

# Purchase Order

## TFS GURGAON AIRPORT SERVICES PRIVATE LIMITED

Order Number : TFS GURGAON/PO/24-25/000038

<b>Supplier Detail</b> CHIRAG ELECTRICAL Supplier Code : RV242524030 [ V0000044 ]	<b>Shipped Location</b> TFS GURGAON AIRPORT SERVICES PRIVATE LIMITED TFS Delhi T1	<b>Invoice Location</b> TFS GURGAON AIRPORT SERVICES PRIVATE LIMITED TFS Delhi T1
(V0000044)	Delhi Terminal 1, Indira Gandhi International Airport, Domestic Departure SHA, Mehram Nagar, New Delhi, 110037	Delhi Terminal 1, Indira Gandhi International Airport, Domestic Departure Sha, Mehram Nagar, New Delhi, 110037  GSTIN No : 07AAKCT9336M1ZL
PAN No : AOXPA2638B Supplier GST No : 07AOXPA2638B2Z2 Supplier Contact No : Contact Person Name : MOHD AKIL Supplier Email : pushpak.shewale@k-corp.in	Cost Center Code : 91180052 Cost Center Name : DEL T1 WANCHAI BY KYLIN Project ID : 0 PO Category : Capex NSO	Payment Term : •Mobilisation advance 30% against post dated cheque of equivalent amount •R.A bill-1 Further 20% upon work completion 60% post submission of invoice and joint certification post deduction of mobilisation advance •R.A bill-2 Further 20% upon 90% work completion & post submission of invoice and joint certification •Final payment 25% upon 100% work completion, within 30 days of joint work certification •Retention-5% post completion of DLP of 1 year from date of virtual completion PO Creation Date : 31/12/2024 PO Approval Date : 0 PO Currency : INR 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	Interior Electrical	995461	Interior Electrical		C01	1.00	NOS	793,431.00	0.00	793,431.00	793,431.00	9	9	936,248.58

Total Qty : 1.00

Total Basic PO Amount	793,431.00
Total Other Charges	
SGST Amount	71,408.79
CGST Amount	71,408.79
<b>Grand Total PO Amount</b>	<b>936,248.58</b>

Amount In Words : Rupees Nine Lakh Thirty Six Thousand Two Hundred Fourty Eight And Fifty Eight 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 :** 31/01/2025

**Mobilization Date :** 02/01/2025

**Defects Liability Period :** 31/12/2024

**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 : Interior Electrical

ItemName : Interior Electrical

Sr No	Item Code	Item Name	UOM	Remarks	Quantity	Supplier Rate	Amount
1	1.1.1	MAIN PANEL	Set		1.00	45,900.00	45,900.00
2	1.2.4	UPSDB (16WAY SPN)	Set		1.00	9,775.00	9,775.00
3	2.1	Supply and laying, effecting proper connections, testing commissioning of the following sizes of 1.1 KV XLPE armoured unarmoured PVC insulated PVC sheathed aluminium copper conductor cables conforming to IS 1554 and IS 694 for Flexible copper cable Part I - 1976 with latest amendments laid over MS supports in existing RCC ducts laid in ground laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories.All cables shall have thermo setting insulation XLPE and low emission of smoke and corrosive gas when affected by fire. Necessary Markers shall be provided at the intervals as per the specifications.			0.00	0.00	0.00
4	2.1.7	4C x 16 Sq.mm. CU Cable - KPDB1 KPDB2, ELECTRIC HOT PLATE	R.M		80.00	750.00	60,000.00
5	2.2.10	4C x 4 Sq.mm. CU Cable - AHU	Nos.		6.00	500.00	3,000.00
6	2.2.18	3C X 1.5sq.mm CU PVC Cable	Nos.		2.00	250.00	500.00
7	1	PANELS DBsSupply and Installation of main LT panel,generally conforming to IS 8623 IS-13947 IEC-439 front operated, dead back floor mounted , totally enclosed, compartmentalised, vermin proof,indoor, non-drawout type,power panel, fabricated out of 2 1.6mm thick CRCA sheets, fully powder coated after seven tank treatment, having gasketed hinged cover on each cubicle with insulated door knob, incorporating horizontal and vertical copper busbars complete with all internal wiring, danger sign board, earth-bus and lugs, cable chamber, busbar chamber,aluminium anodized name plates etc.as required, including 2 nos. of 6 dia instrument cooling fan with switch and ventilation louvres with wire mesh,housing below mentioned switchgears meters. 9W fitting with CFL lamp, switch shall be provided in each vertical section, (Panel should conform to Form- 3b of IEC- 439) (GA drawing of the panel to be got approved from the Consultant before taking up fabrication and all panels to be factory inspected before despatch) Notes 1. All MCCBs shall have rotary handle 2. All MCCBs shall have phase spreader assembly onboth Line Load ends. 3. All MCCB shall have Minimum Ics=Icu4. Incomer shall have auxilliary ON OFF TRIP status contacts and the same shall be wired upelectronic trip setting to Metering Compartment)5. The panel shall conform to Form-3b as per IEC-4396. All MCCB to be of Schneider ABB make7. All MCCB to be current limiting type, LSIG 8. Incomer MCCB to be shunt trip facility7. With DOL Starter 2.2KW 1.5KW for air washer exhaust fan8. With VFD for 2.2KW 1.5KW for air washer exhaust fan make Selec9.Please provide CO2,FM200 HFC-227ea gas based automatic tube detection suppression system needs to be installed in Electrical Panel Refer SLD			0.00	0.00	0.00

8	3.0	POINT WIRING LIGHT POINTSub mains Pre-Primary wiring i.e. from DB to room switch board shall be carried out for Pre-primary point using 2.5 sqmm copper stranded. All lighting fixture, wiring shall be carried out for primary point using 2.5 sqmm copper stranded for secondary wiring 1.5sqmm copper stranded conductor 660 1100V grade PVC FRLS insulated wire in GI Conduits (including flexible conduits for drops to light fittings) . Individual junction inspection boxes shall be provided for each lighting fitting for the purpose of looping from fitting to fitting,also including insulated green color copper earth wire for each circuit and providing modular grid plate type switches,sockets etc. as required. Each light point to be terminated using 5A connector or 5A two pin female socket (for cove lighting) as directed at site. Each circuit feeding not more than 12-8 points 800 watts as per following configuration (LDBs located at two locations as shown) (The Switch Socket cost shall be paid separately.)From distribution board to switch board will be termed as Pre-primary point, average wiring length for Pre-primary point to be considered as 15 metres. From switch board to first light fitting and switch board to switch board will be termed as primary point, average wiring length for primary point to be considered as 6 metres and First fitting to subsequent fitting on the same circuit shall be termed as secondary point, average wiring length for secondary point to be considered as 4 metres. Light point wiring shall be included submains wiring from D.B. to room switch board. Note Length may vary as per actual site condition. Vendor shall be crossverify before bidding.			0.00	0.00	0.00
9	3.4.1	total points	Nos		36.00	3,500.00	126,000.00
10	3.7	Supply, Installation testing and commission of 240V-AC, wiring devices and its accessories such as modular shuttered type switch socket outlets with modular front plate, on Suitable MS box, G.I. back box and all required accessories etc. Supply Installation scope includes all civil works related to this job such as chiselling , making good with concrete and plaster, supply of fixing screw wall plugs and other necessary hardware, marking identification numbers of circuits interconnections of the switch sockets as per standard drawing, complete as per site requirement. Switches and sockets may be individual or combined with bigger lighting switchboards, contractor to refer drawings to understand exact scope of work. LEGRAND			0.00	0.00	0.00
11	3.7.5	20 32A METAL CLAD WITH 20A SP MCB PLUG TOP	Nos.		4.00	3,500.00	14,000.00
12	3.7.24	DATA POINT	Nos.		1.00	600.00	600.00
13	5.1	Installation of lighting fixtures with lamps as per the details below including necessary hardware such as clamps, nuts, bolts, nails screws and suspension rods as required for fixing the fixtures in position as directed by architect consultant at site.			0.00	0.00	0.00
14	7.1	Supply Install. Of RG 6 TV Cable in 25mm PVCConduit	Mtr.		45.00	80.00	3,600.00
15	7.2	Supply Laying of RG11 use for Main Cable TV	Mtr.		45.00	80.00	3,600.00
16	8.8	CABLES			0.00	0.00	0.00
17	8.8.4	Patch cord (2 mtr-user end)	Each		2.00	300.00	600.00
18	8.11	Project Management including Freight Forwarding, Cable Bunching, Printed Numbering, tube type Ferruling both sides, Face plate, Patch panel patch cords both sides, Documentation etc..	Job		1.00	15,000.00	15,000.00

19	1.2	Supply and installation of Four -Tier, Multi-Way, TPN, Distribution Board for Lighting Power distribution, surface mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged acrylic door with all internals such as DIN rails, neutral-link, interconnected wiring complete with earthing lugs housing switchgears (IP-43 with Metal Door) Refer SLD DB Schedule (Make Legrand-Ekinoxe Schneider)			0.00	0.00	0.00
20	1.5	Supply of 16A, TPN, MCB type Isolator + 415 V, Industrial Power socket in powder coated metal box for supplying power to AC equipment etc. IP65	Nos		8.00	3,500.00	28,000.00
21	2.1.10	4C x 4 Sq.mm. CU Cable - AHU	R.M		20.00	350.00	7,000.00
22	2.2	CABLE TERMINATION			0.00	0.00	0.00
23		Making cable and terminations including brass single compression glands and crimping type copper lugs for cable sizes mentioned below for aluminium or copper.			0.00	0.00	0.00
24	2.2.9	4C x 6 Sq.mm. CU Cable - KITCHEN EXHUAUST FRESH AIR	Nos.		2.00	500.00	1,000.00
25	2.2.14	3C X 6sq.mm CU Cable - UPS, UPS DB	Nos.		7.00	500.00	3,500.00
26	2.2.22	5C X 2.5sq.mm CU Cable - LCS	Nos.		8.00	250.00	2,000.00
27		Total points	Nos		40.00	2,200.00	88,000.00
28	3.7.1	6A SWITCH SOCKET(UTILITY POINT)	Nos.		5.00	600.00	3,000.00
29	4.0	RACEWAYS, CABLE TRAYS JUNCTION BOX			0.00	0.00	0.00
30	5.0	LIGHT FIXTURES INSTALLATION			0.00	0.00	0.00
31	5.1.2	HANGING LIGHT	Nos		5.00	255.00	1,275.00
32	5.1.3	CYLINDRICAL LIGHT	Nos		20.00	255.00	5,100.00
33	6.0	EARTHING			0.00	0.00	0.00
34	6.3	8 SWG GI bare wire	Mtr		50.00	40.00	2,000.00
35	6.7	Supply of isolated dedicated earthing grounding system for computers etc.using insulated green-yellow copper earthing wire laid fixed bare on wall ceiling from separately made earth pit to the equipment in following sizes The rate shall include termination also .			0.00	0.00	0.00
36	6.7.1	6 Sqmm copper, yellow-green green insulation	Mtr		10.00	100.00	1,000.00
37		Supply, Installation, termination testing of data system			0.00	0.00	0.00
38	8.13	Supply installation of GI Conduits with junction boxes, reducer etc. complete concealed surface mounting as required.			0.00	0.00	0.00
39	9.0	SUPPLY INSTALLATION OF SAFETY ITEMS			0.00	0.00	0.00
40	9.3	Caution boards (415V) of std. Size	Nos		1.00	300.00	300.00
41	9.4	Rubber mat at panel room 12mm thk. 1mtr. Wide	Mtrs		1.00	500.00	500.00
42	1.2.2	KITCHEN DB 2 (BARDB-8WAY TPN)	Set		1.00	25,000.00	25,000.00
43	1.2.4	UPS OUTPUT	Set		1.00	5,950.00	5,950.00
44	2.1.5	3.5C x 35 Sq.mm. AL Cable	R.M		80.00	500.00	40,000.00
45	2.1.9	4C x 6 Sq.mm. CU Cable - KITCHEN EXHUAUST FRESH AIR	R.M		20.00	450.00	9,000.00
46	2.1.21	2C X 2.5sq.mm CU Cable	R.M		25.00	200.00	5,000.00
47	2.1.22	5C X 2.5sq.mm CU Cable - LCS	R.M		25.00	350.00	8,750.00

48	2.2.5	3.5C x 35 Sq.mm. AL Cable	Nos.		2.00	800.00	1,600.00
49	2.2.21	2C X 2.5sq.mm CU Cable	Nos.		8.00	250.00	2,000.00
50	3.4	Power Point (Kitchen FOH)Primary wiring i.e. from DB to first power point shall be carried out for primary point using 3R x 4 sqmm copper stranded. Also used 3R x 2.5sqmm copper stranded. Secondary wiring 4 sqmm copper stranded conductor 660 1100V grade PVC FRLS insulated wire in GI Conduits . Individual junction inspection boxes shall be provided for each power point to loop from power point to a power point. Only 4 points looped in one circuit) From DB to First Socket.From distribution board to first power point will be termed as primary point, average wiring length for primary point to be considered as 22 metres. First power point to subsequent power point on the same circuit shall be termed as secondary point, average wiring length for secondary point to be considered as 1 metres. Power point wiring shall be included wiring from D.B. to room indivisual power point. Note Length may vary as per actual site condition. Vendor shall be crossverify before bidding.			0.00	0.00	0.00
51	3.7.2	POS COUNTER	Nos.		1.00	850.00	850.00
52	4.4	S 1 of 1 Run x 25mm dia, GI Conduit in Floor.	Mtr		6.00	180.00	1,080.00
53	5.1.1	CEILING PANEL LIGHT	Nos		20.00	400.00	8,000.00
54	6.1	S 1 of earth pit comprising of specially designed SEE Ashlok brand Earth Electrode system 3.00 meter long including necessary materials like side fill compound etc. as required with standard brick masonry chamber with hinged cover and watering arrangement model SEE-60 C with SFC-20 Equivalent ASHLOK MODEL T39 HD (50MM DIA. 3 MTR)	Nos		2.00	7,000.00	14,000.00
55	6.4	8 SWG CU bare wire	Mtr		20.00	100.00	2,000.00
56	6.8	S 1 of Main bus for isolated earth comprising of 300mm x 25 mm x 3mm thick Tinned copper bar fixed on insulated support and having 10 nos of holes and nut bolts studs for clamping the earth leads,all contained in MS PVC box and having transparent acrylic cover as approved by the consultant	Nos		1.00	2,125.00	2,125.00
57	8	DATA DISTRIBUTION			0.00	0.00	0.00
58	8.2	SMART GIGABIT SWITCH 16 PORTS	Nos.		1.00	6,000.00	6,000.00
59	8.4	LIU switch with Accessories. (Optional if Fibre Optic Cable terminated)	Job		1.00	5,000.00	5,000.00
60	8.5	Supply Installation of I O DATA Outlet (RJ-45)	Nos.		2.00	600.00	1,200.00
61	8.9	Supply, Installation, Testing Commissioning of Velcro Ties ( 22 Mtrs = 1 Roll)	Roll		1.00	500.00	500.00
62	8.10.	Supply, Installation, Testing Commissioning of Cable Ties 200mm ( 100 Nos. Pkt)	Pkt.		1.00	500.00	500.00
63	1.2.1	KITCHEN DB 1 (KPDB-12WAY TPN)	Set		1.00	33,000.00	33,000.00
64	9.8	The contractor to submit all the AS BUILT DRAWINGS after the completion of the project for Electrical ELV Services executed at site.	Part of Tender		0.00	0.00	0.00
65	1.2.3	LPDB 1 (12WAY TPN)	Set		1.00	33,000.00	33,000.00
66	11.0	CCTV			0.00	0.00	0.00
67	2.0	CABLES			0.00	0.00	0.00

68	2.1.14	3C X 6sq.mm CU Cable - UPS, UPS DB	R.M		50.00	450.00	22,500.00
69	2.1.18	3C X 1.5sq.mm CU PVC Cable	R.M		20.00	200.00	4,000.00
70	2.2.7	4C x 16 Sq.mm. CU Cable - KPDB1 KPDB2, ELECTRIC HOT PLATE	Nos.		8.00	800.00	6,400.00
71	3.7.4	5 15A POWER PLUG POINT(MODULAR SWITCH SOCKET)	Nos.		10.00	765.00	7,650.00
72	3.7.22	5 Pin Industrial 16A Socket (3 PHASE)	Nos.		4.00	5,100.00	20,400.00
73	6.6	25mm x 6mm thick GI strip welded painted green	Mtr		40.00	200.00	8,000.00
74	7	Miscellaneous Item			0.00	0.00	0.00
75	7.3	Install. Of Digital Screen - Only Installation	Nos.		7.00	500.00	3,500.00
76	8.3	Loaded PATCH PANEL for 16Port	Nos.		1.00	6,000.00	6,000.00
77	8.8.3	Supply providing of CAT 6 UTP cables in the laid raceways Conduits including terminations	Mtr.		16.80	70.00	1,176.00
78	9.5	Shock treatment chart as per electricity board	Nos		1.00	300.00	300.00
79	10.0	UPS INVERTER System			0.00	0.00	0.00
80	10.1	Supply, Installation, testing and commissioning of 3 KVA UPS System Single Phase I C Single Phase O G complete with 30 Minutes Battery Back-up the required accessories as specified in the drawings the specifications. Make Emerson APC Consul Neowatt Vivtar Electronics	set		1.00	63,000.00	63,000.00
81	11.10	Supply Installation of 3+1 Cable for Camera with GU Couduit	Mtr.		90.00	230.00	20,700.00

82		<p>General guideline for onsite electrical works</p> <ol style="list-style-type: none"> <li>1. DB have per phase RCBO protection.</li> <li>2. Minimum wire size shall be 2.5 Sq. mm and power circuits wire size should be 4.0 sq.mm.</li> <li>3. All equipment's above 1 KW shall be provided with ELCB shall run operated through industrial type switch socket only.</li> <li>4. Only GI conduit will be used.</li> <li>5. Equipment protection devices and appropriate earthing as per approved load to be provided.</li> <li>6. All DB and panel have dual earthing connection.</li> <li>7. All internal wires cables shall be FRLSHRSLSZH.</li> <li>8. Main distribution board will not be fixed on wooden material.</li> <li>9. IT , Data and low voltage wires shall be drawn In Separate</li> <li>10. Switch Sockets outlets will not be over loaded with multiple connection conduit and not with electrical</li> <li>11. All lights shall be LED.</li> <li>12. Provision of Emergency light should be there.</li> <li>13. No combustive material are to be store under closed the electrical switch board</li> <li>14. The concessioner should install suitable type rated fire extinguisher near electrical panel.</li> <li>15. Shutter type switch socket outlet on suitable MS box shall be used with proper earthing.</li> <li>16. All electrical equipment shall be proper earthed and connected to main earthing with suitably sized earthing conductor.</li> <li>17. Final approved Single line diagram sealed in a plastic folder shall be provided inside each electrical panel.</li> <li>18. Load balancing to be done.</li> <li>19. Power connection for Existing BTU meter Water meter to be provided from concessionaire DB.</li> <li>22. Before installation, material inspection to be done.</li> <li>23. Test certificate for installed electrical material to be submitted to DIAL .</li> <li>24. If any changes due to site constraint, prior intimation to be provided to DIAL. Post approval only SLD to revised.</li> <li>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 done</li> <li>CO<sub>2</sub>, 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.</li> <li>20. All electrical source to be enclosure with IP65 Device with louvered openable cabinet and all fire protection.</li> <li>21. Panel GA drawing to be share with DIAL for approval.</li> </ol>			0.00	0.00	0.00
<b>Total :</b>					<b>869.80</b>		<b>793,431.00</b>