



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/2018-19/981

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|------------|---|---|-----------|---|---|---|---|---|---|-----------|---|------------------|---|---|---|---|---|---|---|---|---|---|---|
| RLY | N | C | R | Coach No. | 1 | 8 | 2 | 9 | 9 | 9 | / | C | DATE OF DISPATCH | 3 | 1 | - | 1 | 2 | - | 1 | 8 | | | |
| DISPATCH TO | Sr.CDO/ALD | | | Type | L | W | S | C | N | 1 | Shell No. | 8 | 7 | 3 | 5 | 3 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |

- Railway Board's Order No. : 2018/M(C)/142/2 Dated-17-10-2018
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (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) 1105 (NPPE) 2) 1099 (PPE) |

5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|-----------------------|---|--------------------------|
| 1. | Underframe | PP END M/s Shivalic fastners pvt.ltd. mohali | 11 |
| | | NPP END M/s Shivalic fastners pvt.ltd. mohali | 11 |
| | Complete | MCF/RBL | 87353 |
| 2. | Lav.side wall | M/S Rail FAB . KXH | LAV.1 - LAV.2 - |
| | | M/S Rail FAB . KXH | LAV.3 - LAV.4 - |
| 3. | Side wall | LH SIDE MCF/RBL (CONTRACTOR V4U) | 269 |
| | | RH SIDE MCF/RBL (CONTRACTOR V4U) | 269 |
| 4. | End wall | PP END M/s Shivalic fastners pvt.ltd. mohali | -- |
| | | NPP END M/s Shivalic fastners pvt.ltd. mohali | -- |
| 5. | Roof | MCF/RBL | 110 |
| 6. | Centre Buffer Coupler | M/S Dellnar INDIA PVT LTD. | PP END 3533 NPP END 3534 |

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 | 07 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 -VIBGYOR | Supply & apply | 89/88 |
| 2. | Insulation | | | Satisfactory | |

Signature
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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|-----------|---|---|---|---|------|---|---|---|---|---|------------------|-----------|--|---|---|---|---|---|---|---|---|---|---|---|---|
| Coach No. | | 1 | 8 | 2 | 9 | 9 | 9 | / | C | - | DATE OF DISPATCH | | | | 3 | 1 | . | 1 | 2 | . | 1 | 8 | | | |
| RLY | N | C | R | - | Type | L | W | S | C | N | 1 | Shell No. | | 8 | 7 | 3 | 5 | 3 | - | - | - | - | - | - | - |

8. DETAIL OF BOGIES:

| ITEMS | NPP Side | | | | PP Side | | | |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Bogie No | 182180 | | | | 182179 | | | |
| Bogie Type | FIAT | | | | FIAT | | | |
| Frame no. | SCI/FM-2137 | | | | SCI/FM-2136 | | | |
| Bolster no. | VS-304 | | | | VS-297 | | | |
| Axle No | 18E-0295 RWF | | 18D-8706 RWF | | 18D-8039 RWF | | 18D-8085 RWF | |
| Wheel Dia | 917.491 | 917.472 | 917.473 | 917.491 | 917.533 | 917.553 | 917.462 | 917.556 |
| Wheel Disc No | TZ07-17 24972-7RJ4 | TZ07-17 24547-7QL2 | TZ08-17 31506-7SJ8 | TZ08-17 30249-7SJ7 | TZ08-17 28990-7SJ2 | TZ09-17 33341-7SH8 | TZ09-17 33620-7SG9 | TZ07-17 24545-7QL2 |
| R.B. Nos. | 05-18 29403 | 05-18 38964 | 05-18 12072 | 05-18 28679 | 05-18 28496 | 05-18 40256 | 05-18 40323 | 05-18 39832 |
| 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. | CMFSK09-18-5101-475-21 | CMRSK08-18-F08-N72-08Y-1099 | CMFSK09-18-5101-498-83 | CMRSK08-18-F08-N72-08Y-1003 | CMGBD01-17-5101-02-28 | CMRSK08-18-F08-N73-08Y-1658 | CMGBD09-17-5101-98-31 | CMRSK08-18-F08-N73-08Y-1869 |
| Compressed Ht. at Tested Load | 514.5 | 471 | 516 | 472 | 512 | 472 | 512 | 472 |
| Alignment deviation (mm) | 13 | 10 | 13 | 10 | 7 | 5 | 8 | 5 |

10. TRACEABILITY OF BOGIE ITEMS :-

| S. NO | ITEM | MAKE/SUPPLIER | SERIAL NO. | |
|-------|----------------------------|---------------|---------------------------------------|---|
| | | | NPP SIDE | PP SIDE |
| 1. | Yaw Damper | GEREP | 1728,1835 | 1833,1810 |
| 2. | Primary outer Spring | CMGBD | 10-18 1100 119(539,955),122(547,463) | 10-18 1100(121-702),122(232,91,707) |
| 3. | Primary Inner Spring | RSK | 02-10-06Y(783,1433,1224,2318) | 05-17 1101(36-842,35-566,36-572,36-616) |
| 4. | Primary Damper | KNORR | 07-18(27535,27536,27521,27520) | 07-18(27514,27508,27422,27509) |
| 5. | Secondary Damper | GEREP | KW 16-2018 301550739 | KW 16-2018 301550739 |
| 6. | Lateral Damper | SV | 01-18 019949 | 01-18 019949 |
| 7. | Brake Cylinder | FAV | K18(310,128,125,309) | L18-214,K18(601,633,627) |
| 8. | Brake Caliper | FAV | H18(1008,1006,1005,1007)B | L18(1383,1381,1185,1187)B |
| 9. | Brake Disc | FAV | 10-18(4304,4177,4340,4302)D133561-300 | 10-18(4306,4305,4180,4179)D133561-300 |
| 10. | Ball Joint Control Arm | AR | | |
| 11. | Lateral Bump Stop | BONY | | |
| 12. | Traction Centre make | SARITA | | |
| 13. | Traction lever make | SARITA | | |
| 14. | Ball joint traction lever | AR | | |
| 15. | Ball joint traction centre | AR | | |
| 16. | Secondary Rubber Pad | TECSPAK | | |
| 17. | Rubber Spring | PPI/UK | | |
| 18. | Anti roll bar Make | WOM | | |
| 19. | Roll Link make | SARITA/AR | | |
| 20. | Fork make | ASL | | |
| 21. | Control Arm Upper | RVE | 211018-1,221018-2,221018-1,221018-1 | 231018-1,121018-1,121018-5,280918-1 |
| 22. | Control Arm Lower | RVE | 211018-1,261018-3,161018-4,161018-4 | 261018-2,161018-4,161018-4,RVE |

Signature of SSE/Bogie/QC



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|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISPATCH TO | Sr.CDO/ALD | Type | L | W | S | C | N | 1 | Shell No. | 8 | 7 | 3 | 5 | 3 | - | 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) | L18110B |
| 2. | Pull box | M/s Faively transport tech.india ltd baddi(HP) | |
| 3. | Distribution valve | M/s Faively transport tech.india ltd baddi(HP) | 18105644B |
| 4. | Foot Step | M/s Super spark pvt. ltd. Faridabad | |
| 5. | Decoupling arrangement | M/s-ELASTOMER MUMBAI | |
| 6. | Floor board | M/S TWPL Mumbai | |
| 7. | PVC | M/s ACME INDIA NDLS | |
| 8. | Lavatory Inlay | M/s OASIS INDIA NDLS | |
| 9. | UIC Vestibule (PPE) | M/s-Suncrest ind.kolkata | |
| 10. | UIC Vestibule (NPPE) | M/s-Suncrest ind.kolkata | |
| 11. | Gangway bridge mounting (PPE) | M/s COMPETENT JALANDHER | |
| 12. | Gangway bridge mounting (NPPE) | M/s COMPETENT JALANDHER | |
| 13. | Body Side Window | M/s ACME INDIA NDLS | |
| 14. | Emergency Window | M/s ACME INDIA NDLS | |
| 15. | Hopper Window | M/s ACME INDIA NDLS | |
| 16. | Side panel | M/s ACME INDIA NDLS | |
| 17. | Roof ceiling | M/s ACME INDIA NDLS | |
| 18. | Door way ceiling | M/s ACME INDIA NDLS | |
| 19. | Partition frame | M/s ACME INDIA NDLS | |
| 20. | Partition pillar | M/s ACME INDIA NDLS | |
| 21. | Body Side Door | M/s-JBM FARIDABAD | |
| 22. | Vestibule Door(PPE) | M/s-JBM FARIDABAD | |
| 23. | Vestibule Door(NPPE) | M/s-JBM FARIDABAD | |
| 24. | Bio Tank | M/S RAIL FAB KXH | |
| 25. | Auxiliary Water Tank | M/s AMIT ENG. mohali | |
| 26. | Under Slung Water Tank(2X685L) | M/s AMIT ENG. mohali | |
| 27. | Under Slung Water Tank (1X685L) | M/s KUTEER EQUIPMENT PUNCHKULA | |
| 28. | Flexible Faucet | M/s ACME INDIA NDLS | |
| 29. | Lotah Filler Tap | M/s ACME INDIA NDLS | |
| 30. | Controlled Discharge Tap | M/s AGMECO PVT LTD | |
| 31. | Lavatory Doors | M/s ACME INDIA NDLS | |
| 32. | Seat & Berth | M/s ACME INDIA NDLS | |
| 33. | Snack Table | N/A | |

Lalima
 831000/MCF/RBL
 वरिष्ठ अभियंता
 गुणवत्ता विभाग
 रेडिओ, रायबरेली (लालगंज)



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|-----|---|---|---|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISPATCH TO | Sr.CDO/ALD | Type | L | W | S | C | N | 1 | Shell No. | 8 | 7 | 3 | 5 | 3 | - | 2 | 0 | 1 | 8 | - | 1 | 9 |
|-------------|------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|

12. MODIFICATION (IF ANY) : Partition frame & Partition pillar

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, 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 qualitycfrbl@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.

| | | |
|--|--|---|
| S.E. QC/MCF/RBL गुणवत्ता विभाग रेडिओ 0, रायबरेली (लालगंज) | AME/QC/MCF/RBL सहायक यांत्रिक प्रमुख गुणवत्ता-II Assistant Mechanical Engineer / Quality-II आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli | Dy. COM/MCF/RBL जोगिंदर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli |
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C1-90



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

PAGE 1 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

| TYPE COACH | LWSCN | SHELL/COACH NO | 182999/C |
|------------|---------------------------------------|------------------|----------|
| RAILWAY | NCR | DATE OF DESPATCH | |
| Sr no | Description of test | Remarks | |
| 1. | PUMP EQUIPMENTS | OK | |
| 2. | LIGHTS, NL, 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 | |

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

| | | | |
|-----|--|--|-----------|
| 01. | Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-795 HT Panel Sr no : AE/USBC-792 | EDTS 333, Rev`01`Am-1 | 01 |
| 02. | Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/64 Sr no.1 : 18110419 Sr no.2 : 18110450 Sr no.CPA: 2018/12/083-DR AUTO | As per spec EDTS 186,Rev-a, Am- 2 | 01 |
| 03. | Emergency light system for EOG type coaches (AEL), Make : VGS | EDTS 151,Rev -c Am-1 & 2 | 04 |
| 04. | Passenger Alarm Cum Indication Light (PACIL) Make: KAVERI | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I | 02 |
| 05. | Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER | EDML 086,Rev-03, ITEM-01 | 10 |
| 06. | Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER | EDML 086, Rev 03, ITEM-02 | 10 |
| 07. | Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : IMT CABLES | IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I. | 30 |
| 08. | Cabin, Corridor, doorway and Gangway Lights. Make: RT VISION | As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1 | 26 |
| 09. | Lavatory Light Make: DR AUTO | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & | 04 |
| 10. | Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : AGASTYA | CC76289 & CC76443 | 10 |


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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

| | | | |
|-----|---|--|--------------------|
| 11. | Battery fuse box +ve Make : NEC | LW 71001,Alt-F | 01 |
| 12. | Battery fuse box -ve Make : NEC | LW 71002,Alt-F | 01 |
| 13. | Regulated battery charger Make : SIGNOTRON Sr no: 11180885 | As per RDSO/pe/spec/ac/0129, Rev.-1 (2009) | 01 |
| 14. | 9KVA transformer Make : VIMAL Sr no : LHB-799 | As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I. | 01 |
| 15. | ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL | As per spec No EDTS 105,Rev`e' Am-3, TYPE-2 | 01 set |
| 16. | Feeder junction boxes. Make : SIDWAL | EDTS-328 REV-C | 01 set |
| 17. | Wheel set earthing equipment. Make : PRIME ELECT. | EDTS101,REV-C,AM-1 | 02 sets |
| 18. | Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 35-18-1469 | M/s : FAIVELEY | 01 set |
| 19. | 110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 02/18 | RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1 | 01 set |
| 20. | Battery box for LHB coaches. Make : ANANYA | CC 91205 | 01 |

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

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आउटरीडिंका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LL/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow