



**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/2017-18/ 250

|           |   |   |   |   |      |   |   |   |                  |   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|------|---|---|---|------------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coach No. |   | 1 | 7 | 2 | 1    | 7 | / | C | Date of dispatch |   |           |   | 1 | 5 | - | 0 | 9 | - | 1 | 7 |   |   |   |   |
| Rly       | N | W | R | - | Type | L | W | S | C                | N | Shell No. | 7 | 7 | 0 | 4 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

1. **Railway Board's Order No.** : 2017/M(C)/142/2 Dated- 26.05.2017
2. **Tare Weight of Coach** : 41.24 Tones
3. **Carrying Capacity** : (a) Seating : 80 (b) Sleeping : 80 (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                       | 4039                        |
| 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            | Front Part M/S E.c.blades & tool pvt. Ltd CDG | PP END 166 NPP END 166     |
|      |                       | Complete M/S E.c.blades & tool pvt. Ltd CDG   |                            |
| 2.   | Side wall             | M/s MCF/RBL                                   | RH 77041 LH 77041          |
| 3.   | End wall              | PP END M/S E.c.blades & tool pvt. Ltd CDG     | PP END 77041 NPP END 77041 |
|      |                       | NPP END M/S E.c.blades & tool pvt. Ltd CDG    |                            |
| 4.   | Roof                  | M/S Pennar ind. Ltd. Thiruvallur tamilnadu    |                            |
| 5.   | Centre Buffer Coupler | M/S Sanrcok faridabad                         | PP END 3702 NPP END 3723   |
| 6.   | Buffers               | N.A.  |                            |

**6. AIRBRAKE TEST REPORT:**

| S NO | ITEM                   | DESCRIPTION  | SPEC. VALUE   | OBSERVED                                |
|------|------------------------|--|---|---|
| 1.   | Full brake application | ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> .<br>➤ Max. pressure in BC<br>➤ All Brake are applied | 6 – 10 sec.<br>3.0 ±0.15 kg/cm <sup>2</sup> .<br>OK | 08 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 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-GS | 93/87               |
| 2.   | Insulation  | Satisfactory  |        |                     |

वरिष्ठ अनुसंधान  
SSE/QC/MCF/RBL  
रेडिओ, रायबरेली (लालगंज)







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|----------|---|---|---|---|------|---|---|------------------|---|---|---|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COACH.NO | 1 | 7 | 2 | 1 | 7    | / | C | DATE OF DISPATCH |   |   |   |            |   |   | 1 | 5 | - | 0 | 9 | - | 1 | 7 |   |   |   |
| RLY      | N | W | R | - | TYPE | L | W | S                | C | N | - | SHELL. NO. | 7 | 7 | 0 | 4 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

**8. DETAIL OF BOGIES :**

| ITEMS         | NPP Side            |                     |                     |                     | PP Side             |                     |                     |                     |
|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Bogie No      | 170585              |                     |                     |                     | 170586              |                     |                     |                     |
| Bogie Type    | FIAT                |                     |                     |                     | FIAT                |                     |                     |                     |
| Frame no.     | RBL-611             |                     |                     |                     | ECBT-396            |                     |                     |                     |
| Bolster no.   | MCF/RBL/VS-176      |                     |                     |                     | SFPL-216            |                     |                     |                     |
| Axle No       | N-6354              |                     | N-6753              |                     | H-9869              |                     | F-9528              |                     |
| Wheel Dia     | 917.458             | 917.451             | 917.535             | 917.519             | 917.520             | 917.606             | 917.553             | 917.647             |
| Wheel Disc No | 10328-7NN8<br>04-17 | 06519-7038<br>03-17 | 08777-7037<br>04-17 | 08778-7037<br>04-17 | 08684-JOJ7<br>04-17 | 08686-7OJ7<br>04-17 | 02922-7NM6<br>03-17 | 06022-7OG2<br>03-17 |
| R.B. Nos.     | 07-16 72904         | 05-16 60141         | 05-16 62421         | 05-16 61889         | 07-16 70268         | 05-17 62079         | 05-17 99635         | 05-17 96728         |
| CTRB Make     | SKF                 |                     | SKF                 |                     | SKF                 |                     | SKF                 |                     |

**9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES**

| DESCRIPTION                   | Bogie NPP side         |                        |                        |                         | Bogie PP side          |                         |                         |                         |
|-------------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                               | Secondary 1            |                        | Secondary 2            |                         | Secondary 1            |                         | Secondary 2             |                         |
|                               | Outer                  | Inner                  | Outer                  | Inner                   | Outer                  | Inner                   | Outer                   | Inner                   |
| Make & Nos.                   | CMFSK-02-17-F09-240-29 | CMFSK-04-17-F08-222-94 | CMFSK-04-17-F09-159-64 | CMFSK-04-17-F08-222-249 | CMFSK-02-17-F09-240-78 | CMFSK-04-17-F08-222-119 | CMFSK-02-17-F09-240-101 | CMFSK-04-17-F08-222-294 |
| Compressed Ht. at Tested Load | 515                    | 471                    | 515                    | 470                     | 514                    | 469                     | 516                     | 470                     |
| Alignment deviation (mm)      | 09                     | 08                     | 09                     | 09                      | 05                     | 07                      | 05                      | 07                      |

**10. TRACEABILITY OF BOGIE ITEMS:**

| S. NO | ITEM                       | MAKE/SUPPLIER     | SERIAL NO.  |                                     |
|-------|----------------------------|-------------------|---|-------------------------------------|
|       |                            |                   | NPP SIDE  | PP SIDE                             |
| 1.    | Primary outer Spring       | CMFSK             | 05-17-F07-318(158,487,19),05-17-F07-317-105   | 05-17(510,604,678,592)              |
| 2.    | Primary Inner Spring       | CMGBD             | 03-17-1101-20(1111,1112,1116,1113)  | 03-17(100,52,116,251)               |
| 3.    | Primary Damper             | KNORR             | 05-17(7581,7384,7377,7323)  | 05-17(7474,7516,7671,7631)          |
| 4.    | Secondary Damper           | GEREP             | KW-17-2017 301550739  | KW17-2017 301550739                 |
| 5.    | Lateral Damper             | KONI              | 42-2016 5637  | 42-2016 5636                        |
| 6.    | Brake Cylinder             | FAV               | F17-005, F17-049, F17-054, F17-063,   | F17-125, E17-049, C17-314, E17-091, |
| 7.    | Brake Caliper              | FAV               | G17125B, G17123B, G17124B, G17126B,   | F17719B, F17717B, F17716B, F17718B, |
| 8.    | Brake Disc                 | KBI               | 24099142-0003-14-17, 24099140-0031-14-17, 24104259-0003-22-17, 24013254-0006-22-17, 24103252-0005-22-17, 24103252-0002-22-17, 24103251-0032-22-17, 24103251-0033-22-17, |                                     |
| 9.    | Ball joint Control Arm     | GMT               |   |                                     |
| 10.   | Lateral Bump Stop          | GMT               |   |                                     |
| 11.   | Traction Centre make       | EMSON             |   |                                     |
| 12.   | Traction lever make        | SARITA            |   |                                     |
| 13.   | Ball joint traction Lever  | S-BLOC            |   |                                     |
| 14.   | Ball joint traction centre | GMT/S-BLOC        |   |                                     |
| 15.   | Secondary Rubber Pad       | TECSPAK           |   |                                     |
| 16.   | Rubber Spring              | GMT               |   |                                     |
| 17.   | Anti roll bar make         | EMSON             |   |                                     |
| 18.   | Roll Link make             | SARITA/S-BLOC/SGA |   |                                     |
| 19.   | Fork make                  | SARITA            |   |                                     |

Signature of SSE/Bogie/QC





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|-----------|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| Coach No. | 1 | 7 | 2 | 1 | 7 | / | C | Date of dispatch | 1 | 5 | - | 0 | 9 | - | 1 | 7 |
|-----------|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|     |   |   |   |   |      |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|------|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rly | N | W | R | - | Type | L | W | S | C | N | Shell No. | 7 | 7 | 0 | 4 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |
|-----|---|---|---|---|------|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

#### 11.TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM                              | MAKE/SUPPLIER                                  | SERIAL NO |
|------|-----------------------------------|--|-----------|
| 1.   | Air Brake Module                  | M/s Faively transport tech.india ltd baddi(HP) | E17063B   |
| 2.   | Pull box                          | M/s Faively transport tech.india ltd baddi(HP) |           |
| 3.   | Distribution valve                | M/s Faively transport tech.india ltd baddi(HP) | 17055569B |
| 4.   | Foot Step                         | M/s Super spark pvt. ltd. faridabad            |           |
| 5.   | Decoupling arrangement            | M/s Kohinoor Industries Faridabad              |           |
| 6.   | Floor board                       | M/S Tawakal mumbai                             |           |
| 7.   | PVC                               | M/s Responsive ind.mumbai                      |           |
| 8.   | Lavatory Inlay                    | M/s Oasis Fabrication Jagdhari                 |           |
| 9.   | UIC Vestibule (PPE)               | M/s Cemcon ind.DLI                             |           |
| 10.  | UIC Vestibule (NPPE)              | M/s Cemcon ind.DLI                             |           |
| 11.  | Gangway bridge mounting (PPE)     | M/S-Mahaveer metal works KXH                   |           |
| 12.  | Gangway bridge mounting (NPPE)    | M/S-Mahaveer metal works KXH                   |           |
| 13.  | Body Side Window                  | M/s Macedon Vinimay Pvt. Ltd, Kolkata          |           |
| 14.  | Emergency Window                  | M/s AB composites Pvt. Ltd, Kolkata            |           |
| 15.  | Hopper Window                     | M/s Rail tech KXH                              |           |
| 16.  | Side panel                        | M/S-Milton ind.vadodara                        |           |
| 17.  | Roof ceiling                      | M/s G.I.natural fibre Pvt. Ltd, Kolkata        |           |
| 18.  | Door way ceiling                  | M/s JR Industries Jalandhar                    |           |
| 19.  | Body Side Doors                   | M/s Sukata CDG                                 |           |
| 20.  | Vestibule Door(PPE)               | M/s Kalsi LDH                                  |           |
| 21.  | Vestibule Door(NPPE)              | M/s Kalsi LDH                                  |           |
| 22.  | Bio Tank                          | M/s M.K.Precision ltd. Navi mumbai             |           |
| 23.  | Auxiliary Water Tank              | M/s Amit eng.mohali                            |           |
| 24.  | Under Slung Water Tank( 2X685L)   | M/s Amit eng.Baddi                             |           |
| 25.  | Under Slung Water Tank (1X685L)   | M/s Shivalic fastners pvt.ltd. mohali          |           |
| 26.  | Bib Cock/Controlled Discharge Tap | M/s Kalsi Pumps Jalandhar                      |           |
| 27.  | Lavatory Doors                    | M/s JR Industries Jalandhar                    |           |
| 28.  | Seat & Berth                      | M/s Ananya rail coach components ind.          |           |
| 29.  | Snack Table                       | M/s Gandhi Enterprises Jalandhar               |           |

वरिष्ठ अभियंता  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग

रेडिंक ०, रायबरेली (लालगंज)





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|-----------|---|---|---|---|------|---|---|---|------------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coach No. |   | 1 | 7 | 2 | 1    | 7 | / | C | Date of dispatch |   |           |   | 1 | 5 | - | 0 | 9 | - | 1 | 7 |   |   |   |   |
| Rly       | N | W | R | - | Type | L | W | S | C                | N | Shell No. | 7 | 7 | 0 | 4 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

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 pad , wheels, push gravity cocks, flushing valves, mouldings, 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 MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com

|   |   |   |
|---|---|---|
| <br>वरिष्ठ सहायक यांत्रिक अभियंता / गुणवत्ता विभाग<br>रेल डिब्बा कारखाना, रायबरेली (लालगंज)<br>SSE/QC/MCF/RBL | <br>सहायक यांत्रिक अभियंता / गुणवत्ता विभाग<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory, Raebareli<br>AME/QC/MCF/RBL | <br>ज्योतिष सिंह<br>Dy. Chief Quality Manager<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory, Raebareli<br>Dy. QC/MCF/RBL |
|---|---|---|



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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REV NO: 00

DATE: 18.01.2017

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES  
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

| TYPE COACH | LWSCN                                 | SHELL/COACH NO   | 17217/C |
|------------|---------------------------------------|------------------|---------|
| RAILWAY    | NWR                                   | DATE OF DESPATCH |         |
| Sr no      | Description of test                   | Remarks          |         |
| 1.         | PUMP EQUIPMENTS                       | OK               |         |
| 2.         | LIGHTS, NL, 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  
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|     |  |  |           |
|-----|--|--|-----------|
| 01. | Switch board cabinet<br>Make : <b>ISG</b><br>On Board Sr no : <b>17.02.0152</b><br>HT Panel Sr no : <b>17.02.0148</b>  | EDTS 333, Rev`01`Am-1                                      | <b>01</b> |
| 02. | Pump equipment with PLC controller & pump box Make : <b>LEC</b><br>Sr no PA: <b>1705/1098</b><br>Sr no.1 : <b>17040103</b><br>Sr no.2 : <b>17040079</b><br>Sr no.CPA: <b>1705/1117</b> | As per spec EDTS 186,Rev-a, Am- 2                          | <b>01</b> |
| 03. | Emergency light system for EOG type coaches (AEL), Make : <b>VGS</b>   | EDTS 151,Rev -c Am-1 & 2                                   | <b>04</b> |
| 04. | Fitment of Passenger Alarm cum indication light (PACIL), Make : <b>DR AUTO</b>   | As per drg no. LW 76005,Alt - e                            | <b>02</b> |
| 05. | Fitment of Switch Plate Assly(Cabin Side) Make : <b>RECORD</b>   | EDML 086,Rev-03, ITEM-01                                   | <b>10</b> |
| 06. | Fitment of Switch Plate Assly Corridor Side),Make : <b>RECORD</b>  | EDML 086, Rev 03, ITEM-02                                  | <b>10</b> |
| 07. | Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features.<br>Make : <b>CONCORD</b>  | IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I. | <b>30</b> |
| 08. | Fitment of Fluorescent light fitting for LHB type coaches.<br>Make : <b>DR AUTO</b>  | LW 76033,Alt -c  | <b>04</b> |
| 09. | Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.<br>Make : <b>DEW</b>   | CC 76213,Alt`d`.   | <b>24</b> |
| 10. | Night Light Fitting (LED BASED)<br>Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches<br>Make : <b>KAVERI</b>   | CC76289 & CC76443  | <b>10</b> |

*D. K. Sharma*

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





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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

|     |  |  |                |
|-----|--|--|----------------|
| 11. | Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.<br>Make : <b>KAVERI</b>   | CC 76216, Alt `c'.                               | <b>02</b>      |
| 12. | FL Tubes, 02 Feet ,18Watt ,colour temp 6500K   | RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.     | <b>24</b>      |
| 13. | Battery fuse box +ve<br>Make : <b>AECO</b>   | LW 71001,Alt-F                                   | <b>01</b>      |
| 14. | Battery fuse box -ve<br>Make : <b>INDORAIL</b>   | LW 71002,Alt-F                                   | <b>01</b>      |
| 15. | Regulated battery charger<br>Make : <b>IC ELECT.</b> Sr no: <b>1703044</b>   | As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)       | <b>01</b>      |
| 16. | 9KVA transformer<br>Make : <b>VIMAL</b><br>Sr no : <b>865</b>  | As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I. | <b>01</b>      |
| 17. | ZS coupling 400A/750V/03Ph/50hz.<br>Make : <b>MAA LAXMI INDUSTRIES</b>   | As per spec No EDTS 105,Rev `e' Am-3, TYPE-2     | <b>01 set</b>  |
| 18. | Feeder junction boxes.<br>Make : <b>ELECO</b>  | EDTS-328 REV-C                                   | <b>01 set</b>  |
| 19. | Wheel set earthing equipment.<br>Make : <b>SI,MLI</b>  | EDTS101,REV-C,AM-1                               | <b>02 sets</b> |
| 20. | Wheel Slide Protection System (WSP)<br>Make : <b>FAIVELEY</b> Sr no : <b>09/17/314</b>   | M/s : <b>FAIVELEY</b>                            | <b>01 set</b>  |
| 21. | 110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644<br>Make : <b>A. RAJA</b> Lug date : <b>08/2017</b> | RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1           | <b>01 set</b>  |
| 22. | Battery box for LHB coaches.<br>Make : <b>HITECH</b>   | CC 91205   | <b>01</b>      |

|                  |                       |
|------------------|-----------------------|
|                  |                       |
| <b>SSE/EL/QC</b> | <b>SEE(P)/MCF/RBL</b> |

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आपरेटिंग/लालगंज/रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता  
रेल कोच फैक्टरी, रायबरेली, लखनऊ  
Sr. Electrical Engineer / RCF / RBL / Lucknow