



# 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/2019-20/1022

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | C | R | - | Coach No. | 1 | 9 | 7 | 2 | 3 | 1 | / | C | DATE OF DISPATCH | 0 | 7 | - | 1 | 1 | - | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |                 |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | SSE/STOCK/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 5 | 0 | 8 | FUR.NO. | LSCN-1318 |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

- Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 03-06-2019
- Tare Weight of Coach** : 41.24 Tones
- Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL
- 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) 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-NNFPL                | 25/34                     |
|      |                        | NPP END M/S-NNFPL               | 25/34                     |
|      | Complete               | M/S-NNFPL                       | 25/34                     |
| 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) | 302/01                    |
|      |                        | RH SIDE MCF/RBL(CONTRACTOR V4U) | 302/02                    |
| 4.   | End wall               | PP END M/s-DTL PUNE             | ---                       |
|      |                        | NPP END M/s-DTL PUNE            | ---                       |
| 5.   | Roof                   | M/s-ECBT                        | 355                       |
| 6.   | Centre Buffer Coupler  | M/s- FRONTIER                   | PP END 90P1 NPP END 130P2 |

#### 7. AIRBRAKE TEST REPORT:

| S NO | ITEM                   | DESCRIPTION                                                                                                                                                                  | SPEC. VALUE                                         | OBSERVED                                |
|------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------|
| 1.   | Full brake application | <ul style="list-style-type: none"> <li>➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>➤ Max. pressure in BC</li> <li>➤ All Brake are applied</li> </ul> | 6 – 10 sec.<br>3.0 ±0.15 kg/cm <sup>2</sup> .<br>OK | 08 Sec.<br>3.0 kg/cm <sup>2</sup><br>OK |
| 2.   | Insensitivity          | ➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.                                                                                                                                  | No brake application                                | OK                                      |
| 3.   | Sensitivity            | ➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, after 06 Sec.                                                                                                                    | Brake must apply                                    | OK                                      |

#### 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 -NEROLAC | KANSAI NEROLAC                                 | 90/88               | 19.10.19           |
| 2.   | Insulation  |               |              | Satisfactory                                   |                     |                    |

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेडिओका, 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/2019-20/1022

|     |   |   |  |           |   |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|--|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | C | R |  | Coach No. | 1 | 9 | 7 | 2 | 3 | 1 | / | C | - | DATE OF DISPATCH | 0 | 7 | 1 | 1 | 2 | 0 | 1 | 9 |
|-----|---|---|--|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|          |                   |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|----------|-------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH | SSE/(STOCK)/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 5 | 0 | 8 | FUR .NO | LSCN-1318 |
|----------|-------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

**9. DETAIL OF BOGIES:**

| ITEMS         | NPP Side               |                        |                        |                        | PP Side                |                        |                        |                        |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No      | 191974                 |                        |                        |                        | 191973                 |                        |                        |                        |
| Bogie Type    | FIAT                   |                        |                        |                        | FIAT                   |                        |                        |                        |
| Frame no.     | MCF/RBL/LS5 - 1243     |                        |                        |                        | MCF/RBL/LS5 - 1267     |                        |                        |                        |
| Bolster no.   | MCF/RBL/LS5 - 1175     |                        |                        |                        | MCF/RBL/LS5 - 546      |                        |                        |                        |
| Axle No       | 19 S- 2987 RWF         |                        | 19 S- 3818 RWF         |                        | 19 S- 3588 RWF         |                        | 19 S- 3042 RWF         |                        |
| Wheel Dia     | 917.571                | 917.469                | 917.586                | 917.498                | 917.583                | 917.523                | 917.555                | 917.465                |
| Wheel Disc No | TZ 08-19<br>72824-9SK2 | TZ 07-19<br>70501-9RL8 | TZ 07-19<br>69148-9RL7 | TZ 07-19<br>65590-9RN3 | TZ 07-19<br>63942-9RQ8 | TZ 06-19<br>55212-9QJ2 | TZ 07-19<br>69130-9RL7 | TZ 07-19<br>68110-9RR1 |
| R.B. Nos.     | 01-18 25673            | 05-18 26873            | 05-18 28042            | 05-18 26869            | 05-18 29515            | 05-18 13628            | 05-18 28732            | 05-18 36763            |
| CT R B Make   | SKF                    |                        | SKF                    |                        | SKF                    |                        | SKF                    |                        |

**10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-**

| DESCRIPTION | Bogie NPP side                  |                                 | Bogie PP side                   |                                 |
|-------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|             | Secondary 1                     | Secondary 2                     | Secondary 1                     | Secondary 2                     |
| Make & Nos. | TAYAL & CO.<br>Sr.NO.19-10 4819 | TAYAL & CO.<br>Sr.NO.19-10 4642 | TAYAL & CO.<br>Sr.NO.19-10 4822 | TAYAL & CO.<br>Sr.NO.19-10 4656 |

**11. TRACEABILITY OF BOGIE ITEMS :-**

| S. NO | ITEM                       | MAKE/<br>SUPPLIER | SERIAL NO.                                                                         |                                                                                    |
|-------|----------------------------|-------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|       |                            |                   | NPP SIDE                                                                           | PP SIDE                                                                            |
| 1.    | Yaw Damper                 | KBI               | 13965,13981                                                                        | 13959,13979                                                                        |
| 2.    | Primary outer Spring       | CMFSK             | 09-19 1035-078- (1781,1797,1804,1791)                                              | 09-19 1035-078- (1782,1809,1802,1806)                                              |
| 3.    | Primary Inner Spring       | CMFSK             | 05-19 1101-064 (171,55,112,190)                                                    | 05-19 1101-064 (12,720,49,89)                                                      |
| 4.    | Primary Damper             | KONIC             | 03-19 (01822,08551,08992,02416)                                                    | 03-19 (02196,01839,08304,01691)                                                    |
| 5.    | Secondary Damper           | GB                | 07-19 (01413,01410)                                                                | 07-19 (01411,01514)                                                                |
| 6.    | Lateral Damper             | KONI              | 04-19 01351                                                                        | 04-19 0136                                                                         |
| 7.    | Brake Cylinder             | KBI               | B(7250,8258,8257,9255)K29                                                          | B(9109,8146,8131,9043)K29                                                          |
| 8.    | Brake Caliper              | KBI               | B(6229,6319,6323,6223)-29                                                          | B(6125,6209,6230,6144)-29                                                          |
| 9.    | Brake Disc                 | KBI               | 24200057 0062-37/19,24200060 0064-38/19<br>24200060 0062-38/19,24198278 0073-35/19 | 24200060 0063-38/19,24200031 0017-38/19<br>24198278 0068-35/19,24198278 0067-35/19 |
| 10.   | Ball Joint Control Arm     | GMT               |                                                                                    |                                                                                    |
| 11.   | Lateral Bump Stop          | GMT               |                                                                                    |                                                                                    |
| 12.   | Traction Centre make       | SF(SARITA)        |                                                                                    |                                                                                    |
| 13.   | Traction lever make        | JI                |                                                                                    |                                                                                    |
| 14.   | Ball joint traction lever  | GMT               |                                                                                    |                                                                                    |
| 15.   | Ball joint traction centre | GMT               |                                                                                    |                                                                                    |
| 16.   | Leveling Valve             | KNORR             | 19 B- 4125,19B-3599                                                                | 19 B- 4176,19B-4060                                                                |
| 17.   | Check Valve                | KNORR             | 02-2019 2619                                                                       | 07-19 019866                                                                       |
| 18.   | Anti roll bar Make         | EMSON             |                                                                                    |                                                                                    |
| 19.   | Roll Link make             | SARITA/GMT        |                                                                                    |                                                                                    |
| 20.   | Fork make                  | SARITA            |                                                                                    |                                                                                    |
| 21.   | Control Arm Upper          | SF                | 256,597,452,SF                                                                     | 458,297,688,160                                                                    |
| 22.   | Control Arm Lower          | SF                | 167, SF,186,931                                                                    | 190,SF,153,35                                                                      |
| 23.   | Phonic Wheel               | KNOOR             | K-09-19 640209                                                                     | K-09-19 640209                                                                     |

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/2019-20/1022

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | C | R | - | Coach No. | 1 | 9 | 7 | 2 | 3 | 1 | / | C | DATE OF DISPATCH | 0 | 7 | - | 1 | 1 | - | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |                 |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | SSE/STOCK/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 5 | 0 | 8 | FUR.NO. | LSCN-1318 |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

**12. TRACEABILITY OF FURNISHING ITEMS:**

| S NO | ITEM                            | MAKE/SUPPLIER                          | SERIAL NO        |
|------|---------------------------------|----------------------------------------|------------------|
| 1.   | Air Brake Module                | M/S- KBI, FARIDABAD                    | 3669 36/19       |
| 2.   | Pull box                        | M/S- KBI, FARIDABAD                    |                  |
| 3.   | Distribution valve              | M/S- KBI, FARIDABAD                    |                  |
| 4.   | FIBA                            | M/S- KBI, FARIDABAD                    | 2019 H 8787      |
|      |                                 |                                        | PP-9238/29       |
|      |                                 |                                        | NPP-9180/29      |
| 5.   | Foot Step                       | M/s- SUPER SPARK 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- KIRAN RUBBER PRODUCT PUNE         |                  |
| 11.  | UIC Vestibule (NPPE)            | M/S-SUNCREST IND.KOLKATA               |                  |
| 12.  | Gangway bridge mounting (PPE)   | M/S- RAKESH IRON STORE, KXH            |                  |
| 13.  | Gangway bridge mounting (NPPE)  | M/S- RAKESH IRON STORE, KXH            |                  |
| 14.  | Body Side Window                | M/s-AGF 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 DELHI                    |                  |
| 19.  | Door way ceiling                | M/S-JAMM TOOLS RBL                     |                  |
| 20.  | Body Side Door 1,3              | M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG |                  |
| 21.  | Body Side Door 2,4              | M/S- JBM INDUSTRIES, FARIDABAD         |                  |
| 22.  | Vestibule Door(PPE)             | M/S- HANSPAL, KXH                      |                  |
| 23.  | Vestibule Door(NPPE)            | M/S- HANSPAL, KXH                      |                  |
| 24.  | Bio Tank                        | M/S- FLAS FORE (P) LTD VIZAG           |                  |
| 25.  | Auxiliary Water Tank            | M/S- AMIT ENG. MOHALI                  |                  |
| 26.  | Under Slung Water Tank( 2X685L) | M/S- AMIT ENG. MOHALI                  |                  |
| 27.  | Under Slung Water Tank (1X685L) | M/S- AMIT ENG. MOHALI                  |                  |
| 28.  | Controlled Discharge Tap        | M/s-KAPCO VALES JALANDHAR              |                  |
| 29.  | Flexible Faucet                 | M/s-KAPCO VALES JALANDHAR              |                  |
| 30.  | Lotah Filler Tap                | M/s- AGMECO (P) LTD. UK                |                  |
| 31.  | Lavatory Doors 2,4              | M/S- JR INDS JALNDHAR                  |                  |
| 32.  | Lavatory Doors 1,3              | M/S- KALSI, LUDHIYANA                  |                  |
| 33.  | Seat & Berth                    | M/s- T.W.P.L. INDUS. MUMBAI            |                  |
| 34.  | RFID                            | M/s-ID TECH SOLUTION GURGAON           | Sr.106671-106672 |

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

वरिष्ठ अधिकारी  
गुणवत्ता विभाग  
रे 0डि0का0, रायबरेली (लालमंज)



MCF/RBL



# 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/2019-20/1022

|     |   |   |   |           |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |   |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | C | R | - | Coach No. | 1 | 9 | 7 | 2 | 3 | 1 | / | C | DATE OF DISPATCH | 0 | 7 | - | 1 | 1 | - | 1 | 9 |
|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

|             |                 |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | SSE/STOCK/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 5 | 0 | 8 | FUR.NO. | LSCN-1318 |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

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 qualityrcfrbl@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.

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

वरिष्ठ अनुसंधान विभाग  
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

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

जोगिन्दर सिंह  
Dy. Chief Quality Manager  
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 NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

| TYPE COACH | LWSCN                                 | SHELL/COACH NO   | 197231/C |
|------------|---------------------------------------|------------------|----------|
| RAILWAY    | CR                                    | 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

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>PD STEELS</b><br>On Board Sr no : <b>PDS/1910027</b><br>HT Panel Sr no : <b>PDS/1910006</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>2019/09/0117</b><br>Sr no.1 : <b>19090145</b><br>Sr no.2 : <b>19090140</b><br>Srno.CPA: sr no - <b>2019/09/123-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/VGS</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>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>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>RT VISION</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>DR AUTO</b>                                                                         | CC76289 & CC76443                                          | <b>09</b> |

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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 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>RADIANT</b>                                                                                                                    | LW 71002,Alt-F                                     | <b>01</b>      |
| 13. | Regulated battery charger<br>Make : <b>WAVES</b><br>Sr no: <b>W4K5I 19868</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-2278</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>ESBEE</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> Sr no : <b>0119242297</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>08/19</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><br><b>वरिष्ठ अनुभाग अभियन्ता</b><br>गुणवत्ता नियंत्रण<br>आ०रे०डि०का० / लालगंज / रायबरेली<br>S.S.E./Elect-QC/M.C.F./LLJ/RBL | <b>AWM(ELECT.)/MCF/RBL</b><br><b>SEE(P)/MCF/RBL</b> |

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