



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 133
(ANTYODAYA)

| | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| Coach No. | 1 | 6 | 4 | 2 | 4 | / | C | DATE OF DISPATCH | 1 | 4 | - | 0 | 7 | - | 1 | 7 |
|-----------|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|------|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RLY | E | C | R | Type | L | W | S | - | - | Shell No. | 6 | 6 | 1 | 1 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |
|-----|---|---|---|------|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

- Railway Board's Order No. : 2016/M(C)/142/1, Dated 29.07.2016
- Tare Weight of Coach : 40.66 Tonnes
- Carrying Capacity : (a) Seating: 100 (b) 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/-15 | 1)1102 (NPPE) 2)1105(PPE) |

5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|-----------------------|---------------------------------------|----------------------------|
| 1. | Underframe | Front Part M/S Rail tech pvt.ltd. KXH | PP END 66111 NPP END 66111 |
| | | Complete M/s-MCF/RBL | |
| 2. | Side wall | M/s-MCF/RBL | RH 66111 LH 66111 |
| 3. | End wall | PP M/s KEPL/Punchkula | PP END 66111 NPP END 66111 |
| | | NPP M/s KEPL/Punchkula | |
| 4. | Roof | M/s-MCF/RBL | |
| 5. | Centre Buffer Coupler | M/s Escort Pvt. Ltd. Faridabad | PP END 7961 NPP END 7225 |
| 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 | 8 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 DAETAILS:

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE | AVERAGE GLOSS VALUE |
|------|-------------|---------------|-------------|---------------------|
| 1. | Paint | P.U | M/s VIBGYOR | 92/89 |
| 2. | Insulation | | | |

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)

| | | | |
|---|---|--|---------------------------|
|  | 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/2017-18/133
 (ANTYODAYA)

| | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| Coach No. | 1 | 6 | 4 | 2 | 4 | / | C | - | DATE OF DISPATCH | 1 | 4 | - | 0 | 7 | - | 1 | 7 |
|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|------|---|---|---|--|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RLY | E | C | R | Type | L | W | S | | | Shell No. | 6 | 6 | 1 | 1 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |
|-----|---|---|---|------|---|---|---|--|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

8. DETAIL OF BOGIES:

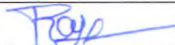
| ITEMS | PP Side | | | | NPP Side | | | |
|---------------|---------------------|---------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Bogie No | 161042 | | | | 161041 | | | |
| Bogie Type | FIAT | | | | FIAT | | | |
| Frame no. | MCF/RBL-LS-5-63 | | | | RBL-LS5-19 | | | |
| Bolster no. | VS-09 | | | | VS-01 | | | |
| Axle No | C-3921 | | A-2934 | | W-2563 | | W-2439 | |
| Wheel Dia | 917.501 | 917.534 | 917.519 | 917.546 | 917.768 | 917.659 | 917.773 | 917.752 |
| Wheel Disc No | 00105-6215 08-16 | 00126-6204 08-16 | 00102-6180 VR07-16 | 00091-6191 08-16 | 00112-6218 08-16 | 00113-6218 08-16 | 00165-6218 08-16 | 00028-6218 08-16 |
| R.B. Nos. | 12-16 08526 | 12-16 08619 | 12-16 08641 | 12-16 08311 | 12-16 08403 | 12-16 08695 | 12-16 08586 | 12-16 08314 |
| CT R B Make | TIMKEN | | TIMKEN | | TIMKEN | | TIMKEN | |

9. SECONDARY SUSPENSION

| DESCRIPTION | Bogie PP side | | Bogie NPP side | |
|-------------|---|---|---|---|
| | Secondary 1 | Secondary 2 | Secondary 1 | Secondary 2 |
| Make & Nos. | RESISTOFLEX RASR-747-N2-100-P36-0176 | RESISTOFLEX RASR-747-N2-100-P36-0154 | RESISTOFLEX RASR-747-N2-100-P36-0240 | RESISTOFLEX RASR-747-N2-100-P36-0204 |

10. TRACEABILITY OF BOGIE ITEMS:

| S. NO | ITEM | MAKE/SUPPLIER | SERIAL NO. | |
|-------|----------------------------|---------------|---|---|
| | | | PP SIDE | NPP SIDE |
| 1. | Primary outer Spring | CMGBD | 03-16-11,12-16-03,12-16-05,12-16-01 | 12-16-1100-151(10,4,2),11-16-1100-133-15 |
| 2. | Primary Inner Spring | CMFSK | 01-17(316,38,283,183) | 01-17-1101-232(187,416,484,267) |
| 3. | Primary Damper | KNORR | 07-16(2770,2556,2689,2432) | 07-16(2744,2774,2826,2468) |
| 4. | Secondary Damper | KNORR | 02-17(254,253) | 02-17(0258,244) |
| 5. | Lateral Damper | GREEP | KW 43-2016 301550559 | KW 43-16 301550559 |
| 6. | Brake Cylinder | KBI | 5739K-29,5609K-29,5610K-29,5732K-29 | 5790K-29,5646K-29,5645K-29,5789K-29 |
| 7. | Brake Caliper | KBI | 5131-29,5220-29,5221-29,5130-29 | 5183-29,5249-29,5248-29,5182-29 |
| 8. | Brake Disc | KBI | 24088862-0009-01-17, 24093102-0001-03-17, 24088860-0022-01-17, 24088858-0012-53-16, | 24093098-0005-02-17, 24093098-0004-02-17, 24093099-0025-02-17, 24093099-0026-02-17, |
| 9. | Ball Joint Control Arm | SGA | | |
| 10. | Lateral Bump Stop | MGN | | |
| 11. | Traction Centre make | EMSON | | |
| 12. | Traction lever make | JJ | | |
| 13. | Ball joint traction lever | S.BLOC | | |
| 14. | Ball joint traction centre | SGA | | |
| 15. | Leveling Valve | KNORR | 01-17(6087,6084) | 01-17(5958,5949) |
| 16. | Check Valve | KNORR | 01-17-9642 | 9597 |
| 17. | Anti roll bar make | EMSON | | |
| 18. | Roll Link make | SARITA/MGN | | |
| 19. | Fork make | SARITA | | |


 Signature of SSE/Bogie/QC



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

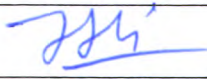
DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 133
(ANTYODAYA)

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|------|---|---|---|---|---|-----------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Coach No. | | | | 1 | 6 | 4 | 2 | 4 | / | C | DATE OF DISPATCH | | | | 1 | 4 | - | 0 | 7 | - | 1 | 7 | |
| RLY | E | C | R | Type | L | W | S | - | - | Shell No. | 6 | 6 | 1 | 1 | 1 | - | 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 ,Palwal Haryana | Pass16L1970 |
| 2. | Pull box | M/s KBI ,Palwal Haryana | |
| 3. | DV | M/s KBI ,Palwal Haryana | 2016L2773 |
| 4. | FIBA | M/s KBI ,Palwal Haryana | PP END NPP END |
| 5. | PVC | M/s Responsive ind.mumbai | 0456/29 0445/29 |
| 6. | Foot Step | M/s Super spark pvt.ltd.faridabad | |
| 7. | Decoupling arrangement | M/s Kohinoor Industries, Faridabad | |
| 8. | Lavatory Inlay | N/A | |
| 9. | Body Side Window | M/s Hindustan Fiber Glass works Ltd. Vadodara | |
| 10. | Emergency Window | M/s Hindustan Fiber Glass works Ltd. Vadodara | |
| 11. | Hopper Window | M/s Shatabdi Safety glass, Vadodara | |
| 12. | Body Side Doors 12,4,5 | M/s JBM, Faridabad | |
| 13. | Body Side Doors 3,6 | M/s Sukata CDG | |
| 14. | Bio Tank | M/s Rasandik pvt ltd gurgaon | |
| 15. | Overhead Water Tank(4X390L) | M/s Rail Fab. KXH | |
| 16. | Bib Cock/Controlled Discharge Tap | M/s Jaguar Pvt. Ltd. Alwar | |
| 17. | Lavatory Module | M/s Hindustan Fiber Ltd. Vadodara | |
| 18. | Lavatory Doors | M/s Hindustan Fiber Ltd. Vadodara | |
| 19. | Water purifier | M/s Parag Polymer, Lucknow | |
| 20. | Seat & Berth | M/s Hindustan Fiber Glass works Ltd. Vadodara | |


 SSE/QC/MCF/RBL
 वरिष्ठ अनुष्ठानिक अभियंता
 गुणवत्ता विभाग
 रेलवे कारखाना, रायबरेली (लालगंज)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 133
(ANTYODAYA)

| | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| Coach No. | 1 | 6 | 4 | 2 | 4 | / | C | DATE OF DISPATCH | 1 | 4 | - | 0 | 7 | - | 1 | 7 |
|-----------|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|------|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RLY | E | C | R | Type | L | W | S | - | - | Shell No. | 6 | 6 | 1 | 1 | 1 | - | 2 | 0 | 1 | 7 | - | 1 | 8 |
|-----|---|---|---|------|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

12. MODIFICATION (IF ANY) : Water purified fitted as per RDSO RDSO/Spec/ 2015/CG-04

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, mirror 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

| | | |
|---|--|--|
| | | |
| SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिआर, रायबरेली (लालगंज) | AME/QC/MCF/RBL सहायक यांत्रिक अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli | Dy. QC/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager 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

FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES**

PAGE 1 OF 3

| ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES | | | |
|---|---------------------------------------|-------------------------|------------|
| SHELL/COACH NO | 16424/C | TYPE COACH | LWS |
| RAILWAY | ECR | DATE OF DESPATCH | |
| Sr no | Description of test | Remarks | |
| 2. | LIGHTS,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 | |

(Signature)
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

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 2 OF 3

| | | | |
|-----|---|--|-----------|
| 01. | Switch board cabinet Make : TRINITRON On Board Sr no : 3377/355/022 HT Panel Sr no : 3377/355/014 | EDTS 333, Rev`01`Am-1 | 01 |
| 02 | Emergency light system for EOG type coaches (AEL), Make : VGS | EDTS 151,Rev -c Am-1 & 2 | 04 |
| 03. | Fitment of Passenger Alarm cum indication light (PACIL). Make : DR AUTO | As per drg no. LW 76005,Alt -e 02 nos | 02 |
| 04. | Fitment of Switch Plate Assly (Cabin Side) Make : SSK | EDML 127,Rev-1& DRG NO 4248ALT-a | 10 |
| 05. | Fitment of Switch Plate Assly (Corridor Side) Make : SSK | EDML 127,Rev-1 & DRG NO 4249 ALT-a | 10 |
| 06. | Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : R KANWAR | IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I. | 30 |
| 07. | Fitment of Fluorescent light fitting for LHB type coaches. Make : DR AUTO | LW 76033,Alt`c, | 04 |
| 08. | Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DR AUTO | CC 76213,Alt`d`. | 26 |
| 09. | Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : DR AUTO | CC 76216, Alt `c`. | 02 |

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

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

PAGE 3 OF 3

| | | | |
|-----|--|--|---------|
| 10. | FL Tubes, 02 Feet ,18Watt ,colour temp 6500K | RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001. | 26 |
| 11. | Battery fuse box +ve Make : ISG | LW 71001,Alt-F | 01 |
| 12. | Battery fuse box -ve Make : SSK | LW 71002,Alt-F | 01 |
| 13. | Regulated battery charger Make : HI REL Sr no: 17030450 | As per RDSO/pe/spec/ac/0129, Rev.-1 (2009) | 01 |
| 14. | 9KVA transformer Make : PANTRONICS Sr no : 16015773 | As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI. | 01 |
| 15. | ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES | As per spec No EDTS 105,Rev`e' Am-3 TYPE-2 | 01 set |
| 16. | Feeder junction boxes. Make : AECO | EDTS-328 REV-C | 01 set |
| 17. | Wheel set earthling equipment. Make : CHANDA&CHANDA | EDTS101,REV-C,AM-1 | 02 sets |
| 18. | Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0117012991 | M/s : KNORR | 01 set |
| 19. | 110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : SOUTHERN Lug date : 05/2016 | RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1 | 01 set |
| 20. | Battery box for LHB coaches. Make : HI TECH | CC 91205 | 01 |

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आ0रे0डि0का0 / लालगंज / रायबरेली

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

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

रेल कोच फैक्टरी, रायबरेली, लखनऊ

Sr. Electrical Engineer / RCF / RBL / Lucknow

