



# Modern Coach Factory Raebareilly

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1125

|             |             |   |   |           |      |   |   |   |   |   |   |           |                  |   |   |   |   |         |           |   |   |
|-------------|-------------|---|---|-----------|------|---|---|---|---|---|---|-----------|------------------|---|---|---|---|---------|-----------|---|---|
| RLY         | N           | F | R | Coach No. | 1    | 9 | 7 | 6 | 4 | 1 | / | C         | DATE OF DISPATCH | 2 | 7 | - | 1 | 1       | -         | 1 | 9 |
| DISPATCH TO | Sr.DME/DBRG |   |   |           | Type | L | W | S | C | N | 1 | Shell No. | 9                | 7 | 5 | 1 | 4 | FUR.NO. | LSCN-1342 |   |   |

1. **Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 23-10-2019
2. **Tare Weight of Coach** : 41.24 Tones
3. **Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. **Special feature:** -1.- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018

2.- RFID(Radio frequency identification) fitted for traceability of coach

**5. 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/-10 | 1) 1105 (NPPE) 2) 1105 (PPE) |

**6. TRACEABILITY OF SHELL ITEMS:**

| S NO | ITEM                  | MAKE/SUPPLIER     | SERIAL NO                |
|------|-----------------------|-------------------|--------------------------|
| 1.   | Under frame           | Front Part        | PP END M/S-SFPL          |
|      |                       | NPP END           | M/S-SFPL                 |
|      | Complete              | MCF/RBL           | 97514                    |
| 2.   | Lav. side wall        | M/S- ATHANACY RBL | LAV.1 - LAV.2 -          |
|      |                       | M/S- ATHANACY RBL | LAV.3 - LAV.4 -          |
| 3.   | Side wall             | LH SIDE           | MCF/RBL(CONTRACTOR V4U)  |
|      |                       | RH SIDE           | MCF/RBL(CONTRACTOR V4U)  |
| 4.   | End wall              | PP END            | M/s-DTL PUNE             |
|      |                       | NPP END           | M/s-DTL PUNE             |
| 5.   | Roof                  | M/s-ECBT          | 369                      |
| 6.   | Centre Buffer Coupler | M/S- ESCORTS      | PP END 2009 NPP END 2022 |

**7. 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 | 07 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                                      |

**8. PAINTING DETAILS:**

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE    | APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY) | AVERAGE GLOSS VALUE | DATE OF COMPLETION |
|------|-------------|---------------|---------|------------------------------------------------|---------------------|--------------------|
| 1.   | Paint       | P.U           | M/s -GS | Supply & apply                                 | 90/88               | 03.11.19           |
| 2.   | Insulation  |               |         | Satisfactory                                   |                     |                    |

SSC/QC/MCF/RBL  
गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (लालगंज)



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/2019-20/1125

|     |   |   |   |           |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | F | R | Coach No. | 1 | 9 | 7 | 6 | 4 | 1 | / | C | - | DATE OF DISPATCH | 2 | 7 | 1 | 1 | 2 | 0 | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|          |             |      |   |   |   |   |   |   |           |   |   |   |   |   |        |           |
|----------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|--------|-----------|
| DISPATCH | Sr.DME/DBRG | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 5 | 1 | 4 | FUR.NO | LSCN-1342 |
|----------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|--------|-----------|

## 9. DETAIL OF BOGIES:

| ITEMS         | NPP Side               |                        |                        |                        | PP Side                |                        |                        |                        |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No      | 192218                 |                        |                        |                        | 192217                 |                        |                        |                        |
| Bogie Type    | FIAT                   |                        |                        |                        | FIAT                   |                        |                        |                        |
| Frame no.     | VS-1465                |                        |                        |                        | VS-1456                |                        |                        |                        |
| Bolster no.   | AMIT-760               |                        |                        |                        | AMIT-759               |                        |                        |                        |
| Axle No       | 19 P- 2135 RWF         |                        | 19 S - 5184 RWF        |                        | 19 P - 1830 RWF        |                        | 19 S- 8007 RWF         |                        |
| Wheel Dia     | 917.534                | 917.59                 | 917.533                | 917.514                | 917.505                | 917.502                | 917.472                | 917.467                |
| Wheel Disc No | TZ 07-19<br>67195-9RP1 | TZ 08-19<br>71178-9QI4 | TZ 07-19<br>66834-9RR7 | TZ 08-19<br>72944-9SK7 | TZ 07-19<br>61874-9RP7 | TZ 07-19<br>64622-9RQ1 | TZ 07-19<br>68407-9RN2 | TZ 07-19<br>67210-9RP1 |
| R.B. Nos.     | 07-18-18099            | 07-18-21434            | 07-18-17615            | 08-18-20417            | 07-18-18056            | 07-18-18041            | 07-18-18152            | 09-18-21153            |
| CT R B Make   | TIMKEN                 |                        | TIMKEN                 |                        | TIMKEN                 |                        | TIMKEN                 |                        |

## 10. 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.                   | CMGBD09-19-F09-757-10 | CMFSK08-19-5100-027-338 | CMGBD09-19-F09-757-6 | CMFSK08-19-5100-027-343 | CMGBD09-19-F09-757-15 | CMFSK08-19-5100-027-388 | CMGBD09-19-F09-757-13 | CMFSK08-19-5100-027-321 |
| Compressed Ht. at Tested Load | 516                   | 469                     | 514                  | 472                     | 514                   | 472                     | 516                   | 472                     |
| 10Alignment deviation (mm)    | 17                    | 10                      | 19                   | 10                      | 8                     | 8                       | 27                    | 8                       |

## 11. TRACEABILITY OF BOGIE ITEMS :-

| S. NO | ITEM                       | MAKE/SUPPLIER | SERIAL NO.                                                                         |                                                                                    |
|-------|----------------------------|---------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|       |                            |               | NPP SIDE                                                                           | PP SIDE                                                                            |
| 1.    | Yaw Damper                 | KBI           | 16850,16849                                                                        | 16852,16553                                                                        |
| 2.    | Primary outer Spring       | CMFSK         | 10-18 1100-78 (264,75,266,91)                                                      | 10-18 1100-78 (72,105,127,283)                                                     |
| 3.    | Primary Inner Spring       | CMFSK         | 10-19 1101-101 (293,265,124,294)                                                   | 10-19 1101-101 (227,199,126,261)                                                   |
| 4.    | Primary Damper             | KONIC         | 03-19 (08476,07972,01779,03852)                                                    | 03-19 (01775,01767,01748,01729)                                                    |
| 5.    | Secondary Damper           | KONI          | 04-19 (00879,00844)                                                                | 04-19 (00393,00337)                                                                |
| 6.    | Lateral Damper             | IAI           | 05-19 251352                                                                       | 05-19 251149                                                                       |
| 7.    | Brake Cylinder             | KBI           | B(9539,8579,8573,9542)K-29                                                         | B(9543,8581,7755,8864)K-29                                                         |
| 8.    | Brake Caliper              | KBI           | B(6484,6598,6596,6482) -29                                                         | B(6481,6597,5849,5889) -29                                                         |
| 9.    | Brake Disc                 | KBI           | 24203755 0074-42/19,24203755 0073-42/19<br>24203750 0030-41/19,24203757 0056-42/19 | 24203757 0005-42/19,24203756 0051-42/19<br>24205750 0026-41/19,24203749 0075-41/19 |
| 10.   | Ball Joint Control Arm     | AR            |                                                                                    |                                                                                    |
| 11.   | Lateral Bump Stop          | ARYAN         |                                                                                    |                                                                                    |
| 12.   | Traction Centre make       | SARITA        |                                                                                    |                                                                                    |
| 13.   | Traction lever make        | TAJ           |                                                                                    |                                                                                    |
| 14.   | Ball joint traction lever  | ARYAN         |                                                                                    |                                                                                    |
| 15.   | Ball joint traction centre | ARYAN         |                                                                                    |                                                                                    |
| 16.   | Secondary Rubber Pad       | AR            |                                                                                    |                                                                                    |
| 17.   | Rubber Spring              | AR            |                                                                                    |                                                                                    |
| 18.   | Anti roll bar Make         | EMSON         |                                                                                    |                                                                                    |
| 19.   | Roll Link make             | SARITA/GMT    |                                                                                    |                                                                                    |
| 20.   | Fork make                  | RNG           |                                                                                    |                                                                                    |
| 21.   | Control Arm Upper          | SF            | 329,8,10,188                                                                       | 211,51,49,28                                                                       |
| 22.   | Control Arm Lower          | SF            | 108,92,88,52                                                                       | 108,97,88,67                                                                       |
| 23.   | Phonic Wheel               | KBI           | K-01-19                                                                            | K-01-19-                                                                           |

Signature of SSE/Bogie/QC



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DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1125

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|-------------|---|-------------|---|-----------|------|---|---|---|---|---|---|-----------|------------------|---|---|---|---|---------|---|-----------|---|
| RLY         | N | F           | R | Coach No. | 1    | 9 | 7 | 6 | 4 | 1 | / | C         | DATE OF DISPATCH | 2 | 7 | - | 1 | 1       | - | 1         | 9 |
| DISPATCH TO |   | Sr.DME/DBRG |   |           | Type | L | W | S | C | N | 1 | Shell No. | 9                | 7 | 5 | 1 | 4 | FUR.NO. |   | LSCN-1342 |   |

12. TRACEABILITY OF FURNISHING ITEMS:

**12. TRACEABILITY OF FURNISHING ITEMS:**

| S NO | ITEM                             | MAKE/SUPPLIER                             | SERIAL NO        |
|------|----------------------------------|-------------------------------------------|------------------|
| 1.   | Air Brake Module                 | M/S- KBI, FARIDABAD                       | 3852 38/19       |
| 2.   | Pull box                         | M/S- KBI, FARIDABAD                       |                  |
| 3.   | Distribution valve               | M/S- KBI, FARIDABAD                       | 2019 J 9045      |
| 4.   | FIBA                             | N/A                                       |                  |
| 5.   | Foot Step                        | M/s- SUPER SPAR K PVT. LTD. FARIDABAD     |                  |
| 6.   | Decoupling arrangement           | M/S-ELASTOMER LINING WORKS, MUMBAI        |                  |
| 7.   | Floor board                      | M/s-SHREE RAM PNL                         |                  |
| 8.   | PVC                              | M/S -RESPONSIVE IND                       |                  |
| 9.   | Lavatory Inlay                   | M/s- SEEMA IND. BHOPAL                    |                  |
| 10.  | UIC Vestibule (PPE)              | M/S-SUNCREST IND.KOLKATA                  |                  |
| 11.  | UIC Vestibule (NPPE)             | M/S-SUNCREST IND.KOLKATA                  |                  |
| 12.  | Gangway bridge mounting (PPE)    | M/S- MAHAVEER MATEL WORKS, KAPURTHALA     |                  |
| 13.  | Gangway bridge mounting (NPPE)   | M/S- MAHAVEER MATEL WORKS, KAPURTHALA     |                  |
| 14.  | Body Side Window                 | M/s-FP INDS KOLKATA                       |                  |
| 15.  | Emergency Window                 | M/s-AGF INDS KOLKATA                      |                  |
| 16.  | Hopper Window                    | M/S- SHATABDHI VADODARA + VEDANSH RBL     |                  |
| 17.  | Side panel                       | M/s-WONDER LAMINATE KOLKATA               |                  |
| 18.  | Roof ceiling                     | M/s-ACME INDS NEW DELHI                   |                  |
| 19.  | Door way ceiling                 | M/s-JAAM TOOLS RBL                        |                  |
| 20.  | Body Side Door                   | M/s- JVR INDS, LUDHIYANA                  |                  |
| 21.  | Vestibule Door(PPE)              | M/S- JBM INDUSTRIES, FARIDABAD            |                  |
| 22.  | Vestibule Door(NPPE)             | M/S- JBM INDUSTRIES, FARIDABAD            |                  |
| 23.  | Bio Tank (Pressurized flashing ) | M/S- JSL LIFE STYLE LTD.& IMI             |                  |
| 24.  | Auxiliary Water Tank             | M/S- AMIT ENG. MOHALI                     |                  |
| 25.  | Under Slung Water Tank( 2X685L)  | M/S- SHIVALIK FAST. MOHALI                |                  |
| 26.  | Under Slung Water Tank (1X685L)  | M/S- AMIT ENG. MOHALI                     |                  |
| 27.  | Flexible Faucet                  | M/s-KAPCO VALES JALANDHAR                 |                  |
| 28.  | Lotah Filler Tap                 | M/s-KAPCO VALES JALANDHAR                 |                  |
| 29.  | Controlled Discharge Tap         | M/s- EAUSET PVT LTD GURGAON               |                  |
| 30.  | Lavatory Doors                   | M/S- JR INDS JALNDHAR                     |                  |
| 31.  | Seat & Berth                     | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 32.  | RFID                             | M/s-ID TECH SOLUTION GURGAON              | Sr.103753,103754 |

*(Signature)*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रायबरेली (लालगंज)



# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

### ROLLING STOCK CERTIFICATE

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|-------------|-------------|---|---|-----------|---|---|---|---|---|---|-----------|---|------------------|---|---|---|---------|-----------|---|---|---|
| RLY         | N           | F | R | Coach No. | 1 | 9 | 7 | 6 | 4 | 1 | /         | C | DATE OF DISPATCH | 2 | 7 | - | 1       | 1         | - | 1 | 9 |
| DISPATCH TO | Sr.DME/DBRG |   |   | Type      | L | W | S | C | N | 1 | Shell No. | 9 | 7                | 5 | 1 | 4 | FUR.NO. | LSCN-1342 |   |   |   |

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

| S NO | ITEM PARTICULARS | PURPOSE | REPORT<br>Frequency | REFERENCE &<br>PERIOD OF TRIAL |
|------|------------------|---------|---------------------|--------------------------------|
|      |                  |         |                     |                                |

### 16WARRANTY:

| S NO | COMPONENTS                                                                                                                                          | WARRANTY                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1    | Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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:

- 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 qualityrcfbl@gmail.com
- 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<br>(initial gloss >85<br>unit at 60°) | Colour Retention rating on 0-10 scale<br>(initial rating of painted panels/coach or<br>ISC/RAL shade card shall be taken as 10) | Adherence of paints (with each other and<br>with substrate )Cross-cut tape adhesion<br>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.

|                                                                     |                                                                                                                                                                       |                                                                                                                                                                          |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>SSE/QC/MCF/RBL<br>गुणवत्ता विभाग<br>३०डि०का०, रायबरेली (लालगंज) | <br>SME/QC/MCF/RBL<br>वरिष्ठ यांत्रिक अभियंता/गुणवत्ता<br>Senior Mechanical Engineer/Quality<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory Raebareli | <br>Dy.CQM/MCF/RBL<br>जोगिन्दर सिंह<br>उप मुख्य गुणवत्ता प्रबन्धक<br>Dy. Chief Quality Manager<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory, Raebareli |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

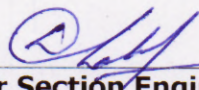
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

| TYPE COACH | LWSCN                                 | SHELL/COACH NO   | 197641/C |
|------------|---------------------------------------|------------------|----------|
| RAILWAY    | NFR                                   | 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               |          |

  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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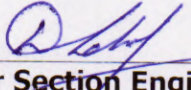
DATE:18.01.2017

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

|     |                                                                                                                                                                                                          |                                                            |           |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------|
| 01. | Switch board cabinet<br>Make : <b>HIND RECTIFIERS</b><br>On Board Sr no : <b>H.355.19.H.367</b><br>HT Panel Sr no : <b>H.355.19.G.330</b>                                                                | EDTS 333, Rev`01`Am-1                                      | <b>01</b> |
| 02. | Pump equipment with PLC controller & pump box<br>Make : <b>DR AUTO</b><br>Sr no PA: <b>2019/11/0027</b><br>Sr no.1 : <b>5872</b><br>Sr no.2 : <b>5869</b><br>Srno.CPA: sr no <b>-2019/11/030-DR AUTO</b> | As per spec EDTS 186,Rev-a, Am- 2                          | <b>01</b> |
| 03. | Emergency light system for EOG type coaches (AEL),<br>Make : <b>DR AUTO</b>                                                                                                                              | EDTS 151,Rev -c Am-1 & 2                                   | <b>04</b> |
| 04. | Passenger Alarm Cum Indication Light (PACIL)<br>Make: <b>RT VISION</b>                                                                                                                                   | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I            | <b>02</b> |
| 05. | Fitment of Switch Plate Assly(Cabin Side) Make : <b>RECORD/SALZER</b>                                                                                                                                    | EDML 086,Rev-03, ITEM-01                                   | <b>20</b> |
| 06. | Fitment of Switch Plate Assly Corridor Side),Make : <b>SALZER</b>                                                                                                                                        | EDML 086, Rev 03, ITEM-02                                  | <b>20</b> |
| 07. | Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features.<br>Make: <b>ORIENT</b>                                                                                                             | IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I. | <b>30</b> |
| 08. | Cabin,Corridor,doorway and Gangway Lights.<br>Make: <b>DR AUTO</b>                                                                                                                                       | As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1                | <b>26</b> |
| 09. | Lavatory Light<br>Make: <b>DR AUTO</b>                                                                                                                                                                   | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &          | <b>04</b> |
| 10. | Night Light Fitting (LED BASED)<br>Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches<br>Make : <b>INTRA</b>                                                                  | CC76289 & CC76443                                          | <b>09</b> |

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



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

|     |                                                                                                                                                           |                                                    |                |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------|
| 11. | Battery fuse box +ve<br>Make : <b>SSK</b>                                                                                                                 | LW 71001,Alt-F                                     | <b>01</b>      |
| 12. | Battery fuse box -ve<br>Make : <b>ISGPL</b>                                                                                                               | LW 71002,Alt-F                                     | <b>01</b>      |
| 13. | Regulated battery charger<br>Make : <b>WAVES</b><br>Sr no : <b>W4K5G 19247</b>                                                                            | As per RDSO/pe/spec/ac/0129,<br>Rev.-1 (2009)      | <b>01</b>      |
| 14. | 9KVA transformer<br>Make : <b>VIMAL</b><br>Sr no : <b>NIL</b>                                                                                             | As per RDSO/PE/SPEC/TL<br>0158, 2010, Rev`0',Ty I. | <b>01</b>      |
| 15. | ZS coupling 400A/750V/03Ph/50hz.<br>Make : <b>PRIME ELECT.</b>                                                                                            | As per spec No EDTS 105,Rev`e'<br>Am-3,<br>TYPE-2  | <b>01 set</b>  |
| 16. | Feeder junction boxes.<br>Make : <b>AUTO</b>                                                                                                              | EDTS-328 REV-C                                     | <b>01 set</b>  |
| 17. | Wheel set earthing equipment.<br>Make : <b>DARSHAN ENTERPRISES</b>                                                                                        | EDTS101,REV-C,AM-1                                 | <b>02 sets</b> |
| 18. | Wheel Slide Protection System (WSP)<br>Make : <b>KNORR</b><br>Sr no : <b>0119212039</b>                                                                   | M/s : <b>KNORR</b>                                 | <b>01 set</b>  |
| 19. | 110V,120AH,VRLA SMF BATTERY SET<br>WITH 19 MONOBLOCK (6V EACH)<br>PRECHARGED,WIH MODIFIED TRAY<br>TOSKED-644<br>Make : <b>HBL</b> Lug date : <b>06/19</b> | RDSO/pe/spec/ac-0009 rev-1-<br>2008 amdt-1         | <b>01 set</b>  |
| 20. | Battery box for LHB coaches.<br>Make : <b>TECHNO</b>                                                                                                      | CC 91205                                           | <b>01</b>      |

**SSE/EL/QC**

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

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S.S.E./Elect-QC/M.C.F./LLJ/RBL

**AWM(ELECT.)/MCF/RBL**

**SEE(P)/MCF/RBL**

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