



# 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/2019-20/341

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | F | R | Coach No. | 1 | 9 | 4 | 6 | 7 | 8 | / | C | DATE OF DISPATCH | 2 | 2 | - | 0 | 6 | - | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |            |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | Sr.DME/GHY | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 1 | 9 | 5 | FUR.NO. | LSCN-1072 |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

1. **Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 03-06-20192. **Tare Weight of Coach** : 41.24 Tones3. **Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL4. **Special feature:** - 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**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) 1098 (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-KANSAL ENG.         |
|      |                       | NPP END                                  | M/s-KANSAL ENG.                |
|      | Complete              | M/s-KANSAL ENG.                          | 23                             |
| 2.   | Lav. side wall        | M/S- MIDAS GUJRAT                        | LAV.1 - LAV.2 -                |
|      |                       | M/S- MIDAS GUJRAT                        | LAV.3 - LAV.4 -                |
| 3.   | Side wall             | LH SIDE                                  | MCF/RBL(CONTRACTOR V4U) 11/01  |
|      |                       | RH SIDE                                  | MCF/RBL(CONTRACTOR V4U) 11/02  |
| 4.   | End wall              | PP END                                   | M/S- P.D. STEEL, PANCHKULA --- |
|      |                       | NPP END                                  | M/S- P.D. STEEL, PANCHKULA --- |
| 5.   | Roof                  | MCF/RBL/CONTRACTOR                       | 05                             |
| 6.   | Centre Buffer Coupler | M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD. | PP END 9783 NPP END 9811       |

**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 -VIBGYOR | Supply & apply                                 | 90/90               | 13.06.19           |
| 2.   | Insulation  |               |              | Satisfactory                                   |                     |                    |

वरिष्ठ अभियंता  
SSE/QC/MCF/RBL  
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/2019-20/341

|     |   |   |   |           |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | F | R | Coach No. | 1 | 9 | 4 | 6 | 7 | 8 | / | C | - | DATE OF DISPATCH | 2 | 2 | 0 | 6 | 2 | 0 | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|          |            |      |   |   |   |   |   |   |           |   |   |   |   |   |        |           |
|----------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|--------|-----------|
| DISPATCH | Sr.DME/GHY | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 1 | 9 | 5 | FUR.NO | LSCN-1072 |
|----------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|--------|-----------|

## 9. DETAIL OF BOGIES:

| ITEMS         | NPP Side               |                        |                        |                        | PP Side                |                        |                        |                        |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No      | 190816                 |                        |                        |                        | 190815                 |                        |                        |                        |
| Bogie Type    | FIAT                   |                        |                        |                        | FIAT                   |                        |                        |                        |
| Frame no.     | SCI-2488               |                        |                        |                        | MCF/RBL-1016           |                        |                        |                        |
| Bolster no.   | AMIT-117               |                        |                        |                        | AMIT-102               |                        |                        |                        |
| Axle No       | 19 N - 4587 RWF        |                        | 19 N - 3553 RWF        |                        | 19 L - 8529 RWF        |                        | 19 N - 4842 RWF        |                        |
| Wheel Dia     | 917.593                | 917.653                | 917.673                | 917.787                | 917.705                | 917.69                 | 917.581                | 917.666                |
| Wheel Disc No | TZ 07-17<br>25597-7QJ8 | TZ 12-18<br>20060-8WS1 | TZ 07-18<br>36702-8RP4 | TZ 08-18<br>44777-8PN7 | TZ 04-19<br>34477-9OF1 | TZ 07-18<br>39024-8PT0 | TZ 02-19<br>27747-8MH7 | TZ 02-19<br>22746-9MH7 |
| R.B. Nos.     | 02-19 04328            | 02-19 02377            | 03-19 36116            | 02-19 04192            | 03-19 36078            | 02-19 02309            | 02-19 36411            | 02-19 05175            |
| 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                                      |
| Make & Nos. | RESISTO FLEX DYNAMIC<br>PVT.LTD<br>Sr.19-12 4841 | RESISTO FLEX DYNAMIC<br>PVT.LTD<br>Sr.18-12 4833 | RESISTO FLEX DYNAMIC<br>PVT.LTD<br>Sr.18-11 4800 | RESISTO FLEX DYNAMIC<br>PVT.LTD<br>Sr.19-01 5471 |

## 11. TRACEABILITY OF BOGIE ITEMS :-

| S. NO | ITEM                       | MAKE/<br>SUPPLIER    | SERIAL NO.                              |                                                 |
|-------|----------------------------|----------------------|-----------------------------------------|-------------------------------------------------|
|       |                            |                      | NPP SIDE                                | PP SIDE                                         |
| 1.    | Yaw Damper                 | IAI                  | 238747,239213                           | 239503,238749                                   |
| 2.    | Primary outer Spring       | CMFSK                | 04-19 1036-565(310,223,113,67)          | 04-19 1036-565(487,500,378,490)                 |
| 3.    | Primary Inner Spring       | CMRSK                | 11-18 06A(2367,1936,3158,2214)          | 11-18 06A(3830,2438,2503,2552)                  |
| 4.    | Primary Damper             | KNORR                | 12-18 (47388,47409,47365,47489)         | 12-18 (47520,47378,47410,47403)                 |
| 5.    | Secondary Damper           | IAI                  | 06-19 (256966,256933)                   | 06-19 (256962,256638)                           |
| 6.    | Lateral Damper             | GABRIEL              | 01-19 1583                              | 01-19 1538                                      |
| 7.    | Brake Cylinder             | KBI                  | B(2171,1219,1495,2097)K-29              | B(2185,1547,1130,2173)K-29                      |
| 8.    | Brake Caliper              | KBI                  | B (0234,0232,0222,0140)--29             | B (0311,0613,0205,0109)--29                     |
| 9.    | Brake Disc                 | FAV                  | 03-19 (2269,2270,3617,3618)133561-300-1 | 09-18 (1889,1133) 03-19 (1986,1985)133561-300-1 |
| 10.   | Ball Joint Control Arm     | AR/ GMT              |                                         |                                                 |
| 11.   | Lateral Bump Stop          | GMT                  |                                         |                                                 |
| 12.   | Traction Centre make       | SARITA               |                                         |                                                 |
| 13.   | Traction lever make        | JI                   |                                         |                                                 |
| 14.   | Ball joint traction lever  | AR                   |                                         |                                                 |
| 15.   | Ball joint traction centre | GMT                  |                                         |                                                 |
| 16.   | Leveling Valve             | KNORR                | 12-19 B 1341,12-19 B 1338               | 13-19 B 1485,13-19 B 1461                       |
| 17.   | Check Valve                | KNORR                | 03-19 17300                             | 03-19 17316                                     |
| 18.   | Anti roll bar Make         | EMSON                |                                         |                                                 |
| 19.   | Roll Link make             | SARITA/AR,SARITA/GMT |                                         |                                                 |
| 20.   | Fork make                  | EMSON                |                                         |                                                 |
| 21.   | Control Arm Upper          | RVE                  | 060219-4,RVE,091218-2,RVE               | 111218-1,121218-2,121218-2,121218-2             |
| 22.   | Control Arm Lower          | RVE                  | RVE,171218-3,171218-3,RVE               | 171218-1,171218-1,171218-1,171218-1             |
| 23.   | Phonic Wheel               | KNORR                | K-03-19                                 | K-03-19                                         |

Signature of SSE/Bogie/QC



# 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/2019-20/341

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | F | R | Coach No. | 1 | 9 | 4 | 6 | 7 | 8 | / | C | DATE OF DISPATCH | 2 | 2 | - | 0 | 6 | - | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |            |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | Sr.DME/GHY | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 1 | 9 | 5 | FUR.NO. | LSCN-1072 |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

**12. TRACEABILITY OF FURNISHING ITEMS:**

| S NO | ITEM                                | MAKE/SUPPLIER                            | SERIAL NO                 |
|------|-------------------------------------|------------------------------------------|---------------------------|
| 1.   | Air Brake Module                    | M/S- KBI, FARIDABAD                      | 2642 16/19                |
| 2.   | Pull box                            | M/S- KBI, FARIDABAD                      |                           |
| 3.   | Distribution valve                  | M/S- KBI, FARIDABAD                      | 2019 D 7505               |
| 4.   | Fiba                                | M/S- KBI, FARIDABAD                      | PP-5377/29<br>NPP-5545/29 |
| 5.   | Foot Step                           | M/s- SUPER SPARK PVT. LTD. FARIDABAD     |                           |
| 6.   | Decoupling arrangement              | M/S-ELASTOMER INDS, MUMBAI               |                           |
| 7.   | Floor board                         | M/s-SHREE RAM PNL GOVINDGARH P.B         |                           |
| 8.   | PVC                                 | M/S- RESPONSIVE INDS.DELHI               |                           |
| 9.   | Lavatory Inlay                      | M/s- SEEMA INDS. BHOPAL                  |                           |
| 10.  | UIC Vestibule (PPE)                 | M/S-SUNCREST IND.KOLKATA                 |                           |
| 11.  | UIC Vestibule (NPPE)                | M/S-KIRAN RUBBAR PRODUCT PUNE            |                           |
| 12.  | Gangway bridge mounting (PPE)       | M/S- HARE KRISHNA COMPONENTS KXH         |                           |
| 13.  | Gangway bridge mounting (NPPE)      | M/S- HARE KRISHNA COMPONENTS KXH         |                           |
| 14.  | Body Side Window                    | M/S- EXCEL IR. KOLKATA                   |                           |
| 15.  | Emergency Window                    | M/S- AGF KOLKATA                         |                           |
| 16.  | Hopper Window                       | M/S- VEDANSH ENTERPRISES, RBL            |                           |
| 17.  | Side panel                          | M/S-ACME INDS DELHI                      |                           |
| 18.  | Roof ceiling                        | M/S- EXCEL IR. KOLKATA                   |                           |
| 19.  | Door way ceiling                    | M/s- RAJA IND. KHANNA                    |                           |
| 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 Tanks with pressurized flushing | M/s- FLASH FORGE (P)LTD. VIZAG, M/s- IMI |                           |
| 24.  | Auxiliary Water Tank                | M/S- AMIT ENG. MOHALI                    |                           |
| 25.  | Under Slung Water Tank( 2X685L)     | M/S- AMIT ENG. MOHALI                    |                           |
| 26.  | Under Slung Water Tank (1X685L)     | M/S- SHIVALIK FASTNERS PVT.LTD. MOHALI   |                           |
| 27.  | Controlled Discharge Tap            | M/s- AGMECO PVT. LTD. UK                 |                           |
| 28.  | Health Faucet                       | M/s- KAPCO VALVES, JALANDHAR             |                           |
| 29.  | Lotah Filler Tap                    | M/s- KAPCO VALVES, JALANDHAR             |                           |
| 30.  | Lavatory Doors                      | M/S -KALSI. LUDHIYANA                    |                           |
| 31.  | Seat & Berth                        | M/S - OVPL MUMBAI                        |                           |
| 32.  | Snack Table                         | N/A                                      |                           |

वरिष्ठ अभियंता  
SSE/QC/MCF/RBL  
रेडिक्ला, 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/2019-20/341

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | N | F | R | Coach No. | 1 | 9 | 4 | 6 | 7 | 8 | / | C | DATE OF DISPATCH | 2 | 2 | - | 0 | 6 | - | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |            |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | Sr.DME/GHY | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 1 | 9 | 5 | FUR.NO. | LSCN-1072 |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

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 & PERIOD OF TRIAL |
|------|------------------|---------|-----------|-----------------------------|
|      |                  |         | Frequency |                             |
|      |                  |         |           |                             |

**16. WARRANTY:**

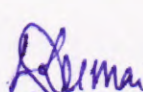
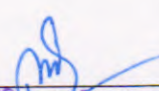
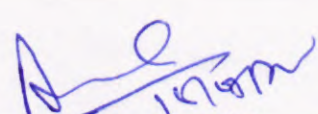
| S NO | COMPONENTS                                                                                                                                          | WARRANTY                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 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 (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<br>गुणवत्ता विभाग<br>रेडिओका0, रायबरेली (लाखगंज)                     | SME/QC/MCF/RBL<br>Senior Mechanical Engineer/Quality<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory, Raebareli | Dy.CQM/MCF/RBL<br>Joginder Singh<br>उप मुख्य गुणवत्ता प्रशासक<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

PAGE 1 OF 3

**FOR ELECTRICAL ITEMS**

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

| TYPE COACH | LWSCN                                 | SHELL/COACH NO   | 194678/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               |          |

*(Signature)*  
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

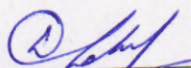
DATE:18.01.2017

PAGE 2 OF 3

**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

|     |                                                                                                                                                                                                    |                                                            |           |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------|
| 01. | Switch board cabinet<br>Make : <b>SSK</b><br>On Board Sr no : <b>2019/05/038</b><br>HT Panel Sr no : <b>2019/05/001</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>2019/06/015</b><br>Sr no.1 : <b>19050684</b><br>Sr no.2 : <b>19050721</b><br>Srno.CPA: <b>19050081-KIND</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>DR AUTO</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>SSK/SALZER</b>                                                                                                                                 | EDML 086,Rev-03, ITEM-01                                   | <b>20</b> |
| 06. | Fitment of Switch Plate Assly Corridor Side),Make : <b>SSK/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>IMT CABLES</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>AGASTYA</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

PAGE 3 OF 3

**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

|     |                                                                                                                                                                  |                                                     |                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------|
| 11. | Battery fuse box +ve<br>Make : <b>INDORAIL</b>                                                                                                                   | LW 71001,Alt-F                                      | <b>01</b>          |
| 12. | Battery fuse box -ve<br>Make : <b>NEC</b>                                                                                                                        | LW 71002,Alt-F                                      | <b>01</b>          |
| 13. | Regulated battery charger<br>Make : <b>WAVES</b><br>Sr no: <b>W4KSE 19028</b>                                                                                    | As per RDSO/pe/spec/ac/0129,<br>Rev.-1 (2009)       | <b>01</b>          |
| 14. | 9KVA transformer<br>Make : <b>PANTRONICS</b><br>Sr no : <b>PAN 18018154</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<br/>set</b>  |
| 16. | Feeder junction boxes.<br>Make : <b>SIDWAL</b>                                                                                                                   | EDTS-328 REV-C                                      | <b>01<br/>set</b>  |
| 17. | Wheel set earthing equipment.<br>Make : <b>DARSHAN INTERPRISES</b>                                                                                               | EDTS101,REV-C,AM-1                                  | <b>02<br/>sets</b> |
| 18. | Wheel Slide Protection System (WSP)<br>Make : <b>KNORR</b> Sr no : <b>0119071046</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>AMARA RAJA</b> Lug date : <b>05/19</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>HITECH</b>                                                                                                             | CC 91205                                            | <b>01</b>          |

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

गुणवत्ता नियंत्रण  
आ०रे०डि०का० / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत  
आ०रे०डि०का० / रायबरेली  
A.W.M./Electrical/MCF/RBL