Purchase Order

Page No:

05-10-2023 11:10:24

Order Number PO/SKPL/23-24/001337

Shipped Location

Invoice Location

Corporate Address

Vendor No. V000200

MUM T1 Josh

India

India

E-Mail

T2,Chhatrapati Shivaji Int

Airport, Santacruz East

MUMBAI, 400099

Contact Person

Contact No.

MUM T1 Josh SEMOLINA KITCHENS PVT LTD

VART INFRACON PRIVATE LIMITED Second Floor, 229, Neha Industrial Premises

1ST FLOOR, Block A, Shiv Sagar Estate, T2, Chhatrapati Shivaji Int Dr Annie Besant Road, Worli, Mumbai

Cooperative Society Ltd, Dattapada Road, Borivali

Airport, Santacruz East MUMBAI, 400018 400099

MUMBAI, 400066

32 State

India P.A.N. No. India State Name Kerala

AAICV6164F

Comp GST No. 32ABICS8699F1ZS

State Code

022-43224304 022-43224304 Requisition No. kumar.dhulap@travelfoodser kumar.dhulap@travelfoodservices.com

PO Entry Date 04-10-2023

Vendor GST No. 27AAICV6164F1Z2

1

ETA: **Payment Terms** Net 15 days Order Address

GEN Project ID GSTIN 27ABICS8699F1ZJ

No.

IN

Vendor Inv. No. Vendor Fax No.

accounts@vartinfra.com

Vendor Email Vendor Phone No. 9004034613/9869011799

		HSN\SAC										Total Tax	Total Amount
SNo	Item Code	Code	Item Description	Description 2	Item Category	UOM	Unit Cost	Qty	GST%	VAT %	Excise	Amount(ININR)	(ININR)
1	7000027	995463	HVAC WORKS	Amendment HVAC works		NOS	11,19,735.00	1	18.00	0.00		0	1119735.00
							Total Unit	1.00					
										_			

Final Payment - 100% After work completion & submission of invoice. Advance & invoice paid against work order no. 000650 to be adjusted against this order. Balance Payment to be made against submitted invoice post deducation of overall invoice.

Total Taxable INR 11.19.735.00

a) Products to be Supplied by b) Any deficiency in Documents and Process will be liability of the supplier only

CGST Amount 1,00,776.15 SGST Amount 1.00.776.15 Cess 0.00

c) Delivery schedule to be taken from the Buyer before

Supplier at own cost

the GST Portal

d) PLEASE SEND THE ORIGINAL COMMERCIAL/GST INVOICE ALONG WITH THE MATERIAL TO THE

DELIVERY ADDRESS.

Despatching the mater e) The Payment of taxes will be Released once the Taxes is Credited to our Account or

vices.com

Total INR Incl. Taxes

Excise Amount

13,21,287.30

0.00

0.00

Disclaimer -	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.

Purchase Order

Order Number PO/SKPL/23-24/001337

Shipped Location

Second Floor, 229, Neha Industrial Premises Cooperative Society Ltd, Dattapada Road, Borivali

V000200

VART INFRACON PRIVATE LIMITED

MUMBAI, 400066

Vendor No.

India

P.A.N. No. AAICV6164F

State Code

Vendor GST No. 27AAICV6164F1Z2

Vendor Inv. No.

Vendor Fax No.

Vendor Email accounts@vartinfra.com Vendor Phone No. 9004034613/9869011799

1

MUM T1 Josh

T2,Chhatrapati Shivaji Int Airport, Santacruz East

MUMBAI, 400099 India

India

Contact Person

Contact No. 022-43224304

kumar.dhulap@travelfoodser E-Mail

vices.com

ETA:

Order Address

Invoice Location

MUM T1 Josh

T2,Chhatrapati Shivaji Int Airport, Santacruz East

400099 India IN

022-43224304

kumar.dhulap@travelfoodservices.com

Payment Terms Net 15 days **GSTIN** 27ABICS8699F1ZJ

No.

Corporate Address

SEMOLINA KITCHENS PVT LTD

1ST FLOOR, Block A, Shiv Sagar Estate, Dr Annie Besant Road, Worli, Mumbai

Page No:

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MUMBAI, 400018

State 32

State Name Kerala

Comp GST No. 32ABICS8699F1ZS

Requisition No.

PO Entry Date 04-10-2023

Project ID GEN

				JOSHI	H @T1 MUMBAI							
				VENTILATI	ON ABSTRACT S	HEET						
					PO				Revised			
Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount	Qty	Supply Rate	Installation Rate	Total Amount		Differnce
Note:	Prices shall be based on supply, installation, testing & commissioning (SITC) at site including all taxes, duties, transportation & insurance etc.											
1	VENTILATION SYSTEM											
1.1	KITCHEN EXHAUST AIR FAN											
	SITC of Cabinet type SISW Centrifugal Blower, 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 motor, suitable for 3phase, 415volts, 50hz power supply. Sound level should be 65dB @ 3mtr distance. Fan should be painted with 2 coat of zinc chromate primer and 2 coats Epoxy paint. The quote shall include with all required accessories. (Vendor to crosscheck static pressure calculation).											
	Make : Kruger / Nicotra / Systems Air											
a	4750 CFM, 60mm TSP	No.	1	1,75,000.00	25,000.00	2,00,000.00	1	1,75,000.00	25,000.00	2,00,000.00		
1.2	KITCHEN DRY SCRUBBER											
	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.											
	Finishing - Power coated, Dark Blue											
	Operating voltage - 220 Vac+/-10%, 50 Hz (Single phase)											
	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											
	Efficiency - Upto 95%, meets NIOSH 5026 Oil Mist Test											
	Particle Size - Collects particles as small as 0.01 microns											
	Motor - Sealead ball bearings UL, single phase.											
	Cell - Ionizing voltage - 12 KVdc											
	Collector voltage - 6 KVdc											
	One cell comprising of 9 ionizing wires and 25 collection plates Controls - Auto cut-off when door is opened. Indicator lights for fault,											
	normal or wash function. Pre-filter - Aluminium mesh, washable Dry contact for BMS.											
	· · · · · · · · · · · · · · · · · · ·											
	Make: Rydair / Espair CFM - 6100	Ne	-1	2 25 000 00	15 000 00	2 50 000 00	1	3 35 000 00	15 000 00	2 50 000 00		
	CLIAI - 0100	No.	1	2,35,000.00	15,000.00	2,50,000.00	1	2,35,000.00	15,000.00	2,50,000.00	-	
1.3	KITCHEN FRESH AIR FAN							1				

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				VENTILATI	ON ABSTRACT SI	HEET					
					PO				Revised		
Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount	Qt	y Supply Rate	Installation Rate	Total Amount	Differnce
	SITC of Cabinet type Fresh air fan with Centrifugal Blower, Belt / Direct Drive, Statically & Dynamically Balanced, Backward Curved Impeller, MERV 8 filter, Dunlop Anti- Vibration Pads, filters etc. Motor should be TEFC squirrel cage, IP 55 rating with Class F Insulation, suitable for 3phase, 415volts, 50hz power supply. Sound level should be 65dB @ 3mtr distance. Fan should be painted with 2 coat of zinc chromate primer and 2 coats Epoxy paint. 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)										
	Make: Kruger / Nicotra / Systems Air	NI-		1 65 000 00	35 000 00	1 00 000 00	-	1 65 000 0	25,000,00	1 00 000 00	
a	4000 CFM, 30mm TSP	No.	1	1,65,000.00	25,000.00	1,90,000.00	1	1,65,000.0	25,000.00	1,90,000.00	
1.4	FRAMEWORK FOR FANS										
	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	120.00	30.00	30,000.00	23	9 120.0	0 30.00	35,850.00	5,850.00
	Note:							+			
a.	Fan outlet velocity - 1600 FPM										
b.	All cabinet fans should have plenum section.										
c.	Fresh air fan should to have 6mm thick synthetic media washable filter with framework.										
d.	Contractor shall submit static pressure calculation for all above units to Client/Consultant for their approval. Also, the total static drops across the systems shall cover the overall length from suction / discharge to grille (inside the outlet).										
e.	Any change in motor HP or coil selection shall be made at no extra cost to client.										
f.	Fan efficiency shall be minimum 75%										
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.										
	SUB-TOTAL					6,70,000.00				6,75,850.00	5,850.00
						., .,				., .,	2,223.00
2	SHEET METAL WORKS:										
2.1	FACTORY FABRICATED G.I RECTANGULAR DUCT										
	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 Installation 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.										

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				VENTILATION	ON ABSTRACT SI	HEET					
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Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount	Qty	Supply Rate	Installation Rate	Total Amount	Differnce
	GI Sheet Makes : Tata, Jindal, SAIL, Ispat										
	Make: Rola Star, Zeco & Ductofab										
а	18 Gauge GI Sheet Metal Duct (Above 2251mm & Plenum)	Sq.mtr	RO				RO				
b	20 Gauge GI Sheet Metal Duct (1501-2250mm)	Sq.mtr	RO				RO				
С	22 Gauge GI Sheet Metal Duct (751-1500mm)	Sq.mtr	50	1,300.00	220.00	76,000.00	20	1,300.00	220.00	30,400.00	-45,600.00
d	24 Gauge GI Sheet Metal Duct (0-750mm)	Sq.mtr	100	1,200.00	220.00	1,42,000.00	90	1,200.00	220.00	1,27,800.00	-14,200.00
2.2	EXTRUDED ALUMINIUM CEILING GRILLES										
	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.	Sq.mtr	1.5	9,100.00	400.00	14,250.00	1.5	9,100.00	400.00	14,250.00	
	Make: Cosmos, Air Master & System Air										
	·										
2.3	MULTI LEAF VOLUME CONTROL DAMPER										
	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	1.5	6,700.00	450.00	10,725.00	1.5	6,700.00	450.00	10,725.00	
	Make: Cosmos, Air Master & System Air										
2.4	FUSIBLE LINK TYPE FIRE DAMPER FOR FRESH AIR DUCTS & EXHAUST AIR DUCT										
	Motorised 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.	Sq.mtr	1.5	7,750.00	500.00	12,375.00	1.5	7,750.00	500.00	12,375.00	
	Make: Cosmos / System Air / Air Master										
2.5	EXTRUDED ALUMINIUM LOUVER with BIRD SCREEN SITC of Aluminium extruded powder coated Louver with four side flanges, wire mesh bird screen etc.	Sq.mtr	1.5	5,600.00	450.00	9,075.00	1.5	5,600.00	450.00	9,075.00	
	Make: Cosmos, Air Master & System Air										
	ODDOCED BLADE DAMBED			-					-		
2.6	OPPOSED BLADE DAMPER										
	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	1	7,750.00	500.00	8,250.00	1	7,750.00	500.00	8,250.00	
2.7	CANVAS CONNECTION										
	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).				200	42.000.00			200.55	12.000.00	
а	For Kitchen Ventilation Fan	Nos.	4	2,750.00	250.00	12,000.00	4	2,750.00	250.00	12,000.00	
	NOTES:			-							

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				VENTILATION	ON ABSTRACT S	HEET						
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Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount		Qty	Supply Rate	Installation Rate	Total Amount	Differnce
	The ducting support should be as per tender specification and additional supports are to be provided by Contractor as decided by Consultant.											
	Muslin cloth cover for all air outlets during construction.											
	Pressure testing of complete duct work as per DW/ SMACNA standard.											
	Silicon sealant for longitudinal & transverse joints as per specification.											
	Diffusers & grilles shall be powder coated as per colour approved by Architect.											
	SUB-TOTAL					2,84,675.00					2,24,875.00	-59,800.00
3	THERMAL INSULATION:											
3.1	THERMAL INSULATION FOR KITCHEN VENTILATION DUCTS											
	SITC of 50mm thick Glass Fibre Blanket Insulation material bonded with Thermosetting 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	900.00	150.00	1,57,500.00		120	900.00	150.00	1,26,000.00	-31,500.00
	Make: Armaflex & K-flex											
	Note: Insulation work to be coordinated with other agencies and repair to be											
a.	included by contractor as per site requirement. Vendors to take care of the installation, if any damages takes place the											
b.	vendor to repair or replace and hand over to clients in good and acceptable condition.											
c.	Thermal insulation shall be internal for Elliptical / Expossed ducting.											
	SUB-TOTAL					1,57,500.00	ļļ				1,26,000.00	-31,500.00
4	ELECTRICAL WORKS:											
4.1	CTARTER RANGI											
4.1	STARTER PANEL											

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				VENTILATION	ON ABSTRACT SH	IEET						
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Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount	Qty	Supply Rate	Installation Rate	Total Amount		Differnce
	SITC of indoor / outdoor, wall mounting type 3PH, 415VAC MOTOR STARTERS IN CRCA SHEET STEEL ENCLOSURE with necessary supporting brackets and required accessories, etc., The Enclosure shall be provided with knockouts suitable for cable termination at TOP & BOTTOM for incoming and outgoing power cables of A2XFY type and size specified. The starters shall be complete with suitable MPCB/MCCB, Contactor, Bi-metal O/L relay with SPP, ON/OFF Push buttons, on / off / trip indication Lamp, on off push button, & phase indication Lamp. Selection of relay, contractor, MPCB/MCCB etc. as per Type-2 Coordination. Panel shall have provision to connect with BMS.											
a	Suitable for 4750 CFM Kitchen Exhaust Fan, DOL Starter Panel	No.	1	25,250.00	2,750.00	28,000.00	1	25,250.00	2,750.00	28,000.00	-	
b	Suitable for 4000 CFM Kitchen Fresh Air Fan, DOL Starter Panel	No.	1	23,750.00	2,750.00	26,500.00	1	23,750.00	2,750.00	26,500.00	-	
4.2	POWER CABLING											
	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.											
a	Suitable Power Cable:											
	Suitable for 4750 CFM Dry Scrubber, 1 ph	Rmt	5	200.00	50.00	1,250.00	5	200.00	50.00	1,250.00		
	Suitable for 4750 CFM Kitchen Exhaust Fan, DOL Starter Panel	Rmt	5	400.00	50.00	2,250.00	5	400.00	50.00	2,250.00		
	Suitable for 4000 CFM Kitchen Fresh Air Fan, DOL Starter Panel	Rmt	5	400.00	50.00	2,250.00	5	400.00	50.00	2,250.00		
b	Earthing:											
	8 SWG	Rmt	30	110.00	40.00	4,500.00	30	110.00	40.00	4,500.00		
4.3	CABLE TERMINATION :											
	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, meggaring 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.											
	Suitable for 4750 CFM Kitchen Exhaust Fan	Nos.	2	750.00	200.00	1,900.00	2	750.00	200.00	1,900.00		-
	Suitable for 4000 CFM Kitchen Fresh Air Fan	Nos.	2	750.00	200.00	1,900.00	2	750.00	200.00	1,900.00		
4.4	CABLE TRAYS											
4.4	CADLL INATS		l		l			l	l .		1	

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Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount		Qty	Supply Rate	Installation Rate	Total Amount	Differnce
	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.											
а	50mm wide x 50mm Height x 1.6mm thick	Rmt	15	650.00	100.00	11,250.00		15	650.00	100.00	11,250.00	
	SUB-TOTAL					79,800.00					79,800.00	
5	Additional Items											
2.2	EXTRUDED ALUMINIUM CEILING GRILLES											
	Supply, 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.	Sq.mtr						0.6	9,100.00		5,460.00	5,460.00
2.6	OPPOSED BLADE DAMPER											
	Supply of Aluminium Opposed blade dampers black powder coated vertical blades type for supply air collar. The damper should be gear operated type.	Sq.mtr						1	7,750.00		7,750.00	7,750.00
	SUB-TOTAL						Ц				13,210.00	13,210.00
	GRAND TOTAL					11,91,975.00					11,19,735.00	-72,240.00
	Add GST @ 18%					2,14,555.50	Н				2,01,552.30	-13,003.20
	TOTAL INCLU. TAX					14,06,530.50	ш				13,21,287.30	-85,243.20

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					VENTILAT	ION ABSTRACT SHEET						
Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation	Total Amount		Quantity	у		Amount (R	s.)
31.140.	Description terms	Onic	Q.,	Supply hate	Rate	Total Alloulie	Previous	Present	Cummualtive	Previous	Present	Cummualtive
	Prices shall be based on supply, installation, testing & commissioning (SITC)											
Note:	at site including all taxes, duties, transportation & insurance etc.											
1	VENTILATION SYSTEM											
1.1	KITCHEN EXHAUST AIR FAN											
	SITC of Cabinet type SISW Centrifugal Blower, 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 motor, suitable for 3phase, 415volts, 50hz power supply. Sound level should be 65dB @ 3mtr distance. Fan should be painted with 2 coat of zinc chromate primer and 2 coats Epoxy paint. The quote shall include with all required accessories. (Vendor to crosscheck static pressure calculation).											
	Make : Kruger / Nicotra / Systems Air											
а	4750 CFM, 60mm TSP	No.	1	1,75,000.00	25,000.00	2,00,000.00		1	1		2,00,000.00	2,00,000.00
1.2	KITCHEN DRY SCRUBBER											
	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.											
	Finishing - Power coated, Dark Blue											
	Operating voltage - 220 Vac+/-10%, 50 Hz (Single phase)											
	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											
	Efficiency - Upto 95%, meets NIOSH 5026 Oil Mist Test											
	Particle Size - Collects particles as small as 0.01 microns											
	Motor - Sealead ball bearings UL, single phase. Cell - Ionizing voltage - 12 KVdc											
	Collector voltage - 6 KVdc											
	One cell comprising of 9 ionizing wires and 25 collection plates											
	Controls - Auto cut-off when door is opened. Indicator lights for fault, normal or wash function.											
	Pre-filter - Aluminium mesh, washable Dry contact for BMS.											
	Make: Rydair / Espair											
	CFM - 6100	No.	1	2,35,000.00	15,000.00	2,50,000.00		1	1		2,50,000.00	2,50,000.00
1.3	KITCHEN FRESH AIR FAN		-							-		
113	SITC of Cabinet type Fresh air fan with Centrifugal Blower, Belt / Direct Drive, Statically & Dynamically Balanced, Backward Curved Impeller, MERV 8 filter, Dunlop Anti-Vibration Pads, filters etc. Motor should be TEFC squirrel cage, IP 55 rating with Class F Insulation, suitable for 3phase, 415volts, 50hz power supply. Sound level should be 65dB @ 3mtr distance. Fan should be painted with 2 coat of zinc chromate primer and 2 coats Epoxy paint. 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)											
	Make : Kruger / Nicotra / Systems Air											
a	4000 CFM, 30mm TSP	No.	1	1,65,000.00	25,000.00	1,90,000.00		1	1		1,90,000.00	1,90,000.00
1.4	FRAMEWORK FOR FANS											
1.4	I ROBERTORE FOR LARG		1	1			1	ı	1	1	ı	

and the restrict, two costs of enterine part of all proposed citizen, the faceties of Advices of Cost cut in Engineers prior to commencement of Information. Note: - Tax content velocity: 1600 FPM - Velocity:						JOSI	H @T1 MUMBAI						
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Supply - Information and finalisation of Not finane using chamelulizingle in or Lections as counted for mounting of verification in a Survivier in sees in the terrelative for the supplies of the counted for mounting of verification in a Survivier in sees in the terrelative for the supplies of the su	Sr No	Description Items	Unit	Otv	Supply Pate	Installation	Total Amount		Quantity	/		Amount (R	s.)
sections as required for morturing of ventilation fines & couble or in assistation in the layout. The frame work built built paging with residence of cold pricing and the recentler, two costs of entered print of approved colour. The general ventilation of entered print of approved colour. The general ventilation of entered print of approved colour. The general ventilation of entered print of approved colour. The general ventilation of entered print of approved colour. The general ventilation of entered print of approved colour. The general ventilation of entered ventilation of extending ventilation ventilation of extending ventilation of extending ventilation ventilation of extending ventil	31.140.	Description items	Oilit	Qty	Supply Nate	Rate	Total Alliount	Previous	Present	Cummualtive	Previous	Present	Cummualtive
a. If an outlet velocity - 1000 FPAN b. All calibrate in a should have plearem section. c. Pren's are fan should to have form finick synthictic media weshable filter c. Certactor with a should state plearem section. d. Certactor with a should state plearem section. d. Certactor with a should state plearem section. d. Certactor with a should state plearem section. f. Fan efficiency shall be minimum 75%. The cost stable be included filter specified in the state at a certa cost to classify the state of		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	Kg	200	120.00	30.00	30,000.00		200	200		30,000.00	30,000.00
a. If an outlet velocity - 1000 FPAN b. All calibrate in a should have plearem section. c. Pren's are fan should to have form finick synthictic media weshable filter c. Certactor with a should state plearem section. d. Certactor with a should state plearem section. d. Certactor with a should state plearem section. d. Certactor with a should state plearem section. f. Fan efficiency shall be minimum 75%. The cost stable be included filter specified in the state at a certa cost to classify the state of													
B. All clabinet fans should have plenum section. C. Fresh aft in an should to have mem thick synthetic media washable filter with framework. d. How systems shall cover the overall length from section / discharge to gritle (minds the boulet). Any change in motor MP or cell selection shall be made at no extra cost to election. E. C. Lose effective shall be included lifting a shifting of such requirement of the south. The cost shall be included lifting a shifting of such requirement / naterial / equipment. B. The cost shall be included lifting a shifting of such requirement / naterial / equipment. B. Sub-TOTAL Sub-TOT													
Contractor thall selected table personal. Also, the testal catalog control table personal catalog control table personal catalog control table personal. Also, the testal catalog control table personal catalog control table catalog control table personal catalog control table catalog contro													
Suptoms shall cover the overall length from suction of discharge to grille (Inside the outed). Any change in motor HP or coil selection shall be made at no extra cost to cloth. It is far efficiency shall be minimum 75%. The cost halb is included lifting & shifting of each equipment / material with all necessary arrangement. Also, it shall be included the cost of sufficiency required for installation of such material / equipment. SUB-TOTAL SUB-TOTAL SUB-TOTAL SUB-TOTAL ACTION FABRICATED GLIRECTANGULAR DUCT Supply, Fabrication, Festing, and Commissioning of factory fabricated Gl Steet Makes 1 (Steet August 1) (Steet August 2) (Steet Augus		Fresh air fan should to have 6mm thick synthetic media washable filter with framework.											
6. Cielest. 6. Fan efficiency shall be minimum 75% The cost shall be included lifting & hifting of each equipment / material with all necessary arrangement. Also, it shall be included the cost of saffolding required for installation of such material / equipment. 5. Sub-TOTAL 5. Sub-TOTAL 5. Sub-TOTAL 6. 70,000.00 6. 7	d.	systems shall cover the overall length from suction / discharge to grille (inside the outlet).											
f. Fan efficiency shall be ministed minimum 75% The cost shall be included filing & shifting & standing minimum 75% SUB-TOTAL SUB-TOTAL SUB-TOTAL SUB-TOTAL AL SHEET METAL WORKS: CI SHEET METAL WORKS: SH	e.												
g. with all necessary arrangement. Also, it shall be included the cost of scaffoling required for installation of such material / equipment. SUB-TOTAL 2 SHEET METAL WORKS: 1 FACTORY FABRICATED G.I RECTANGULAR DUCT Supply, Fabrication, Testing, and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting. Plenums, Cowls, Blbows with turning vanes, Spoliters, Reducers, Flange, Scolina et as per is and installation as per SMACKAN standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Socialing et as per is and installation as per SMACKAN standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Socialing et as per is and installation as per SMACKAN standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Socialing et as per is and installation as per SMACKAN standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Socialing et as per is and installation as per SMACKAN standards, Sall, Ispat Make: Rods Star, Zeoo & Ductofab a 18 Gauge Gi Sheet Metal Duct (Above 225.Imm & Plenum) Sq. mtr Ro b 20 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mtr Ro c 22 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mtr Ro d 24 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mtr Ro 22 EXTRUDED ALUMINIUM CELING GRILLES Supply, Installation, Testing and Balancing of Powder coated aluminium supply air gilles complete with TrayOld** deletions as per requirement. The Colour shall be decided and approved by client and architect. Make: Cosmos, Air Master & System Air	f.												
2 SHEET METAL WORKS: 2.1 FACTORY FABRICATED G.I RECTANGULAR DUCT Supply, Fabrication, Testing, and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbovs with turning vanes, Spiltters, Reducers, Flanges, Collars et as per IS and installation as per SMACHA standards, The Complete ducting shall be provided with MS supports, Rods, Angles, Frianges, Bracing, Rubber Gaskets, Wooder Franes, Curnos Comections, et as per of avaings and specifications. GI Sheet Makes: Tata, Jindal, SAIL, Ispat Make: Rola Star, Zeco & Ductofab 18 Gauge Gi Sheet Metal Duct (Move 251mm & Plenum) Sq. mitr RO 2.2 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mitr RO 2.4 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mitr Sq. mi	g.	with all necessary arrangement. Also, it shall be included the cost of											
2 SHEET METAL WORKS: 2.1 FACTORY FABRICATED G.I RECTANGULAR DUCT Supply, Fabrication, Testing, and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbovs with turning vanes, Spiltters, Reducers, Flanges, Collars et as per IS and installation as per SMACHA standards, The Complete ducting shall be provided with MS supports, Rods, Angles, Frianges, Bracing, Rubber Gaskets, Wooder Franes, Curnos Comections, et as per of avaings and specifications. GI Sheet Makes: Tata, Jindal, SAIL, Ispat Make: Rola Star, Zeco & Ductofab 18 Gauge Gi Sheet Metal Duct (Move 251mm & Plenum) Sq. mitr RO 2.2 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mitr RO 2.4 Gauge Gi Sheet Metal Duct (1501-2250mm) Sq. mitr Sq. mi		CUD TOTAL					6 70 000 00					6 70 000 00	6 70 000 00
2.1 FACTORY FABRICATED G.I RECTANGULAR DUCT 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 et as per IS and Installation as per SNACNA standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Bracing, Rubber Gaskets, Wooden frames, Carvas Connections, etc. as per drawings and specifications. GI Sheet Makes: Tata, Jindal, SAIL, Ispat Make: Rola Star, Zeco & Ductofab a 18 Gauge Gi Sheet Metal Duct (1501-250mm) Sq. mtr RO b 20 Gauge Gi Sheet Metal Duct (1501-250mm) Sq. mtr RO c 22 Gauge Gi Sheet Metal Duct (1501-250mm) Sq. mtr RO d 24 Gauge Gi Sheet Metal Duct (1501-250mm) Sq. mtr So 1,300.00 220.00 76,000.00 18.285 18.29 27,793.20 27,793.20 27,793.20 d 24 Gauge Gi Sheet Metal Duct (1501-250mm) Sq. mtr 100 1,200.00 220.00 1,42,000.00 86.415 86.42 1,22,709.30 1,22,7		SUB-TOTAL					6,70,000.00					6,70,000.00	6,70,000.00
Supply, Fabrication, Testing, and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbows with turning vanes, Spilters, Reducers, Flanges, Collars et as per IS and installation 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. GI Sheet Makes: Tata, Jindal, SAIL, Ispat Make: Rola Star, Zeco & Ductofab a 18 Gauge GI Sheet Metal Duct (Above 2251mm & Plenum) Sq.,mtr RO b 20 Gauge GI Sheet Metal Duct (LS01-2250mm) Sq.,mtr RO c 22 Gauge GI Sheet Metal Duct (CS1-1500mm) Sq.,mtr RO d 24 Gauge GI Sheet Metal Duct (CS1-1500mm) Sq.,mtr Sq.,m	2	SHEET METAL WORKS:											
Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbows with turning vanes, Splitters, Reducers, Flanges, Collars et as per IS and Installation 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. GI Sheet Makes: Tata, Jindal, SAIL, Ispat Make: Rola Star, Zeco & Ductofab a 18 Gauge GI Sheet Metal Duct (Above 2251mm & Plenum) Sq.,mtr RO b 20 Gauge GI Sheet Metal Duct (1501-2250mm) Sq.,mtr RO c 22 Gauge GI Sheet Metal Duct (1501-2250mm) Sq.,mtr Sq.,	2.1	FACTORY FABRICATED G.I RECTANGULAR DUCT											
Make: Rola Star, Zeco & Ductofab		Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbows with turning vanes, Splitters, Reducers, Flanges, Collars etc as per IS and Installation as per SMACNA standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Bracing, Rubber Gaskets,											
Make: Rola Star, Zeco & Ductofab		GI Sheet Makes : Tata Jindal SAII Isnat											
a 18 Gauge GI Sheet Metal Duct (Above 2251mm & Plenum)					†								
b 20 Gauge GI Sheet Metal Duct (1501-2250mm)	a		Sa.mtr	RO	†								
c 22 Gauge GI Sheet Metal Duct (751-1500mm) Sq.mtr 50 1,300.00 220.00 76,000.00 18.285 18.29 27,793.20 27,793.20 27,793.20 27,793.20 1,22,709.30		·			1								
d 24 Gauge GI Sheet Metal Duct (0-750mm) Sq.mtr 100 1,200.00 220.00 1,42,000.00 86.415 86.42 1,22,709.30 1,22,709.30 2.2 EXTRUDED ALUMINIUM CEILING GRILLES 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. Make: Cosmos, Air Master & System Air					1,300.00	220.00	76,000.00		18.285	18.29		27,793.20	27,793.20
2.2 EXTRUDED ALUMINIUM CEILING GRILLES 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. Make: Cosmos, Air Master & System Air												<u> </u>	1,22,709.30
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. Make: Cosmos, Air Master & System Air Sq.mtr 1.5 9,100.00 14,250.00 0.41 0.41 3,895.00 3,895.00		·											
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. Make: Cosmos, Air Master & System Air Sq.mtr 1.5 9,100.00 14,250.00 0.41 0.41 3,895.00 3,895.00	2.2	EXTRUDED ALUMINIUM CEILING GRILLES			† 1								
		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.	Sq.mtr	1.5	9,100.00	400.00	14,250.00		0.41	0.41		3,895.00	3,895.00
2.3. MULTI LEAT VOLUME CONTROL DAMPED		IVIANE. CUSHIUS, AII IVIASTEI & SYSTEIN AII			1				1			+	
	2.3	MULTI LEAF VOLUME CONTROL DAMPER							+				

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						ION ABSTRACT SHEET		Outambib			Amazunt /D	. \
Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation Rate	Total Amount	Previous	Quantity Present	y Cummualtive	Previous	Amount (Rs	cummualtive
	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	1.5	6,700.00	450.00	10,725.00		0.9	0.9		6,435.00	6,435.00
	Make: Cosmos, Air Master & System Air											
2.4	FUSIBLE LINK TYPE FIRE DAMPER FOR FRESH AIR DUCTS & EXHAUST AIR DUCT											
	Motorised 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.	Sq.mtr	1.5	7,750.00	500.00	12,375.00		0.78	0.78		6,435.00	6,435.00
	Make: Cosmos / System Air / Air Master											
2.5	EXTRUDED ALUMINIUM LOUVER with BIRD SCREEN											
	SITC of Aluminium extruded powder coated Louver with four side flanges, wire mesh bird screen etc. Make: Cosmos, Air Master & System Air	Sq.mtr	1.5	5,600.00	450.00	9,075.00		0.78	0.78		4,719.00	4,719.00
	Marc. cosmos, an Musici & System an											
2.6	OPPOSED BLADE DAMPER											
	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	1	7,750.00	500.00	8,250.00		2.65	2.65		21,862.50	21,862.50
2.7	CANVAS CONNECTION											
	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).											
а	For Kitchen Ventilation Fan	Nos.	4	2,750.00	250.00	12,000.00		3	3.00		9,000.00	9,000.00
	NOTES:											
	The ducting support should be as per tender specification and additional supports are to be provided by Contractor as decided by Consultant.											
	Muslin cloth cover for all air outlets during construction.											
	Pressure testing of complete duct work as per DW/ SMACNA standard.											
	Silicon sealant for longitudinal & transverse joints as per specification.											
	Diffusers & grilles shall be powder coated as per colour approved by Architect.											
	SUB-TOTAL					2,84,675.00					2,02,849.00	2,02,849.00
											,,	_,02,015.00
3	THERMAL INSULATION:											
3.1	THERMAL INSULATION FOR KITCHEN VENTILATION DUCTS											
	SITC of 50mm thick Glass Fibre Blanket Insulation material bonded with Thermosetting 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	900.00	150.00	1,57,500.00		119.2125	119.21		1,25,173.13	1,25,173.13
	Make: Armaflex & K-flex											

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						ION ABSTRACT SHEET						,
Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation	Total Amount		Quantit	<u> </u>		Amount (R	
	·				Rate		Previous	Present	Cummualtive	Previous	Present	Cummualtive
	Note:											
a.	Insulation work to be coordinated with other agencies and repair to be included by contractor as per site requirement.											
	Vendors to take care of the installation, if any damages takes place the											
b.	vendor to repair or replace and hand over to clients in good and acceptable											
	condition.											
c.	Thermal insulation shall be internal for Elliptical / Expossed ducting.											
	SUB-TOTAL SUB-TOTAL					1,57,500.00					1,25,173.13	1,25,173.13
4	ELECTRICAL WORKS:											
4.1	STARTER PANEL											
	SITC of indoor / outdoor, wall mounting type 3PH, 415VAC MOTOR STARTERS											
	IN CRCA SHEET STEEL ENCLOSURE with necessary supporting brackets and required accessories, etc., The Enclosure shall be provided with knockouts											
	suitable for cable termination at TOP & BOTTOM for incoming and outgoing											
	power cables of A2XFY type and size specified. The starters shall be complete											
	with suitable MPCB/MCCB, Contactor, Bi-metal O/L relay with SPP, ON/OFF											
	Push buttons, on / off / trip indication Lamp, on off push button, & phase											
	indication Lamp. Selection of relay, contractor, MPCB/MCCB etc. as per Type-											
	2 Coordination. Panel shall have provision to connect with BMS.											
								_				
a .	Suitable for 4750 CFM Kitchen Exhaust Fan, DOL Starter Panel	No.	1	25,250.00	2,750.00	28,000.00		1	1		28,000.00	28,000.00
b	Suitable for 4000 CFM Kitchen Fresh Air Fan, DOL Starter Panel	No.	1	23,750.00	2,750.00	26,500.00		1	1		26,500.00	26,500.00
4.2	POWER CABLING											
	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.											
a	Suitable Power Cable:		 _ _	200				-			4 350 33	4 350 00
	Suitable for 4750 CFM Dry Scrubber, 1 ph	Rmt	5	200.00	50.00	1,250.00	1	5	5	1	1,250.00	1,250.00
	Suitable for 4750 CFM Kitchen Exhaust Fan, DOL Starter Panel	Rmt	5	400.00	50.00	2,250.00		5	5	+	2,250.00	2,250.00
	Suitable for 4000 CFM Kitchen Fresh Air Fan, DOL Starter Panel	Rmt	5	400.00	50.00	2,250.00		5	5		2,250.00	2,250.00
	Faction							1	1	1		
b	Earthing:					. ==2 **						
	8 SWG	Rmt	30	110.00	40.00	4,500.00		1			-	-
4.3	CABLE TERMINATION :								1			
7.3										1		
	Supply & Making of Cable termination of armoured / unarmoured cables 1.1						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, meggaring values & submitting reports of tests.						1					
	(One set includes termination of all cores of one end only). All crimping tools											
	& dies shall be arranged by contractor.											
	Suitable for 4750 CFM Kitchen Exhaust Fan	Nos.	2	750.00	200.00	1,900.00		2	2	<u> </u>	1,900.00	1,900.00

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	VENTILATION ABSTRACT SHEET											
Sr. No.	Description Items	Unit	Qty	Supply Rate	Installation	Total Amount	Quantity			Amount (Rs.)		
31.140.	Description items		Qty	Supply Nate	Rate	Total Alliount	Previous	Present	Cummualtive	Previous	Present	Cummualtive
4.4	CABLE TRAYS											
	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.											
а	50mm wide x 50mm Height x 1.6mm thick	Rmt	15	650.00	100.00	11,250.00						
	SUB-TOTAL					79,800.00					64,050.00	64,050.00
	GRAND TOTAL					11,91,975.00					10,62,072	10,62,072
	Add GST @ 18%					2,14,555.50					1,91,173	1,91,173
	TOTAL INCLU. TAX					14,06,530.50					12,53,245	12,53,245

PROJE	CT : JOSI	4												
			nent (Rec	tangular)										
	Ducting Measurement (Rectangular) Size								G	I. Ducting			Thermal	
Sr.No.	Remark	Width 1	Height 1	Width 2	Height 2	Perimeter	Length	Qty	Area	24 G	22 G	20 G	18 G	Insulation
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Nos.)	(SQ MT)					50 MM
		, ,	EXHAUST	_ `	` '	, ,	, ,	, ,	,					
1	Taper	1100	400	1000	400	2900	600	1	1.74	0.00	1.74	0.00	0.00	1.89
2	Taper	1100	400	1500	450	3450	600	1	2.07	0.00	2.07	0.00	0.00	2.22
3	Taper	1500	450	700	400	3050	750	1	2.29	0.00	2.29	0.00	0.00	2.48
4	ST	700	400	700	400	2200	1200	1	2.64	2.64	0.00	0.00	0.00	2.94
5	Elbow	700	400	700	400	2200	600	1	1.32	1.32	0.00	0.00	0.00	1.47
6	ST	700	400	700	400	2200	2400	2	10.56	10.56	0.00	0.00	0.00	11.76
7	ST	700	400	700	400	2200	1200	1	2.64	2.64	0.00	0.00	0.00	2.94
8	Elbow	700	400	700	400	2200	750	1	1.65	1.65	0.00	0.00	0.00	1.84
9	ST	700	400	700	400	2200	1200	1	2.64	2.64	0.00	0.00	0.00	2.94
10	Elbow	700	400	700	400	2200	750	1	1.65	1.65	0.00	0.00	0.00	1.84
11	ST	700	400	700	400	2200	2400	1	5.28	5.28	0.00	0.00	0.00	5.88
12	Taper	700	400	500	300	1900	650	1	1.24	1.24	0.00	0.00	0.00	1.40
13	ST	500	300	500	300	1600	2400	1	3.84	3.84	0.00	0.00	0.00	4.44
14	De	600	0	0	600	1200	600	1	0.72	0.72	0.00	0.00	0.00	0.87
15	Coller	650	150	500	150	1450	150	1	0.22	0.22	0.00	0.00	0.00	0.26
16	ST	500	150	500	150	1300	2400	1	3.12	3.12	0.00	0.00	0.00	3.72
17	Elbow	500	150	500	150	1300	750	1	0.98	0.98	0.00	0.00	0.00	1.16
18	ST	500	150	500	150	1300	1800	1	2.34	2.34	0.00	0.00	0.00	2.79
19	De	600	0	0	0	600	600	1	0.36	0.36	0.00	0.00	0.00	0.51
20	Droper	400	400	400	400	1600	1200	7	13.44	13.44	0.00	0.00	0.00	15.54
		0	0	0	TOTA	AL QTY.	SQ. MT.		60.7	54.6	6.1	0.0	0.0	68.9
	_	<u> </u>	FRESH AI											
1	Taper	900	400	700	400	2400	650	1	1.56	0.00	1.56	0.00	0.00	1.72
2	Coller	900	400	1000	550	2850	150	1	0.43	0.00	0.43	0.00	0.00	0.47
3	PLE	1000	600	1000	600	3200	1200	1	3.84	0.00	3.84	0.00	0.00	4.14
4	De	1000	0	0	1000	2000	1000	2	4.00	0.00	4.00	0.00	0.00	4.50
5 6	Taper ST	700	400	450	450	2000	650	1	1.30	1.30 5.28	0.00	0.00	0.00	1.46 5.88
7		700 700	400 400	700 400	400 350	2200 1850	2400 650	1	5.28	1.20	0.00	0.00	0.00	1.37
8	Taper ST	400	350	400	350	1500	2400	1	1.20 3.60	3.60	0.00	0.00	0.00	4.20
9	De	800	0	0	800	1600	800	1	1.28	0.00	1.28	0.00	0.00	1.48
10	Coller	800	150	700	150	1800	150	3	0.81	0.00	0.81	0.00	0.00	0.92
11	ST	700	150	700	100	1650	1500	3	7.43	7.43	0.00	0.00	0.00	8.55
12	Coller	800	150	700	150	1800	150	1	0.27	0.00	0.27	0.00	0.00	0.31
13	ST	700	150	700	100	1650	2100	1	3.47	3.47	0.00	0.00	0.00	3.99
14	Droper	300	300	300	300	1200	300	1	0.36	0.36	0.00	0.00	0.00	0.44
15	Coller	550	150	450	150	1300	150	2	0.39	0.39	0.00	0.00	0.00	0.47
16	ST	450	150	450	100	1150	1200	2	2.76	2.76	0.00	0.00	0.00	3.36
17	DE	550	0	0	550	1100	550	2	1.21	1.21	0.00	0.00	0.00	1.49
17	Droper	400	400	400	400	1600	350	2	1.12	1.12	0.00	0.00	0.00	1.30
	Cancel Ducting													
1	ST	400	350	400	350	1500	1800	1	2.70	2.70	0.00	0.00	0.00	3.15
2	Elbow	500	150	500	150	1300	750	1	0.98	0.98	0.00	0.00	0.00	1.16
					TOTAL QTY.		SQ. MT.		44.0	31.8	12.2	0.0	0.0	50.3
	<u> </u>			GRAN	D TOTAL	SQ. MT.		105	86.4	18.3	0	0	119	
					ВО	Q QTY	SQ. MT.		150	100	50			150
					BOQ	Item No				2.1 - d	2.1 - c			3.1

BOQ Item No	JOSH PROJECT							
2.2		GRILLE	SQMT					
	400	400	2	NOS	0.32			
	300	300	1	NOS	0.09			
			SITC TOTA	AL SQMT	0.41			
	1200	100	2	NOS	0.24	Cancel		
	2900	100	1	NOS	0.29	Cancel		
		0.53						
					2011			
2.5		LOUVER		1	SQMT			
	700	400	1	NOS	0.28			
	1000	500	1	NOS	0.5			
			TOTAL	SQMT	0.78			
2.6		COLLAR DAMI			SQMT			
	400	400	14	NOS	2.24			
	400	400	2	NOS	0.32			
	300	300	1	NOS	0.09			
			TOTAL	SQMT	2.65			
	1000	100	1	NOS	0.1	Cancel		
	800	100	3	NOS	0.24	Cancel		
			Ī					
		VOLUME CONTROL		1	SQMT			
	700	400	2 TOTAL	NOS	0.56	Cancel		
			0.9					
2.4		MOTORISED DA	SQMT					
2.7	700	400	1	NOS	0.28			
	1000	500	1	NOS	0.28			
			TOTAL		0.78			
				-				
2.7		CANVAS CONEC	TION		NOS			
	900	250		NOS	3.00			

11		NOS									
Sr. No.	Sr. No. Descripti Qty		Unit	Weight In Rmt	Total Kg						
1	0 x 50 x 5m	25	Rmt	9.56	239						
BOQ Qty											