



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/2018-19/1232

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

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISPATCH TO | SSE(STOCK) / CSTM | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 4 | 5 | 1 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|-------------|-------------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

1. Railway Board's Order No. : 2018/M(C)/142/2 dated -22-02-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. 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 | 4250 |
| 4. | CBC height/Buffer height from Rail level 1105 +0/-10 | 1) 1105 (NPPE) 2) 1099 (PPE) |

5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|-----------------------|--------------------------------|----------------------------|
| 1. | Under frame | PP END M/S - SANTECH MOHALI | --- |
| | Front Part | NPP END M/S - SANTECH MOHALI | --- |
| | Complete | MCF/RBL(SIS) | 50 |
| 2. | Lav. side wall | M/S- COMPETENT ENG. JUC | LAV.1 --- LAV.2 --- |
| | | M/S- COMPETENT ENG. JUC | LAV.3 --- LAV.4 --- |
| 3. | Side wall | MCF/RBL(CONTRACTOR V4U) | 407/01 |
| | LH SIDE | MCF/RBL(CONTRACTOR V4U) | 407/02 |
| | RH SIDE | MCF/RBL(CONTRACTOR V4U) | --- |
| 4. | End wall | PP END M/S- RSM MOHALI | --- |
| | | NPP END M/S- RSM MOHALI | --- |
| 5. | Roof | M/S INDIRA IND.RANIPET CHENNAI | 147 |
| 6. | Centre Buffer Coupler | M/S- SANROK ,FARIDABAD | PP END 10698 NPP END 10674 |

6. 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/cm². ➤ Max. pressure in BC ➤ All Brake are applied | 6 - 10 sec. 3.0 ±0.15 kg/cm². OK | 06 sec. 3.0 kg/cm² OK |
| 2. | Insensitivity | ➤ Exhaust BP @ 0.3 kg/cm²/min. | No brake application | OK |
| 3. | Sensitivity | ➤ Exhaust BP @ 0.1 kg/cm²/Sec, after 06 Sec. | Brake must apply | OK |

7. PAINTING DETAILS:

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE | APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY) | AVERAGE GLOSS VALUE |
|------|-------------|---------------|--------|--|---------------------|
| 1. | Paint | P.U | M/S-GS | SUPPLY & APPLY | 90/89 |
| 2. | Insulation | | | Satisfactory | |

[Signature]
SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली/ल०



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
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| | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| Coach No. | 1 | 9 | 2 | 0 | 4 | 4 | / | C | - | DATE OF DISPATCH | 2 | 2 | . | 0 | 2 | . | 1 | 9 |
|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|
| RLY | C | R | - | - | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 4 | 5 | 1 | - | - | - | - | - | - | - |
|-----|---|---|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|

8. DETAIL OF BOGIES:

| ITEMS | NPP Side | | | | PP Side | | | |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No | 182734 | | | | 182733 | | | |
| Bogie Type | LWACCN | | | | LWACCN | | | |
| Frame no. | ECBT-867 | | | | MCF/RBL-1566 | | | |
| Bolster no. | AMIT-378 | | | | VS-384 | | | |
| Axle No | 18 J - 5501 RWF | | 18 J - 2285 RWF | | 18 H - 8971 RWF | | 18 G - 3471 RWF | |
| Wheel Dia | 917.557 | 917.618 | 917.531 | 917.587 | 917.564 | 917.450 | 917.584 | 917.601 |
| Wheel Disc No | TZ-05-18 25026-8PS4 | TZ-05-18 18409-8MW7 | TZ-05-18 41674-8RP5 | TZ-05-18 25035-8MR1 | TZ-08-18 45502-8RN2 | TZ-08-18 45501-8RN2 | TZ-07-18 36150-8RP3 | TZ-05-18 25033-8MN1 |
| R.B. Nos. | 08-18 20352 | 07-18 18126 | 09-18 21578 | 07-18 18102 | 09-18 22081 | 07-18 16812 | 09-18 20948 | 08-18 20389 |
| CT R B Make | TIMKEN | | TIMKEN | | TIMKEN | | TIMKEN | |

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

| DESCRIPTION | Bogie NPP side | | | | Bogie PP side | | | |
|----------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | |
| | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner |
| Make & Nos. | CMFSK12-18- 5835-498-67 | CMRSK12-18-F19- 546-19A-1460 | CMFSK12-18- 5035-458-58 | CMRSK12-18-F19- 546-19A-1507 | CMFSK12-18- 8835-498-16 | CMRSK12-18-F19- 566-19A-4885 | CMFSK12-18-8835- 498-74 | CMRSK12-18-F19- 566-19A-1459 |
| Compressed Ht. at Tested Load | 510 | 468 | 510 | 466 | 515 | 467 | 515 | 466 |
| Alignment deviation (mm) | 13 | 32 | 12 | 32 | 12 | 37 | 13 | 37 |

10. TRACEABILITY OF BOGIE ITEMS:

| S. NO | ITEM | MAKE/ SUPPLIER | SERIAL NO. | |
|-------|----------------------------|-------------------|--|--|
| | | | NPP SIDE | PP SIDE |
| 1. | Yaw Damper | KBI | 13684,13670 | 1407,13680 |
| 2. | Primary outer Spring | CMGBD | 08-18 411(98-100,110-770,105-93,85) | 08-18 411(98-708,110-716,110-713,105-836) |
| 3. | Primary Inner Spring | CMRSK | 10-18 04Y (8148,6850,8067,8354) | 10-18 04Y (8477,8554,6812,8939) |
| 4. | Primary Damper | KNORR | 12-18 (47936,47914,47902,47267) | 12-18 (48320,47548,47535,47466) |
| 5. | Secondary Damper | IAI | 12-18 (230910,230835) | 12-18 (231139,230980) |
| 6. | Lateral Damper | IAI | 12-18 237357 | 12-18 235345 |
| 7. | Brake Cylinder | FAV | M18-479,N18-133,M18-456,N18-011 | M18- (481,488,459,) N18 (-022) |
| 8. | Brake Caliper | FAV | A19(487,285,254,296)B | A19(288,286,293,295)B |
| 9. | Brake Disc | FAV | 24164688 0039-43/18 24164688 0038-43/18 24164609 0006-42/18 24164609 0008-42/18 | 24167527 0002-43/18 24167527 0014-43/18 24167528 0004-43/18 24167528 0003-43/18 |
| 10. | Ball Joint Control Arm | AR | | |
| 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 | AR | | |
| 16. | Secondary Rubber Pad | PPI | | |
| 17. | Rubber Spring | GMT | | |
| 18. | Anti roll bar make | EMSON | | |
| 19. | Roll Link make | SARITA/GMT | | |
| 20. | Fork make | ASL | | |
| 21. | Control Arm Upper | RVE | 301118-4,291118-1,301118-4,301118-4 | 311118-4,301118-2,301118-4,211218-2 |
| 22. | Control Arm Lower | RVE | RVE,281118-1,071218-2,081118-1 | 071218-4,281118-1,081218-4,211118-1 |
| 23. | PHONIC WHEEL | FAV | FT/KEP-1336 | FT/KEP-1136 |

Signature of SSE/Bogie/QC



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| RLY | C | R | - | Coach No. | 1 | 9 | 2 | 0 | 4 | 4 | / | C | DATE OF DISPATCH | 2 | 2 | - | 0 | 2 | - | 1 | 9 | | | |
| DISPATCH TO | SSE(STOCK) / CSTM | | | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 4 | 5 | 1 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |

11. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|----------------------------------|---|----------------------|
| 1. | Air Brake Module | M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP) | M18097B |
| 2. | Pull box | M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP) | |
| 3. | Distribution valve | M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP) | 18125526B |
| 4. | Foot Step | M/S- SUPER SPARK PVT.LTD.FARIDABAD | |
| 5. | Decoupling arrangement | M/S- KOHINOOR KR MUMBAI | |
| 6. | Floor board | M/s- EG WOOD BOARDS HYDRABAD | |
| 7. | PVC | M/S RESPONSIVE IND.MUMBAI | |
| 8. | UIC Vestibule (PPE) | M/S-SUNCREST IND.KOLKATA | |
| 9. | UIC Vestibule (NPPE) | M/S-SUNCREST IND.KOLKATA | |
| 10. | Gangway bridge mounting (PPE) | M/S- MAHAVEER MATEL WORKS, KAPURTHALA | |
| 11. | Gangway bridge mounting (NPPE) | M/S- MAHAVEER MATEL WORKS, KAPURTHALA | |
| 12. | Body Side Window | M/S- KAENAT TECSPARK | |
| 13. | Emergency Window | M/S- BIRCON ENG IND PVT LTD GZB | |
| 14. | Lavatory/hopper Window | M/S- AIKON ENG SOLAN | |
| 15. | Roof Ceiling | M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA | |
| 16. | Door way /gang way ceiling | M/s- GHANDHI SAFE & ALIED CDG | |
| 17. | Supply Air Duct | M/s- AMIT ENGG, | |
| 18. | Partition panel | M/S- HONEYCOMB ENG BANGALURU | |
| 19. | Partition pillar | M/S- SICO KXH | |
| 20. | Side Wall panel | M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA | |
| 21. | AC Trough | M/S- MEENA INDS. CHENNAI | |
| 22. | Body side Door | M/S- JBM INDUSTRIES, FARIDABAD | |
| 23. | Compartment Door (PPE) | M/S- KALSI INDS, KXH | |
| 24. | Compartment Door (NPPE) | M/S- JBM INDUSTRIES, JUC | |
| 25. | Vestibule Door(PPE) | M/S- HANSPAL TRADERS, KXH | |
| 26. | Vestibule Door(NPPE) | M/S- KALSI INDS, KXH | |
| 27. | Bio Tank | M/S RAIL FAB. KAPURTHALA | |
| 28. | Auxiliary Water Tank | M/s- AMIT ENGG, MOHALI | |
| 29. | Under Slung Water Tank (2X685L) | M/s- AMIT ENGG, MOHALI | |
| 30. | Under Slung Water Tank (1x450 L) | M/s- AMIT ENGG, BADDI | |
| 31. | Flexible Faucet | M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA | |
| 32. | Lotah Filler Tap | M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA | |
| 33. | Bib cock | M/S- JAQUAR PVT LTD. ALWAR | |
| 34. | Lavatory Modules | M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA | |
| 35. | Lavatory Doors | M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA | |
| 36. | Fire Extinguisher | M/S- CAPITAL FIRE COM, HARIYANA | NPPE-6637, PPE- 6577 |
| 37. | Seat & Berth | M/S- ORIENTAL VENEER PRODUCTS MUMBAI | |
| 38. | Light Luggage Rack | M/S- TECHNO IND. ALD | |
| 39. | Snack Table | M/s- INTERNATIONAL TRACTOR LTD. JALANDHAR | |

S. S. S.

SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०का०, रायबरेली (लाल गंज)



Modern Coach Factory Raebareli

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|-------------|-------------------|---|---|-----------|---|---|---|---|---|---|-----------|---|------------------|---|---|---|---|---|---|---|---|---|---|---|
| RLY | C | R | - | Coach No. | 1 | 9 | 2 | 0 | 4 | 4 | / | C | DATE OF DISPATCH | 2 | 2 | - | 0 | 2 | - | 1 | 9 | | | |
| DISPATCH TO | SSE(STOCK) / CSTM | | | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 4 | 5 | 1 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

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

15. WARRANTY:

| S NO | COMPONENTS | WARRANTY |
|------|---|---|
| 1 | Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. (items which are consumable in nature) | NIL |
| 2 | Other coach furnishing sub assemblies(bought out items) | 24 months from the date of dispatch of coach OR 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 | SME/QC/MCF/RBL | Dy.CQM/MCF/RBL |

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालमंज)

वरि०यांत्रिक अभियंता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

जोड़ित
उप मुख्यालय
Dy. Chief Engineer
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

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

| TYPE COACH | LWACCN | SHELL/COACH NO | 192044/C |
|------------|---|--------------------|----------|
| RAILWAY | CR | DATE OF DESPATCH | |
| Sr no | Description of tests | Remarks | |
| 1.0 | REFERENCE SPECIFICATION : L 446 | | |
| 1.1 | AIR CONDITIONING TEST : ELPS/TP/AC 01. | | |
| 1.2 | CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01 | | |
| 2.0 | INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB. | | |
| | Observed status : HEALTHY | | |
| 3.0 | AIR DELIVERY MEASUREMENT | OBSERVED VALUE | OK |
| 3.1 | Fresh Air | 19.40 Cub mtr/min | OK |
| 3.2 | Return Air | 70.66 Cub mtr/min | OK |
| 3.3 | Exhaust Air | 7.17 Cub mtr/min | OK |
| 3.4 | Conditioned Air | 164.32 Cub mtr/min | OK |
| 4.0 | PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition | OK | |
| | Not done due to Ambient temp. below 22°C | | |
| 5.0 | PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition. | OK | |
| | Not done due to Ambient temp. below 22°C | | |

Senior Section Engineer
Quality control / Electrical
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

| Sr no | Description of test | Remarks |
|-------|--|---------|
| 6.0 | HUMIDITY CONTROL | OK |
| 7.0 | PUMP EQUIPMENTS | OK |
| 8.0 | WORKING OF EXHAUST FANS OVER LAVATORIES | OK |
| 9.0 | WORKING OF COMPOSITE PANTRY | OK |
| 10.0 | COMPARTMENT LIGHT | OK |
| 11.0 | PUBLIC ADDRESSING SYSTEM (PAS) | OK |
| 12.0 | WHEEL SLIDE PROTECTION SYSTEM (WSP) | OK |
| 13.0 | WORKING OF 60KVA TRANSFORMER | OK |
| 14.0 | WORKING OF REGULATED BATTERY CHARGER | OK |
| 15.0 | WORKING OF EMERGENCY BATTERY CHARGER | OK |
| 16.0 | SAFETIES : | |
| 16.1 | THERMOSTAT : | OK |
| 16.2 | ROTARY 07 SET POINTS (NORMAL CONDITION) | OK |
| 16.3 | MID SET POINTS (SENSORS FAILED CONDITIONS) | OK |
| 16.4 | HYGROSTAT | OK |
| 16.5 | CONTROL CIRCUIT | OK |
| 16.6 | POWER CIRCUIT | OK |
| 17.0 | REFRIGERANT USED R 407C | OK |

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|--|---|--------------------|
| 01. | Roof mounted AC package unit for LHB AC coaches. Make : AMIT ENGG. Sr no of RMPU (NPP side): 3172 A Sr no of RMPU (PP side) : 3158 A Sr no of Microprocessor: AE 19.01.147 | As per rdso/pe/spes/ac/0061/rev-1/2005 | 02 |
| 02. | Switch board cabinet Make : TROLEX Sr no : 181172 | RDSO/PE/SPEC/AC/0184-2015 REV-0 | 01 |
| 03. | Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2018/12/52 Sr no.1 : 18100641 Sr no.2 : 18100619 Sr no.CPA : 7490/09/2018-KALSI | As per spec EDTS 186,Rev-a, Am- 2 | 01 |
| 04. | Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG | EDTS331, TYPE-1 CORR.-1&2 | 02 |
| 05. | Door way/Gangway Light Make : RT VISION | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N | 07 |
| 06. | Provision of Passenger area light(Cabin) Make: RT VISION | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L | 09 |
| 07. | Corridor Light with Night light Make: RT VISION | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M | 09 |
| 08. | Emergency light system for EOG type coaches (AEL) Make : CONCORD | EDTS 151,Rev -c Am-1 & 2 | 04 |
| 09. | Lavatory light fitting assly Make : CMT | LW 76001,Alt nil | 04 |
| 10. | Toilet indication (WC) light, Make: AGASTYA | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 | 04 |
| 11. | Passenger alarm coach indication light Make : KAVERI | LW 76005,Alt-e | 02 |

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|--|--------------------|
| 12. | Razor socket for WC 110/240V. Make : SSK | EDML 047,Rev nil | 04 |
| 13. | Terminal strip Make : WAGO | EDML 034,Rev-a | 01 |
| 14. | Terminal connector Make : WAGO | EDML 037,Rev`a' | 04 |
| 15. | Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK | EDML 0,64,Rev-B, Item 04. | 09 |
| 16. | Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK | EDML 0,64,Rev-B, Item 05. | 09 |
| 17. | Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK | EDML 0,64,Rev-B, Item -16. | 09 |
| 18. | PA system for LHB coaches Make : AHUJA | EDTS 173,Rev- a Am- 1,2&3 | 01 set |
| 19. | 70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 11/18 | EDTS 129,Rev nil | 01 set |
| 20. | Battery box for LHB coaches. Make : TECHNO | 1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27. | 01 |
| 21. | Battery fuse box +ve Make : INTEG | As per LW 71001,Alt- F | 01 |
| 22. | Battery fuse box -ve Make : NEC | As per LW 71002,Alt- F | 01 |

Senior Section Engineer
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|---|--------------------|
| 23. | Emergency battery charger Make : ELECTRICAL INDUSTRIES Sr no: 3239-12-2018 Make : ELECTRICAL INDUSTRIES Sr no: 3233-12-2018 | EDTS 163,Rev 'c' corg.-2&3 | 02 |
| 24. | Provision of 5KVA TFR Make : BHASIN SL.no : 11182919 | As Per EDTS-366,REV-NIL & CC-71510 | 01 |
| 25. | Provision of capacitor Bank Make : KONTACT SL.no : KT-527 | As per EDML-130 Rev-1,Corr-1 | 01 |
| 26. | 60KVA transformer Make : AUTOMATIC Sr no : 1/18/T 510483/8 | As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3 | 01 |
| 27. | Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES. | As per RDSO PE SPEC-0177-2013 REV-0 | 01 set |
| 28. | Feeder junction boxes. Make : SIDWAL | EDTS-328 REV-C | 01 set |
| 29. | Wheel set earthing equipment. Make : DARSHAN INTERPRISES | EDTS101,REV-C,AM-1 | 02 sets |
| 30. | Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 33/18/1285 | M/s : FAIVELEY | 01 set |
| 31. | PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGERATION | As per EDTS -139, Rev- E ,Sec II. | 01 |

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| SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता निबंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E/Elect-QC/M.C.F./LJ/RBL | AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL |