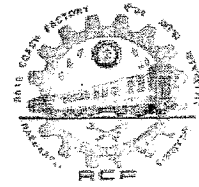


रेल डिब्बा कारखाना, रायबरेली  
RAIL COACH FACTORY, RAEBARELI



FORM NO: RCF/RBL/QMF 5002  
VERSION: 2012-01-01

**ROLLING STOCK CERTIFICATE**

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

Date: 24/03/2015

|           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL No. | L | W | A | C | C | N | R | B | L | 4 | / | 1 | 4 | - | 1 | 5 | DATE OF DISPATCH | 1 | 2 | 0 | 2 | 2 | 0 | 1 | 5 |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|     |   |   |   |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|
| RLY | S | E | R | Type | L | W | A | C | C | N | Coach No. | 1 | 4 | 8 | 1 | 3 | 3 | / | C |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|

- Railway Board's Order No. : 2014/M(C)/142/1 dated 08.09.2014
- 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) 1104(NPPE) 2) 1105(PPE) |

**5. TRACEABILITY OF SHELL ITEMS:**

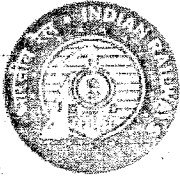
| S NO | ITEM                  | MAKE/SUPPLIER | SERIAL NO |      |         |      |
|------|-----------------------|---------------|-----------|------|---------|------|
| 1.   | Buffers               | N.A.          |           |      |         |      |
| 2.   | Centre Buffer Coupler | M/s ESCORTS   | PP END    | 3166 | NPP END | 3132 |

**6. AIRBRAKE TEST REPORT:**

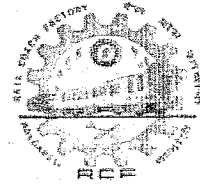
| S NO | ITEM                   | DESCRIPTION  | SPEC. VALUE   | OBSERVED                               |
|------|------------------------|--|---|--|
| 1.   | Full brake application | <ul style="list-style-type: none"> <li>Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>Max. pressure in BC</li> <li>All Brake are applied</li> </ul> | 6 – 10 sec.<br>3.0 ±0.15 kg/cm <sup>2</sup> .<br>OK | 7 Sec.<br>3.0 kg/cm <sup>2</sup><br>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 DETAILS:**

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE   | AVERAGE GLOSS VALUE |
|------|-------------|---------------|--------|---------------------|
| 1.   | Paint       | P.U.          | AXALTA | 94.17/94.80         |
| 2.   | Insulation  | Satisfactory  |        |                     |



# रेल डिब्बा कारखाना, रायबरेली - RAIL COACH FACTORY, RAEBARELI



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

## ROLLING STOCK CERTIFICATE

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

Date: 24/03/2015

|           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL-No. | L | W | A | C | C | N | R | B | L | 4 | / | 1 | 4 | - | 1 | 5 | DATE OF DISPATCH | 1 | 2 | 0 | 2 | 2 | 0 | 1 | 5 |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|     |   |   |   |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|
| RLY | S | E | R | Type | L | W | A | C | C | N | Coach No. | 1 | 4 | 8 | 1 | 3 | 3 | / | C |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|

### 8. DETAIL OF BOGIES :

| ITEMS         | PP SIDE   |           |           |           | NPP SIDE  |           |           |           |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bogie No      | 147074    |           |           |           | 147073    |           |           |           |
| Bogie Type    | Fiat      |           |           |           | Fiat      |           |           |           |
| Axle No       | A-3151    |           | C-2834    |           | Z-3039    |           | B-9712    |           |
| Wheel Dia     | 917.00    | 917.00    | 916.00    | 916.00    | 917.00    | 917.00    | 916.00    | 916.00    |
| Wheel Disc No | 178-11607 | 355-11607 | 243-11607 | 286-16359 | 306-16339 | 208-11605 | 243-11607 | 286-16359 |
| R.B. Nos.     | 02691     | 02871     | 36288     | 35909     | 01693     | 01535     | 36078     | 36072     |
| CT R B Make   | TIMKEN    |           | TIMKEN    |           | TIMKEN    |           | TIMKEN    |           |

### 9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

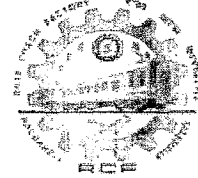
| DESCRIPTION                   | BOGIE PP SIDE |             |               |             | BOGIE NPP SIDE |             |               |              |
|-------------------------------|---------------|-------------|---------------|-------------|----------------|-------------|---------------|--------------|
|                               | SECONDARY 1   |             | SECONDARY 2   |             | SECONDARY 1    |             | SECONDARY 2   |              |
|                               | OUTER         | INNER       | OUTER         | INNER       | OUTER          | INNER       | OUTER         | INNER        |
| Make & Nos.                   | CMFSK-14-2-55 | G-12-8-2783 | CMFSK-14-2-24 | G-12-8-2981 | CMFSK-14-2-31  | G-12-8-2827 | CMFSK-14-2-57 | G-12-10-2846 |
| Compressed Ht. at Tested Load | 513           | 465         | 512           | 467         | 513            | 467         | 513           | 468          |
| Alignment deviation (mm)      | 05            | 31          | 05            | 24          | 06             | 39          | 05            | 37           |

### 10. TRACEABILITY OF BOGIE ITEMS:

| S NO | ITEM                       | SERIAL NO |          | MAKE   |
|------|----------------------------|-----------|----------|--------|
|      |                            | PP SIDE   | NPP SIDE |        |
| 1.   | Primary outer Spring       | L&S-13-2  | L&S-13-2 | L&S    |
| 2.   | Primary Inner Spring       | L&S-12-5  | L&S-12-5 | L&S    |
| 3.   | Primary Damper             |           |          | KONI   |
| 4.   | Secondary Damper           |           |          | GEREP  |
| 5.   | Lateral Damper             |           |          | GEREP  |
| 6.   | Yaw Damper                 |           |          | KONI   |
| 7.   | Brake Cylinder & Caliper   |           |          | KBI    |
| 8.   | Brake Disc                 |           |          | KBI    |
| 9.   | Ball Joint Control Arm     |           |          | MGN    |
| 10.  | Lateral Bump Stop          |           |          | GMT    |
| 11.  | Traction Centre make       |           |          | SARITA |
| 12.  | Traction lever make        |           |          | SARITA |
| 13.  | Ball joint traction lever  |           |          | GMT    |
| 14.  | Ball joint traction centre |           |          | SGA    |
| 15.  | Secondary Rubber Pad       |           |          | TESPAK |
| 16.  | Rubber Spring              |           |          | GMT    |
| 17.  | Anti roll bar make         |           |          | SARITA |
| 18.  | Roll Link make             |           |          | SARITA |
| 19.  | Fork make                  |           |          | SARITA |



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.: RCF/RBL/QC/RSC

Date: 24/03/2015

|           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL No. | L | W | A | C | C | N | R | B | L | 4 | / | 1 | 4 | - | 1 | 5 | DATE OF DISPATCH | 1 | 2 | 0 | 2 | 2 | 0 | 1 | 5 |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

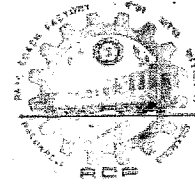
|     |   |   |   |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|
| RLY | S | E | R | Type | L | W | A | C | C | N | Coach No. | 1 | 4 | 8 | 1 | 3 | 3 | / | C |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|

**11. TRACEABILITY OF FURNISHING ITEMS:**

| S NO | ITEM                            | MAKE/SUPPLIER                                | SERIAL NO |
|------|---------------------------------|--|-----------|
| 1.   | Air Brake Module                | M/s Faiveley Harita Hasur Tamilnadu          | B14025B   |
| 2.   | Pull box                        | M/s Faiveley Harita Hasur Tamilnadu          |           |
| 3.   | DV                              | M/s Faiveley Harita Hasur Tamilnadu          | 14025535B |
| 4.   | PVC                             | M/s Responsive Industries, Mumbai            |           |
| 5.   | UIC Vestibule (PPE)             | M/s Ameenji Pvt. Ltd. Hyderabad              |           |
| 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 KAE Engg. Pvt. Ltd. Sitarganj, U.K.      |           |
| 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 Darshan Enterprise New Delhi             |           |
| 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 Hindustan Fibre Ltd. Vadodra (Gujrat)    |           |
| 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 Hindustan Fibre Ltd. Vadodra (Gujrat)    |           |
| 30.  | Side Wall panel                 | M/s Hindustan Fibre Ltd. Vadodra (Gujrat)    |           |
| 31.  | Seat & Berth                    | M/s Savitry Engineering Products, Pontasahib |           |
| 32.  | Light Luggage Rack              | M/s Virendra Steel Enterprises Chandigarh    |           |
| 33.  | Snack Table                     | M/s Anjani Technology Noida                  |           |



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.: RCF/RBL/QC/RSC

Date: 24/03/2015

|           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL No. | L | W | A | C | C | N | R | B | L | 4 | / | 1 | 4 | - | 1 | 5 | DATE OF DISPATCH | 1 | 2 | 0 | 2 | 2 | 0 | 1 | 5 |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|     |   |   |   |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |
|-----|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|
| RLY | S | E | R | Type | L | W | A | C | C | N | Coach No. | 1 | 4 | 8 | 1 | 3 | 3 | / | 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    | REFERENCE &     |
|------|------------------|---------|-----------|-----------------|
|      |                  |         | Frequency | 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  
RCF/RBL

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

SSE/QC  
RCF/RBL

सीनियर सेक्शन इंजीनियर (क्वालिटी कंट्रोल)  
रेल डिब्बा कारखाना, रायबरेली

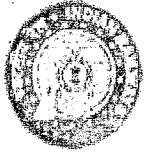


रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory, Kapurthala

Page 2 of 3

| 12.    | Bogie Details:                               | Shell No.                          | Railway       | Type          | Coach No.      | Dispatch Date |             |               |             |
|--------|--|------------------------------------|---------------|---------------|----------------|---------------|-------------|---------------|-------------|
|        |  | 4107/RBL                           |               | LACCN         |                | 07/01/2015    |             |               |             |
| 12.1   | Wheel & Axle Details:                        | NPP Side                           |               |               |                | NPP Side      |             |               |             |
| i.     | Bogie No.                                    | 147073                             |               |               |                | 147074        |             |               |             |
| ii.    | Frame No.                                    | FIAT-3538                          |               |               |                | FIAT-3542     |             |               |             |
| iii.   | Bolster No.                                  | 4420-VT                            |               |               |                | 4218-VT       |             |               |             |
| iv.    | Axle No.                                     | Z-3039                             | B-9712        |               | A-3151         | A-2834        |             |               |             |
| v.     | Wheel Dia.                                   | 917.00                             | 917.00        | 916.00        | 916.00         | 917.00        | 916.00      |               |             |
| vi.    | Wheel Disc No.                               | 306-16339                          | 208-11605     | 343-11607     | 256-16339      | 178-11607     | 355-11607   | 243-11607     | 286-16359   |
| vii.   | R.B. Nos.                                    | 01693                              | 01535         | 36078         | 36072          | 02691         | 02871       | 36288         | 35909       |
| viii.  | R.B. Make                                    | TIM                                |               | TIM           |                | TIM           |             | TIM           |             |
| ix.    | RB Type                                      | UIC CARTRIDGE TAPER ROLLER BEARING |               |               |                |               |             |               |             |
| 12.2   | Secondary suspension load deflection Values: |                                    |               |               |                |               |             |               |             |
|        | Description                                  | Secondary 1                        |               | Secondary 2   |                | Secondary 1   |             | Secondary 2   |             |
|        |  | Outer                              | Inner         | Outer         | Inner          | Outer         | Inner       | Outer         | Inner       |
| i.     | Make & nos.                                  | CMFSK-14-2-31                      | G-12-8-2827   | CMFSK-14-2-57 | G-12-8-2846    | CMFSK-14-2-55 | G-12-8-2783 | CMFSK-14-2-24 | G-12-8-2981 |
| ii.    | Ht. attest load                              | 513                                | 467           | 513           | 468            | 513           | 465         | 512           | 467         |
| iii.   | Align. deviation                             | 6                                  | 39            | 5             | 37             | 5             | 31          | 5             | 24          |
| 12.3   | Items traceability:                          |                                    |               |               |                |               |             |               |             |
|        | Sno.   | Item                               | PP Side Bogie |               | NPP side Bogie |               | Make        |               |             |
| i.     |  | Primary Outer Spring               | L&S-13-2      |               | L&S-13-2       |               | L&S         |               |             |
| ii.    |  | Primary inner Spring               | L&S-12-5      |               | L&S-12-5       |               | L&S         |               |             |
| iii.   |  | Primary Damper                     |               |               |                |               | KONI        |               |             |
| iv.    |  | Secondary damper                   |               |               |                |               | GEREP       |               |             |
| v.     |  | Lateral Damper                     |               |               |                |               | GEREP       |               |             |
| vi.    |  | Yaw Damper                         |               |               |                |               | NIL         |               |             |
| vii.   |  | Brake cylinder & Caliper           |               |               |                |               | KBI         |               |             |
| viii.  |  | Brake Disc                         |               |               |                |               | KBI         |               |             |
| ix.    |  | Ball joint Control arm             |               |               |                |               | MGN         |               |             |
| x.     |  | Lateral Bump stop                  |               |               |                |               | GMT         |               |             |
| xi.    |  | Traction center make               |               |               |                |               | SARITA      |               |             |
| xii.   |  | Traction lever make                |               |               |                |               | SARITA      |               |             |
| xiii.  |  | Ball joint traction lever          |               |               |                |               | GMT         |               |             |
| xiv.   |  | Traction centre elastic            |               |               |                |               | SGA         |               |             |
| xv.    |  | Secondary rubber pad               |               |               |                |               | TESPAK      |               |             |
| xvi.   |  | Rubber spring                      |               |               |                |               | GMT         |               |             |
| xvii.  |  | Anti roll bar make                 |               |               |                |               | SARITA      |               |             |
| xviii. |  | Ball joint roll link               |               |               |                |               | SARITA      |               |             |
| xix.   |  | Fork make                          |               |               |                |               | SARITA      |               |             |
| 12.4   | i.   | Modification / Trial (if any):     |               |               | NIL            |               |             |               |             |
|        | ii.  | Deviations (if any):               |               |               | NIL            |               |             |               |             |

AL  
20/2/16  
JTE/OC



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



RCF/RBL/QEF7001

VER.2014:00

PAGE 1 OF 5

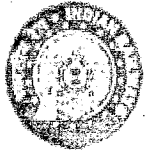
**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

| TYPE COACH   | LWACCN   | SHELL/COACH NO            | 148133/C       |
|--------------|--|---------------------------|----------------|
| RAILWAY      | SER  | 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>29.34</b> Cub mtr/min  | OK             |
| 3.2          | Return Air   | <b>82.01</b> Cub mtr/min  | OK             |
| 3.3          | Exhaust Air  | <b>6.60</b> Cub mtr/min   | OK             |
| 3.4          | Conditioned Air  | <b>183.52</b> Cub mtr/min | OK             |
| 4.0          | <b>PRE COOLING TEST: Max 01 hr.</b><br>Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition<br><br>Not done due to ambient temp below 22°C |                           | OK             |
| 5.0          | <b>PULL DOWN TEST: Max 02 hrs.</b><br>Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.<br><br>Not done due to ambient temp below 22°C        |                           | OK             |

*P. Ramana*  
Senior Section Engineer  
Quality control / Electrical  
RCF, 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 :                                 | 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**

*(Signature)*  
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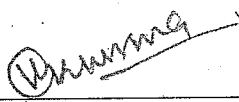
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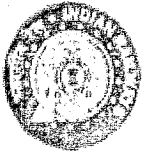
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description   | Drg/Spec no.                                  | Quantity per Coach |
|-------|---|---|--------------------|
| 01.   | Roof mounted AC package unit for LHB AC coaches<br>Make : <b>INTEC</b><br>Sr no of RMPU (NPP side ) : <b>14-L-305</b><br>Sr no of RMPU (PP side) : <b>14-L-302</b><br>Sr no of Microprocessor: <b>14-J-141/AMIT</b> | As per<br>rdso/pe/spes/ac/0061/<br>rev-1/2005 | <b>02</b>          |
| 02.   | Switch board cabinet<br>Make: <b>ISG</b><br>Sr no : <b>14-11-001</b>  | As per spec no .<br>EDTS073,REV-D,AM-<br>6    | <b>01</b>          |
| 03.   | Pump equipment with PLC controller & pump box Make: <b>DR AUTO</b> Sr no PA- <b>2014/05/028</b><br>Sr no.1- <b>131106707</b><br>Sr no.2- <b>131106717</b><br>Sr no.CPA- <b>14/05/0025</b>                           | As per spec EDTS<br>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<br>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-<br>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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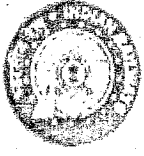


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| 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 16A/250V/AC ONE WAY complete with steel plate & cover frame   | EDML 045,Rev nil ,Item 2.                         | 09                 |
| 19.   | PA system for LHB coaches<br>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.<br>Make :HBL Lug date :09/2014 | 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                 |

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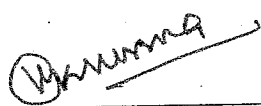

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| Sr no | Description  | Drg/Spec no.   | Quantity per Coach |
|-------|--|--|--------------------|
| 22.   | Battery fuse box +ve<br>Make : <b>ISG</b>  | As per LW<br>71001,Alt-F   | <b>01</b>          |
| 23.   | Battery fuse box -ve<br>Make : <b>INTEG</b>  | As per LW<br>71002,Alt-F   | <b>01</b>          |
| 24.   | Regulated battery charger<br>Make : <b>IC ELECT</b> Sr no: <b>14-12-007</b>              | As per.<br>RDSO/pe/spec/ac/01<br>29, Rev.-1 (2009)                     | <b>01</b>          |
| 25.   | Emergency battery charger<br>Make : <b>BHASIN</b> Sr no: <b>04140516</b>                 | EDTS 163,Rev `c`<br>corg.-2&3  | <b>01</b>          |
| 26.   | 60KVA transformer<br>Make : <b>VIMAL</b><br>Sr no : <b>2151</b>                          | As per<br>rdso/pe/spec/ac/008<br>0/rev-0 (2007)/Am-<br>1&2/Corr. 1,2&3 | <b>01</b>          |
| 27.   | ZS coupling 400A/750V/03Ph/50hz.<br>Make : <b>S INTERNATIONAL</b>                        | As per spec No<br>EDTS 105,Rev `e`<br>Am-2                             | <b>02 sets</b>     |
| 28.   | Feeder junction boxes.<br>Make : <b>NEC</b>  | EDML 020,Rev-I   | <b>02</b>          |
| 29.   | Wheel set earthing equipment.<br>Make : <b>DARSHAN ENTERPRISES</b>                       | EDTS101,REV-<br>C,AM-1   | <b>02</b>          |
| 30.   | Wheel Slide Protection System (WSP)<br>Make: <b>FAIVELEY</b> & Sr no : <b>11/14/207</b>  | M/s : <b>FAIVELEY</b>  | <b>01 set</b>      |
| 31.   | PANTRY EQUIPMENTS :<br>Hot Case & Bottle cooler cum deep freezer<br>Make : <b>SIDWAL</b> | As per spec no<br>EDTS 139, Rev- E<br>,Sec II.                         | <b>01</b>          |

|   |   |
|---|---|
| <br><b>SSE/EL/QC</b> | <br><b>DYCEE(P)/RCF/RBL</b> |
|---|---|

विद्युत उत्पादन - गुणवत्ता  
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Sr. Section Engineer  
Electric Production - Quality  
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