



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/409

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|------|---|---|---|---|------------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coach No. | | 1 | 7 | 0 | 9 | 2 | / | C | - | DATE OF DISPATCH | | | | | 0 | 9 | - | 1 | 2 | - | 1 | 7 | | | |
| RLY | N | C | R | - | Type | L | W | A | C | C | W | Shell No. | 7 | 2 | 0 | 3 | 2 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

- Railway Board's Order No. : 2017/M(C)/142/2 Dated- 21.08.17
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (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 | 4039 |
| 4. | CBC height/Buffer height from Rail level 1105 +0/-10 | 1) 1097 (NPPE) 2) 1095 (PPE) |

5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|-----------------------|---------------------------------------|----------------------------|
| 1. | Under frame | Front Part M/S Neera chandigarh | PP END 218 NPP END 219 |
| | Complete | M/s MCF/RBL | |
| 2. | Side wall | M/s MCF/RBL | RH 72032 LH 72032 |
| 3. | End wall | PP END M/S Neera chandigarh | PP END 72032 NPP END 72032 |
| | | NPP END M/S Neera chandigarh | |
| 4. | Roof | M/s MCF/RBL | |
| 5. | Centre Buffer Coupler | M/S Escorts ltd railway equipment FBD | PP END 1096 NPP END 1107 |
| 6. | Buffers | N.A. | |

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/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied | 6 – 10 sec. 3.0 ± 0.15 kg/cm ² . OK | 08 sec. 3.0 kg/cm ² OK |
| 2. | Insensitivity | ➤ Exhaust BP @ 0.3 kg/cm ² /min. | No brake application | OK |
| 3. | Sensitivity | ➤ Exhaust BP @ 0.1 kg/cm ² /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 | 91/89 |
| 2. | Insulation | | | Satisfactory | |

SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 रेडिओ, रायबरेली (लागज)



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|----------|---|---|---|---|------|---|---|---|------------------|---|---|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COACH.NO | 1 | 7 | 0 | 9 | 2 | / | C | - | DATE OF DISPATCH | | | | | | | 0 | 9 | - | 1 | 2 | - | 1 | 7 | | |
| RLY | N | C | R | | TYPE | L | W | A | C | C | W | SHELL. NO. | 7 | 2 | 0 | 3 | 2 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

8. DETAIL OF BOGIES :

| ITEMS | NPP Side | | | | PP Side | | | |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Bogie No | 170520 | | | | 170519 | | | |
| Bogie Type | FIAT | | | | FIAT | | | |
| Frame no. | RBL-495 | | | | RBL-420 | | | |
| Bolster no. | RBL/SCI-65 | | | | SFPL-251 | | | |
| Axle No | V-2089 | | V-2377 | | V-2373 | | V-1153 | |
| Wheel Dia | 917.560 | 917.635 | 917.547 | 917.610 | 917.580 | 917.633 | 917.530 | 917.564 |
| Wheel Disc No | VR10-16 00023-7274 | VR09-16 00067-6185 | VR09-16 00169-6185 | VR10-16 00153-7321 | VR10-16 00034-7257 | VR10-16 00195-7257 | VR10-16 00093-7257 | VR10-16 00004-7257 |
| R.B. Nos. | 05-16 62312 | 05-16 96982 | 05-16 99759 | 05-17 96973 | 10-16 81607 | 05-16 99961 | 02-16 81140 | 05-16 99962 |
| 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. | CMRSK-F18-4702 | CMRSK-F19-632 | CMRSK-F18-409-4702 | CMRSK-F19-270 | CMRSK-11-15-F18R59 | CMRSK-03-16-F19R68 | CMRSK-03-1F18R | CMRSK-03-16-F19R68 |
| Compressed Ht. at Tested Load | 509 | 467 | 510 | 466 | 510 | 466 | 511 | 468 |
| Alignment deviation (mm) | 11 | 36 | 10 | 35 | 12 | 29 | 12 | 27 |

10. TRACEABILITY OF BOGIE ITEMS:

| S. NO | ITEM | MAKE | SERIAL NO. | |
|-------|----------------------------|-------------|---|---|
| | | | NPP SIDE | PP SIDE |
| 1. | Yaw Damper | GEREP | 445,433 | 231,246 |
| 2. | Primary outer Spring | RSK | 03WA(1888,1685,2236,2124) | 03WA,1853,03WA,03 |
| 3. | Primary Inner Spring | RSK | (2470,2491,2467,2480)1702 | 1702(466,288,385,2295) |
| 4. | Primary Damper | KNORR | 05-17(7271,7272,7295,7281) | 05-17(7288,7292,7290,7287) |
| 5. | Secondary Damper | KONI | 42-2016(10245,10234) | 42-2016(10165,10278) |
| 6. | Lateral Damper | KONI/KNORR | 42-2016-5936 | 11-16 0572 |
| 7. | Brake Cylinder | KBI | 6899-K-29,6800-K-29,6801-K-29,6898-K-29, | 6807-K-29,6699-K-29,6700-K-29, 6804-K-29, |
| 8. | Brake Caliper | KBI | 6184-29,6289-29,6290-29, 6183-29, | 6076-29, 6188-29,6187-29,6075-29, |
| 9. | Brake Disc | FAV | D133561-300-03-17-1372, D133561-300-03-17-1367, D133561-300-02-17-421, D133561-300-02-17-422, | D133561-300-04-17-1618, D133561-300-04-17-1623, D133561-300-04-17-1510, D133561-300-04-17-1525, |
| 10 | Ball Joint Control Arm | GMT | | |
| 11 | Lateral Bump Stop | GMT | | |
| 12 | Traction Centre make | SARITA | | |
| 13 | Traction lever make | SARITA | | |
| 14 | Bail joint traction lever | GMT | | |
| 15 | Ball joint traction centre | GMT | | |
| 16 | Secondary Rubber Pad | TECSPAK | | |
| 17 | Rubber Spring | GMT | | |
| 18 | Anti roll bar make | EMSON | | |
| 19 | Roll Link make | SARITA/ GMT | | |
| 20 | Fork make | SARITA | | |

Resunder

Signature of SSE/QC/Bogie





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| Coach No. | | 1 | 7 | 0 | 9 | 2 | / | C | - | DATE OF DISPATCH | | | | | | 0 | 9 | - | 1 | 2 | - | 1 | 7 | | |
| RLY | N | C | R | - | Type | L | W | A | C | C | W | Shell No. | 7 | 2 | 0 | 3 | 2 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

11. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|----------------------------------|---|--------------------|
| 1. | Air Brake Module | M/s KBI Faridabad. New Delhi | PASS17J2625 |
| 2. | Distribution valve | M/s KBI Faridabad. New Delhi | 2017H3582 |
| 3. | Pull box | M/s KBI Faridabad. New Delhi | |
| 4. | Foot Step | M/s Super Spark Pvt. Ltd. Faridabad | |
| 5. | D-coupling arrangement | M/s Kohinoor Industries, Jalandhar | |
| 6. | Floor board | M/s Narbada forest ind. bhopal | |
| 7. | PVC | M/s Premier polyfilm, New Delhi | |
| 8. | UIC Vestibule (PPE) | M/s Cemcon ind.DLI | |
| 9. | UIC Vestibule (NPPE) | M/s Cemcon ind.DLI | |
| 10. | Gangway bridge mounting (PPE) | M/s Mahaveer metal works KXH | |
| 11. | Gangway bridge mounting (NPPE) | M/s Mahaveer metal works KXH | |
| 12. | Body Side Window | M/s Rail Tech KXH | |
| 13. | Emergency Window | M/s Rail Tech KXH | |
| 14. | Hopper Window | M/s Rail Tech KXH | |
| 15. | Roof Ceiling | M/s KAE Eng.pvt.ltd.esipl U K | |
| 16. | Door way /gang way ceiling | M/s Gandhi safe & applied Jalandhar | |
| 17. | Supply Air Duct | M/s Gandhi Enterprises Jalandhar | |
| 18. | Partition panel | M/s Coach line ind.KXH | |
| 19. | Partition pillar | M/S Zaam Tools RBL | |
| 20. | Side Wall panel | M/s KAE Eng.pvt.ltd. uttarakhand | |
| 21. | AC Trough | M/s Geepee gurgaon HR | |
| 22. | Body Side Doors 1,3 | M/s JBM faridabad | |
| 23. | Body Side Doors 2,4 | M/s Sukata CDG | |
| 24. | Compartment Door (PPE) | M/s Kalsi LDH | |
| 25. | Compartment Door (NPPE) | M/s Kalsi LDH | |
| 26. | Vestibule Door(PPE) | M/s Hanspal coach products KXH | |
| 27. | Vestibule Door(NPPE) | M/s Hanspal coach products KXH | |
| 28. | Bio Tank 1,2,3 | M/s Rail Tech KXH | |
| 29. | Bio Tank 4 | M/s Rail FAB KXH | |
| 30. | Auxiliary Water Tank | M/s Amit Engg. Mohali | |
| 31. | Under Slung Water Tank(1x450 L) | M/s Amit Engg. baddi | |
| 32. | Under Slung Water Tank (2X685L) | M/s Amit Engg. Mohali | |
| 33. | Flexible Faucet | M/s Hindustan Fiber Glass Vadodra (Gujarat) | |
| 34. | Lotah Filler Tap | M/s Metco Delhi | |
| 35. | Bib cock | M/s jaquar pvt.ltd.alwar rajasthan | |
| 36. | Lavatory Modules 1,4 | M/s Hindustan Fiber Glass Vadodra (Gujarat) | |
| 37. | Lavatory Modules 2,3 | M/s CMT mechanised sys. Vadodra (Gujarat) | |
| 38. | Lavatory Doors | M/s Hindustan Fiber Glass Vadodra (Gujarat) | |
| 39. | Waste Bin Arrangement1,4 | M/s Hindustan Fiber Glass Vadodra (Gujarat) | |
| 40. | Waste Bin Arrangement 2,3 | M/s CMT mechanised sys. Vadodra (Gujarat) | |
| 41. | Fire Extinguisher | M/s Power Agnee new delhi | PP-43747,NPP-43736 |
| 42. | Seat & Berth | M/s Oriental veneer Products Ltd Mumbai | |
| 43. | Light Luggage Rack | M/s Techno Industries Allahabad | |
| 44. | Snack Table | M/s- International tractors ltd. Hoshiarpur | |

SSE/QC/MCF/RBL

रायबरेली विभाग

आधुनिक रेल डिब्बा कारखाना, रायबरेली (उत्तर प्रदेश)





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|-----------|---|---|---|---|------|---|---|---|---|------------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coach No. | | 1 | 7 | 0 | 9 | 2 | / | C | - | DATE OF DISPATCH | | | | | 0 | 9 | - | 1 | 2 | - | 1 | 7 | | | |
| RLY | N | C | R | - | Type | L | W | A | C | C | W | Shell No. | 7 | 2 | 0 | 3 | 2 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |

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 etc. (items which are consumable in nature) | NIL |
| 2 | Other coach furnishing sub assemblies(bought out items) | 24 months date of dispatch of coach or 30 months from 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.

| | | |
|--|--|---|
| Assistant Mechanical Engineer/Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली SSE/QC/MCF/RBL | Assistant Mechanical Engineer/Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली AME/QC/MCF/RBL | Dy. CQM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Dy. CQM/MCF/RBL |
|--|--|---|

आधुनिक रेल डिब्बा कारखाना, रायबरेली (हालांज)



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

| ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES | | | | |
|--|---|--------------------|------------------|---------|
| TYPE COACH | | LWACCW | SHELL/COACH NO | 17092/C |
| RAILWAY | | NC | 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 | 29.94 Cub mtr/min | | OK |
| 3.2 | Return Air | 62.23 Cub mtr/min | | OK |
| 3.3 | Exhaust Air | 6.96 Cub mtr/min | | OK |
| 3.4 | Conditioned Air | 204.62 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. Not done due to ambient temp. below 22°C | | | OK |
| 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. Not done due to ambient temp. below 22°C | | | OK |

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T 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 | BERTH READING LIGHTS | OK |
| 11.0 | COMPARTMENT LIGHT | OK |
| 12.0 | PUBLIC ADDRESSING SYSTEM (PAS) | OK |
| 13.0 | WHEEL SLIDE PROTECTION SYSTEM (WSP) | OK |
| 14.0 | WORKING OF 60KVA TRANSFORMER | OK |
| 15.0 | WORKING OF REGULATED BATTERY CHARGER | OK |
| 16.0 | WORKING OF EMERGENCY BATTERY CHARGER | OK |
| 17.0 | SAFETIES : | |
| 17.1 | THERMOSTAT : | OK |
| 17.2 | ROTARY 07 SET POINTS (NORMAL CONDITION) | OK |
| 17.3 | MID SET POINTS (SENSORS FAILED CONDITIONS) | OK |
| 17.4 | HYGROSTAT | OK |
| 17.5 | CONTROL CIRCUIT | OK |
| 17.6 | POWER CIRCUIT | OK |
| 18.0 | REFRIGERANT USED R 407C | OK |

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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|--|--|--------------------|
| 01. | Roof Mounted AC package unit for LHB AC coaches Make : SSK Sr no of RMPU 1(NPP side): 495 Sr no of RMPU 2 (PP side): 410 Sr no of Microprocessor: AE-17.10.214 | As per rdso/pe/spes/ac/0061/rev-1/2005 | 02 |
| 02. | Switch board cabinet Make : AECO Sr no : 124-10/2017 | As per spec no .EDTS073,REV-D,AM-6 | 01 |
| 03. | Pump equipment with PLC controller & pump box Make : KIND Sr no PA : 09/17-0045 Sr no.1 : 17090399 Sr no.2 : 17090400 Srno.CPA: 17090069 | As per spec EDTS 186,Rev-a, Am-2 | 01 |
| 04. | Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : EYANI | EDTS331, TYPE-1 CORR.-1&2 | 02 |
| 05. | Passenger area Light(Cabin) Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L | 09 |
| 06. | Corridor Light with Night light Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M | 09 |
| 07. | Doorway/Gangway light, Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N | 06 |
| 08. | Emergency light system for EOG type coaches (AEL) Make : INTRA | EDTS 151,Rev -c Am-1 & 2 | 04 |
| 09. | Lavatory light fitting assly Make : NIL | LW 76001,Alt nil | 04 |
| 10. | Toilet indication (WC) light, Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 | 04 |


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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|---|--------------------|
| 11. | Reading light for longitudinal berth (LHS) Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 | 9 |
| 12. | Reading light for upper berth Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2 | 26 |
| 13. | Reading light for transverse berth (RHS) Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 | 8 |
| 14. | Reading light for berth transverse (LHS) Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 | 9 |
| 15. | Passenger alarm coach indication light Make : DR AUTO | LW 76005,Alt-e | 02 |
| 16. | Razor socket for WC 110/240V. Make : SSK | EDML 047 ,Rev nil | 04 |
| 17. | Terminal strip Make : WAGO | EDML 033,Rev-c | 01 |
| 18. | Terminal connector Make : WAGO | EDML 037,Rev`a` | 04 |
| 19. | Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK | EDML 047,Rev_C, Item 1. | 09 |
| 20. | Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK | EDML 047,Rev_A ,Item 2. | 09 |
| 21. | 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 |
| 22. | PA system for LHB coaches Make : AHUJA | EDTS 173 Rev- a Am-1,2&3 | 01 set |


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| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|---|--------------------|
| 23. | 70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 05/2017 | EDTS 129,Rev nil | 01 set |
| 24. | Battery box for LHB coaches. Make : TECHNO | As per drgno 1 10113 0 76 700 005,Alt C | 01 |
| 25. | Battery fuse box +ve Make : AECO | LW 71001,Alt-F | 01 |
| 26. | Battery fuse box -ve Make : INDO | LW 71002,Alt-F | 01 |
| 27. | Emergency battery charger Make : M.B COMP. Sr no: 2017/09/360 Make : M.B COMP Sr no: 2017/09/319 | EDTS 163,Rev `c' corg.-2&3 | 02 |
| 28. | 5KVA Transformer Make : VIMAL SL.no : VTC-3089-LHB-129 | As Per EDTS-366,REV-NIL & CC-71510 | 01 |
| 29. | Capacitor Bank Make : STANDERD CAPACITORS SL.no : 17 A 391 | As per EDML-130 Rev-1,Corr-1 | 01 |
| 30. | 60KVA transformer Make : AUTOMATIC Sr no : 4/17/T 116503/159 | As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3 | 01 |
| 31. | ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECTRONICS | As per spec No EDTS 105,Rev`e' Am-2 | 02 sets |
| 32. | Feeder junction boxes. Make : NEC | EDTS-328 REV-C | 02 |
| 33. | Wheel set earthing equipment. Make : C & C,S.INTERNATIONAL | EDTS101,REV-C,AM-1 | 02 |
| 34. | Wheel Slide Protection System (WSP) Make : KNOOR Sr no : 0117203443 | M/s : KNORR | 01 set |
| 35. | PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : SUPER REFRIGERATION | As per spec no EDTS 139, Rev- E ,Sec II. | 01 |

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

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