



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/2017-18/669

| | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| Coach No. | 1 | 8 | 3 | 1 | 0 | 6 | / | C | DATE OF DISPATCH | 2 | 0 | - | 0 | 3 | - | 1 | 8 |
|-----------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|

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

1. Railway Board's Order No. : 2017/M/(C)/142/2 dated -10-01-2017
2. Tare Weight of Coach : 45.6 Tonnes
3. 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/-10 | 1) 1100(NPPE) 2) 1105(PPE) |

5. TRACEABILITY OF SHELL ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO | | | |
|------|-----------------------|------------------------|--|--------|-------|---------------|
| 1. | Underframe | Front Part Complete | M/S AMIT ENGG. M/S MCF/RBL | PP END | 006 | NPP END 006 |
| 2. | Side wall | | M/S MCF/RBL | RH | 73229 | LH 73229 |
| 3. | End wall | PP END NPP END | M/S E.c.blades & tool pvt. Ltd CDG M/S E.c.blades & tool pvt. Ltd CDG | PP END | 73229 | NPP END 73229 |
| 4. | Roof | | M/S DTL ancillaries ltd pune | | | |
| 5. | Centre Buffer Coupler | | M/S Dellnar INDIA PVT LTD. | PP END | 1178 | NPP END 1177 |
| 6. | Buffers | | n.a | | | |

6. AIRBRAKE TEST REPORT:

| S NO | ITEM | DESCRIPTION | SPEC. VALUE | OBSERVED |
|------|------------------------|--|---|--|
| 1. | Full application brake | ➤ 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 | 08sec. 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 | MCF | 89/87 |
| 2. | Insulation | | | Satisfactory | |

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंकॉ, रायबरेली (लालमंज)



MODERN COACH FACTORY, RAEBARELI

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| RLY | N | R | - | - | Type | L | W | A | C | C | N | Shell No. | 7 | 3 | 2 | 2 | 9 | - | - | - | - | - | - | - | - |

8. DETAIL OF BOGIES :

| ITEMS | NPP Side | | | | PP Side | | | |
|---------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Bogie No | 171412 | | | | 171411 | | | |
| Bogie Type | LWACCN | | | | LWACCN | | | |
| Frame no. | SCI/FM-1557 | | | | MCF/RBL-771 | | | |
| Bolster no. | SPFL-226 | | | | MCF/RBL-1247 | | | |
| Axle No | 17 B- 9507 RWF | | 17 A - 8146 RWF | | 17 B- 8885RWF | | 17 B-8152 RWF | |
| Wheel Dia | 917.569 | 917.526 | 917.559 | 917.519 | 917.555 | 917.463 | 917.561 | 917.517 |
| Wheel Disc No | TZ 05-17 15878-7PK6 | TZ05-17 15879-7PK6 | TZ03-17 04115-7OK8 | TZ05-17 15877-7PK6 | TZ05-17 12293-70H7 | TZ05-17 14661-70H1 | TZ05-17 15880-7PK6 | TZ05-17 19471-70Q5 |
| R.B. Nos. | 06-17 79949 | 06-17 79392 | 06-17 79942 | 06-17 79391 | 06-17 78258 | 06-17 79414 | 06-17 79186 | 06-17 79385 |
| 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. | CMGBD01-18- 5117-10-126 | CMFSK01-18 9513-354-11 | CMGBD01-18 5117-10-126 | CMFSK01-18 9513-354-123 | CMGBD01-18- 5117-10-131 | CMFSK01-18 9513-354-200 | CMGBD01-18 5117-10-78 | CMFSK01-18 9513-354-79 |
| Compressed Ht. at Tested Load | 514 | 463.5 | 514 | 466.5 | 514 | 465 | 514 | 465 |
| Alignment deviation (mm) | 12 | 8 | 11 | 8 | 8 | 10 | 7 | 10 |

10. TRACEABILITY OF BOGIE ITEMS:

| S. NO | ITEM | MAKE/ SUPPLIER | SERIAL NO. | |
|-------|----------------------------|-------------------|---------------------------------------|---------------------------------------|
| | | | NPP SIDE | PP SIDE |
| 1. | Yaw Damper | SV | 035,151 | 159,025 |
| 2. | Primary outer Spring | CMGBD | 11-17 411139(237,127,123,229) | 11-17 411139(154,236,140,93) |
| 3. | Primary Inner Spring | CMGBD | 01-18 143 -154(528,270,91,501) | 01-18 143 -154(104,52,35,103) |
| 4. | Primary Damper | KNORR | 09-17(11856,11725,12097,11845) | 09-17(11759,11733,11824,11833) |
| 5. | Secondary Damper | GABRIEL | 08-17 (1459,1462) | 08-17 (719,717) |
| 6. | Lateral Damper | SV | 06-17 019524 | 06-17 019524 |
| 7. | Brake Cylinder | ESCORT | 38961,38930,38933,38962 | 38958,38916,38920,38957 |
| 8. | Brake Caliper | ESCORT | 21586,21555,21558,21587 | 21583,21541,21545,21582 |
| 9. | Brake Disc | FAV | 02-18(1159,1160,1213,1214)D133561-300 | 02-18(1013,1014,1161,1162)D133561-300 |
| 10. | Ball Joint Control Arm | MTC | | |
| 11. | Lateral Bump Stop | PRAG | | |
| 12. | Traction Centre make | SARITA | | |
| 13. | Traction lever make | JI01-17 | | |
| 14. | Ball joint traction lever | MTC | | |
| 15. | Ball joint traction centre | MTC | | |
| 16. | Secondary Rubber Pad | WINLANE | | |
| 17. | Rubber Spring | GMT | | |
| 18. | Anti roll bar make | SARITA | | |
| 19. | Roll Link make | SARITA/ BONY | | |
| 20. | Fork make | SARITA | | |
| 21. | Control Arm Upper | RVE | 231017-1,210118-2,261017-2,270118-2 | 231017-1,300118-2,160118-1,270118-2 |
| 22. | Control Arm Lower | RVE | 251017-2,231117-4,241017-1,010515-2 | 251117-2,230118-2,160118-1,270118-2 |

Signature of SSE/Bogie/QC



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

11. TRACEABILITY OF FURNISHING ITEMS:

| S NO | ITEM | MAKE/SUPPLIER | SERIAL NO |
|------|----------------------------------|--|----------------|
| 1. | Air Brake Module | M/S Escorts ltd railway equipment FBD | 2017120048 |
| 2. | Pull box | M/s Faively transport tech.india ltd baddi(HP) | |
| 3. | Distribution valve | M/S Escorts ltd railway equipment FBD | 1712A048 |
| 4. | Foot Step | M/s Super spark pvt.ltd.faridabad | |
| 5. | Decoupling arrangement | M/s Kohinoor Industries Faridabad | |
| 6. | Floor board | M/S Twpl mumbai | |
| 7. | PVC | M/s Premier polyfilm, New Delhi | |
| 8. | UIC Vestibule (PPE) | M/s-ELASTO MER IND. MUMBAI | |
| 9. | UIC Vestibule (NPPE) | M/s-ELASTO MER IND. MUMBAI | |
| 10. | Gangway bridge mounting (PPE) | M/s Rakesh iron store KXH | |
| 11. | Gangway bridge mounting (NPPE) | M/s Rakesh iron store KXH | |
| 12. | Body Side Window | M/s Aikon ind.salon H.P | |
| 13. | Emergency Window | M/s Aikon ind.salon H.P | |
| 14. | Lavatory/hopper Window | M/s Aikon ind.salon H.P | |
| 15. | Roof Ceiling | M/s Hindustan fibre ltd vadodara | |
| 16. | Door way /gang way ceiling | M/s Rail experts . jalandhar | |
| 17. | Supply Air Duct | M/s Amirchand engg.works Jalandhar | |
| 18. | Partition panel | M/s Rail tech KXH | |
| 19. | Partition pillar | M/s Rail tech KXH | |
| 20. | Side Wall panel | M/s-KAE ENGG.U.K | |
| 21. | AC Trough | M/s MSL CDG | |
| 22. | Body Side Door | M/s SUKATA CDG | |
| 23. | Compartment Door (PPE) | M/s Hanspal coach products KXH | |
| 24. | Compartment Door (NPPE) | M/s Hanspal coach products KXH | |
| 25. | Vestibule Door(PPE) | M/s Hanspal coach products KXH | |
| 26. | Vestibule Door(NPPE) | M/s Hanspal coach products KXH | |
| 27. | Bio Tank | M/s Rail FAB KXH | |
| 28. | Auxiliary Water Tank | M/s Amit Engg. Baddi | |
| 29. | Under Slung Water Tank (2X685L) | M/s Amit Engg. Baddi | |
| 30. | Under Slung Water Tank (1x450 L) | M/s Shivalic fastners pvt.ltd. mohali | |
| 31. | Flexible Faucet | M/s-HF Glass vadodara | |
| 32. | Lotah Filler Tap | M/s-Metco delhi | |
| 33. | Bib cock | M/s JAQUAR PVT.LTD ALWAR | |
| 34. | Lavatory Modoules | M/s CMT MACHANIST SYSTEM VADODARA | |
| 35. | Lavatory Doors | M/s CMT MACHANIST SYSTEM VADODARA | |
| 36. | Waste Bin Arrangement | M/s CMT MACHANIST SYSTEM VADODARA | |
| 37. | Fire Extinguisher | M/s POWER NAAZ | NPP-444,PP-207 |
| 38. | Seat & Berth | M/s ANANYA RAIL COACH | |
| 39. | Light Luggage Rack | M/s- Techno ind. ALD | |
| 40. | Snack Table | M/s- International tractors ltd. Hoshiarpur | |

SSE/QC/MCF/RBL

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

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 & |
|------|------------------|---------|-----------|-----------------|
| | | | Frequency | PERIOD OF TRIAL |
| | | | | |

15. 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 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 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.

| | | |
|----------------|----------------|----------------|
| | | |
| SSE/QC/MCF/RBL | AME/QC/MCF/RBL | Dy.CQM/MCF/RBL |

रेडि0का0, रायबरेली (लालगंज)

Modern Coach Factory, Raebareli

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

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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 | 183106/C |
|------------|---|---------------------------|----------|
| RAILWAY | NR | 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 | 29.32 Cub mtr/min | OK |
| 3.2 | Return Air | 68.87 Cub mtr/min | OK |
| 3.3 | Exhaust Air | 9.35 Cub mtr/min | OK |
| 3.4 | Conditioned Air | 168.21 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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| 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 : | |
| 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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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 : FD LLYOD Sr no of RMPU (NPP side): 2118000888 Sr no of RMPU (PP side) : 2118000889 Sr no of Microprocessor: 17.12.011-A PAUL | As per rdso/pe/spes/ac/0061/rev-1/2005 | 02 |
| 02. | Switch board cabinet Make : ABROL Sr no : 02-01/2018 | RDSO/PE/SPEC/AC/0184-2015 REV-0 | 01 |
| 03. | Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2017/07/088 Sr no.1 : 17030088 Sr no.2 : 17030032 Sr no.CPA : 2017/05/0113 | 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 | 02 |
| 05. | Door way/Gangway Light Make : RT VISION | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N | 07 |
| 06. | Provision of Passenger area light(Cabin) Make: RT VISION | As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L | 09 |
| 07. | Corridor Light with Night light Make: RT VISION | RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M | 09 |
| 08. | Emergency light system for EOG type coaches (AEL) Make : MAAVE ELECT. | EDTS 151,Rev -c Am-1 & 2 | 04 |
| 09. | Lavatory light fitting assly Make : RT VISION | 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 |
| 11. | Passenger alarm coach indication light Make : DR AUTO | LW 76005,Alt-e | 02 |


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|--|--|--------------------|
| 12. | Razor socket for WC 110/240V. Make : SSK | EDML 047,Rev nil | 04 |
| 13. | Terminal strip Make : WAGO | EDML 034,Rev-a | 01 |
| 14. | Terminal connector Make : WAGO | EDML 037,Rev`a` | 04 |
| 15. | Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK | EDML 0,64,Rev-B, Item 04. | 09 |
| 16. | Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK | EDML 0,64,Rev-B, Item 05. | 09 |
| 17. | Provision of 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 |
| 18. | PA system for LHB coaches Make : AHUJA | EDTS 173,Rev- a Am- 1,2&3 | 01 set |
| 19. | 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 : 12/2017 | EDTS 129,Rev nil | 01 set |
| 20. | Battery box for LHB coaches. Make : TECHNO | 1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27. | 01 |
| 21. | Battery fuse box +ve Make : INDORAIL | As per LW 71001,Alt- F | 01 |
| 22. | Battery fuse box -ve Make : SSK | As per LW 71002,Alt- F | 01 |


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

| Sr no | Description | Drg/Spec no. | Quantity per Coach |
|-------|---|---|--------------------|
| 23. | Emergency battery charger Make : BHASIN Sr no: 10174505 Make : BHASIN Sr no: 10174402 | EDTS 163, Rev 'c' corg.-2&3 | 02 |
| 24. | Provision of 5KVA TFR Make : VIMAL SL.no : VTC-3089-LHB-313 | As Per EDTS-366, REV-NIL & CC-71510 | 01 |
| 25. | Provision of capacitor Bank Make : ISG SL.no : CB-MCF-18-01-0199 | As per EDML-130 Rev-1, Corr-1 | 01 |
| 26. | 60KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-5290 | As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3 | 01 |
| 27. | Inter Vehicle (ZS) coupler Make: PRIME ELECT. | As per RDSO PE SPEC-0177-2013 REV-0 | 01 set |
| 28. | Feeder junction boxes. Make : AECO | EDTS-328 REV-C | 01 set |
| 29. | Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES | EDTS101, REV-C, AM-1 | 02 sets |
| 30. | Wheel Slide Protection System (WSP) Make : ESCORTS Sr no : 170170-12040-0002 | M/s : ESCORTS | 01 set |
| 31. | PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGERATION | As per 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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