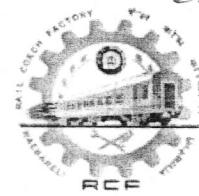




रेल डिब्बा कारखाना, रायबरेली

RAIL COACH FACTORY, RAEBARELI



FORM NO: RCF/RBL/QMF 8001
VERSION: 2012-01-01

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 07/06/2014

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL | L | W | A | C | C | N | 3 | 0 | 5 | 0 | / | 2 | 0 | 1 | 3 | DATE OF DISPATCH | 0 | 4 | 0 | 3 | 2 | 0 | 1 | 4 |
| RLY | S | R | Type | L | W | A | C | C | N | Coach No. | 1 | 3 | 1 | 5 | 0 | / | C | | | | | | | |

- Railway Board's Order No : 2013/M(C)/142/3 dated 27.12.2013
- Tare Weight of Coach : 45.6 Tonnes
- 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/-15 | 1) 1102 (NPPE) 2) 1103 (PPE) |

5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|-----------------------|---------------|------------------------|
| 1. | Buffers | N.A. | |
| 2. | Centre Buffer Coupler | M/s ESCORTS | PP END --- NPP END --- |

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 | 10sec. 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 02 Sec. | Brake must apply | OK |

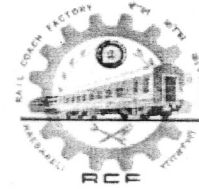
7. PAINTING DETAILS:

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE | AVERAGE GLOSS VALUE |
|------|-------------|---------------|------------|---------------------|
| 1. | Paint | P.U. | AKZO NOBEL | 93.36/95.02 |
| 2. | Insulation | Satisfactory | | |



रेल डिब्बा कारखाना, रायबरेली

RAIL COACH FACTORY, RAEBARELI



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VERSION: 2012-01-01

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 07/06/2014

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL | L | W | A | C | C | N | 3 | 0 | 5 | 0 | / | 2 | 0 | 1 | 3 | DATE OF DISPATCH | 0 | 4 | 0 | 3 | 2 | 0 | 1 | 4 |
| RLY | S | R | Type | L | W | A | C | C | N | Coach No. | 1 | 3 | 1 | 5 | 0 | / | C | | | | | | | |

8. DETAIL OF BOGIES :

| ITEMS | PP SIDE | | | | NPP SIDE | | | |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Bogie No | 136983 136945 | | | | 13982 136982 | | | |
| Bogie Type | Fiat | | | | Fiat | | | |
| Axle No | T-2347 | | R-2155 | | R-3250 | | G-8617 | |
| Wheel Dia | 918.00 | 918.00 | 917.80 | 918.00 | 917.50 | 918.00 | 918.00 | 918.00 |
| Wheel Disc No | 041-51281/ZB13 | 052-51919/ZB13 | 138-51919/ZB13 | 255-51919/ZB13 | 092-55757/ZB13 | 228-51919/ZB13 | 197-51777/ZB13 | 125-48028/ZB13 |
| R.B. Nos. | 03268 | 03217 | 02757 | 02556 | 03057 | 02632 | 02872 | 02780 |
| CT R B Make | TIM | | TIM | | TIM | | TIM | |

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

| DESCRIPTION | BOGIE PP SIDE | | | | BOGIE NPP SIDE | | | |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | SECONDARY 1 | | SECONDARY 2 | | SECONDARY 1 | | SECONDARY 2 | |
| | OUTER | INNER | OUTER | INNER | OUTER | INNER | OUTER | INNER |
| Make & Nos. | CMGBD1 1-12-54 | CMGBD1 1-12-82 | CMGBD1 1-12-20 | CMGBD1 1-12-90 | CMGBD1 1-12-52 | CMGBD1 1-12-38 | CMGBD1 1-12-11 | CMGBD1 1-12-116 |
| Compressed Ht. at Tested Load | 512 | 464 | 510 | 468 | 511 | 464 | 514 | 466 |
| Alignment deviation (mm) | 9 | 23 | 8 | 24 | 12 | 35 | 10 | 29 |

10. TRACEABILITY OF BOGIE ITEMS:

| S NO | ITEM | SERIAL NO | | MAKE |
|------|---------------------------|---------------------------------|---------------------------------|----------|
| | | PP SIDE | NPP SIDE | |
| 1. | Primary outer Spring | CMGBD-11-12 | CMGBD-11-12 | CMGBD |
| 2. | Primary Inner Spring | CMGBD-10-12 | CMGBD-10-12 | CMGBD |
| 3. | Primary Damper | | | KONI |
| 4. | Secondary Damper | | | SACHS |
| 5. | Lateral Damper | | | GEREP |
| 6. | Yaw Damper | | | SV SOCKS |
| 7. | Brake Cylinder & Caliper | 026K370,040K370,019K370,035K370 | 017K370,039K370,018K370,038K370 | KBI |
| 8. | Brake Disc | | | KBI |
| 9. | Ball Joint Control Arm | | | SGA |
| 10. | Lateral Bump Stop | | | GMT |
| 11. | Ball Joint Traction Lever | | | SGA |
| 12. | Traction Centre Elastic | | | SGA |
| 13. | Secondary Rubber Pad | | | TECSPAK |
| 14. | Rubber Spring | | | GMT |
| 15. | Ball Joint Roll Link | | | JVR |



रेल डिब्बा कारखाना, रायबरेली

RAIL COACH FACTORY, RAEBARELI



FORM NO: RCF/RBL/QMF 8001
VERSION: 2012-01-01

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 07/06/2014

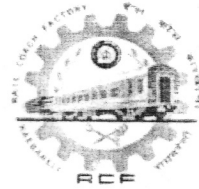
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|-------|---|---|------|---|---|---|---|---|---|-----------|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL | L | W | A | C | C | N | 3 | 0 | 5 | 0 | / | 2 | 0 | 1 | 3 | DATE OF DISPATCH | 0 | 4 | 0 | 3 | 2 | 0 | 1 | 4 |
| RLY | S | R | Type | L | W | A | C | C | N | Coach No. | 1 | 3 | 1 | 5 | 0 | / | C | | | | | | | |

11. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|---------------------------------|---|-----------|
| 1. | Air Brake Module | M/s KBI, Faridabad, New Delhi | 13L 0487 |
| 2. | Pull box | M/s KBI, Faridabad, New Delhi | |
| 3. | DV | M/s KBI, Faridabad, New Delhi | 2013L0921 |
| 4. | PVC | M/s Responsive, Colaba, Mumbai | |
| 5. | UIC Vestibule (PPE) | M/s SUNCREST Kolkata | |
| 6. | UIC Vestibule (NPPE) | M/s SUNCREST Kolkata | |
| 7. | Foot Step | M/s JVR Ludhiana | |
| 8. | Decoupling arrangement | M/s SECO | |
| 9. | Body Side Window | M/s AIKON Tech.Pvt.Ltd Solan HP | |
| 10. | Emergency Window | M/s AIKON Tech.Pvt.Ltd Solan HP | |
| 11. | Lavatory Window | M/s AIKON Tech.Pvt.Ltd Solan HP | |
| 12. | Roof Ceiling | M/s Hindustan Fibre Ltd. Vadodra (Gujrat) | |
| 13. | Non-AC Area Ceiling | M/s Rail Experts Jalandhar | |
| 14. | Supply Air Duct | M/s Hanspal coach products kapurthala | |
| 15. | Body Side Doors | M/s JVR Ludhiana | |
| 16. | Compartment Door (PPE) | M/s Rail Tech,KXH | |
| 17. | Compartment Door (NPPE) | M/s Rail Tech,KXH | |
| 18. | Vestibule Door(PPE) | M/s JBM Faridabad | |
| 19. | Vestibule Door(NPPE) | M/s JBM Faridabad | |
| 20. | CDTS | M/s Darsan Enterprises ,New Delhi | |
| 21. | Auxiliary Water Tank | M/s Amit Engg, Mohali Punjab | |
| 22. | Under Slung Water Tank(450 L) | M/s Shivalik Fasteners, Mohali Punjab | |
| 23. | Under Slung Water Tank(2X685L) | M/s Shivalik Fasteners, Mohali Punjab | |
| 24. | Flexible Faucet | M/s Hindustan Fastenrs Ltd. Vadodra (Gujrat) | |
| 25. | Lotah Filler Tap | M/s Metco (New Delhi) | |
| 26. | Lavatory Modoules | M/s Hindustan Fibre Ltd. Vadodra (Gujrat) | |
| 27. | Lavatory Doors | M/s Hindustan Fibre Ltd. Vadodra (Gujrat) | |
| 28. | Waste Bin Arrangement | M/s Hindustan Fibre Ltd. Vadodra (Gujrat) | |
| 29. | Fire Extinguisher | M/s Hindustan Fibre Ltd. Vadodra (Gujrat) | |
| 30. | Side Wall panel | M/s Hindustan Fibre Glass Ltd. Vadodra (Gujrat) | |
| 31. | Seat & Berth | M/s Aarkay Foames Mohali | |
| 32. | Light Luggage Rack | M/s Virendra Steel Enterprises Chandigarh | |
| 33. | Snack Table | M/s International Tractor Ltd Hoshiarpur | |



रेल डिब्बा कारखाना, रायबरेली RAIL COACH FACTORY, RAEBARELI



FORM NO: RCF/RBL/QMF 8001
VERSION: 2012-01-01

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 07/06/2014

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|------|---|---|---|---|---|---|---|-----------|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| SHELL | L | W | A | C | C | N | 3 | 0 | 5 | 0 | / | 2 | 0 | 1 | 3 | DATE OF DISPATCH | 0 | 4 | 0 | 3 | 2 | 0 | 1 | 4 |
| RLY | S | R | Type | L | W | A | C | C | N | | Coach No. | 1 | 3 | 1 | 5 | 0 | / | C | | | | | | |

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 blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs 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 falls 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 RCF/RBL.
- For any complain/ suggestion please contact at qualityrcfbl@gmail.com

DY CME
RCF/RBL

उप बू यो अति/फिर
RCF/RBL(LLJ)
रे. डि.क. रायबरेली (कालगंज)

SSE/QC
RCF/RBL
सीनियर सेक्शन इंजीनियर (क्वालिटी कंट्रोल)
रेल डिब्बा कारखाना, रायबरेली
Sr Section Engineer (Quality Control)
Rail Coach Factory, Raebareli(Lalganj)

RAIL COACH FACTORY, KAPURTHALA

L3T-86

Form No. : QMF 9454; Version: 03

Page : 2 of 4

Date: 17-10-2013

Shell No.:- RCF/RBL

| | | | | | |
|-----|--|------|-------|-----------|--|
| RLY | | Type | LACCN | Coach No. | |
|-----|--|------|-------|-----------|--|

6.0 Wheel & Axle details:

| Items | PP Side | | | | Non PP Side | | | |
|----------------|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Bogie No. | 136944 | | | | 136945 | | | |
| Frame No. | FIAT-2632 | | | | FIAT-2639 | | | |
| Bolster No. | 3342-VT | | | | 3344-VT | | | |
| Axle No. | S-6432 | | G-7617 | | H-3353 | | T-2936 | |
| Wheel Diameter | 918.00 | 918.00 | 918.00 | 918.00 | 918.00 | 918.00 | 918.00 | 918.00 |
| Wheel Disc No. | 056-55757/ ZB13 | 157-50846/ ZB13 | 154-50843/ ZB13 | 122-46889/ ZB13 | 143-51781/ ZB13 | 209-48028/ ZB13 | 018-46889/ ZB13 | 191-50842/ ZB13 |
| R.B. Nos. | 02767 | 03269 | 02885 | 25634 | 03072 | 02721 | 03040 | 02905 |
| R. B. Make | TIM | | TIM | | TIM | | TIM | |
| RB Type | CARTRIDGE TAPER ROLLER BEARING | | | | | | | |

6.1 Secondary suspension load deflection Values:

| Description | Bogie PP side | | | | Bogie NPP side | | | |
|-------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | |
| | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner |
| Make & nos. | CMGBD-10-12-37 | CMGBD-12-5-74 | CMGBD-10-12-39 | CMGBD-12-5-18 | CMGBD-10-12-41 | CMGBD-12-5-47 | CMGBD-10-12-28 | CMGBD-12-5-43 |
| Compressed ht. at tested load | 511 | 465 | 514 | 464 | 504 | 468 | 511 | 466 |
| Alignment deviation (mm) | 9 | 6 | 12 | 8 | 7 | 26 | 9 | 31 |

6.2 Component traceability:

| SNO | ITEM | PP Side Bogie | NPP side Bogie | Make |
|-----|--------------------------------|---------------|----------------|--------------|
| 1 | Primary Outer Spring batch no. | CMGBD-11-12 | CMGBD-11-12 | CMGBD |
| 2 | Primary inner Spring batch no | CMGBD-10-12 | CMGBD-10-12 | CMGBD |
| 3 | Primary Damper | | | SACHS |
| 4 | Secondary damper | | | SACHS |
| 5 | Lateral Damper | | | GEREP |
| 6 | Brake cylinder & Caliper | | | FTI |
| 7 | Brake Disc | | | GMT |
| 8 | Ball joint Control arm | | | GMT |
| 9 | Lateral Bump stop | | | EMSON |
| 10 | Traction center make | | | SARITA |
| 11 | Traction lever make | | | SGA |
| 12 | Ball joint traction lever | | | SGA |
| 13 | Ball joint Traction centre | | | TECSPAK |
| 14 | Secondary rubber pad | | | GMT |
| 15 | Rubber spring | | | SARITA,EMSON |
| 16 | Anti roll bar make | | | SGA |
| 17 | Roll link make | | | EMSON |
| 18 | Fork make | | | |

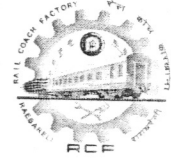
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R.C.F.

L3T-86



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(RAIL COACH FACTORY-RAEBARELI)**



RCF/RBL/QEF7001

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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 | 13150/C |
| RAILWAY | SR | 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 | 29.39 Cub mtr/min | OK |
| 3.2 | Return Air | 62.93 Cub mtr/min | OK |
| 3.3 | Exhaust Air | 5.50 Cub mtr/min | OK |
| 3.4 | Conditioned Air | 142.26 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 temperature below 22 deg 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 temperature below 22 deg C | | OK |

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Quality control / Electrical
RCF, Raebareli**



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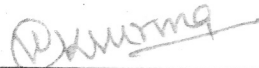
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FOR ELECTRICAL ITEMS

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 : | OK |
| 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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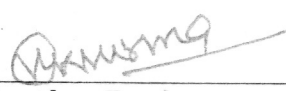
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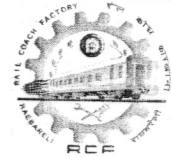
ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|--|--------------------|
| 01. | Roof mounted AC package unit for LHB AC coaches Make : INTEC Sr no of RMPU (NPP side) : 13-M-003 Sr no of RMPU (PP side) : 14-A-006 Sr no of Microprocessor. : AE-14-01-00052 | EDTS 075,Rev-c Col I. | 02 |
| 02. | Switch board cabinet Make: ISG Sr no : 0058-11/2013 | EDTS 073 ,Rev -d | 01 |
| 03. | Pump equipment with PLC controller & pump box Make: KIND Sr no: 050883 Sr no.1: 30505245 Sr no.2: 30505246 Pump controller Sr no. - 1305048 | EDTS 094,Rev`a` | 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 | Cat no D2D 133 -AB06-19 of EBM or equivalent approved | 02 |
| 05. | Vestibule Light Fitting Single | LW 76004,Alt-b | 07 |
| 06. | Ceiling light fitting DOUBLE w/o diffuser. | LW 76011,Alt -c | 09 |
| 07. | Ceiling light fitting with NL w/o diffuser w/o item 2&3 | LW 76013,Alt -c | 09 |
| 08. | Emergency light system for EOG type coaches (AEL) | EDTS 151,Rev-c | 04 |
| 09. | Lavatory light fitting assly | LW 76001,Alt nil | 04 |
| 10. | WC gauge signal light | LW 76006,Alt-c | 02 |


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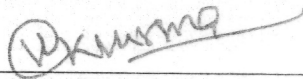
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|---|--------------------|
| 11. | Passenger alarm coach indication light | LW 76005,Alt-d | 02 |
| 12. | Fluorescent lamp 18W | RDSO/PE/SPEC/ D/TL 0011- 2000,Rev I, Sec- I, 07/2001 | 34 |
| 13. | Diffuser complete w/o item 18 & 2. | LW 76012,Alt-a | 25 |
| 14. | Razor socket for WC 110/240V. | EDML 047 ,Rev nil | 04 |
| 15. | Terminal strip | EDML 034,Rev-a | 01 |
| 16. | Terminal connector | EDML 037,Rev`a` | 04 |
| 17. | Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame | EDML 047,Rev nil, Item 1. | 09 |
| 18. | Single switch 16A/250V/AC ONE WAY complete with steel plate & cover frame | EDML 045,Rev nil ,Item 2. | 09 |
| 19. | PA system for LHB coaches Make : AHUJA | EDTS 173,Rev-a Am-1,2&3 | 01 set |
| 20. | 70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : A. RAJA Lug date : 05/2013 | EDTS 129,Rev nil | 01 set |
| 21. | Battery box for LHB coaches. | 1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27. | 01 |


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(RAIL COACH FACTORY-RAEBARELI)**



RCF/RBL/QEF7001

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|--|-----------------------------------|--------------------|
| 22. | Battery fuse box +ve Make : NEC | LW 71001,Alt`d | 01 |
| 23. | Battery fuse box -ve Make : ISG | LW 71002,Alt-d | 01 |
| 24. | Regulated battery charger Make : AAL Sr no: BCH-06130908 | EDTS 074,Rev -c Corr.1 | 01 |
| 25. | Emergency battery charger Make : WAVES Sr no: WEB CG 132-52 | EDTS 163,Rev `c' corg.-2&3 | 01 |
| 26. | 60KVA transformer Make : VIMAL Sr no : 2010-2013/14 | EDTS 076 ,Rev-b Am-1 | 01 |
| 27. | ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL | EDTS 105,Rev-e Am-1,2 Corr.1 | 02 sets |
| 28. | Feeder junction boxes. Make : NEC | EDML 020,Rev-e | 02 |
| 29. | Wheel set earthling equipment. Make : MLI & CHANDA | EDTS 101,Rev-c | 02 |
| 30. | Wheel Slide Protection System (WSP) Make: KNORR & Sr no : 0113380857 | M/s : KNORR | 01 set |
| 31. | PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : VISHAL GAS SERVICE | EDTS -139 Rev- Nil, Am-1,2,3&4 | 01 |

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| SEE/RCF/RBL | SSE/EL/QC |

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