



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002/
LBAC REV NO: 00
DATE: 21.02.2019

ROLLING STOCK CERTIFICATE (TEJAS)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/20-21/1176

| | | | | | |
|------|---|-----------|----------|------------------|----------------|
| RLY | WR | COACH NO | 211184/C | DATE OF DISPATCH | 2-Mar-21 |
| Type | LWCBAC | Shell No. | 20P003 | DISPATCH TO | Sr.DME/C&W/BCT |
| | | | | FUR.NO. | Tej/BAC-04 |
| 1. | Railway Board's Order No. : 2020/M(C)/142/2 Dated: -24.12.2020 | | | | |
| 2. | Tare Weight of Coach : 39 Tonnes | | | | |
| 3. | Carrying Capacity : (a) Seating:15 (b) Sleeping: 15 (c) Luggage:NIL | | | | |

4A. Special feature:

A- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

5. 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 | NPP/PP 1099/1105 |

6. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|-----------------------|---------------|--------------------|
| 1 | Under frame | PP END | M/s-RAIL TECH |
| | | NPP END | M/s-RAIL TECH |
| | | Complete | M/s-RAIL TECH |
| 2 | Lav. side wall | M/s-RAIL TECH | LAV.1 |
| | | M/s-RAIL TECH | LAV.3 |
| 3 | Side wall | LH SIDE | M/s-RAIL TECH |
| | | RH SIDE | M/s-RAIL TECH |
| 4 | End wall | PP END | M/s-RAIL TECH |
| | | NPP END | M/s-RAIL TECH |
| 5 | Roof | M/s-RAIL TECH | 32 |
| 6 | Centre Buffer Coupler | M/s-FRONTIER | NPP/PP 146P1/147P1 |

7. AIR BRAKE 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 . | 6 – 10 sec. | 8 sec |
| | | Max. pressure in BC | 3.0 ±0.15 kg/cm ² . | 3.0 kg/cm ² |
| | | All Brake are applied | OK | 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 |

8 PAINTING DETAILS:

| S NO | DESCRIPTION | TYPE OF PAINT | MAKE | APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY) | AVERAGE GLOSS VALUE | DATE OF COMPLETION |
|------|-------------|---------------|------|--|------------------------|-----------------------|
| 1 | Paint | P.U | GSI | M/s-GSI (S&A) | 74/89 | 24-Nov-20 |
| 2 | Insulation | | | Satisfactory | | |

Derma
16/3/2021
SSE/QC/MCF/RBL



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE**Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21 - 1176 (TEJAS)**

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| RLY | W | R | - | - | Coach No. | 2 | 1 | 1 | 1 | 8 | 4 | / | C | - | DATE OF DISPATCH | 0 | 2 | 0 | 3 | 2 | 0 | 2 | 1 |
|-----|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | |
|----------|----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---------|-------------|
| DISPATCH | Sr.DME/C&W/BCT | Type | L | W | C | B | A | C | Shell No. | 2 | 0 | P | 0 | 0 | 3 | FUR .NO | TEJ-LBAC-04 |
|----------|----------------|------|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---------|-------------|

9. DETAIL OF BOGIES:

| ITEMS | NPP Side | | | | PP Side | | | |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bogie No | 202277 | | | | 202278 | | | |
| Bogie Type | LWS | | | | LWS | | | |
| Frame no. | MCF/RBL/LS5- 2423 | | | | MCF/RBL/LS5- 2330 | | | |
| Bolster no. | MCF/RBL/LS5- 2865 | | | | MCF/RBL/LS5- 2873 | | | |
| Axle No | 20 B - 5471 RWF | | 20 B - 4938 RWF | | 20 A - 8472 RWF | | 20 B - 0233 RWF | |
| Wheel Dia | 917.33 | 917.33 | 917.27 | 917.32 | 917.35 | 917.24 | 917.32 | 917.43 |
| Wheel Disc No | TZ 07-18 37960-8RN3 | TZ 02-19 29178-9ML3 | TZ 07-18 41770-8RR0 | TZ 05-18 19991-8MT8 | TZ 05-18 20091-8PR3 | TZ 04-19 35550-9MH3 | TZ 06-18 22668-8PQ0 | TZ 05-18 27123-8PN3 |
| R.B. Nos. | 03-20 503870 | 06-20 412559 | 07-20 416091 | 06-20 412506 | 06-20 415028 | 06-20 415311 | 06-20 415471 | 06-20 413472 |
| CT R B Make | TIMKEN | | TIMKEN | | TIMKEN | | TIMKEN | |

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

| DESCRIPTION | Bogie NPP side | | Bogie PP side | |
|-------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | Secondary 1 | Secondary 2 | Secondary 1 | Secondary 2 |
| Make & Nos. | TAYAL & CO. 19-07 2123 | TAYAL & CO. 19-07 2139 | TAYAL & CO. 19-07 2090 | TAYAL & CO. 19-07 2142 |

11. TRACEABILITY 9OF BOGIE ITEMS :-

| S. NO | ITEM | MAKE/SUPPLIER | SERIAL NO. | |
|-------|----------------------------|---------------|---|---|
| | | | NPP SIDE | PP SIDE |
| 1. | Yaw Damper | ESC | 7521,7546 | 7550,7616 |
| 2. | Primary outer Spring | CMFSK | 10-20 F03-028--- (1591,239,211,186) | 10-20 F03-028--- (380,435,896,32) |
| 3. | Primary Inner Spring | CMSTL | 02-19 F02-S51-02A (5279,5955,5392,5263) | 02-19 F02-S51-02A (5566,5260,5330,5402) |
| 4. | Primary Damper | GABRIEL | 02-20 (18453,148487,18478,18458) | 02-20 (18471,18460,18462,18469) |
| 5. | Secondary Damper | KONI | 04-19 (4144,05740) | 04-19 (05698,06924) |
| 6. | Lateral Damper | GB | 05-20 01593 | 05-20 00596 |
| 7. | Brake Cylinder | KBI | C(9084,7768,7618,8980)K29 | D9047K29,C(7668,7645,8986)K29 |
| 8. | Brake Caliper | KBI | C(4780,5009,4884,4682)-29 | C(4746,4893,4883,4684)-29 |
| 9. | Brake Disc | FAV | 08-20(1467,1468,1466,1465)D133561-300 | 08-20(1481,1483,2103,2106)D133561-300 |
| 10. | Ball Joint Control Arm | AR | | |
| 11. | Lateral Bump Stop | BONY | | |
| 12. | Traction Centre make | SF | | |
| 13. | Traction lever make | JJ | | |
| 14. | Ball joint traction lever | RF/AR | | |
| 15. | Ball joint traction centre | AR | | |
| 16. | Leveling Valve | ESCORT | 20-09 5608,20-09 5551 | 20-09 5843,20-09 5831 |
| 17. | Check Valve | ESCORT | 20-09 1305 | 20-09 1313 |
| 18. | Anti roll bar Make | RF | | |
| 19. | Roll Link make | RF /AR | | |
| 20. | Fork make | RF | | |
| 21. | Control Arm Upper | PTC | 379,400,384 ,RVE- 150119-2 | 214,282,RVE-150119-2,240119-2 |
| 22. | Control Arm Lower | PTC | 258,318,164,RVE-271019-2 | 335,168,RVE-1701191,281219-2 |
| 23. | Phonic Wheel | KBI | K 12-20 | K 12-20 |

Signature of SSE/Bogie/QC



Modern Coach Factory Raebareli
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LBAC REV NO: 00
DATE: 21.02.2019

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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/20-21/1176

| | | | | | |
|------|--------|-----------|----------|------------------|----------------|
| RLY | WR | COACH NO | 211184/C | DATE OF DISPATCH | 02-Mar-21 |
| Type | LWCBAC | Shell No. | 20P003 | DISPATCH TO | Sr.DME/C&W/BCT |
| | | | | FUR.NO. | Tej/BAC-04 |

13. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO(NPP/PP) |
|------|-------------------------------------|---|-------------------|
| 1 | Air Brake Module | M/s-KBI | 5427 20/20 |
| 2 | Distribution valve | M/s-KBI | 2020E11077 |
| 3 | Pull box | M/s-KBI | |
| 4 | FIBA | M/s-ESCORTS | 20010131,20020177 |
| 5 | Foot Step | M/s-RCF/KXH (NON STOCK ITEM) | |
| 6 | Decoupling arrangement | M/s-PULSAR RUBER KOLKATA | |
| 7 | Floor board | M/s-TWPL MUMBAI | |
| 8 | PVC | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 9 | UIC Vestibule (PPE) | M/s-KRP PUNE | |
| 10 | UIC Vestibule (NPPE) | M/s-KRP PUNE | |
| 11 | Gangway bridge mounting (PPE) | M/s-RIS KXH | |
| 12 | Gangway bridge mounting (NPPE) | M/s-RIS KXH | |
| 13 | Body Side Window | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 14 | Emergency Window | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 15 | Lavatory/hopper Window | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 16 | Automatic Fire Detection System | M/s-SANROK ENT | |
| 17 | Roof Ceiling | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 18 | Doorway/Gangway Ceiling | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 19 | Supply Air Duct | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 20 | Partition panel | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 21 | Partition pillar | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 22 | Side wall panel | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 23 | AC Trough | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 24 | RMPU | M/s-AMIT ENGG SOLAN | |
| 25 | Body Side Door | M/s-KNORR BREMSE LTD PALWAL | |
| 26 | Compartment Door (PPE) | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 27 | Vestibule Door(PPE) | M/s-KALSI LDH | |
| 28 | Vestibule Door(NPPE) | M/s-KALSI LDH | |
| 29 | Pantry sliding door | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 30 | Saloon sliding door(PPE) | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 31 | FRP panels for pantry room | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 32 | Shutter (small) | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 33 | Bio Tanks | M/s-RAIL FAB KXH | |
| 34 | Presurized flushing eletc.pneumatic | M/s-AIR FLOW | |
| 35 | Auxiliary Water Tanks | M/s-OASIS | |
| 36 | Under Slung Water Tank (2X685L) | M/s-AMIT ENGG.MOHALI+AMIT ENGG.BADDI | |
| 37 | Under Slung Water Tank (1x450 L) | M/s-AMIT ENGG.BADDI | |
| 38 | Health Faucet | M/s-HFGW VADODARA | |
| 39 | Lotah Filler Tap | M/s-HFGW VADODARA | |
| 40 | Bib cock | M/s-JAQUAR PVT LTD ALWAR | |
| 41 | Lavatory Modules | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 42 | Lavatory Doors | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 43 | Fire Extinguisher | M/s-AMTEX SAFTEY | 17562 |
| 44 | Seat & Berth | M/s-CMT MECHANISED SYS.PVT.LTD VADODARA | |
| 45 | Ventury grill | NIL | |
| 46 | RFID | NIL | |

[Signature]
16/3/2021
SSE/QC/MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
LBAC REV NO: 00
DATE: 17.04.2018

ROLLING STOCK CERTIFICATE (TEJAS)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/20-21/1176

| | | | | | |
|------|--------|-----------|----------|------------------|----------------|
| RLY | WR | COACH NO | 211184/C | DATE OF DISPATCH | 02-Mar-21 |
| Type | LWCBAC | Shell No. | 20P003 | DISPATCH TO | Sr.DME/C&W/BCT |
| | | | | FUR.NO. | Tej/BAC-04 |

14. MODIFICATION (IF ANY) : NIL

15. DEVIATION (IF ANY) : NIL

16. ITEM FITTED ON THE COACH ON TRIAL : NIL

| S NO | ITEM PARTICULARS | PURPOSE | REPORT | REFERENCE & |
|-------|------------------|---------|-----------|-----------------|
| | | | Frequency | PERIOD OF TRIAL |
| ----- | ----- | ----- | ----- | ----- |

16. WARRANTY:

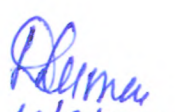
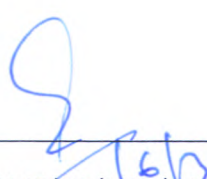
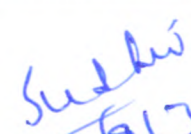
| S NO | COMPONENTS | WARRANTY |
|------|---|--|
| 1 | Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. (items which are consumable in nature) | NIL |
| 2 | Other coach furnishing sub assemblies(bought out items) | 24 months from the date of dispatch of coach OR 30months 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 qualityrcfbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from 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.

| | | |
|--|---|--|
|  16/3/2021 SSE/QC/MCF/RBL |  SME/AME/QC/MCF/RBL |  Sudhir Kumar Dy. Chief Quality Manager Modern Coach Factory |
|--|---|--|

गणवन्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (सामान्य)

सहायक यांत्रिक अभियन्ता/गुणवत्ता-1
Assistant Mechanical Engineer / Quality-1
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:25.01.2019

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG HOG AC HOT BUFFET CAR

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG HOG AC HOT BUFFET CAR

| ELECTRICAL TEST CERTIFICATE FOR LHB/EOG HOG AC HOT BUFFET CAR | | | | | | | |
|---|--|--------|----------------|--------------------|--------|----------------|--|
| TYPE COACH | | LWCBAC | | SHELL/COACH NO | | 211184/C | |
| RAILWAY | | WR | ELECT.FIT DATE | 28-02-2021 | FUR.NO | LBAC(TEJAS)-04 | |
| 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 | | | 31.23 Cub mtr/min | | OK | |
| 3.2 | Return Air | | | 83.88 Cub mtr/min | | OK | |
| 3.3 | Exhaust Air | | | 5.32 Cub mtr/min | | OK | |
| 3.4 | Conditioned Air | | | 184.68 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 | | | | | --- | |

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
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DOC NO.: MCF/RBL/QEF/8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

ELECTRICAL TEST CERTIFICATE FOR LHB EOG/HOG AC HOT BUFFET CAR

| 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 PANTRY EQUIPMENTS | 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 TRANSFORMERS | OK |
| 14.0 | WORKING OF REGULATED BATTERY CHARGER | OK |
| 15.0 | WORKING OF EMERGENCY BATTERY CHARGER | OK |
| 16.0 | SAFETY : | ---- |
| 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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DOC NO.: MCF/RBL/QEF/8001

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|--|--|--------------------|
| 01. | Roof mounted AC package unit for LHB AC coaches Make : AMIT ENGG. Sr no of RMPU (NPP side): 5739 L Sr no of RMPU (PP side) : 5754 L Sr no of Microprocessor: AE 2010290 | As per rdso/pe/spes/ac/0061/rev-1/2005 | 02 |
| 02. | Switch board cabinet Make : SSK Sr no : 021 | As per Spec no.EDTS134,REV.D,AM-5 | 01 |
| 03. | Pump equipment with PLC controller & pump box Make : HIND Sr no PA : 20/3/090 Sr no.1 : 20/3/179 Sr no.2 : 20/3/180 Sr no.CPA : 20/3/079-HIND | 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 : INTEG | EDTS331, TYPE-1 CORR.-1&2 | 01 |
| 05. | Provision & mounting of Passenger area light(Cabin) Make : ENSAVE | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L & Drg no LW76090 | 09 |
| 06. | Provision & mounting of Corridor Light with Night light Make : ENSAVE | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M & Drg no LW76091 | 09 |
| 07. | Provision & mounting of Doorway/Gangway light Make : DR AUTO | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099 | 06 |
| 08. | Provision & Mounting of PACIL Assly. Make : AGASTYA | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098. | 02 |
| 09. | Provision & Mounting of Toilet indication light, Make : RT VISION | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097. | 01 |
| 10. | Provision & Mounting of Lavatory Light Make : RT VISION | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092. | 02 |
| 11. | Provision of Razor socket for WC for 110/240V. Make: SSK | As per EDML047,ITEM-4 | 02 |

Senior Section Engineer
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|--|---|--------------------|
| 12. | Provision of Four Switch 6A/250V AC Complete With Steel Plate & Cover Frame. Make: SSK | As per Spec no.EDML043,CORR-1 | 04 nos |
| 13. | Provision of Twin Switch 6A/250V,Complete With Steel Plate & Cover Frame. Make: SSK | As per Spec no.EDML044,REVNIL,CORR-1 | 03 nos |
| 14. | Provision of Single Switch 16A,250V & 6/16A,250V.AC 6-Pin Shuttered Socket Compl. With Steel Plate & Cover Frame, Make: SKS | As per Spec no.EDML045,CORR-1 | 06 nos |
| 15. | Provision of PA System for LHB EOG Rajdhani Rake . Make:- AHUJA Call box Make: AHUJA | As per Spec no.EDTS173,REV.A,AM-3 | 01 SET |
| 16. | Jumper Cable with Connector for PA System. Make:- LEC | As per drg no.LW75206,Alt' c | 01 SET |
| 17. | 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 : 11/19 | EDTS 129,Rev nil | 01 set |
| 18. | Battery box for LHB coaches. Make : HITECH | 1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27. | 01 |
| 19. | Battery fuse box +ve Make : AUTO INDUSTRIES | As per LW 71001,Alt-F | 01 |
| 20. | Battery fuse box -ve Make : AECO | As per LW 71002,Alt-F | 01 |
| 21. | Emergency battery charger Make : WAVES Sr no: WEBCJ 206006 Make : WAVES Sr no: WEBCJ 206032 | EDTS 163,Rev `c' corg.-2&3 | 02 |
| 22. | Provision of capacitor Bank Make : NEC SL.no: 2020097309 | As per EDML-130 Rev-1,Corr-1 | 01 |
| 23. | 60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-4227 Make: VIMAL Sr no : VTC-R-3089-LHB-2556 | As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3 | 02 |
| 24. | GPS PASSENGER INFORMATION SYSTEM FOR LHB AC-TEJAS COACHES. Make: UNIVERSAL CONTROL MBU SL No: 0256 1. LCD (NPP) SL.No: 0354 B 2. LCD (PP) SL.No : 0354 A | RDSO/SPEC/AC/0087-2008(REV-1) & RDSO/PE/SK/AC/0182-2015 & RDSO/PE/TP/AC/0026-2015,REV-0 | 01 SET |

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:25.01.2019

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|---|--------------------|
| 25. | ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES | As per spec No EDTS 105,Rev`e` Am-2 | 01 set |
| 26. | Fitment of external supply sockets (125A/415V/IP67/5Pole with pilot contacts.) Make:- MV | As per drg no 1948036/UIV 4125-6. | 02 |
| 27. | Feeder junction boxes. Make : INDORAIL | EDTS-328 REV-C | 01 set |
| 28. | Wheel set earthing equipment. Make : PRIME ELECT. | EDTS101,REV-C,AM-1 | 02 sets |
| 29. | Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0120275400 | As per M/s Sab Webco, M/s Knorr Bremse, M/s Escorts. | 01 Set |
| 30. | Provision of fitment of modular Integrated Pantry unit. | As per spec no EDTS 118,REV- E,AM-2 | 01 Set |
| 31. | Hot Plate: | | 03 |
| (a) | Make:- SPECTRUM | | |
| (b) | Geysers Make: SPECTRUM | | 01 |
| (c) | Hot Water Boilers, Make: SPECTRUM | | 02 |
| (d) | Bottle Coolers, Make: SPECTRUM | | 01 set |
| (e) | Deep Freezers Make: SPECTRUM | | 01 set |
| (f) | Hot Case, Make: SPECTRUM | | 01 set |
| (g) | Chimneys, Make: SPECTRUM | | 03 |
| h) | Oven Toaster Griller Make: BAJAJ | | 01 |
| (i) | Refrigerator Make: SAMSUNG | | 01 |
| (j) | Insect Killer Make: PROVIDED BY HINDUSTAN | | 02 |
| (k) | Water Purifier(RO). Make: PROVIDED BY HINDUSTAN | | 01 |
| 32. | Provision of reliable wired Train bus in EOG/HOG coaches for hauling of trains by Loco's in Push-Pull mode. Make: SCHALT BAU INDIA PVT. | RDSO spec. no. RDSO/PE/MS/AC/0080-2019 (Rev.-1) | 01set |

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| वरिष्ठ अनुभाग अभियन्ता SSE/EL/QC आपरेटिंग/लागू/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL | 17103121 A.W.M./Electrical/MCF/RBL |
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