



# Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

आधुनिक रेल डिब्बा कारखाना, रायबरेली

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/609

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | W | R | Coach No. | 1 | 8 | 1 | 7 | 3 | 3 | / | C | DATE OF DISPATCH | 0 | 5 | - | 1 | 0 | - | 1 | 8 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |             |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISPATCH TO | SSE/C&W/BKN | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 9 | 5 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|-------------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

1. Railway Board's Order No. : 2018/M(C)/142/2 dated -14-09-2018

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/-10 | 1) 1097 (NPPE) 2) 1105(PPE) |

### 5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM                  | MAKE/SUPPLIER   | SERIAL NO                |
|------|-----------------------|---|--------------------------|
| 1.   | Underframe            | Front Part PP END M/s Shivalic fastners pvt.ltd. mohali | 20                       |
|      |                       | NPP END M/s Shivalic fastners pvt.ltd. mohali           | 20                       |
|      |                       | Complete M/s Shivalic fastners pvt.ltd. mohali          | 20                       |
| 2.   | Lav.side wall         | MCF/RBL (CONTRACTOR V4U)                                | LAV.1 531 LAV.2 532      |
|      |                       | MCF/RBL (CONTRACTOR V4U)                                | LAV.3 533 LAV.4 534      |
| 3.   | Side wall             | LH SIDE MCF/RBL (CONTRACTOR V4U)                        | 177                      |
|      |                       | RH SIDE MCF/RBL (CONTRACTOR V4U)                        | 177                      |
| 4.   | End wall              | PP END M/S Omax auto gurgaon HR                         | -                        |
|      |                       | NPP END M/S Omax auto gurgaon HR                        | -                        |
| 5.   | Roof                  | M/S Indira ind.ranipet chennai                          | 07                       |
| 6.   | Centre Buffer Coupler | M/S Sanrok faridabad                                    | PP END 7169 NPP END 7221 |

### 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 | 07sec.<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 DETAILS:

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE    | APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY) | AVERAGE GLOSS VALUE |
|------|-------------|---------------|---------|--|---------------------|
| 1.   | Paint       | P.U           | M/S -GS | SUPPLY & APPLY                                 | 89/88               |
| 2.   | Insulation  |               |         | Satisfactory                                   |                     |

*[Signature]*  
SSE/QC/MCF/RBL

वरिष्ठ अधिकारी  
मुद्रावत्ता विभाग  
रेडिफा, रायबरेली



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/609

Coach No. 1 8 1 7 3 3 / C - DATE OF DISPATCH 0 5 . 1 0 . 1 8

RLY N W R Type L W A C C N Shell No. 8 3 1 9 5 - - - - -

## 8. DETAIL OF BOGIES :

| ITEMS         | NPP Side               |                        |                        |                       | PP Side               |                       |                       |                       |
|---------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Bogie No      | 181438                 |                        |                        |                       | 181437                |                       |                       |                       |
| Bogie Type    | LWACCN                 |                        |                        |                       | LWACCN                |                       |                       |                       |
| Frame no.     | ECBT-790               |                        |                        |                       | VS-1230               |                       |                       |                       |
| Bolster no.   | SFPL-321               |                        |                        |                       | SFPL-360              |                       |                       |                       |
| Axle No       | 18F-8282RWF            |                        | 18 F-8103RWF           |                       | 18 F-8635RWF          |                       | 18D-8775 RWF          |                       |
| Wheel Dia     | 917.542                | 917.613                | 917.504                | 917.537               | 917.556               | 917.635               | 917.572               | 917.579               |
| Wheel Disc No | TZ-07-18<br>32688-8QP3 | TZ-07-18<br>32689-8QP3 | TZ-07-18<br>32089-8QP0 | TZ07-18<br>32090-5QP0 | TZ06-18<br>30132-8QM6 | TZ06-18<br>30131-8QM6 | TZ07-18<br>32088-8QP0 | TZ06-18<br>32085-8QP0 |
| R.B. Nos.     | 04-18 25647            | 04-18 25250            | 04-18 24800            | 02-18 17105           | 02-18 15304           | 04-18 24776           | 04-18 24810           | 02-18 15293           |
| CT R B 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.                   | CMRSK08-18F16-S08-16Y-188 | CMFSK07-18-9513-443-253 | CMRSK08-18-F16-S37-16Y-288 | CMFSK07-18-9513-401-194 | CMRSK08-18-F16-S37-16Y-262 | CMFSK07-18-9513-401-245 | CMFSK08-18F16-S08-16Y-320 | CMFSK07-18-9513-401-105 |
| Compressed Ht. at Tested Load | 513                       | 468                     | 514                        | 468                     | 510                        | 465                     | 510                       | 463                     |
| Alignment deviation (mm)      | 3                         | 10                      | 4                          | 10                      | 16                         | 14                      | 16                        | 12                      |

## 10. TRACEABILITY OF BOGIE ITEMS:

| S. NO | ITEM                       | MAKE/<br>SUPPLIER | SERIAL NO.                                  |   |
|-------|----------------------------|-------------------|---|---|
|       |                            |                   | NPP SIDE                                    | PP SIDE                                     |
| 1.    | Yaw Damper                 | GEREP             | 277,376                                     | 397,391                                     |
| 2.    | Primary outer Spring       | RSK               | 07-18 03Y (2169,1074,2273,1312)             | 08-18 03Y (2285,1325,2120,1237)             |
| 3.    | Primary Inner Spring       | YR                | 12-17 (2.32-486,2.47-488,5.97-484,3.30-481) | 12-17 (1.78-506,2.23-496,4.26-509,3.16-505) |
| 4.    | Primary Damper             | KNOOR             | 07-18(26633,26632,26638,26640)              | 07-18(26644,26634,26635,26627)              |
| 5.    | Secondary Damper           | KNORR             | 07-18(5464,5475)                            | 06-18 (5471,5478)                           |
| 6.    | Lateral Damper             | KNORR             | 06-18 3765                                  | 06-18 3766                                  |
| 7.    | Brake Cylinder             | ESCORT            | 44695,45179,45213,44647                     | 44639,45183,44180,44638                     |
| 8.    | Brake Caliper              | ESCORT            | 24754,25118,25152,24706                     | 24698,25122,25119,24697                     |
| 9.    | Brake Disc                 | FAV               | 08-18(1144,1177,1145,1287) -D133561-300     | 08-18(1189,1188,1285,1286)- D133561-300     |
| 10.   | Ball Joint Control Arm     | AR                |   |   |
| 11.   | Lateral Bump Stop          | AR                |   |   |
| 12.   | Traction Centre make       | SARITA            |   |   |
| 13.   | Traction lever make        | JI                |   |   |
| 14.   | Ball joint traction lever  | AR                |   |   |
| 15.   | Ball joint traction centre | AR                |   |   |
| 16.   | Secondary Rubber Pad       | WINLANE           |   |   |
| 17.   | Rubber Spring              | AR                |   |   |
| 18.   | Anti roll bar make         | SARITA            |   |   |
| 19.   | Roll Link make             | SARITA /PRAG      |   |   |
| 20.   | Fork make                  | EMSON             |   |   |
| 21.   | Control Arm Upper          | RVE               | 200818-1,170818-2,130818-3,130818-2         | 190818-3,190818-3,140818-2,200818-1         |
| 22.   | Control Arm Lower          | RVE               | RVE,410818-1,RVE,RVE                        | 140818-1,140818-1,140818-1,RVE              |

Signature of SSE/Bogie/QC





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|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | W | R | Coach No. | 1 | 8 | 1 | 7 | 3 | 3 | / | C | DATE OF DISPATCH | 0 | 5 | - | 1 | 0 | - | 1 | 8 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |             |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |
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| DISPATCH TO | SSE/C&W/BKN | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 9 | 5 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|-------------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

### 11. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM                             | MAKE/SUPPLIER                                   | SERIAL NO        |
|------|----------------------------------|---|------------------|
| 1.   | Air Brake Module                 | M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD         | 2018070005       |
| 2.   | Pull box                         | M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)   |                  |
| 3.   | Distribution valve               | M/S- ESCORTS LTD RAILWAY EQUIPMENT FBD          | 1807A005         |
| 4.   | Foot Step                        | M/s Super spark pvt.ltd.faridabad               |                  |
| 5.   | Decoupling arrangement           | M/s-KOHINOOR MUMBAI                             |                  |
| 6.   | Floor board                      | M/s- T.W.P.L. INDUS. MUMBAI                     |                  |
| 7.   | PVC                              | M/s- RESPONSIVE INDS. LTD. MUMBAI               |                  |
| 8.   | UIC Vestibule (PPE)              | M/s- ELASTOMER MUMBAI                           |                  |
| 9.   | UIC Vestibule (NPPE)             | M/s- ELASTOMER MUMBAI                           |                  |
| 10.  | Gangway bridge mounting (PPE)    | M/S- RAKESH IRON STORE, KXH                     |                  |
| 11.  | Gangway bridge mounting (NPPE)   | M/S- RAKESH IRON STORE, KXH                     |                  |
| 12.  | Body Side Window                 | M/s Birkan engg.pvt.ltd.GAZIABAD                |                  |
| 13.  | Emergency Window                 | M/s Birkan engg.pvt.ltd.GAZIABAD                |                  |
| 14.  | Lavatory/hopper Window           | M/S- AIKON IND.SALON H.P                        |                  |
| 15.  | Roof Ceiling                     | M/s Hindustan fibre ltd vadodara                |                  |
| 16.  | Door way /gang way ceiling       | M/s Amirchand engg.works Jalandhar              |                  |
| 17.  | Supply Air Duct                  | M/s HANSPAL TRADERS KXH                         |                  |
| 18.  | Partition panel                  | M/s- RAIL TECH KXH                              |                  |
| 19.  | Partition pillar                 | M/S- JR INDS. JALANDHAR                         |                  |
| 20.  | Side Wall panel                  | M/S HINDUSTAN FIBRE LTD VADODARA                |                  |
| 21.  | AC Trough                        | M/s -MEENA FIBER GLASS INDS. PUDUCHERY          |                  |
| 22.  | Body Side Door                   | M/S JVR LDH                                     |                  |
| 23.  | Compartment Door (PPE)           | M/s- KALSI FAB PVT. LTD.LDH                     |                  |
| 24.  | Compartment Door (NPPE)          | M/s- KALSI FAB PVT. LTD.LDH                     |                  |
| 25.  | Vestibule Door(PPE)              | M/s HANSPAL TRADERS KXH                         |                  |
| 26.  | Vestibule Door(NPPE)             | M/s HANSPAL TRADERS KXH                         |                  |
| 27.  | Bio Tank                         | M/s- FLASH FORGE(P) LTD. VIZAG                  |                  |
| 28.  | Auxiliary Water Tank             | M/s- MANOJ , MOHALI                             |                  |
| 29.  | Under Slung Water Tank ( 2X685L) | M/s- AMIT ENGG, BADDI                           |                  |
| 30.  | Under Slung Water Tank (1x450 L) | M/s- AMIT ENGG, MOHALI                          |                  |
| 31.  | Flexible Faucet                  | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI |                  |
| 32.  | Lotah Filler Tap                 | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI |                  |
| 33.  | Bib cock                         | M/s- KPR INDUSTRIES LTD. MOHALI                 |                  |
| 34.  | Lavatory Modoules                | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI |                  |
| 35.  | Lavatory Doors                   | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI |                  |
| 36.  | Fire Extinguisher                | M/s- ATASEE                                     | PP-8232,NPP-2323 |
| 37.  | Seat & Berth                     | M/s Oriental veneer products mumbai             |                  |
| 38.  | Light Luggage Rack               | M/S- TECHNO IND. ALD                            |                  |
| 39.  | Snack Table                      | M/s- MACHINO PLASTIES LTD. GURGAON              |                  |

SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओडा: रायबरेली (जिला ...)

17/04/2018



# Modern Coach Factory Raebareilly

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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|             |             |      |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISPATCH TO | SSE/C&W/BKN | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 9 | 5 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|-------------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

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 Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain-clutch wire etc. ( items which are consumable in nature) | NIL   |
| 2    | Other coach furnishing sub assemblies(bought out items)   | 24 months from the date of dispatch of coach OR 30 months from the date of supply of material whichever is earlier. |

#### NOTE:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4, para- V of RDSO specification no .M&C/PCN/100/2013-Given below -

| S.No | Time period  | Gloss Retention (initial gloss >85 unit at 60°) | Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10) | Adherence of paints (with each other and with substrate )Cross-cut tape adhesion test as per ASTM D:3359/97(or latest) |
|------|--------------|---|---|--|
| 1    | After 1 year | 80% of initial gloss                            | 7   | 5B   |
| 2    | After 2 year | 70% of initial gloss                            | 6   | 5B   |
| 3    | After 3 year | 60% of initial gloss                            | 5   | 4B   |

If any imperfection is noticed or any defect arises during the warranty -period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

|                |                |                |
|----------------|----------------|----------------|
|                |                |                |
| SSE/QC/MCF/RBL | AME/QC/MCF/RBL | Dy.CQM/MCF/RBL |

वरिष्ठ अनुष्ठानिक अभियंता  
गुणवत्ता विभाग  
रेल डिब्बा कारखाना, रायबरेली

सहायक आधुनिक अभियंता/गुणवत्ता-1  
Assistant Mechanical Engineer / Quality-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareilly

जोगिन्दर  
उप मुख्य गुणवत्ता  
Dy. Chief Quality  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareilly





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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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   | 181733/C |
|------------|--|--------------------|------------------|----------|
| RAILWAY    |  | NWR                | DATE OF DESPATCH |          |
| Sr no      | Description of tests   |                    |                  | Remarks  |
| 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  | 16.80 Cub mtr/min  |                  | OK       |
| 3.2        | Return Air   | 41.16 Cub mtr/min  |                  | OK       |
| 3.3        | Exhaust Air  | 7.04 Cub mtr/min   |                  | OK       |
| 3.4        | Conditioned Air  | 131.33 Cub mtr/min |                  | OK       |
| 4.0        | PRE COOLING TEST: Max 01 hr.<br>Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition<br><br>PP Side :21.2 °C NPP Side :22.0 °C |                    |                  | OK       |
| 5.0        | PULL DOWN TEST: Max 02 hrs.<br>Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.<br><br>Not done                                  |                    |                  | OK       |

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





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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PAGE 2 OF 5

**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 <b>R 407C</b>             | OK      |

  
**Senior Section Engineer**  
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PAGE 3 OF 5

## 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>AMIT ENGG.</b><br>Sr no of RMPU (NPP side): <b>2908-I</b><br>Sr no of RMPU (PP side) : <b>2911-I</b><br>Sr no of Microprocessor: <b>AE-18.08.818</b> | As per<br>rdso/pe/spes/ac/0061/rev-1/2005           | <b>02</b>          |
| 02.   | Switch board cabinet<br>Make : <b>ISG</b><br>Sr no : <b>SBC-MCF-18-08-0184</b>   | RDSO/PE/SPEC/AC/0184-2015 REV-0                     | <b>01</b>          |
| 03.   | Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b><br>Sr no PA : <b>2018/09/02</b><br>Sr no.1 : <b>18050147</b><br>Sr no.2 : <b>18060263</b><br>Sr no.CPA : <b>2018/09/009</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>ECOFIT</b>  | EDTS331, TYPE-1<br>CORR.-1&2                        | <b>02</b>          |
| 05.   | Door way/Gangway Light<br>Make : <b>DR AUTO</b>  | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N            | <b>07</b>          |
| 06.   | Provision of Passenger area light(Cabin)<br>Make: <b>DR AUTO</b>   | As per<br>RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L  | <b>09</b>          |
| 07.   | Corridor Light with Night light<br>Make: <b>RT VISION</b>  | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M            | <b>09</b>          |
| 08.   | Emergency light system for EOG type coaches (AEL) Make : <b>VGS</b>  | EDTS 151,Rev -c Am-1 & 2                            | <b>04</b>          |
| 09.   | Lavatory light fitting assly<br>Make : <b>ARHAM/RT VISION</b>  | LW 76001,Alt nil                                    | <b>04</b>          |
| 10.   | Toilet indication (WC) light,<br>Make: <b>AGASTYA</b>  | As per<br>RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 | <b>04</b>          |
| 11.   | Passenger alarm coach indication light<br>Make : <b>KAVERI</b>   | LW 76005,Alt-e                                      | <b>02</b>          |

**Senior Section Engineer**  
**Quality control / Electrical**  
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DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 4 OF 5

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| Sr no | Description   | Drg/Spec no.   | Quantity per Coach |
|-------|---|--|--------------------|
| 12.   | Razor socket for WC 110/240V.<br>Make : <b>SSK</b>  | EDML 047,Rev nil                                       | <b>04</b>          |
| 13.   | Terminal strip<br>Make : <b>WAGO</b>  | EDML 034,Rev-a   | <b>01</b>          |
| 14.   | Terminal connector<br>Make : <b>WAGO</b>  | EDML 037,Rev`a`  | <b>04</b>          |
| 15.   | Single switch 06A/250V/AC ONE WAY<br>,complete with steel plate & cover frame<br>Make : <b>SSK</b>  | EDML 0,64,Rev-B,<br>Item 04.                           | <b>09</b>          |
| 16.   | Single switch 06A/250V/AC ONE WAY<br>complete with steel plate & cover frame<br>Make : <b>SSK</b>   | EDML 0,64,Rev-B,<br>Item 05.                           | <b>09</b>          |
| 17.   | Provision of switch socket combined 5PIN<br>(06A, 250V AC) along with 1A glass fuse<br>fitted powder coated steel plate & cover<br>frame Make : <b>SSK</b>  | EDML 0,64,Rev-B,<br>Item -16.                          | <b>09</b>          |
| 18.   | PA system for LHB coaches<br>Make : <b>AHUJA</b>  | EDTS 173,Rev- a Am-<br>1,2&3                           | <b>01 set</b>      |
| 19.   | 70AH/110V,54 Cells,02V each ,maintenance<br>free pure lead acid tin monoblock ,battery<br>set with 09 modules 12V each. , factory pre<br>charged.<br>Make : <b>AMARA RAJA</b> Lug date : <b>08/18</b> | EDTS 129,Rev nil                                       | <b>01 set</b>      |
| 20.   | Battery box for LHB coaches.<br>Make : <b>ANKUR ENGG.</b>   | 1 10113 0 76 700<br>005 w/o item 5,22<br>,23 ,26 & 27. | <b>01</b>          |
| 21.   | Battery fuse box +ve<br>Make : <b>INTEG</b>   | As per LW 71001,Alt-<br>F                              | <b>01</b>          |
| 22.   | Battery fuse box -ve<br>Make : <b>INTEG</b>   | As per LW 71002,Alt-<br>F                              | <b>01</b>          |

  
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DOC NO.: MCF/RBL/QEF/8001

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PAGE 5 OF 5

## ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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| 23.   | Emergency battery charger<br>Make : <b>BHASIN</b> Sr no: <b>10174659</b><br>Make : <b>M.B</b> Sr no: <b>2017-12-526</b> | EDTS 163,Rev 'c' corg.-2&3                                  | <b>02</b>          |
| 24.   | Provision of 5KVA TFR<br>Make : <b>AUTOMATIC</b><br>SL.no : <b>6/17/T509081/253</b>                                     | As Per EDTS-366,REV-NIL & CC-71510                          | <b>01</b>          |
| 25.   | Provision of capacitor Bank<br>Make : <b>S.INTERNATIONAL</b><br>SL.no : <b>290-01/18</b>                                | As per EDML-130 Rev-1,Corr-1                                | <b>01</b>          |
| 26.   | 60KVA transformer<br>Make : <b>VIMAL</b><br>SL.no : <b>VTC-3089-LHB-4695</b>  | As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3 | <b>01</b>          |
| 27.   | Inter Vehicle (ZS)coupler<br>Make: <b>PRIME ELECT.</b>  | As per RDSO PE SPEC-0177-2013 REV-0                         | <b>01 set</b>      |
| 28.   | Feeder junction boxes.<br>Make : <b>MAA LAXMI INDUSTRIES</b>  | EDTS-328 REV-C  | <b>01 set</b>      |
| 29.   | Wheel set earthing equipment.<br>Make : <b>MAA LAXMI INDUSTRIES</b>   | EDTS101,REV-C,AM-1  | <b>02 sets</b>     |
| 30.   | Wheel Slide Protection System (WSP)<br>Make : <b>ESCORT</b><br>Sr no : <b>180055-59399-0064</b>                         | M/s : <b>ESCORT</b>   | <b>01 set</b>      |
| 31.   | PANTRY EQUIPMENTS :<br>Hot Case & Bottle cooler cum deep freezer<br>Make : NIL  | As per EDTS -139, Rev- E ,Sec II.                           | <b>01</b>          |

|  |  |
|--|--|
| <br><b>SSE/EL/QC</b><br>वरिष्ठ अनुभाग अभियन्ता | <br><b>SEE(P)/MCF/RBL/<br/>DYCEE/P&amp;P/MCF/RBL</b> |
|--|--|

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आपरेटिंग/लागू/रायबरेली  
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