



# 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/2019-20/996

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

|             |                 |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | SSE(STOCK)CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 3 | 8 | 7 | FUR.NO. | LSCNG-327 |
|-------------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

- Railway Board's Order No. : 2019/M(C)/142/2, Dated-13-06-2019
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL
- Special feature: -

| S NO | DESCRIPTION                                                                                                          | MAKE/SUPPLIER                       |
|------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| A.   | Epoxy flooring in lavatory                                                                                           | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| B.   | Anti slip friendly Grab Bar                                                                                          | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| C.   | Provision of Health Faucet in lavatories                                                                             | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| D.   | Washbasin counter Top (Corian of Duport or Montelli)                                                                 | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| E.   | GFRE ceiling instead of NFTC                                                                                         | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| F.   | DGFRP panels instead of LP panels                                                                                    | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| G.   | Honey Comb partition frame with DGFRP sheet instead of FRP sheet                                                     | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| H.   | 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 | M/S- HINDUSTAN FIBRE GLASS,VADODARA |
| I    | 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) 1102 (NPPE) 2) 1105 (PPE) |

#### 6. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM                  | MAKE/SUPPLIER              | SERIAL NO       |
|------|-----------------------|----------------------------|-----------------|
| 1.   | Under frame           | PP END M/S-TACPL           | 10/10           |
|      | Complete              | NPP END M/S-TACPL          | 10/10           |
| 2.   | Lav. side wall        | M/S- ATHANACY RBL          | 10/10           |
|      |                       | M/S- ATHANACY RBL          | LAV.1 - LAV.2 - |
| 3.   | Side wall             | M/S- T.I.(CHENNAI)         | LAV.3 - LAV.4 - |
|      | LH SIDE               | M/S- T.I.(CHENNAI)         | 03              |
|      | RH SIDE               | M/S- T.I.(CHENNAI)         | 03              |
| 4.   | End wall              | PP END M/S- DTL PUNE       | --              |
|      |                       | NPP END M/S- DTL PUNE      | --              |
| 5.   | Roof                  | M/S-ECBT                   | --              |
| 6.   | Centre Buffer Coupler | M/S- SANROK                | 328             |
|      |                       | PP END 14005 NPP END 14916 |                 |

#### 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 | 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-GS | (SUPPLY & APPLY)                               | 91/88               | 29.09.19           |
| 2.   | Insulation  |               |        | Satisfactory                                   |                     |                    |

Signature  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग  
रेलवे, 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/2019-20/996

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

|          |                 |      |   |   |   |   |   |   |           |   |   |   |   |   |         |            |
|----------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|------------|
| DISPATCH | SSE/STOCK/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 3 | 8 | 7 | FUR .NO | LSCN-G-327 |
|----------|-----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|------------|

**9. DETAIL OF BOGIES:**

| ITEMS         | NPP Side               |                        |                        |                        | PP Side                |                        |                        |                        |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No      | 192111                 |                        |                        |                        | 192112                 |                        |                        |                        |
| Bogie Type    | FIAT                   |                        |                        |                        | FIAT                   |                        |                        |                        |
| Frame no.     | MCF/RBL/LS5-735        |                        |                        |                        | MCF/RBL/LS5-1084       |                        |                        |                        |
| Bolster no.   | SCI-284                |                        |                        |                        | AMIT ENGG-162          |                        |                        |                        |
| Axle No       | 19 S- 2918 RWF         |                        | 19 S- 4054 RWF         |                        | 19 S- 1803 RWF         |                        | 19 S- 2942 RWF         |                        |
| Wheel Dia     | 917.418                | 917.516                | 917.493                | 917.579                | 917.506                | 917.615                | 917.489                | 917.56                 |
| Wheel Disc No | TZ 06-19<br>58172-9QJ2 | TZ 06-19<br>58171-9QL3 | TZ 08-19<br>74816-9RR6 | TZ 06-19<br>68959-9RM5 | TZ 07-19<br>64194-9RM3 | TZ 07-19<br>64280-9RK7 | TZ 07-19<br>67799-9RQ3 | TZ 07-19<br>68926-9RM5 |
| R.B. Nos.     | 08-19 27165            | 08-19 26806            | 08-19 24449            | 08-19 24212            | 08-16 23256            | 08-19 27368            | 08-19 27249            | 08-19 27066            |
| 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. | TAYAL & CO.<br>Sr.NO.19-10 4676 | TAYAL & CO.<br>Sr.NO.19-10 4695 | TAYAL & CO.<br>Sr.NO.19-10 4640 | TAYAL & CO.<br>Sr.NO.19-10 4612 |

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

| S. NO | ITEM                       | MAKE/SUPPLIER | SERIAL NO.                                                                         |                                                                                     |
|-------|----------------------------|---------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                            |               | NPP SIDE                                                                           | PP SIDE                                                                             |
| 1.    | Yaw Damper                 | KNORR         | 16630,16066                                                                        | 16625,16626                                                                         |
| 2.    | Primary outer Spring       | CMFSK         | 09-19 1100-078 (9015,2060,2271,1993)                                               | 09-19 1100-078(2193,2272,2675,1937)                                                 |
| 3.    | Primary Inner Spring       | CMSTL         | 07-19 F06-911 (510,417,540,410)                                                    | 07-19 F06-911 (237,1212,511,210)                                                    |
| 4.    | Primary Damper             | KONIC         | 03-19 (04009,02275,05990,05965)                                                    | 03-19 (02341,02255,01828,04490)                                                     |
| 5.    | Secondary Damper           | GB            | 07-19 (01272,01273)                                                                | 07-19 (01278,01279)                                                                 |
| 6.    | Lateral Damper             | KONI          | 04-19 01445                                                                        | 04-19 01436                                                                         |
| 7.    | Brake Cylinder             | KBI           | B(9102,8232,8233,9082)K29                                                          | B(6194,8275,8259,9197)K29                                                           |
| 8.    | Brake Caliper              | KBI           | B(6116,6292,9294,6117)-29                                                          | B(6189,6314,6315,6188)-29                                                           |
| 9.    | Brake Disc                 | KBI           | 24200051 0080-36/15,24200036 0064-36/19<br>24200051 0065-36/19,24200036 0072-36/19 | 24200036 0080-36/19,24200051 0068-36/19<br>24198274 0031-34/149,24198274 0030-34/19 |
| 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         | 16-19 B 3425,16-19 4155                                                            | 06-19 B 4033,06-19 B 4091                                                           |
| 17.   | Check Valve                | KNORR         | 02-19 18658                                                                        | 02-19 188733                                                                        |
| 18.   | Anti roll bar Make         | EMSON         |                                                                                    |                                                                                     |
| 19.   | Roll Link make             | SARITA/GMT    |                                                                                    |                                                                                     |
| 20.   | Fork make                  | SF(SARITA)    |                                                                                    |                                                                                     |
| 21.   | Control Arm Upper          | RVE           | 270719-2,270719-3,RVE,RVE                                                          | RVE,290719-2,260719-1,290719-1                                                      |
| 22.   | Control Arm Lower          | RVE           | 130719-1,RVE,RVE,280719-2                                                          | 030819-2,030819-1,030619-2,030819-1                                                 |
| 23.   | Phonic Wheel               | KNOOR         | K-07-19 640209                                                                     | K-07-19 640209                                                                      |

Signature of SSE/Bogie/QC



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|             |                  |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | SSE(STOCK)/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 3 | 8 | 7 | FUR.NO. | LSCNG-327 |
|-------------|------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

### 12. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM                            | MAKE/SUPPLIER                             | SERIAL NO        |
|------|---------------------------------|-------------------------------------------|------------------|
| 1.   | Air Brake Module                | M/S- KBI, FARIDABAD                       |                  |
| 2.   | Distribution valve              | M/S- KBI, FARIDABAD                       | 3672 36/19       |
| 3.   | Pull box                        | M/S- KBI, FARIDABAD                       | 2019 H 8829      |
| 4.   | Foot Step                       | M/s- SUPER SPARK PVT. LTD. FARIDABAD      |                  |
| 5.   | Decoupling arrangement          | M/S-ELASTOMER LINING WORKS, MUMBAI        |                  |
| 6.   | Floor board                     | M/s- T.W.P.L. INDUS. MUMBAI               |                  |
| 7.   | PVC                             | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 8.   | Lavatory Inlay                  | M/S- SEEMA INDS. BHOPAL                   |                  |
| 9.   | UIC Vestibule (PPE)             | M/S-SUNCREST IND.KOLKATA                  |                  |
| 10.  | UIC Vestibule (NPPE)            | M/S-SUNCREST IND.KOLKATA                  |                  |
| 11.  | Gangway bridge mounting (PPE)   | M/S- RAKESH IRON STORE, KXH               |                  |
| 12.  | Gangway bridge mounting (NPPE)  | M/S- RAKESH IRON STORE, KXH               |                  |
| 13.  | Body Side Window                | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 14.  | Emergency Window                | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 15.  | Hopper Window                   | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 16.  | Side panel                      | M/S- (DGFRE)HINDUSTAN FIBRE GLASS WORKS,  |                  |
| 17.  | Roof ceiling                    | M/S- (GFRE)HINDUSTAN FIBRE GLASS WORKS,   |                  |
| 18.  | Door way ceiling                | M/S- (GFRE)HINDUSTAN FIBRE GLASS WORKS,   |                  |
| 19.  | Partition frame                 | M/S-SARITA INDS UMB                       |                  |
| 20.  | Partition pillar                | NA.                                       |                  |
| 21.  | Body Side Doors 1,3             | M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG    |                  |
| 22.  | Body Side Doors 2,4             | M/S- JBM INDUSTRIES, FARIDABAD            |                  |
| 23.  | Vestibule Door(PPE)             | M/S- HANSPAL TRADERS, KXH                 |                  |
| 24.  | Vestibule Door(NPPE)            | M/S- HANSPAL TRADERS, KXH                 |                  |
| 25.  | Bio Tank                        | M/s- FLASH FORGE (P)LTD. VIZAG            |                  |
| 26.  | Auxiliary Water Tank            | M/s- MANOJ ENG. MOHALI                    |                  |
| 27.  | Under Slung Water Tank( 2X685L) | M/s- AMIT ENG. MOHALI                     |                  |
| 28.  | Under Slung Water Tank (1X685L) | M/s- AMIT ENG. MOHALI                     |                  |
| 29.  | Health Faucet                   | M/s- KAPCO VALVES JALANDHAR               |                  |
| 30.  | Lotah Filler Tap                | M/s- KAPCO VALVES JALANDHAR               |                  |
| 31.  | Controlled Discharge Tap        | M/s- AGMECO PVT LTD U.K                   |                  |
| 32.  | Lavatory Doors                  | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 33.  | Seat & Berth                    | M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA |                  |
| 34.  | Snack Table                     | N/A                                       |                  |
| 35.  | RFID                            | M/s-TECH SOLUTION GURGAON                 | Sr.106719-106720 |

SSE/QC/MCF/RBL

परिचालन अभियंता  
गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (लालगंज)



# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारखाना, रायबरेली

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|             |                  |      |   |   |   |   |   |   |           |   |   |   |   |   |         |           |
|-------------|------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|
| DISPATCH TO | SSE(STOCK)/CR/BB | Type | L | W | S | C | N | 1 | Shell No. | 9 | 7 | 3 | 8 | 7 | FUR.NO. | LSCNG-327 |
|-------------|------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---------|-----------|

13. MODIFICATION (IF ANY) : Partition frame &amp; Partition pillar

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 |
|------|------------------|---------|---------------------|--------------------------------|
|      |                  |         |                     |                                |

**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 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<br>वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता<br>गुणवत्ता विभाग<br>रेडिओ-४०, रायबरेली (लालगंज) | SME/QC/MCF/RBL<br>वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता<br>Senior Mechanical Engineer/Quality<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory Raebareli | Dy.CQM/MCF/RBL<br>उप मुख्य गुणवत्ता प्रबन्धक/रेल<br>Dy. Chief Quality Manager/Shell<br>आधुनिक रेल डिब्बा कारखाना, रायबरेली<br>Modern Coach Factory, Raebareli |

67-327



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   | 197223/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

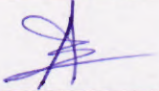
DATE:18.01.2017

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**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>2019/09/371</b><br>HT Panel Sr no : <b>2019/09/355</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>2019/09/0041</b><br>Sr no.1 : <b>19090161</b><br>Sr no.2 : <b>19090077</b><br>Srno.CPA: <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>SALZER</b>                                                                                                                                    | EDML 086,Rev-03, ITEM-01                                   | <b>20</b> |
| 06. | Fitment of Switch Plate Assly Corridor Side),Make : <b>SALZER</b>                                                                                                                                 | EDML 086, Rev 03, ITEM-02                                  | <b>20</b> |
| 07. | Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features.<br>Make: <b>ORIENT</b>                                                                                                      | IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I. | <b>30</b> |
| 08. | Cabin,Corridor,doorway and Gangway Lights.<br>Make: <b>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> |

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



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आधुनिक रेल डिब्बा कारखाना,  
रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

|     |                                                                                                                                                                   |                                                     |                    |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------|
| 11. | Battery fuse box +ve<br>Make : <b>RADIANT</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>W4K5H 19505</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-2024</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>AECO</b>                                                                                                                      | EDTS-328 REV-C                                      | <b>01<br/>set</b>  |
| 17. | Wheel set earthing equipment.<br>Make : <b>PRIME ELECT.</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>0119040929</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,WIHI 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>वरिष्ठ अनुभाग अभियन्ता | <b>AWM(ELECT.)/MCF/RBL</b><br><b>SEE(P)/MCF/RBL</b> |

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

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आ०रे०डि०का० / रायबरेली  
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