| | | |
|---|---|---|
| | **Modern Coach Factory Raebareli**<br>**आधुनिक रेल डिब्बा कारख़ाना, रायबरेली** | DOC NO.: MCF/RBL/QMF 8002<br>REV NO: 01<br>DATE: 17.04.2018 |

# ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/581

| RLY | C | R | - | Coach No. | 1 | 8 | 1 | 7 | 2 | 5 | / | C | DATE OF DISPATCH | 2 | 9 | - | 0 | 9 | - | 1 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| DISPATCH TO | Sr.DME(COG)/ BB | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 3 | 6 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

1. Railway Board's Order No. : **2018/M(C)/142/2 dated -14-09-2018**
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. | Underframe | Front Part | PP END | M/S- NECHD | 6/18 | | | |
| | | | NPP END | M/S- NECHD | 5/18 | | | |
| | | Complete | MCF/RBL | | 83136 | | | |
| 2. | Lav.side wall | | M/S- CONTRACTOR V4U | | LAV.1 | 467 | LAV.2 | 468 |
| | | | M/S- CONTRACTOR V4U | | LAV.3 | 469 | LAV.4 | 470 |
| 3. | Side wall | LH SIDE | M/S- CONTRACTOR V4U | | 118 | | | |
| | | RH SIDE | M/S- CONTRACTOR V4U | | 118 | | | |
| 4. | End wall | PP END | M/S - PD STEEL | | --- | | | |
| | | NPP END | M/S - PD STEEL | | 4/18 | | | |
| 5. | Roof | | M/s -DTL | | 60 | | | |
| 6. | Centre Buffer Coupler | | M/S - ESCORT | | PP END | 5571 | NPP END | 5469 |

## 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 –BERGER | SUPPLY & APPLY | 89/89 |
| 2. | Insulation | | Satisfactory | | |

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गुणवत्ता नियंत्रण
रे0डि0का0, रायबरेली (भारतीय)

SSE/QC/MCF/RBL

RCF/RBL

MCF/RBL

| MODERN COACH FACTORY, RAEBARELI<br>आधुनिक रेल डिब्बा कारख़ाना, रायबरेली | DOC NO.: MCF/RBL/QMF 8002<br>REV NO.: 01<br>DATE: 16.05.2016 |
|---|---|

# ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/581

| Coach No. | 1 | 8 | 1 | 7 | 2 | 5 | / | C | - | DATE OF DISPATCH | 2 | 8 | . | 0 | 9 | . | 1 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| RLY | C | R | | | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 3 | 6 | - | - | - | - | - | - | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

8. DETAIL OF BOGIES :

| ITEMS | NPP Side | | | | PP Side | | | |
|---|---|---|---|---|---|---|---|---|
| Bogie No | 181456 | | | | 181455 | | | |
| Bogie Type | LWACCN | | | | LWACCN | | | |
| Frame no. | ECBT-799 | | | | ECBT-717 | | | |
| Bolster no. | MCF/RBL-1294 | | | | MCF/RBL -1492 | | | |
| Axle No | 18F -8116 RWF | | 18 F-8850 RWF | | 18 F-8176 RWF | | 18 G– 3166RWF | |
| Wheel Dia | 917.591 | 917.684 | 917.527 | 917. 661 | 917.586 | 917.663 | 917.411 | 917.638 |
| Wheel Disc No | *TZ-07-18 33123-8QM2* | *TZ-07-18* 33124-8QM2 | *TZ-07-18* 34167-8RG2 | *TZ07-18* 32434-8QP2 | *TZ07-18* 32103-8QP0 | *TZ07-18 33125-8QM2* | *TZ07-18* 32100-8QP0 | *TZ07-18* 32435-8QP2 |
| R.B. Nos. | *05-18 25448* | 05-18 29688 | 05-18 17342 | 04-18 25963 | 04-18 24622 | *05-18 27218* | 04-18 25467 | 05-18 27217 |
| CT R B Make | SKF | | SKF | | SKF | | SKF | |

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. | RSK08-18-F16-S36-16Y-135 | CMFSK02-18-9513-383-57 | RSK08-18-F16-S34-16Y-265 | CMFSK07-18-9513-443-120 | RSK02-18F16-S03-16 | CMFSK02-18-9513-383-22 | RSK08-18-F16-S34-16Y-58 | CMFSK07-18-9513-443-173 |
| Compressed Ht. at Tested Load | 515 | 468 | 515 | 467 | 515 | 467.5 | 515 | 463.5 |
| Alignment deviation (mm) | 14 | 11 | 14 | 13 | 8 | 7 | 8 | 7 |

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## 10. TRACEABILITY OF BOGIE ITEMS:

| S. NO | ITEM | MAKE/ SUPPLIER | SERIAL NO. | |
|---|---|---|---|---|
| | | | NPP SIDE | PP SIDE |
| 1. | Yaw Damper | GEREP | 1828, 1727 | 1834,1734 |
| 2. | Primary outer Spring | RSK | 08-18 03Y- (1250,2117,1060,1068) | 08-18 03Y-2118,07-18-03Y-1838<br>08-18 03Y-1069,07-18 03Y-1241 |
| 3. | Primary Inner Spring | CMGBD | 07-18 143-82 (208,149,120,96) | 07-18 143-82(414,241,404,148) |
| 4. | Primary Damper | KNORR | 06-18 23618,05-18 20205,06-18(23873,23869) | 05-18(20195,20174),06-18 20182,05-18 23862 |
| 5. | Secondary Damper | KNORR | 07-18 (5685,5687) | 07-18 (5660,5692) |
| 6. | Lateral Damper | KNORR | 06-18 3785 | 06-18 3793 |
| 7. | Brake Cylinder | ESCORT | 44687,44426,44424,44686 | 44668,44442,44443,44670 |
| 8. | Brake Caliper | ESCORT | 24746,24607,24605,24745 | 24727,24623,24624,24729 |
| 9. | Brake Disc | FAV | 07-18(86,1443),08-18 1478, 07-18 1477-D133561-300 | 08-18(1463,1454,1462,1461,) D133561-300 |
| 10. | Ball Joint Control Arm | AR | | |
| 11. | Lateral Bump Stop | AR | | |
| 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 | WINLANE | | |
| 17. | Rubber Spring | AR | | |
| 18. | Anti roll bar make | SARITA | | |
| 19. | Roll Link make | SARITA/PRAG | | |
| 20. | Fork make | EMSON | | |
| 21. | Control Arm Upper | RVE | 030818-1,190818-3,200818-1,190818-3 | RVE,120818-2,170818-2,200818-1 |
| 22. | Control Arm Lower | RVE | RVE,170818-1,410818-1,140818-1 | 140818-2, 140818-1, 140818-1,160818-1 |

Signature of SSE/Bogie/QC

# Modern Coach Factory Raebareli

## आधुनिक रेल डिब्बा कारख़ाना, 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/2018-19/581

| RLY | C | R | - | Coach No. | 1 | 8 | 1 | 7 | 2 | 5 | / | C | DATE OF DISPATCH | 2 | 9 | - | 0 | 9 | - | 1 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| DISPATCH TO | Sr.DME(COG)/ BB | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 3 | 6 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

### 11. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|---|---|---|---|
| 1. | Air Brake Module | M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD | 2018070016 |
| 2. | Pull box | M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP) | |
| 3. | Distribution valve | M/S- ESCORTS LTD RAILWAY EQUIPMENT FBD | 1807A016 |
| 4. | Foot Step | M/s- HITECH INER AVENTUROS PVT. LTD. RBL | |
| 5. | Decoupling arrangement | M/s- ELASTOMER LINING WORKS. MUMBAI | |
| 6. | Floor board | M/s- J.W.P.L. INDUS. MUMBAI | |
| 7. | PVC | M/s- RESPONSIVE INDS. LTD. 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- COMPETENT ENG. | |
| 11. | Gangway bridge mounting (NPPE) | M/S- COMPETENT ENG. | |
| 12. | Body Side Window | M/S- BIRKAN ENGG.PVT.LTD.GAZIABAD | |
| 13. | Emergency Window | M/S- BIRKAN ENGG.PVT.LTD.GAZIABAD | |
| 14. | Lavatory/hopper Window | M/S- AIKON IND.SALON H.P | |
| 15. | Roof Ceiling | M/s- MOBILITY SOLUTION LTD. MOHALI | |
| 16. | Door way /gang way ceiling | M/S GANDHI SAFE & ALLIED INDUS. JALANDHAR | |
| 17. | Supply Air Duct | M/S AMIRCHAND ENGG.WORKS JALANDHAR | |
| 18. | Partition panel | M/S- RAIL TECH, KHX | |
| 19. | Partition pillar | M/S- JR INDS. JALANDHAR | |
| 20. | Side Wall panel | M/S HINDUSTAN FIBRE LTD VADODARA | |
| 21. | AC Trough | M/s -MEENA FIBER GLASS INDS. PUDUCHERY(PP) (NPPE) | |
| 22. | Body Side Door 1 | M/S- JVR INDUSTRIES ,LDH | |
| 23. | Body Side Door2,4 | M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG | |
| 24. | Body Side Door 3 | M/s- J.B.M. INDUSTRIES LTD.FARIDABAD | |
| 25. | Compartment Door (PPE) | M/s- KALSI FAB PVT. LTD. | |
| 26. | Compartment Door (NPPE) | M/s- KALSI FAB PVT. LTD. | |
| 27. | Vestibule Door(PPE) | M/s- J.B.M. INDUSTRIES LTD.FARIDABAD | |
| 28. | Vestibule Door(NPPE) | M/s- J.B.M. INDUSTRIES LTD.FARIDABAD | |
| 29. | Bio Tank | M/s- FLASH FORGE(P) LTD. VIZAG | |
| 30. | Auxiliary Water Tank | M/s- MANOJ ENGINEERING, MOHALI | |
| 31. | Under Slung Water Tank ( 2X685L) | M/s- SHIVALIC FASTNERS PVT.LTD. MOHALI | |
| 32. | Under Slung Water Tank (1x450 L) | M/s- AMIT ENGG, MOHALI | |
| 33. | Flexible Faucet | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI | |
| 34. | Lotah Filler Tap | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI | |
| 35. | Bib cock | M/s- KPR INDUSTRIES LTD. MOHALI | |
| 36. | Lavatory Modoules | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI | |
| 37. | Lavatory Doors | M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI | |
| 38. | Fire Extinguisher | M/s- NAAZ ENG. WORK FIRE (NPPE) | NPP-297,PP-300 |
| 39. | Seat & Berth | M/S ANANYA RCC IND. LLJ/RBL | |
| 40. | Light Luggage Rack | M/S- TECHNO IND. ALD | |
| 41. | Snack Table | M/s- MACHINO PLASTIES LTD. GURGAON | |

SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे0डि0का0, रायबरेली (लालगंज)

RCF/RBL

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|---|---|---|
| **Modern Coach Factory Raebareli**<br>**आधुनिक रेल डिब्बा कारख़ाना, रायबरेली** | DOC NO.: MCF/RBL/QMF 8002<br>REV NO: 01<br>DATE: 17.04.2018 | |

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/581

| RLY | C | R | - | Coach No. | 1 | 8 | 1 | 7 | 2 | 5 | / | C | DATE OF DISPATCH | 2 | 9 | - | 0 | 9 | - | 1 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| DISPATCH TO | Sr.DME(COG)/ BB | Type | L | W | A | C | C | N | Shell No. | 8 | 3 | 1 | 3 | 6 | - | 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 Frequency | REFERENCE & PERIOD OF TRIAL |
|---|---|---|---|---|
| | | | | |

**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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from 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 | AME/QC/MCF/RBL | Dy.CQM/MCF/RBL |

RCF/RBL

37-978

MCF/RBL

| Modern Coach Factory Raebareli<br>आधुनिक रेल डिब्बा कारख़ाना, रायबरेली | DOC NO.: MCF/RBL/QEF/8001<br>REV NO: 00<br>DATE:18.01.2017 |
|---|---|



## 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** | **181725/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 PREACTICE 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 | **20.10** Cub mtr/min | OK |
| 3.2 | Return Air | **52.48** Cub mtr/min | OK |
| 3.3 | Exhaust Air | **7.26** Cub mtr/min | OK |
| 3.4 | Conditioned Air | **161.84** Cub mtr/min | OK |
| 4.0 | **PRE COOLING TEST: Max 01 hr.**<br>Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition<br><br>PP Side :**22.1 $^0$C** NPP Side :**21.8 $^0$C** | | OK |
| 5.0 | **PULL DOWN TEST: Max 02 hrs.**<br>Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.<br><br>Not done | | OK |

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

## 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 |

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

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.<br>Make : **AMIT ENGG.**<br>Sr no of RMPU (NPP side): **2883-H**<br>Sr no of RMPU (PP side) : **2881-H**<br>Sr no of Microprocessor: **AE-18.07.807** | As per rdso/pe/spes/ac/0061/rev-1/2005 | **02** |
| 02. | Switch board cabinet<br>Make : **ABROL**<br>Sr no : **224-08/2018** | RDSO/PE/SPEC/AC/0184-2015 REV-0 | **01** |
| 03. | Pump equipment with PLC controller & pump box Make : **DR AUTO**<br>Sr no PA : **2018/09/03**<br>Sr no.1 : **18060306**<br>Sr no.2 : **18060276**<br>Sr no.CPA : **2018/09/018** | 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 :**ECOFIT** | EDTS331, TYPE-1 CORR.-1&2 | **02** |
| 05. | Door way/Gangway Light<br>Make : **DR AUTO** | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N | **07** |
| 06. | Provision of Passenger area light(Cabin)<br>Make: **DR AUTO** | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L | **09** |
| 07. | Corridor Light with Night light<br>Make: **DR AUTO** | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M | **09** |
| 08. | Emergency light system for EOG type coaches (AEL) Make : **VGS** | EDTS 151,Rev –c Am-1 & 2 | **04** |
| 09. | Lavatory light fitting assly<br>Make : **ARHAM** | LW 76001,Alt nil | **04** |
| 10. | Toilet indication (WC) light,<br>Make: **AGASTYA** | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 | **04** |
| 11. | Passenger alarm coach indication light<br>Make : **DR AUTO** | LW 76005,Alt-e | **02** |

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

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|---|---|---|---|
| 12. | Razor socket for WC 110/240V.<br>Make : **SSK** | EDML 047,Rev nil | **04** |
| 13. | Terminal strip<br>Make :**WAGO** | EDML 034,Rev-a | **01** |
| 14. | Terminal connector<br>Make :**WAGO** | EDML 037,Rev`a' | **04** |
| 15. | Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame<br>Make : **SSK** | EDML 0,64,Rev-B, Item 04. | **09** |
| 16. | Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame<br>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<br>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.<br>Make :**AMARA RAJA** Lug date :**05/18** | EDTS 129,Rev nil | **01 set** |
| 20. | Battery box for LHB coaches.<br>Make : **ANKUR ENGG.** | 1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27. | **01** |
| 21. | Battery fuse box +ve<br>Make : **INTEG** | As per LW 71001,Alt-F | **01** |
| 22. | Battery fuse box –ve<br>Make : **INTEG** | As per LW 71002,Alt-F | **01** |

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

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|---|---|---|---|
| 23. | Emergency battery charger<br>Make :**WAVES** Sr no: **WEBCF-184484**<br>Make :**WAVES** Sr no: **WEBCF-184497** | EDTS 163,Rev `c' corg.-2&3 | **02** |
| 24. | Provision of 5KVA TFR<br>Make : **VIMAL**<br>SL.no : **VTC-3089-LHB-201** | As Per EDTS-366,REV-NIL & CC-71510 | **01** |
| 25. | Provision of capacitor Bank<br>Make :**STANDARD CAPACITORS**<br>SL.no : **17C-439** | As per EDML-130 Rev-1,Corr-1 | **01** |
| 26. | 60KVA transformer<br>Make : **VIMAL**<br>SL.no : **VTC-3089-LHB-4641** | As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3 | **01** |
| 27. | Inter Vehicle (ZS)coupler<br>Make: **PRIME ELECT.** | As per RDSO PE SPEC-0177-2013 REV-0 | **01 set** |
| 28. | Feeder junction boxes.<br>Make : **ISG** | EDTS-328 REV-C | **01 set** |
| 29. | Wheel set earthling equipment.<br>Make : **MAA LAXMI INDUSTRIES** | EDTS101,REV-C,AM-1 | **02 sets** |
| 30. | Wheel Slide Protection System (WSP)<br>Make :**ESCORT**<br>Sr no :**18055-59399-0030** | M/s : **ESCORT** | **01 set** |
| 31. | PANTRY EQUIPMENTS :<br>Hot Case & Bottle cooler cum deep freezer<br>Make : NIL | As per EDTS -139, Rev- E ,Sec II. | **01** |

| | |
|---|---|
| **SSE/EL/QC** | **SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL** |

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