



**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**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1239

|      |        |           |          |                  |             |
|------|--------|-----------|----------|------------------|-------------|
| RLY  | NFR    | COACH NO  | 197756/C | DATE OF DISPATCH | 14-12-2019  |
| Type | LWSCN1 | Shell No. | 97558    | DISPATCH TO      | Sr.DME/DBRG |
|      |        |           |          | FUR.NO.          | LSCN-1377   |

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-21.11.2019
2. Tare Weight of Coach : 41.24 Tonnes
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

**4. Special feature:**

A Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

**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 | NPP / PP 1103, 1104 |

**6. TRACEABILITY OF SHELL ITEMS:**

| S NO | ITEM                    | MAKE/SUPPLIER             | SERIAL NO                  |
|------|-------------------------|---------------------------|----------------------------|
| 1    | Under frame             | Front PP END M/S-NE       | -                          |
|      | Part NPP END M/S-NE     | -                         | -                          |
|      | Complete M/S-V4U TECHIE | 97558                     |                            |
| 2    | Lav. side wall          | M/S- ATHANACY RBL         | LAV.1                      |
|      |                         | M/S- ATHANACY RBL         | LAV.2                      |
|      |                         |                           | LAV.3                      |
| 3    | Side wall               | LH SIDE MCF/RBL(CONT V4U) | 344/01                     |
|      |                         | RH SIDE MCF/RBL(CONT V4U) | 344/02                     |
| 4    | End wall                | PP END M/S-P.D STEEL PKL  |                            |
|      |                         | NPP END M/S-P.D STEEL PKL |                            |
| 5    | Roof                    | MCF                       | 158                        |
| 6    | Centre Buffer Coupler   | M/s- SANROK               | PP ENI 14788 NPP END 14759 |

**7. AIR BRAKE 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> . | 6 - 10 sec.                     | 8Sec                   |
|      |                        | Max. pressure in BC                                        | 3.0 ± 0.15 kg/cm <sup>2</sup> . | 3.0 kg/cm <sup>2</sup> |
|      |                        | All Brake are applied                                      | OK                              | 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           | NEROLAC | M/S-K.NEROLAC                                    | 89/88               | 22/11/2019         |
| 2    | Insulation  |               |         | Satisfactory                                     |                     |                    |

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (लालगज)





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/2019-20/1239

|     |   |   |   |           |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | F | R | Coach No. | 1 | 9 | 7 | 7 | 5 | 6 | / | C | - | DATE OF DISPATCH | 1 | 4 | 1 | 2 | 2 | 0 | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|          |             |      |   |   |   |   |   |   |           |   |   |   |   |   |        |           |
|----------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|--------|-----------|
| DISPATCH | Sr.DME/DBRG | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 5 | 5 | 8 | FUR.NO | LSCN-1377 |
|----------|-------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|--------|-----------|

## 9. DETAIL OF BOGIES:

| ITEMS         | NPP Side               |                        |                       |                        | PP Side                |                        |                        |                        |
|---------------|------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No      | 191655                 |                        |                       |                        | 191656                 |                        |                        |                        |
| Bogie Type    | FIAT                   |                        |                       |                        | FIAT                   |                        |                        |                        |
| Frame no.     | RBL-2088               |                        |                       |                        | RBL-2080               |                        |                        |                        |
| Bolster no.   | RBL-2979               |                        |                       |                        | RBL-2812               |                        |                        |                        |
| Axle No       | 19 P - 1587 RWF        | 19 N - 5016 RWF        | 19 P - 1714 RWF       | 19 L - 5622 RWF        |                        |                        |                        |                        |
| Wheel Dia     | 917.452                | 917.439                | 917.48                | 917.457                | 917.452                | 917.577                | 917.442                | 917.497                |
| Wheel Disc No | TZ 08-19<br>75652-9SK0 | TZ 07-19<br>64881-9RL5 | TZ 08-19<br>7099-9SJ7 | TZ 08-19<br>65837-9SJ7 | TZ 08-19<br>71519-9RR5 | TZ 07-19<br>64877-9RM4 | TZ 08-19<br>22188-9RS0 | TZ 08-19<br>73796-9SL1 |
| R.B. Nos.     | 08-19-29966            | 08-19-29197            | 08-19-28968           | 08-19-29613            | 08-19-29054            | 08-19-29308            | 08-19-30148            | 08-19-28889            |
| 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.                   | CMFSK05-19-5101-031-37 | CMFSK05-19-5100-027-444 | CMFSK05-19-5101-031-22 | CMFSK05-19-5100-027-452 | CMFSK05-19-5101-031-72 | CMFSK05-19-5100-027-579 | CMFSK05-19-5101-031-8 | CMFSK05-19-5100-027-447 |
| Compressed Ht. at Tested Load | 515                    | 472                     | 516                    | 472                     | 516                    | 472                     | 516                   | 472                     |
| 10Alignment deviation (mm)    | 6                      | 13                      | 8                      | 13                      | 11                     | 12                      | 10                    | 12                      |

## 11. TRACEABILITY OF BOGIE ITEMS :-

| S. NO | ITEM                       | MAKE/SUPPLIER | SERIAL NO.                           |                                      |
|-------|----------------------------|---------------|--------------------------------------|--------------------------------------|
|       |                            |               | NPP SIDE                             | PP SIDE                              |
| 1.    | Yaw Damper                 | KBI           | 15991,15994                          | 15986,15972                          |
| 2.    | Primary outer Spring       | CMFSK         | 10-19 1100-114 (2058,2038,1872,1862) | 10-19 1100-114 (2085,2023,1866,1863) |
| 3.    | Primary Inner Spring       | CMFSK         | 10-19 1101-101 (1377,843,817,827)    | 10-19 1101-101 (1365,1956,1332,1315) |
| 4.    | Primary Damper             | KONIC         | 03-19 (03986,06296,06204,01976)      | 03-19 (02232,04493,02005,05419)      |
| 5.    | Secondary Damper           | IAI           | 09-19 (272920,272856)                | 09-19 (272949,282859)                |
| 6.    | Lateral Damper             | IAI           | 05-19 250829                         | 05-19 251100                         |
| 7.    | Brake Cylinder             | ESCORT        | (47744,47892,47891,47741)            | (47976,47898,47897,47977)            |
| 8.    | Brake Caliper              | ESCORT        | (27346,27475,27474,27384)            | (ESCORT, 27481,27480,27539)          |
| 9.    | Brake Disc                 | FAV           | 10-19 (3855,3856,3852,3851)          | 10-19 (3124,3157,3158,2443)          |
| 10.   | Ball Joint Control Arm     | GMT           |                                      |                                      |
| 11.   | Lateral Bump Stop          | GMT           |                                      |                                      |
| 12.   | Traction Centre make       | SF(SARITA)    |                                      |                                      |
| 13.   | Traction lever make        | TAJ           |                                      |                                      |
| 14.   | Ball joint traction lever  | ARYAN         |                                      |                                      |
| 15.   | Ball joint traction centre | GMT           |                                      |                                      |
| 16.   | Secondary Rubber Pad       | AFW           |                                      |                                      |
| 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            | 322,145,342,2                        | 18,82,2,2                            |
| 22.   | Control Arm Lower          | SF            | 400,13,295,51                        | 14,17,84,80                          |
| 23.   | Phonic Wheel               | ESCORT        | ESCORT                               | ESCORT                               |

Signature of SSE/Bogie/QC

वरि०अनु० अभियंता  
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: 17.04.2018

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1239

|      |        |           |          |                  |             |
|------|--------|-----------|----------|------------------|-------------|
| RLY  | NFR    | COACH NO  | 197756/C | DATE OF DISPATCH | 14/12/2019  |
| Type | LWSCN1 | Shell No. | 97558    | DISPATCH TO      | Sr.DME/DBRG |
|      |        |           |          | FUR.NO.          | LSCN-1377   |

## 12. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM                             | MAKE/SUPPLIER                             | SERIAL NO(N,PP/PP) |
|------|----------------------------------|-------------------------------------------|--------------------|
| 1    | Air Brake Module                 | M/S- ESCORTS                              | 2018120173         |
| 2    | Distribution valve               | M/S- ESCORTS                              | 1812A173           |
| 3    | Pull box                         | M/S -FAIVELY                              |                    |
| 4    | FIBA                             | NA                                        |                    |
| 5    | Foot Step                        | M/S- SUPER SPARK PVT.LTD.FARIDABAD        |                    |
| 6    | Decoupling arrangement           | M/S-ELASTOMER LINING WORKS, MUMBAI        |                    |
| 7    | Floor board                      | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 8    | PVC                              | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 9    | Lavatory inlay                   | M/S-SEEMA INDS 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 METAL WORKS, KXH            |                    |
| 13   | Gangway bridge mounting (NPPE)   | M/s- MAHAVEER METAL WORKS, KXH            |                    |
| 14   | Body Side Window                 | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 15   | Emergency Window                 | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 16   | Lavatory/hopper Window           | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 17   | Side panel                       | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 18   | Roof Ceiling                     | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 19   | Door way Ceiling                 | M/s- A.B.COMPOSTE KOLKATA                 |                    |
| 20   | Body Side Doors                  | M/S- JBM INDUSTRIES, FARIDABAD            |                    |
| 21   | Vestibule Door(PPE)              | M/S- JBM INDUSTRIES, FARIDABAD            |                    |
| 22   | Vestibule Door(NPPE)             | M/S- JBM INDUSTRIES, FARIDABAD            |                    |
| 23   | Bio Tank                         | M/S- JSL LIFE STYLE LTD GURUGRAM          |                    |
| 24   | Auxiliary Water Tank             | M/S-AMIT ENG. MOHALI                      |                    |
| 25   | Under Slung Water Tank ( 2X685L) | M/S-AMIT ENG. BADDI                       |                    |
| 26   | Under Slung Water Tank (1x450 L) | M/S-SHIVALIK FAST. MOHALI                 |                    |
| 27   | Health 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- A.B.COMPOSTE KOLKATA                 |                    |
| 31   | Seat & Berth                     | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                    |
| 32   | RFID                             | NA                                        |                    |

*Relma*  
SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (लालगंज)



MCF/RBL



|                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                                                                                                    |                                                                                                                              |                                                                                                                            |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                                                                                                                                                                                                      |                                                                                                                                                             | <b>Modern Coach Factory Raebareli</b><br>आधुनिक रेल डिब्बा कारखाना, रायबरेली                                       |                                                                                                                              | DOC NO.: MCF/RBL/QMF 8002<br>REV NO: 01<br>DATE: 17.04.2018                                                                |             |
| ROLLING STOCK CERTIFICATE                                                                                                                                                                                                                                            |                                                                                                                                                             |                                                                                                                    |                                                                                                                              |                                                                                                                            |             |
| Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1239                                                                                                                                                                                                           |                                                                                                                                                             |                                                                                                                    |                                                                                                                              |                                                                                                                            |             |
| RLV                                                                                                                                                                                                                                                                  | NFR                                                                                                                                                         | COACH NO                                                                                                           | 197756/C                                                                                                                     | DATE OF DISPATCH 14/12/2019                                                                                                |             |
| Type                                                                                                                                                                                                                                                                 | LWSCN1                                                                                                                                                      | Shell No.                                                                                                          | 97558                                                                                                                        | DISPATCH TO                                                                                                                | Sr.DME/DBRG |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                                                                                                    |                                                                                                                              | FUR.NO.                                                                                                                    | LSCN-1377   |
| 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                                                                                                                       | REFERENCE &                                                                                                                |             |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                                                                                                    | Frequency                                                                                                                    | PERIOD OF TRIAL                                                                                                            |             |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                                                                                                    |                                                                                                                              |                                                                                                                            |             |
| 16. 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 30months 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 qualityrcfrbl@gmail.com                                                                                                                                                                                               |                                                                                                                                                             |                                                                                                                    |                                                                                                                              |                                                                                                                            |             |
| 6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from 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 unit at 60°)                                                                 | Colour Retention rating on 0-10 scale<br>(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 )<br>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                                                                                                                                                                                                                                                       |                                                                                                                                                             | SME/AME/QC/MCF/RBL                                                                                                 |                                                                                                                              | Dy.CQM/MCF/RBL                                                                                                             |             |

वरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (लाजगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली  
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

PAGE 1 OF 3

**FOR ELECTRICAL ITEMS**

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

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

| ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC SCN COACHES |                                       |                |  |                |        |          |
|----------------------------------------------------------------|---------------------------------------|----------------|--|----------------|--------|----------|
| TYPE COACH                                                     |                                       | LWSCN          |  | SHELL/COACH NO |        | 197756/C |
| RAILWAY                                                        | NFR                                   | ELECT.FIT DATE |  | 12-12-2019     | FUR.NO | SCN-1377 |
| 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

REV NO: 00

DATE:18.01.2017

PAGE 2 OF 3

**FOR ELECTRICAL ITEMS**

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

|     |                                                                                                                                                                                                  |                                                            |           |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------|
| 01. | Switch board cabinet<br>Make : <b>AMIT ENGG.</b><br>On Board Sr no : <b>AE/USBC-1538</b><br>HT Panel Sr no : <b>AE/USBC-1540</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>2019/08/0145</b><br>Sr no.1 : <b>3645</b><br>Sr no.2 : <b>3631</b><br>Srno.CPA: sr no <b>-NIL-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>KAVERI</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>RECORD/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>LIGHT ENGG.</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>ENSAVE</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 LHBCN(80-BERTHER)Coaches<br>Make : <b>INTRA</b>                                                           | CC76289 & CC76443                                          | <b>09</b> |

*(Signature)*

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



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DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 3 OF 3

**FOR ELECTRICAL ITEMS**

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

|     |                                                                                                                                                            |                                                    |                |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------|
| 11. | Battery fuse box +ve<br>Make : <b>ISGPL</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>W4K5J 19818</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>VTC-3089-LHB-2626</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>MAA LAXMI INDUSTRIES</b>                                                                                               | EDTS-328 REV-C                                     | <b>01 set</b>  |
| 17. | Wheel set earthling 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>ESCORT</b><br>Sr no : <b>180641-60147-0091</b>                                                            | M/s : <b>ESCORT</b>                                | <b>01 set</b>  |
| 19. | 110V,120AH,VRLA SMF BATTERY SET<br>WITH 19 MONOBLOCK (6V EACH)<br>PRECHARGED,WIHI MODIFIED TRAY<br>TOSKED-644<br>Make : <b>HBL</b> Lug date : <b>11/19</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>      |

|                               |                            |
|-------------------------------|----------------------------|
|                               |                            |
| <b>SSE/EL/QC</b>              | <b>AWM(ELECT.)/MCF/RBL</b> |
| <b>वरिष्ठ अनुभाग अभियन्ता</b> | <b>SEE(P)/MCF/RBL</b>      |

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