

Purchase Order

TRAVEL FOOD SERVICES LIMITED

Order Number : TFSPL/PO/24-25/001185

Supplier Detail PIONEER PROJECT SOLUTION Supplier Code : RV232414136 [V0002345]	Shipped Location TRAVEL FOOD SERVICES LIMITED Delhi Airport_T3	Invoice Location TRAVEL FOOD SERVICES LIMITED Delhi Airport_T3
(V0002345)	Travel Food Services Private Limited ,Pillar No 18, Near Staff Parking, Terminal 3,IGI Airport, New Delhi – 110037	Travel Food Services Private Limited ,Pillar No 18, Near Staff Parking, Terminal 3,IGI Airport, New Delhi – 110037 GSTIN No : 07AADCB2762L2ZJ
PAN No : AHQPA6815Q Supplier GST No : 07AHQPA6815Q2ZQ Supplier Contact No : Contact Person Name : Mohd Ashraf Supplier Email : projectspioneer@gmail.com	Cost Center Code : 90620655 Cost Center Name : DEL NANDOS T3 INT Project ID : 0 PO Category : Capex NSO	Payment Term : Payments Terms: HVAC- Hi Side Advance 100% with GST within 7days of work order acknowledgement(by the vendor) HVAC- Low Side, FAS & Fire Advance - 40% within 7days of Work Order acknowledgement (by the vendor). RA Bill 1- Up to 70% upon 80% work completion & submission on Tax Invoice. Final Bill- Up to 95% upon 100% work completion & signed JMR. PO Creation Date : 16/11/2024 PO Approval Date : 25/11/2024 PO Currency : INR Buyer Name : Pushpak Mahesh Shewale

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		8415	HVAC- high side	HVACHigh side	C01	1.00	NOS	545,000.00	0.00	545,000.00	545,000.00	14	14	697,600.00
2		8415	Hvac - low side	Hvac - low side	C01	1.00	NOS	1,750,000.00	0.00	1,750,000.00	1,750,000.00	9	9	2,065,000.00
3		8424	Fire Sprinkler	Fire Sprinkler	C01	1.00	NOS	181,155.00	0.00	181,155.00	181,155.00	9	9	213,762.90
4		3926	FAS	FAS	C01	1.00	NOS	124,000.00	0.00	124,000.00	124,000.00	9	9	146,320.00

Total Qty : 4.00

Total Basic PO Amount	2,600,155.00
Total Other Charges	
SGST Amount	261,263.95
CGST Amount	261,263.95
Grand Total PO Amount	3,122,682.90

Amount In Words : Rupees Thirty One Lakh Twenty Two Thousand Six Hundred Eighty Two And Ninty 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 : 20-Dec-2025 (30 days from date of receipt of PO)

Mobilization Date : 21/11/2024

Defects Liability Period : 6 Months

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 :
ItemName : HVAC- high side

Sr No	Item Code	Item Name	UOM	Remarks	Quantity	Supplier Rate	Amount
1	1	<p>VRF SYSTEMS VRF OUTDOOR UNITS Supply of air cooled variable refrigerant flow modular type condensing units, each comprising of multiple scroll compressors all inverter driven, full charge of refrigerant gas (R-410a), lubricating oil and all accessories as per the specifications. The condensing units shall be suitable to work on heating cooling mode. The minimum Energy Efficiency Ratio shall be as per ASHRAE STANDARDS 90.1 -2001 table 6.2.1B . The COP of the system shall be greater than 4 under ARI conditions for 100% load . The condensing units shall be suitable for operation on 415 ± 10% volts, 50Hz, 3 phase AC power supply. VRF unit shall be supplied with operating panel for operation control. ODU to have standard factory coated treatment for heat rust corrosion for Condenser coil, panels, motor, electricals heat exchanger, Power Cabling etc. The condensing units shall be of following capacities Refrigeration Capacities indicated below are actual capacity. Selection to be done considering referigerant piping length and derating at @ 40°C. Vendor has to submit highlight if capacity of the unit exceed diversity factor after derating for 40°C ambient conditions. Any alteration in capacity after bidding will not be entertain. Vendor has to provide unit to meet the refrigeration requirement. Make Daikin, Toshiba, Mitsubishi Refrigeration Capacity - 14 HP</p>	Nos		1.00	285,000.00	285,000.00
2	2.2	<p>CEILING MOUNTED TYPE COMPACT CASSETTE UNIT with CORDLESS REMOTE CONTROLLER Indoor Temperature NMT 22°C 318 CFM 0.6 TR</p>	Nos.		1.00	37,500.00	37,500.00
3		<p>GENERAL NOTES The cost shall be included lifting shifting of each equipment material with all necesaary arrangement. Also, it shall be included the cost of scaffolding required for Installation of such material equipment.</p>			0.00	0.00	0.00

4	2.1	VRF INDOOR UNITS Supply, Installation, Testing and Commissioning of variable refrigerant flow modular type indoor units Corded Cordless remote suitable for R410a refrigerant comprising of all accessories as per the specifications. The indoor units shall be suitable to work on cooling as well as heating mode. The minimum Energy Efficiency Ratio shall be as per ASHRAE STANDARDS 90.1 -2001 table 6.2.1B. The indoor units shall be suitable for operation on 220 ±6% volts, 50Hz, 1 phase AC power supply. Ductable indoor units shall be suitable to handle extent of ductwork as shown in the design drawings and dehumidified air quantity as mentioned below. The indoor unit shall be complete with pre filter remote as per requirement. Unit shall be quoted with T-Tube flange connection kit for for higher fresh air intake. Except Hi-wall unit, all other units shall have port for fresh air intake and inbuilt drain pump. The indoor units shall be of following capacities . HIGH STATIC DUCTABLE TYPE INDOOR UNIT with CORDED REMOTE CONTROLLER Indoor Temperature NMT 22°C 2542 CFM 6.4 TR	Nos.		2.00	91,000.00	182,000.00
5		Prices shall be based on supply, installation, testing commissioning (SITC) at site including all taxes, duties, transportation insurance etc.			0.00	0.00	0.00
6	3	CENTRALISED REMOTE CONTROLLER Supply of the Graphic central remote Controller (Touch Screen Type) . It must act as an advanced air conditioning management system to facilitate complete control of VRF air conditioning equipment. It should be user friendly through its touch screen, icon display and color LCD display. Integratable upto 64 remote controller groups (including AHUs TFAs) and BMS compatible with ethernet Wi-Fi communication protocol for remote monitoring. In addition to basic controls such as settings for on stop, the operation mode temperature, the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the details of the problem. An external input terminal is provided as standard. External signals enable the following function central operation stop, demand control, emergency stop, central operation output, central alarm output. Controller shall however be suitable for future connectivity of indoor outdoor units also. Central Remote Controller	Nos.		1.00	40,500.00	40,500.00
Total :					5.00		545,000.00

ItemCode :

ItemName : Hvac - low side

Sr No	Item Code	Item Name	UOM	Remarks	Quantity	Supplier Rate	Amount
7	a	Refrigeration Capacity - 14 HP	Nos.		1.00	15,000.00	15,000.00
8	a	Central Remote Controller	Nos.		1.00	3,000.00	3,000.00
9	2.7	POWER CABLING			0.00	0.00	0.00

10		Supply, handling, laying effecting proper connections testing and commissioning of following sizes of 1.1 KV grade XLPE insulated FRLS Aluminium Copper conductor cables laid over MS supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as required complete with Copper earthing as specified for continuous earthing along with cable. (Earthing will be measured separately and need not be quoted under this item). All complete as required and as per final instruction as given by Owners Consultants. (MCCB,s provided 5m from Outdoor unit).			0.00	0.00	0.00
11	b	Suitable copper Armoured cable - from MCB Isolator to VRF ODU.	Rmt		5.00	300.00	1,500.00
12		SITC of the control cabling from Indoor to outdoor unit Outdoor unit to CRC BACnet for all the units with the necessary fittings. The cabling shall be of weather proof type as most of the cabling will have open exposure to atmosphere. The cabling shall be bundled properly and shall be neatly aligned with the Refrigerant piping. The cabling shall be well supported with G.I cable tray throughout the piping length.			0.00	0.00	0.00
13	2.9	PERFORATED GI CABLE TRAYS			0.00	0.00	0.00
14	a	150mm wide	Rmt		25.00	525.00	13,125.00
15		SITC of UPVC pipes of following sizes for drain with necessary supports and fittings such as elbows, tees reducers etc. The insulation line to be insulated with nitrile rubber insulation of thickness 9mm and wrapped by weather proof protection tape. The Pipe wherever concealed should also have a parallel line as a standby arrangement in case of block of primary pipe .			0.00	0.00	0.00
16	b	32 mm Dia	Rmt		20.00	165.00	3,300.00
17	Note :	Quantities of refrigerant piping and cabling are based on the drawings with Indoor Outdoor units Locations shown and for the specified configuration. Vendor to confirm refrigerant piping and cabling quantities based on the system configuration being offered by them.			0.00	0.00	0.00
18	3.1	KITCHEN EXHAUST FAN			0.00	0.00	0.00
19	a	6600 CFM, 65mm ESP (Class H)	Nos.		1.00	160,000.00	160,000.00
20		Motor - Sealead ball bearings UL, single phase.			0.00	0.00	0.00
21	3.2	KITCHEN FRESH AIR FAN WITH AIRWASHER TYPE			0.00	0.00	0.00
22	2.2	INSTALLATION OF VRF INDOOR UNITS			0.00	0.00	0.00
23		SITC of CELDEK FILL package type air cooling unit with minimum 90% saturation efficiency. Air cooling unit shall be factory assembled and complete with double skin casing 0.8mm Inner outer pre-coated GI sheets, DIDW forward curved fans with TEFC, sq. cage, induction motors 1440 RPM (IE-3) with IP-55 Protection. Suitable for operation on 415 ± 10% voltage, 50 Hz 3 phase AC supply, drive package including multi sheave pulleys and belts for fans and motors, 1.2mm thick tank pad section in SS Construction, vibration isolators, wire mesh pre-filters, 200 mm thick CELDEK FILL, 1HP Water Circulation Pump (1W+1S), internal PVC piping, valves and fittings, 4-bend PVC eliminator. MERV 8 G4 pleated pre-filters should be made of 100% synthetic media to capture common airborne contaminants as per ASHRAE Standard 52.2. (Vendor to crosscheck static pressure calculation)			0.00	0.00	0.00
24	a	5600 CFM, 50mm ESP (Class F)	Nos.		1.00	145,000.00	145,000.00

25		Supply, Fabrication and Installation of MS frame using channels angle iron sections as required for mounting of ventilation fans scrubber in areas shown in the layout. The frame work shall be applied with red oxide primer and thereafter, two coats of enamel paint of approved colour. The general arrangement drawing for frame work shall be got approved from the Architects Structural Engineers prior to commencement of fabrication.	Kg		200.00	225.00	45,000.00
26	b.	All cabinet fans should have plenum section.			0.00	0.00	0.00
27	d.	Contractor shall submit static pressure calculation for all above units to Client Consultant.			0.00	0.00	0.00
28	f.	Fan efficiency shall be minimum 75%			0.00	0.00	0.00
29	4	SHEET METAL WORKS			0.00	0.00	0.00
30		Supply, Fabrication, Testing, and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbows with turning vanes, Splitters, Reducers, Flanges, Collars etc as per IS and Installaton as per SMACNA standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Bracing, Rubber Gaskets, Wooden frames, Canvas Connections, etc. as per drawings and specifications.			0.00	0.00	0.00
31	4.2	EXTRUDED ALUMINIUM CEILING GRILLES			0.00	0.00	0.00
32		Make Cosmos, Air Master System Air			0.00	0.00	0.00
33		Make Carryaire System Air Dynacraft Air Master			0.00	0.00	0.00
34		SITC of opposed blade aerofoil type 1.2 mm thick Anodized Aluminium volume control dampers for ducts shall be provided with concealed gears, plastic operator and quadrants for manual control of volume of air flow and for proper balancing of the air distribution system as per the approved shop drawings and specifications.	Sq.mtr		2.50	9,500.00	23,750.00
35	4.7	CANVAS CONNECTION			0.00	0.00	0.00
36	c	For Kitchen EX FA Fan	Nos.		4.00	2,700.00	10,800.00
37	4.8	CURTAIN TYPE FIRE DAMPER			0.00	0.00	0.00
38	a	Bare fire dampers	Sq.mtr		1.00	11,500.00	11,500.00
39	5	THERMAL ACOUSTIC INSULATION			0.00	0.00	0.00
40		Supply fixing of Thermal insulation for supply air duct using 19mm thick class O Closed cell nitrile rubber with anti-microbial coating on it. Insulation shall have Thermal conductivity of 0.033 W (m.K) and water vapor permeance of 0.10. Joints should be sealed with 50 mm wide 3 mm thick self adhesive tape. The duct shall be stick with recommended adhesive.	Sq.mtr		100.00	650.00	65,000.00
41		Supply fixing acoustic insulation for ducting using Class 1 closed cell elastomeric insulation of 10mm thick Nitrile rubber insulation adhesive, longitudinal transverse joints sealed with adhesive in neat clean manner. Material shall be processed Nitrile Rubber foam with anti-microbial protection. Insulation shall have thermal conductivity of 0.047 W (m.K) and density of 140 - 180 kg m ³ .	Sq.mtr		25.00	850.00	21,250.00
42		Make Rockwool UP Twiga			0.00	0.00	0.00

43	b.	Vendors to take care of the installation, if any damages takes place the vendor to repair or replace and hand over to clients in good and acceptable condition.			0.00	0.00	0.00
44	a	Suitable Power Cable			0.00	0.00	0.00
45		Supply Making of Cable termination of armoured unarmoured cables 1.1 KV grade including installation of cable glands, cable lugs (Aluminium for A2XFY copper for 2XFY YY Double compression type), heat shrinkable sleeves on long ends, crimping paste etc. The work includes testing commissioning of cables, meggering values submitting reports of tests. (One set includes termination of all cores of one end only). All crimping tools dies shall be arranged by contractor.			0.00	0.00	0.00
46	a	Suitable for 6600 CFM Kitchen Exhaust Fan, Star Delta Panel with VFD	Nos.		2.00	350.00	700.00
47	b	Suitable for 5600 CFM Kitchen Air-washer, Star Delta Panel with VFD	Nos.		2.00	350.00	700.00
48	2	INDIGENOUS WORK			0.00	0.00	0.00
49	2.1	INSTALLATION OF VRF OUT-DOOR UNITS			0.00	0.00	0.00
50	0	318 CFM 0.6 TR	Nos.		1.00	2,200.00	2,200.00
51	2.3	INSTALLATION OF CENTRALISED REMOTE CONTROLLER			0.00	0.00	0.00
52		Supply, Installation, Testing and Commissioning of the refrigerant piping with nitrile rubber insulation in sleeve form. It should be selected for maximum working pressure of 624 psi for R – 410a refrigerant circuit and for maximum working pressure of 500psi in case of R407C refrigerant. The Ref. Piping shall be pressure tested at 1.5 times the working pressure. Copper pipes shall be made of phosphorus deoxidized seamless copper. Minimum thickness to be used for refrigerant piping shall be as follows The insulation(Nitrile rubber, class-O, self extinguishing, CFC free, thermal conductivity of not more than .035w Wm°K shall be 19 mm thick for suction piping liquid line. All Exposed Piping on the floor shall be enclosed in openable GI trays insulation should be with UV protection with mil cloth. The Ref. Piping shall be properly supported at every 1.5 m distance with stands and support linked with rubber as per specifications.	Rmt		75.00	1,950.00	146,250.00
53		Make Maxflow Mandev Heling			0.00	0.00	0.00
54		Note Referiferant piping shall include liquid + gas pipe with all necessary fittings. Also, the size of the same shall be as per manufactured standard.			0.00	0.00	0.00
55	2.5	GAS CHARGING			0.00	0.00	0.00
56	d	8 SWG Copper Wire	Rmt		10.00	100.00	1,000.00
57		Supply, Fabrication and Installation of MS frame using channels angle iron sections as required for mounting of air cooled remote condenser in service areas or terrace level. The frame work shall be applied with red oxide primer and thereafter, two coats of enamel paint of approved colour. The general arrangement drawing for frame work shall be got approved from the Architects Structural Engineers prior to commencement of fabrication.	Nos.		1.00	8,000.00	8,000.00
58		Make Supreme, Prince, Astral			0.00	0.00	0.00
59	2.12	Supply, installation of Cowl piece connection with bird screen for VRF Outdoor units	Nos		1.00	6,000.00	6,000.00

60		SITC of Cabinet type SISW Centrifugal Blower, Belt Direct Drive, Statically Dynamically Balanced, Backward Curved Impeller fan, Dunlop Anti- Vibration Pads etc. Motor should be outside stream with TEFC squirrel cage, weather protection shield, IP 55 rating with Class H Insulation, suitable for 3phase, 415volts, 50hz power supply. Sound level should be 65dB @ 3mtr distance. The quote shall include with MS frame, starter panel along with its required cable. Supplied with Dunlop Anti- Vibration Pads Canvass Connection. Fan shall be BMS compatible. Power will be provided 5 ft away from fan and necessary control wiring with plug will be provided by AC contractor.(Vendor to crosscheck static pressure calculation).			0.00	0.00	0.00
61		SITC of Dry scrubber – Electrostatic Air cleaner with starter panel as per specifications, suitable for following capacities, including electrical starter panel . The Air filtration efficiency should be between 90 to 95% units shall be staked one above other or side by side as per site requirement, if vendor will propose multiple units.			0.00	0.00	0.00
62		Cell - Ionizing voltage - 12 KVdc			0.00	0.00	0.00
63		One cell comprising of 9 ionizing wires and 25 collection plates			0.00	0.00	0.00
64		Controls - Auto cut-off when door is opened. Indicator lights for fault, normal or wash function.			0.00	0.00	0.00
65		Make Kruger Nicotra Avantec			0.00	0.00	0.00
66	3.3	FRAMEWORK FOR FANS			0.00	0.00	0.00
67		Note			0.00	0.00	0.00
68	c.	Fresh air fan if any,should to have 6mm thick synthetic media washable filter with framework.			0.00	0.00	0.00
69		GI Sheet Makes Tata, Jindal, SAIL, Ispat			0.00	0.00	0.00
70	b	20 Gauge GI Sheet Metal Duct (1501-2250mm) For Kitchen Exhaust Works	Sq.mtr		150.00	1,500.00	225,000.00
71		Linear Square Rectangular Grille	Sq.mtr		6.00	8,000.00	48,000.00
72	4.3	SS EXHAUST AND FRESH AIR GRILLES			0.00	0.00	0.00
73	a	Linear Square Rectangular Grille	Sq.mtr		0.50	9,500.00	4,750.00
74		SITC of Aluminium Opposed blade dampers black powder coated vertical blades type for supply air collar. The damper should be gear operated type.	Sq.mtr		2.00	4,200.00	8,400.00
75		SITC of Flexible connections between mouth piece of Fan and initial piece of ducting with inspection zip. Flexible connections shall be double thickness non-flammable material (Fire retardant type).			0.00	0.00	0.00
76	a	For VRF Ductable Unit	Nos.		3.00	2,700.00	8,100.00
77		Make Carryaire System Air Dynacraft Air Master			0.00	0.00	0.00
78		Silicon sealant for longitudinal transverse joints as per specification.			0.00	0.00	0.00
79		Diffusers grilles shall be powder coated as per color approved by Architect.			0.00	0.00	0.00
80	5.2	ACOUSTIC INSULATION			0.00	0.00	0.00
81	a.	Insulation work to be coordinated with other agencies and repair to be included by contractor as per site requirement.			0.00	0.00	0.00
82	c.	Thermal insulation shall be internal for Elliptical Exposed ducting.			0.00	0.00	0.00

83	6	ELECTRICAL WORKS			0.00	0.00	0.00
84		Suitable for 5600 CFM Kitchen Air-washer, Star Delta Panel with VFD	Rmt		10.00	450.00	4,500.00
85		Installation, Charging, Testing and commissioning of units complete with centrifugal blower, cooling coil with suitable rows, electronic expansion valves, high efficiency pre filter sections, drain pump etc as per specifications.			0.00	0.00	0.00
86		Additional gas charging - Over and above standard Gas charging quantity	Kg		15.00	900.00	13,500.00
87		SITC of Special Refrigerant T Y-joints for VRF units	Nos		2.00	2,850.00	5,700.00
88	2.8	COMMUNICATION CABLE			0.00	0.00	0.00
89		Make Polycab, KEI Finolex			0.00	0.00	0.00
90		Supplying Fixing of following sizes of Perforated GI cable tray duly painted of height 50mm along with necessary bends, reducers etc. anchored along the wall suspended from the ceiling with necessary MS supports. External Internal refrigerant piping shall be provided and laid on GI covered cable trays with cover.			0.00	0.00	0.00
91	b	300mm wide	Rmt		50.00	675.00	33,750.00
92	3	VENTILATION SYSTEM			0.00	0.00	0.00
93		Make Kruger Nicotra Avantec			0.00	0.00	0.00
94		Installation, Charging, Testing and commissioning of VRF system with Environment friendly refrigerant gas for the below mentioned system. This shall include lifting, shifting and positioning of outdoor units, nitrogen leak testing, oil charging, vaccumisation etc.,			0.00	0.00	0.00
95	0	2542 CFM 6.4 TR	Nos.		2.00	7,000.00	14,000.00
96		Installation, Charging, Testing and commissioning of of the Graphic central remote Controller (Touch Screen Type) . It must act as an advanced air conditioning management system to facilitate complete control of VRF air conditioning equipment. It should be user friendly through its touch screen, icon display and color LCD display. Integratable upto 64 remote controller groups (including AHUs TFAs) and BMS compatible with ethernet Wi-Fi communication protocol for remote monitoring. In addition to basic controls such as settings for on stop, the operation mode temperature, the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the details of the problem. An external input terminal is provided as standard. External signals enable the following function central operation stop, demand control, emergency stop, central operation output, central alarm output. Controller shall however be suitable for future connectivity of indoor outdoor units also.			0.00	0.00	0.00
97	2.4	VRF REFRIGERANT PIPING FITTING WITH INSULATION			0.00	0.00	0.00
98	2.6	REFNET JOINTS			0.00	0.00	0.00
99		Make Polycab, KEI Finolex			0.00	0.00	0.00
100	a	1.5 sqmm 2 core	Rmt		135.00	120.00	16,200.00
101	2.10	FRAMEWORK FOR VRF ODU			0.00	0.00	0.00
102	2.11	INSULATED CONDENSATE DRAIN PIPE			0.00	0.00	0.00
103	a	25 mm Dia	Rmt		30.00	150.00	4,500.00

104	3.2	KITCHEN DRY SCRUBBER			0.00	0.00	0.00
105		Features - Short circuit, arc protection and auto restore power supply, BMS (Building Management System) terminals provided, Auto power cut-off when door is opened, Indicator LEDs for normal or wash indicator, Set of Terminals for remote LED normal or wash indicator			0.00	0.00	0.00
106		Collector voltage - 6 KVdc			0.00	0.00	0.00
107		Make Rydair Espair			0.00	0.00	0.00
108		CFM - 6600	Nos.		1.00	226,925.00	226,925.00
109	a.	Fan outlet velocity - 1600 FPM			0.00	0.00	0.00
110	e.	Any change in motor HP or coil selection shall be made at no extra cost to client.			0.00	0.00	0.00
111		Make Rola Star, Zeco Ductofab			0.00	0.00	0.00
112	c	22 Gauge GI Sheet Metal Duct (751-1500mm)	Sq.mtr		100.00	1,350.00	135,000.00
113	4.4	DOOR TRANSFER GRILLE			0.00	0.00	0.00
114		Door transfer grille (Back to Back)	Sq.mtr		1.00	8,000.00	8,000.00
115		Make Cosmos, Air Master System Air			0.00	0.00	0.00
116	4.5	MULTI LEAF VOLUME CONTROL DAMPER			0.00	0.00	0.00
117		Make Cosmos, Air Master System Air			0.00	0.00	0.00
118	4.6	OPPOSED BLADE DAMPER			0.00	0.00	0.00
119		Muslin cloth cover for all air outlets during construction.			0.00	0.00	0.00
120	5.1	THERMAL INSULATION			0.00	0.00	0.00
121		Make Armaflex K-flex Aerofoam ALP Aeroflex			0.00	0.00	0.00
121		Make Armaflex K-flex Aerofoam ALP Aeroflex			0.00	0.00	0.00
122		SITC of 80mm thick Glass Fibre Blanket Insulation material bonded with Thrmsetting Resin, with factory applied laminated aluminium foil of 22 micrns with fibre glass backing. Further, wire mesh along with 7 mil cloth shall be applied on above the insulation with proper adhesive. Nominal density 32 Kg CuM. Thermal conductivity, < 0.033 W m.K at 24 degreeC. All Insuation material and adhesives shall be as per Class I for surface spread and in accordance with BS 476, Class O for non-combustible grade.	Sq.mtr		150.00	900.00	135,000.00
123		Suitable for 6600 CFM Kitchen Exhaust Fan, Star Delta Panel with VFD	Rmt		10.00	450.00	4,500.00
124	b	Earthing			0.00	0.00	0.00
125		8 SWG	Rmt		40.00	140.00	5,600.00
126		Finishing - Power coated, Dark Blue			0.00	0.00	0.00
127		Operating voltage - 220 Vac+ -10%, 50 Hz (Single phase)			0.00	0.00	0.00
128		Efficiency - Upto 95%, meets NIOSH 5026 Oil Mist Test			0.00	0.00	0.00
129		Particle Size - Collects particles as small as 0.01 microns			0.00	0.00	0.00
130		Pre-filter - Aluminium mesh, washable Dry contact for BMS.			0.00	0.00	0.00

131	g.	The cost shall be included lifting shifting of each equipment material with all necessary arrangement. Also, it shall be included the cost of scaffolding required for Installation of such material equipment.			0.00	0.00	0.00
132	4.1	FACTORY FABRICATED G.I RECTANGULAR DUCT			0.00	0.00	0.00
133	a	18 Gauge GI Sheet Metal Duct (Above 2251mm Plenum)	Sq.mtr		10.00	1,650.00	16,500.00
134	d	24 Gauge GI Sheet Metal Duct (0-750mm)	Sq.mtr		120.00	1,150.00	138,000.00
135		Supply, Installation, Testing and Balancing of Powder coated aluminium supply air grilles complete with removable inner core as per approved shop drawing and specifications. The area of grille can be of any geometrical shape (Square rectangular Linear). The grilles shall be with 15 30 45° deflections as per requirement. The Colour shall be decided and approved by client and architect.			0.00	0.00	0.00
136		SITC of 18G S.S 304 Grills adjustable Double Deflector With S.S Volume Control Dampers. Grills to be of Double Deflection Type for ease of deflection on all sides and to have necessary built in Dampers for adjustable nature.			0.00	0.00	0.00
137		SITC of Aluminium extruded powder coated Door transfer grills.			0.00	0.00	0.00
138		SITC of fire dampers consist of 16G GI frame, 20G GI interlocking blades secured with SS springs, blades outside airstream clamped with fusible link UL-555 listed with melting point 165 225°F, etc; as per the approved shop drawings and specifications.			0.00	0.00	0.00
139	b	Fusible link as per specification UL 555	No		1.00	2,000.00	2,000.00
140		NOTES			0.00	0.00	0.00
141		The ducting support should be as per tender specification and additional supports are to be provided by Contractor as decided by Consultant.			0.00	0.00	0.00
142		Pressure testing of complete duct work as per DW SMACNA standard.			0.00	0.00	0.00
143	5.3	THERMAL INSULATION FOR KITCHEN EXHAUST DUCTS			0.00	0.00	0.00
144		Note			0.00	0.00	0.00
145	6.2	POWER CABLING			0.00	0.00	0.00
146		Supply, handling, laying effecting proper connections testing and commissioning of following sizes of 1.1 KV grade XLPE insulated FRLS Aluminium Copper conductor cables laid over MS supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as required complete with Copper earthing as specified for continuous earthing along with cable. All complete as required and as per final instruction as given by Owners Consultants and as per Technical specifications. Earthing shall be measured separately and shall be connected in two runs. Power to ELCB to be provided near each ODU by electrical contractor.			0.00	0.00	0.00
147	6.3	CABLE TERMINATION			0.00	0.00	0.00
148	6.4	CABLE TRAYS			0.00	0.00	0.00
149		Supplying Fixing of following sizes of GI cable tray duly painted perforated type of height 50mm along with necessary bends, reducers etc. anchored along the wall suspended from the ceiling with necessary MS supports.			0.00	0.00	0.00
150	a	50mm wide x 50mm ht x 1.6mm thick	Rmt		20.00	450.00	9,000.00

Total :

1,337.00

1,750,000.00

ItemCode :

ItemName : Fire Sprinkler

Sr No	Item Code	Item Name	UOM	Remarks	Quantity	Supplier Rate	Amount
151	1	Providing, laying, jointing, testing and commissioning of G.I. °C Class pipes (IS 1239 (Part-I)-1979) including cutting,threading welding etc providing all malleable galvanized iron fittings conforming to IS 1879, viz. Flanges, bends, tees, elbows,reducers, unions, supporting with G. I. clamps, hangers, M.S. brackets etc. including cutting holes and chases in brick or RCC wall slabs and making good the same to the Approval of Architect consultant,complete including painting with one coat of primer and two or more coats of synthetic enamel paint of approved make and shade.			0.00	0.00	0.00
152	v)	65 mm dia.	RMT		5.00	1,350.00	6,750.00
153	vi)	80 mm dia.	RMT		5.00	1,500.00	7,500.00
154	vii)	100 mm dia.	RMT		5.00	1,750.00	8,750.00
155	2	Providing , fixing testing and commissioning of pendant type sprinkler heads 68 deg. Temp (Quick response type)	No.		5.00	1,250.00	6,250.00
156	4	Providing , fixing testing and commissioning of upright type sprinkler heads 68 deg. (Quick response type)	No.		23.00	1,000.00	23,000.00
157	i)	1Mt Ht	No.		2.00	1,850.00	3,700.00
158	8	Wheel operated Butterfly Valves (PN 16) with inbuilt supervisory switch (UL listed and FM approved) with CI Body, Black Nitrile Body Liner and Nylon Coated SG Iron Disc with material and labour including hydraulic testing etc. complete as per drawing, specification to the level of satisfaction of Site- Incharge.			0.00	0.00	0.00
159	5	Providing , fixing testing and commissioning of pendent type sprinkler heads 79 deg. Temp including (Quick response type)	No.		9.00	1,250.00	11,250.00
160	6	Providing fixing testing and commissioning of UL Rated SS braided Flexible pipe (Prior to order please check condition of existing droppers)			0.00	0.00	0.00
161	ii)	1.6Mt Ht	No.		7.00	2,250.00	15,750.00
162	i)	25 mm dia.	RMT		25.00	700.00	17,500.00
163	ii)	32 mm dia.	RMT		5.00	900.00	4,500.00
164	iii)	40 mm dia.	RMT		15.00	1,000.00	15,000.00
165	iv)	50 mm dia.	RMT		20.00	1,200.00	24,000.00
166	3	Providing , fixing testing and commissioning of concealed type sprinkler heads 68 deg. Temp.(Quick response type)	No.		10.00	1,850.00	18,500.00
167	l)	80 mm dia.	No.		1.00	16,500.00	16,500.00
168	7	Gun metal chrome finished Ball valves (PN 16) with fittings of screwedend type.			0.00	0.00	0.00
169	l)	32 mm dia. (Sprinkler drain-OPTIONAL)	Nos.		1.00	2,205.00	2,205.00
Total :					138.00		181,155.00

ItemCode :

ItemName : FAS

Sr No	Item Code	Item Name	UOM	Remarks	Quantity	Supplier Rate	Amount
170	13.3.9	Supply,Installation,Testing Commissioning of Addressable Break Glass Manual Call Point having Rotary, decimal addressing system and having an integrally mounted addressable module that monitors and reports contact status.	Nos		2.00	5,400.00	10,800.00
171	13.8	Programing Charges to Paid Airport Vendor	No		1.00	20,000.00	20,000.00
172	13.1.1	Fire alarm Addressable control panel (1 Loop)			0.00	0.00	0.00
173	13.3.4	Supply, Installation,Testing Commissioning of Analogue Addressable Flash scan Type Photoelectric smoke detectors (Below False Ceiling) having Rotary, decimal addressing system with standard base, built in isolation function and junction box. The detector shall be capable to address in the range of 1-159. The detector shall be with Visible bi-color LEDs for 360 deg viewing and shall blink green every time the detector is addressed, and illuminate steady red on alarm.	Nos		5.00	5,200.00	26,000.00
174	13.3.3	Supply,Installation,Testing Commissioning of Horn Strobe rated at 82 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication with Control modules and necessary accessories including back box.	Nos		2.00	5,650.00	11,300.00
175	13.4	SITC of Fault Isolator.	Nos		1.00	5,000.00	5,000.00
176	13.5	SITC of 2Cx1.5sq.mm multi stranded FRLS Cu. Armoured for RED Colour, Mylan Shielded Screened cable For SLC.	Mtrs		120.00	135.00	16,200.00
177	13.7	Supply Installation of CAT-6 Cable(DIAL FAS PANEL TO RFPA PANEL)	Mtr.		150.00	81.00	12,150.00
178	13.3.7	Supply,Installation,Testing Commissioning of Analogue Addressable Flash scan Type Heat Detector having Rotary, decimal addressing system with standard base, built in isolation function and junction box. The detector shall be capable to address in the range of 1-159. The detector shall be with Visible bi-color LEDs for 360 deg viewing and shall blink green every time the detector is addressed, and illuminate steady red on alarm. (Make-Edward-EST-SIGA-HFS)	Nos		4.00	5,200.00	20,800.00
179	13.6	Response indicator.	Nos		5.00	350.00	1,750.00
Total :					290.00		124,000.00