

# Purchase Order

## TFS GURGAON AIRPORT SERVICES PRIVATE LIMITED

Order Number : TFS GURGAON/PO/24-25/000053

|                                                                                                                                                                    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Supplier Detail</b><br>CHIRAG ELECTRICAL<br>Supplier Code : RV242524030 [ V0000044 ]                                                                            | <b>Shipped Location</b><br>TFS GURGAON AIRPORT SERVICES PRIVATE LIMITED<br>TFS Delhi T1                              | <b>Invoice Location</b><br>TFS GURGAON AIRPORT SERVICES PRIVATE LIMITED<br>TFS Delhi T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (V0000044)                                                                                                                                                         | Delhi Terminal 1, Indira Gandhi International Airport,<br>Domestic Departure SHA, Mehram Nagar, New Delhi,<br>110037 | Delhi Terminal 1, Indira Gandhi International Airport,<br>Domestic Departure Sha, Mehram Nagar, New Delhi,<br>110037<br><br>GSTIN No : 07AAKCT9336M1ZL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PAN No : AOXPA2638B<br>Supplier GST No : 07AOXPA2638B2Z2<br>Supplier Contact No :<br>Contact Person Name : MOHD AKIL<br>Supplier Email : pushpak.shewale@k-corp.in | Cost Center Code : 91180054<br>Cost Center Name : DEL GORDON RAMSAY T1<br>Project ID : 0<br>PO Category : Capex NSO  | Payment Term : •Mobilisation advance 30% against<br>post dated cheque of equivalent amount<br>•R.A bill-1 Further 20% upon work completion 60%<br>post submission of invoice and joint certification post<br>deduction of mobilisation advance<br>•R.A bill-2 Further 20% upon 90% work completion &<br>post submission of invoice and joint certification<br>•Final payment 25% upon 100% work completion,<br>within 30 days of joint work certification<br>•Retention-5% post completion of DLP of 1 year from<br>date of virtual completion<br>PO Creation Date : 06/01/2025<br>PO Approval Date : 0<br>PO Currency : INR<br>Buyer Name : Pushpak Mahesh Shewale |

DRAFT

| Sr. No | Item Code  | HSN / SAC | Item Name           | Item Description    | Pur. Grp. | Qty  | UOM | Basic Rate   | Dis% | Net Rate     | Total Amount | SGST % | CGST % | Gross Total Amount |
|--------|------------|-----------|---------------------|---------------------|-----------|------|-----|--------------|------|--------------|--------------|--------|--------|--------------------|
| 1      | Electrical | 995461    | Interior Electrical | Interior Electrical | C01       | 1.00 | EA  | 1,130,410.00 | 0.00 | 1,130,410.00 | 1,130,410.00 | 9      | 9      | 1,333,883.80       |

Total Qty : 1.00

|                              |                     |
|------------------------------|---------------------|
| Total Basic PO Amount        | 1,130,410.00        |
| Total Other Charges          |                     |
| SGST Amount                  | 101,736.90          |
| CGST Amount                  | 101,736.90          |
| <b>Grand Total PO Amount</b> | <b>1,333,883.80</b> |

Amount In Words : Rupees Thirteen Lakh Thirty Three Thousand Eight Hundred Eighty Three And Eighty Paise Only

**Remarks :** Liquidated Damages: The CONTRACTOR shall pay liquidated damages as under, for any delay in the physical completion of the works  
5% of the contract value for delay during Week 1  
7.5% of the contract value for delay during Week 2  
10% of the contract value per week for delay from Week 3 onwards.

**Standard Terms And Condition :**

**Completion / Delivery TimeLine :** 13/02/2025

**Mobilization Date :** 13/01/2025

**Defects Liability Period :** 13/02/2026

**Retention Percentage :** 5

| Escalation Buyer Detail |            |            |
|-------------------------|------------|------------|
| Name                    | Mobile No. | Email - ID |
| Pushpak Shewale         | 8268330691 |            |
| Stephen P.              | 8553338827 |            |

**Disclaimer :**

Point 1 : Unless informed to us it is assumed that you are not registered as MSME with the respective government authority. If you have not yet provided the MSME details along with proof kindly provide the same at the earliest. Alternatively once you get registered then provide us relevant proof to update our records.

Point 2 : Supplier is requested to acknowledge or decline the order within 24 hours or else it would be considered as accepted.

ItemCode : Electrical

ItemName : Interior Electrical

| Sr No | Item Code | Item Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UOM  | Remarks | Quantity | Supplier Rate | Amount     |
|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|----------|---------------|------------|
| 1     | C.1.1     | 3.5C x120 SQ.MM XLPE AL. CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mtr  |         | 20.00    | 950.00        | 19,000.00  |
| 2     | D         | CABLE END TERMINATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |         | 0.00     | 0.00          | 0.00       |
| 3     | E.1.1     | SMDBIncomer 160A 4P MCCB - 1 No.Outgoings63A 4P MCB - 1No.32A 4P RCBO - 10 Nos.20A 2P RCBO - 3 Nos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Each |         | 1.00     | 70,000.00     | 70,000.00  |
| 4     | E.1.2     | LPDB16 Way PPI TPN DBIncomer 63A 4P MCB-1 No.40A 30mA 2P RCBO - 3 Nos.Outgoings10 16 20 25 32A SP MCB- 48 Nos.16 Way PPI TPN DBIncomer 63A 4P MCB-1 No.40A 30mA 2P RCBO - 3 Nos.Outgoings10 16 20 25 32A SP MCB- 48 Nos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each |         | 1.00     | 37,000.00     | 37,000.00  |
| 5     | F.1.4     | 16 SWG Copper conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nos  |         | 10.00    | 80.00         | 800.00     |
| 6     | G.1.1     | 1 No. light point controlled by 1 No 10A, SP Switch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Nos  |         | 21.00    | 2,200.00      | 46,200.00  |
| 7     | H.1.1     | Circuit wiring for light points using 2 Runs of 2.5 sq.mm PVC insulated copper wires along with 1 Run of 1.5 sqmm pvc copper wire (Green) for continuous earthing, through suitable GI Conduit Heavy Duty PVC Conduit GI Trunking from DB to Light control switch box Normal Sockets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mtr  |         | 900.00   | 250.00        | 225,000.00 |
| 8     | H.1.3     | Power points using 2 Runs of 4 sq.mm PVC insulated copper wires along with 1 Run of 4 sqmm pvc copper wire (Green) for continuous earthing, through suitable GI Conduit Heavy Duty PVC Conduit GI Trunking from Main DB to UPS DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mtr  |         | 30.00    | 310.00        | 9,300.00   |
| 9     | H.1.4     | Power points using 2 Runs of 6 sq.mm PVC insulated copper wires along with 1 Run of 4 sqmm pvc copper wire (Green) for continuous earthing, through suitable GI Conduit Heavy Duty PVC Conduit GI Trunking from Main DB to LDB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mtr  |         | 10.00    | 380.00        | 3,800.00   |
| 10    | J         | POWER POINTS (SWITCHES SOCKETS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |         | 0.00     | 0.00          | 0.00       |
| 11    | J.1       | Supply, Installation, Testing Commissioning of approved makes Devices (Switches Sockets - Face Plate Finish as approved by Architect Matching to Architecture interior Finishes) complete with suitable GI Back boxes, Earthing, accessories, glands, Labeling of wires etc. with Termination of the same with Solderless Tinned Copper Lugs, etc. on Surface Concealed as per site condition maintain aesthetic of the unit. Type and IP rating should be as per Airport requirements.<br>The rate shall include wall chasing, chipping of floors, rough plastering. The unit shall be suitable for 400 ± 15 volts 3 phase and 230 ± 10 volts 1 phase, 50 60 Hz, AC supply as per Airport Country power supply.<br>Modular Switches, Sockets - Legrand, ABB, Schneider, Siemens |      |         | 0.00     | 0.00          | 0.00       |
| 12    | J.1.1     | 13A Single Switched Socket Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |         | 10.00    | 1,200.00      | 12,000.00  |
| 13    | J.1.5     | 16A Single Switched Socket Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |         | 33.00    | 810.00        | 26,730.00  |
| 14    | J.1.9     | 16A Single Phase Industrial Switched Socket (3 pin) ((wall mounted metal clad socket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |         | 3.00     | 3,000.00      | 9,000.00   |
| 15    | J.1.10    | 20A Single Phase Industrial Switched Socket (3 pin) ((wall mounted metal clad socket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |         | 7.00     | 3,200.00      | 22,400.00  |
| 16    | L.1.1     | 2 KVA Single phase UPS with 30 Minute Back-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nos. |         | 1.00     | 55,000.00     | 55,000.00  |

|    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |      |          |          |
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| 17 | M.1   | Supply, Installation, Testing Commissioning of approved makes CCTV System with suitable required cabling through suitable size GI Conduit GI Trunking (Containment size Type selection as per site requirement), complete with suitable GI Back boxes, Earthing, accessories, flexible conduits, glands, saddles, supports, ropes for future wire pulling, Labeling of wires etc. with Termination of the same with CCTV console DVR with Power Box , Suitable POE with Port switch Surveillance hard disk,etc. carrying out Surface Concealed wiring as per site condition maintain aesthetic of the unit.<br>The rate shall include wall chasing, chipping of floors, rough plastering, providing suitable supports brackets for conduit and Trunking suspension.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  | 0.00 | 0.00     | 0.00     |
| 18 | N.1.3 | WIFI Router                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nos  |  | 1.00 | 4,500.00 | 4,500.00 |
| 19 | O.1.2 | Volume Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |  | 1.00 | 1,200.00 | 1,200.00 |
| 20 | A.1   | If any termination connection of the unit services are required outside the site location (i.e. connection of the unit M E to the airport M E or service termination to the airport external façade roof etc.); then the contractor has to work in consultation with the airport to plan, design detail for such connections. The contractor to do all necessary site surveys to verify the optimal routing for the services in such cases. Finally, the contractor to make good after installation any penetrations including providing fire seals as required as per airport requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |  | 0.00 | 0.00     | 0.00     |
| 21 | E     | DISTRIBUTION BOARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  | 0.00 | 0.00     | 0.00     |
| 22 | E.1   | Supply, Installation, Testing Commissioning of approved make Surface Flush Floor mounting 10kA 25kA Distribution Boards, Devices, Relays and all accessories. The RYB sequence should be provided at the incomer entry, followed by on off and trip indicators. The DB shall be made out of 1.2 mm CRCA sheet steel enclosure and powder coated complete with cable gland plate knock out at the top and bottom. The DB shall have hinged lockable door. The busbar shall be tinned copper, for phases mounted on suitable type Insulator, Independent neutral busbar including inter connecting wiring earth bus on insulation mount, complete with Protective devices (MCCB, MCB, RCCB, RCBO, etc.) The Contractor shall be responsible to supply materials and equipment complying with the green building specification if required.<br>All DB s must named as per the SLD Load Calculation Sheet. Laminated SLD Load Calculation Sheet shall be placed near to DB Locations.<br>The RCCB RCBO shall be Hpi Si series MCB s shall be B C Curve (As per Airport requirement).<br>LT Siwitchgear (MCCB, MCB, RCBO, RCCB) -Legrand, ABB, Schneider, Siemens<br><br>MFM meter shall be of Digital kVAH Type of approved make or any other make with kVAH option with Approval from TS Department. 160 5A CT with Energy Meter as per the scheme. |      |  | 0.00 | 0.00     | 0.00     |
| 23 | P.1.1 | Labelling Tagging for Services and Equipment s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lot  |  | 1.00 | 5,000.00 | 5,000.00 |
| 24 | Q     | MISCELLANEOUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  | 0.00 | 0.00     | 0.00     |
| 25 | Q.1.2 | Provide and Fixing Shock Treatment Chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit |  | 1.00 | 200.00   | 200.00   |
| 26 | R     | SHOP DRAWINGS APPROVALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  | 0.00 | 0.00     | 0.00     |
| 27 | A     | CONNECTING INTEGRATING UNIT M E SERVICES TO AIRPORT M E SERVICES BUILDING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  | 0.00 | 0.00     | 0.00     |

|    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |  |        |          |           |
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| 28 | C.1   | Supply and Laying of approved make Fire Rated LSZH XLPE insulated PVC sheathed, Copper conductor, Steel Tape Wire Armoured, 1100V grade cable, Number of Cable Core as per SLD Load Calculation Sheet (Main Cable) Unarmoured Single Core Wire (ECC). The cable shall be laid Underground on Cable Tray through Cable Trunking in Pipe on Wall Trench using necessary supporting clamping arrangements. The cable shall be provided with cable identification tags made out of Aluminium strip, engraved with cable size and the routing.<br>Make - Polycab, KEI, RR, Havells, Gemco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  | 0.00   | 0.00     | 0.00      |
| 29 | C.1.2 | 4C X 25 SQ.MM XLPE AL. CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mtr  |  | 12.00  | 450.00   | 5,400.00  |
| 30 | C.1.3 | 4C X 6 SQ.MM XLPE CU. CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mtr  |  | 200.00 | 450.00   | 90,000.00 |
| 31 | D.1   | Supply and Installation of approved make cable end Termination for the following cables using Single Compression Brass Glands, Solderless Tinned Copper Lugs, Gland earthing of adequate size, etc.complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |  | 0.00   | 0.00     | 0.00      |
| 32 | E.1.4 | UPS DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Each |  | 1.00   | 9,500.00 | 9,500.00  |
| 33 | F.1   | Supply laying testing and commissioning of strip and round conductor (Copper Aluminium GI) as per IS3043 on surface or recess of through conduit of suitable size as required. All body part should be double earthed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |  | 0.00   | 0.00     | 0.00      |
| 34 | F.1.1 | 25x6 GI Strip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Nos  |  | 50.00  | 180.00   | 9,000.00  |
| 35 | G     | LIGHT POINT WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  | 0.00   | 0.00     | 0.00      |
| 36 | G.1   | Supply, Installation, Testing Commissioning of Point wiring (Light Fixtures to be as approved by Architect Design BOQ) with approved makes Switches Lighting Control Switch Board with FRLSH PVC insulated Flexible Copper Wires 660 1100V grade using 2 X 1.5 Sq mm PVC insulated fine stranded single core FRLSH copper conductor wires phase and neutral and with 1.5 Sq mm PVC insulated, green coloured, fine stranded single core copper cable as earth continuity, earth wire crimped to copper socket, fastened using brass bolt and nut etc through suitable size GI Conduit Heavy Duty PVC Conduit GI Trunking (Containment size Type selection as per site requirement), complete with suitable GI Back boxes, Earthing, accessories, flexible conduits, glands, saddles, supports, ropes for future wire pulling, Labeling of wires etc. with Termination of the same with Solderless Tinned Copper Lugs, etc. carrying out Surface Concealed wiring as per site condition maintain aesthetic of the unit. Wiring shall be as per IS 732.<br>The rate shall include wall chasing, chipping of floors, rough plastering, providing suitable supports brackets for conduit and Trunking suspension.<br>Wire Make - Polycab, KEI, RR, Havells, Gemco<br>Modular Switches, Sockets - Legrand, ABB, Schneider, Siemens<br>GI PVC Conduit Make -AKG, BEC (ISI marked) |      |  | 0.00   | 0.00     | 0.00      |
| 37 | H.1   | Supply, Installation, Testing Commissioning of approved makes FRLSH PVC insulated Flexible Copper Cable Wires 660 1100V grade through suitable size GI Conduit Heavy Duty PVC Conduit GI Trunking (Containment size Type selection as per site requirement) for the following types of wires. For dummy sockets wiring considered.<br>Wire Make - Polycab, KEI, RR, Havells, Gemco<br>GI PVC Conduit Make -AKG, BEC (ISI marked)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |  | 0.00   | 0.00     | 0.00      |

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|----|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|--------|-----------|------------|
| 38 | J.1.11 | 32A Three Phase Industrial Switched Socket (5 pin) ((wall mounted metal clad socket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Nos  |  | 6.00   | 5,400.00  | 32,400.00  |
| 39 | J.1.12 | 20A Three Phase Isolator with Enclosure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Nos  |  | 2.00   | 1,575.00  | 3,150.00   |
| 40 | L      | UPS SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  | 0.00   | 0.00      | 0.00       |
| 41 | M      | CCTV SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  | 0.00   | 0.00      | 0.00       |
| 42 | M.1.1  | CCTV Ceiling Mount Dome Camera, As approved or confirmed by client with all necessary accessories, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Nos  |  | 0.00   | 0.00      | 0.00       |
| 43 | M.1.2  | Suitable size IDF RACK with Necessary Patch Panel Network switch as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos  |  | 0.00   | 0.00      | 0.00       |
| 44 | M.1.3  | 16-Channel DVR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Nos  |  | 0.00   | 0.00      | 0.00       |
| 45 | N.1    | Supply, Installation, Testing Commissioning of approved makes Data Telephone Network System with required cabling through suitable size GI Conduit Heavy Duty PVC Conduit GI Trunking (Containment size Type selection as per site requirement), complete with suitable GI Back boxes, Earthing, accessories, flexible conduits, glands, saddles, supports, ropes for future wire pulling, Labeling of wires etc. with Termination of the same with IDF SERVER Rack using patch cordes, etc. carrying out Surface Concealed wiring as per site condition maintain aesthetic of the unit.<br><br>The rate shall include wall chasing, chipping of floors, rough plastering, providing suitable supports brackets for conduit and Trunking suspension. |      |  | 0.00   | 0.00      | 0.00       |
| 46 | N.1.1  | Single Data outlet (RJ45) Jack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Nos  |  | 4.00   | 600.00    | 2,400.00   |
| 47 | O.1    | Supply, Installation, Testing Commissioning of approved makes PA System with required cabling through suitable size GI Conduit GI Trunking (Containment size Type selection as per site requirement), complete with suitable GI back boxes, Earthing, EOLR, accessories, flexible conduits, glands, saddles, supports, ropes for future wire pulling, Labeling of wires etc. with Termination of the same with IDF Rack, etc. carrying out Surface Concealed wiring as per site condition maintain aesthetic of the unit.<br>The rate shall include wall chasing, chipping of floors, rough plastering, providing suitable supports brackets for conduit and Trunking suspension.                                                                    |      |  | 0.00   | 0.00      | 0.00       |
| 48 | P      | ELECTRICAL SERVICE IDENTIFICATION LABELS, SIGNS TAGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  | 0.00   | 0.00      | 0.00       |
| 49 | P.1    | All services like Panels, Cables, Pipes etc need to be clearly labelled or tagged at site with service identification, direction etc. And all equipment needs to tagged as per Airport requirements .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |  | 0.00   | 0.00      | 0.00       |
| 50 | Q.1.1  | Providing and Fixing of Electrical Standard Grade Rubber Mat suitable for LT Volts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit |  | 1.00   | 700.00    | 700.00     |
| 51 | Q.1.3  | Provide and Fixing of L.T. danger sign boards in Panel side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit |  | 1.00   | 200.00    | 200.00     |
| 52 | D.1.1  | 3.5C x120 SQ.MM XLPE AL. CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Nos  |  | 4.00   | 1,000.00  | 4,000.00   |
| 53 | D.1.2  | 4C X 25 SQ.MM XLPE AL. CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos  |  | 2.00   | 800.00    | 1,600.00   |
| 54 | D.1.3  | 4C X 6 SQ.MM XLPE CU. CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nos  |  | 16.00  | 550.00    | 8,800.00   |
| 55 | E.1.3  | LDB16 Way SPN DBIncomer 32A 30mA DP RCCB-1 No.Outgoings10 16 20 25A SP MCB- 12 Nos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each |  | 1.00   | 13,500.00 | 13,500.00  |
| 56 | G.1.2  | Secondary light points. (from the first light point without supply and installation of switches.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nos  |  | 109.00 | 1,350.00  | 147,150.00 |

|    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |  |        |          |           |
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| 57 | H     | CIRCUIT WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  | 0.00   | 0.00     | 0.00      |
| 58 | K.1.2 | 200x 50 mm Cable Tray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mtr  |  | 5.00   | 500.00   | 2,500.00  |
| 59 | K.1.3 | 100x 50 mm Cable Tray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mtr  |  | 55.00  | 350.00   | 19,250.00 |
| 60 | N     | DATA NETWORK SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |  | 0.00   | 0.00     | 0.00      |
| 61 | N.1.4 | SITC of CAT6 cable on surface concealed wall, including suitable conduits, fittings, accessories, etc.(For dummy points cabling considered)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mtr. |  | 220.00 | 80.00    | 17,600.00 |
| 62 | O     | PA SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |  | 0.00   | 0.00     | 0.00      |
| 63 | O.1.4 | SITC of 2C 1.5 Sq mm Cu multi-stranded PVC insulated shielded FRLS cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mtr. |  | 50.00  | 120.00   | 6,000.00  |
| 64 | Q.1   | The contractor needs to mention any additional items or missing items that are not mentioned in the above BOQ after a detailed site survey or inspection and to be validated by consultants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |  | 0.00   | 0.00     | 0.00      |
| 65 | R.1   | Preparation and submission of a detailed shop drawing for the electrical system after a thorough study of design drawings, site surveys, and relevant airport standards with correct routing, size, and elevations. The drawings also need to be coordinated with other MEP services like HVAC, plumbing, and fire services, along with updating SLD, load calculation sheets, and power layouts as per approved, selected, or supplied equipment power and phase requirements, this also needs to be coordinated with latest architectural, structural and interior design drawings, before construction. Necessary amendments to the drawings are to be made and resubmitted in case of any variations on site while at the construction stage of the project. Also prepare relevant detailed connection drawings as per selected manufacturer details and airport standards, with necessary approval to be obtained from consultants and authority regulatory bodies having jurisdiction, along with material submission approval with airport authorities. |      |  | 0.00   | 0.00     | 0.00      |
| 66 | F     | EARTHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |  | 0.00   | 0.00     | 0.00      |
| 67 | F.1.2 | 10 SWG Copper conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos  |  | 24.00  | 80.00    | 1,920.00  |
| 68 | F.1.3 | 12 SWG Copper conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos  |  | 80.00  | 80.00    | 6,400.00  |
| 69 | H.1.2 | Power points using 2 Runs of 4 sq.mm PVC insulated copper wires along with 1 Run of 2.5 sqmm pvc copper wire (Green) for continuous earthing, through suitable GI Conduit Heavy Duty PVC Conduit GI Trunking from DB to Power points.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mtr  |  | 300.00 | 310.00   | 93,000.00 |
| 70 | J.1.2 | 13A Dual Switched Socket Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |  | 4.00   | 2,000.00 | 8,000.00  |
| 71 | J.1.3 | 13A Single Unswitched Socket Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  | 2.00   | 600.00   | 1,200.00  |
| 72 | J.1.4 | 13A Dual Switched Socket Outlet + Dual USB Port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |  | 10.00  | 3,500.00 | 35,000.00 |
| 73 | J.1.6 | 16A Single Unswitched Socket Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  | 1.00   | 600.00   | 600.00    |
| 74 | J.1.7 | 13A One Gang One Way Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nos  |  | 2.00   | 255.00   | 510.00    |
| 75 | J.1.8 | Double Pole Switch With Neon Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos  |  | 1.00   | 600.00   | 600.00    |
| 76 | K     | CONTAINMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  | 0.00   | 0.00     | 0.00      |
| 77 | K.1   | Supply Installation of approved makes GI Conduit Heavy Duty PVC Conduit, through Wall Ceiling Floor as per drawings, complete with ISI standard accessories factory made fittings. GI PVC Conduit Make -AKG, BEC (ISI marked) Cable tray- MEM, Profab (ISI marked)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |  | 0.00   | 0.00     | 0.00      |

|                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |  |                 |           |                     |
|----------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|-----------------|-----------|---------------------|
| 78             | K.1.1 | 250x 50 mm Cable Tray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mtr  |  | 20.00           | 550.00    | 11,000.00           |
| 79             | L.1   | Supply, Installation, Testing Commissioning of approved makes UPS along with required Battery for specified back-up time, complete with Battery Stand (If required) standard accessories equipments required for complete functioning of the system, earthing, support system (if required), etc. The Contractor shall be responsible to supply materials and equipment complying with the green building specification if required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |  | 0.00            | 0.00      | 0.00                |
| 80             | M.1.4 | 3+ 1 cable on surface concealed wall, including suitable conduits, fittings, accessories, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mtr. |  | 150.00          | 80.00     | 12,000.00           |
| 81             | N.1.2 | Dual Data outlet (RJ45) Jack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos  |  | 2.00            | 1,200.00  | 2,400.00            |
| 82             | O.1.1 | 6 Watts ceiling mount Speaker with all the necessary accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nos  |  | 5.00            | 2,500.00  | 12,500.00           |
| 83             | O.1.3 | PA Controller with Amplifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos  |  | 1.00            | 25,000.00 | 25,000.00           |
| 84             |       | General guideline for onsite electrical works 1. DB have per phase RCBO protection.2. Minimum wire size shall be 2.5 Sq. mm and power circuits wire size should be 4.0 sq.mm.3. All equipment's above 1 KW shall be provided with ELCB shall run operated through industrial type switch socket only.4. Only GI conduit will be used.5. Equipment protection devices and appropriate earthing as per approved load to be provided.6. All DB and panel have dual earthing connection.7. All internal wires cables shall be FRLSH FRLSZH.8. Main distribution board will not be fixed on wooden material.9. IT , Data and low voltage wires shall be drawn In Separate10. Switch Sockets outlets will not be over loaded with multiple connection conduit and not with electrical 11. All lights shall be LED.12. Provision of Emergency light should be there.13. No combustive material are to be store under closed the electrical switch board distribution board meter etc.14. The concessioner should install suitable type rated fire extinguisher near electrical panel.15. Shutter type switch socket outlet on suitable MS box shall be used with proper earthing.16. All electrical equipment shall be proper earthed and connected to main earthing with suitably sized earthing conductor.17. Final approved Single line diagram sealed in a plastic folder shall be provided inside each electrical panel.13. No combustive material are to be store under closed the electrical switch board distribution board meter etc.18. Load balancing to be done.19. Power connection for Existing BTU meter Water meter to be provided from concessionaire DB.20. All electrical source to be enclosure with IP65 Device with louvered openable cabinet and all fire protection.21. Panel GA drawing to be share with DIAL for approval.22. Before installation, material inspection to be done.23. Test certificate for installed electrical material to be submitted to DIAL . 24. If any changes due to site constraint, prior intimation to be provided to DIAL. Post approval only SLD to revised.25. all SP MCB as 'C' characteristic.In case, Incomer rating equal to or more than 200Amps Automatic Tube Detection and Suppression System to be doneCO2,FM200 HFC-227ea gas based automatic tube detection suppression system needs to be installed for Electrical Panel with Incomer rating equal to or more than 200Amps.Drawing needs to be submitted for prior approval.System sizing design calculations also need to be incorporated in drawing. |      |  | 0.00            | 0.00      | 0.00                |
| <b>Total :</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |  | <b>2,392.00</b> |           | <b>1,130,410.00</b> |