  
 रेडि०का०, रायबरेली (लालगज)

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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

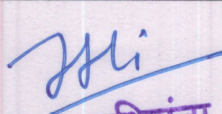
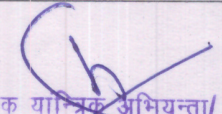
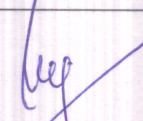
S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

**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

 <b>वरिष्ठ अभियंता</b> <b>SSE/OC/MCF/RBL</b> <b>गुणवत्ता विभाग</b> <b>रेडिंकॉ, रायबरेली (लालगंज)</b>	 <b>सहायक यान्त्रिक अभियंता/ गुणवत्ता</b> <b>Asst. Mechanical Engineer/ Quality</b> <b>रेल डिब्बा कारखाना, लालगंज, रायबरेली</b> <b>Coach Factory, Lalganj, Raebareli</b>	 <b>Dy.CME/FUR/MCF/RBL</b> <b>DY CME/FURNISHING</b> <b>रेल कार फैक्ट्री / रायबरेली / लालगंज.</b> <b>RCF / RBL / LLJ</b>
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BT-422

रेलवे/राजधानी



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



MCF/RBL/QEF8001

VER. 01.06.2016

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH	LWACCN	SHELL/COACH NO	16137/C
RAILWAY	CR	DATE OF DESPATCH	
<b>Sr no</b>	<b>Description of tests</b>		<b>Remarks</b>
1.0	REFERENCE SPECIFICATION : L 446		
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.		
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01		
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.		
	Observed status : HEALTHY		
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE	OK
3.1	Fresh Air	<b>29.19</b> Cub mtr/min	OK
3.2	Return Air	<b>77.77</b> Cub mtr/min	OK
3.3	Exhaust Air	<b>10.36</b> Cub mtr/min	OK
3.4	Conditioned Air	<b>200.81</b> Cub mtr/min	OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition		OK
	PP Side : <b>21.1°C</b>	NPP Side : <b>23.2°C</b>	
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.		OK
	PP Side : <b>20.2°C</b>	NPP Side : <b>22.7°C</b>	

*[Signature]*  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



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



MCF/RBL/QEF8001  
VER. 01.06.2016  
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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 :	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

*(Signature)*

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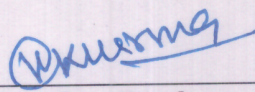
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MCF/RBL/QEF8001  
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : <b>AMIT</b> Sr no of RMPU (NPP side): <b>1617- E</b> Sr no of RMPU (PP side) : <b>1620- E</b> Sr no of Microprocessor: <b>AE 16.04 728</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make: <b>TRINITRON</b> Sr no : <b>3371/073/008</b>	As per spec no . EDTS073,REV-D,AM-6	<b>01</b>
03.	Pump equipment with PLC controller & pump box Make: <b>KALSI</b> Sr no PA: <b>5068/02/206</b> Sr no.1: <b>263015/02/2016</b> Sr no.2: <b>263016/02/2016</b> Sr no.CPA: <b>5035/02/2016</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Vestibule Light Fitting Single	LW 76004,Alt-b	<b>07</b>
06.	Ceiling light fitting DOUBLE w/o diffuser.	LW 76011,Alt -c	<b>09</b>
07.	Ceiling light fitting with NL w/o diffuser w/o item 2&3	LW 76013,Alt -c	<b>09</b>
08.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly	LW 76001,Alt nil	<b>04</b>
10.	WC gauge signal light	LW 76006,Alt-c	<b>02</b>

  
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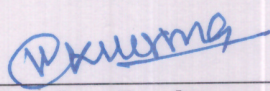
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MCF/RBL/QEF8001  
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**ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES**

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Passenger alarm coach indication light	LW 76005,Alt-e	<b>02</b>
12.	Fluorescent lamp 18W	RDSO/PE/SPEC/D/TL 0011-2000,Rev I, Sec- I , 07/2001	<b>34</b>
13.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	<b>25</b>
14.	Razor socket for WC 110/240V.	EDML 047 ,Rev nil	<b>04</b>
15.	Terminal strip	EDML 034,Rev-a	<b>01</b>
16.	Terminal connector	EDML 037,Rev`a`	<b>04</b>
17.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame	EDML 047,Rev- C, Item 1.	<b>09</b>
18.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame	EDML 047,Rev-A ,Item 2.	<b>09</b>
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	<b>09</b>
20.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,Rev- a Am- 1,2&3	<b>01 set</b>
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 : <b>HBL</b> Lug date : <b>03/2016</b>	EDTS 129,Rev nil	<b>01 set</b>
22.	Battery box for LHB coaches.	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	<b>01</b>

  
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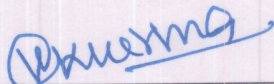
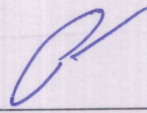
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**ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES**

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Battery fuse box +ve Make : <b>ABROL</b>	As per LW 71001,Alt-F	<b>01</b>
24.	Battery fuse box -ve Make : <b>ABROL</b>	As per LW 71002,Alt-F	<b>01</b>
25.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>061606101</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
26.	Emergency battery charger Make : <b>WAVES</b> Sr no: <b>161676</b>	EDTS 163,Rev `c` corg.-2&3	<b>01</b>
27.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>3768</b>	As per rdso/pe/spec/ac/0080/rev -0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
28.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev `e` Am-2	<b>02 sets</b>
29.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>02</b>
30.	Wheel set earthing equipment. Make : <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02</b>
31.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr no : <b>0115411884</b>	M/s : <b>KNORR</b>	<b>01 set</b>
32.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : <b>SUPER REFRIGERATION</b>	As per spec no EDTS 139, Rev- E ,Sec II.	<b>01</b>

 <b>SSE/EL/QC</b>	 <b>DyCEE(P)/MCF/RBL</b>
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