IRN : 21851e6bac25366cd9f125f24da53ace383a23bc12cae-

e84dd310430ca55e3a4

Ack No. : 172416069557612

Ack Date : 22-Oct-24

Anjle Mep Projects Pvt LTD 41/1407, 2nd Floor DDA Flat Madangir Near

Khanpur Red Light N D-110062 GSTIN/UIN: 07AAQCA8977K1ZP State Name: Delhi, Code: 07 CIN: U74999DL2018PTC333864

Consignee (Ship to)

Travel Food Services Pvt Ltd. (Karnataka)

Lounge & Transit Hotel Airport Bengalore Urban

GSTIN/UIN : 29AADCB2762L1ZE State Name : Karnataka, Code : 29

Buyer (Bill to)

Travel Food Services Pvt Ltd. (Karnataka)

Administration Block Kempegowda International

Airport Bengalore Urban

GSTIN/UIN : 29AADCB2762L1ZE State Name : Karnataka. Code : 29

Invoice No.	Dated
AMP/24-25/067	22-Oct-24
Delivery Note	Mode/Terms of Payment
Buyer's Order No.	Dated
BLR/PO/24-25/000143	28-Aug-24
Dispatch Doc No.	Delivery Note Date
Dispatched through	Destination
	Bangalore
Terms of Delivery	-

Sta	ate Name : Karnataka, Code : 29					
SI	Particulars	HSN/SAC	Quantity	Rate	per	Amount
No.			•			
1	Supply Installation of Air Handling Unit	995463				18,07,150.00
2	Supply Installation of HVAC Work	995463				19,95,227.00
	IGST					8,65,142.86
	Round Off					0.14
	Total					# 4C C7 F00 00
	Total					₹ 46,67,520.00

Amount Chargeable (in words)

E. & O.E

INR Forty Six Lakh Sixty Seven Thousand Five Hundred Twenty Only

_				
HSN/SAC	Taxable		IGST	Total
	Value	Rate	Amount	Tax Amount
995463	18,07,150.00	28%	5,06,002.00	5,06,002.00
995463	19,95,227.00	18%	3,59,140.86	3,59,140.86
Total	38,02,377.00		8,65,142.86	8,65,142.86

Tax Amount (in words): INR Eight Lakh Sixty Five Thousand One Hundred Forty Two and Eighty Six

paise Only

for Anjle Mep Projects Pvt LTD

Company's PAN : AAQCA8977K

PREMKANT Digitally signed by PREMKANT RAJPOOT Date: 2024.10.22 RAJPOOT Authorised Signatory

SUBJECT TO DELHI JURISDICTION

	BLR-T1-080 LOUNGE PH-2		
	BLR/PO/24-25/000143		
	HVAC HIGH SIDE		
	BIAL DOMESTIC LOUNGE - PHASE II		
	HVAC BOQ SUMMARY		
Sr.No	Description	Total Amount	1st Running bill amount
1	AIR HANDLING UNIT:	1,654,000.00	1,441,000
2			
5	VENTILATION SYSTEM:	49,500.00	34,650
	TOTAL WITHOUT TAX	1,703,500.00	1,475,650
	IGST SGST @ Other taxes if applicable	476,980.00	413,18
	TOTAL WITH TAX	2,180,480.00	1,888,832
	- 1900 pp		
	CERTIFIED BY		TED BY
	RANJANDAS SHETTY	ANJLE MEP PRO	DJECTS PVT LTI

P Consu	ITANTS BIAL DOMESTIC LOUNGE - P 1st running bill HVAC B					R	A-1
Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	%	Amount
	Note:						
a	Prices shall be based on supply, installation, testing & commissioning (SITC) at site including all taxes, duties, transportation & insurance etc.						
1	AIR HANDLING UNIT:						
1,1	CHW FLOOR MOUNTED AIR HANDLING UNIT SITC of double skin floor mounted AHU with suitable plug type fans with IE3 efficient 3phase motor, UVGI, Moisture eliminators etc. The thickness of panel to be with 42+/-3mm thick PUF Insulation. The coil shall be of hard copper tubes covered by aluminium fins with 13-15 FPI. The AHU to have a SS condensate drain tray which shall be duly insulated with 13mm thick class O nitrile rubber insulation. The contractor to furnish the GA drawings of AHU prior to ordering with necessary technical catalogues and fan curve selections. The noise level near the AHU should not cross more than 60dbA at 1m away from the unit. Also the AHU shall have a prefilter						
	of MERV 8 with necessary framework. AHU body frame shall be with Aluminium. AHU shall have TEFC Squirrel Cage IP 55 Protected VFD Compatible induction motor, copper header, "Copper to MS" adopter, vibration isolation pad. Scope also includes limit switch with lights inside AHU. AHUS shall be selected for a maximum face velocity of 500 FPM (2.5MPS) and as per schedule of air handling units. Fan outlet velocity shall not exceed 1600 FPM (8.12 MPS). Chilled water inlet & Outlet temp to be 8 & 13,5°C. AHUs shall be of following design parameters:						
	Capacity Tonnage ESP No. of USGPM (Cfm) TR (mm WG) Rows		*				
a	11200 25 40 4/6 60	No	1	415000	415,000	0.80	332,00
1,2	VRF FLOOR MOUNTED AIR HANDLING UNIT SITC of double skin floor mounted AHU with suitable plug type fans with rated 3phase motor. The thickness of panel to be with 42+/-3mm thick PUF Insulation. The coil shall be of hard copper tubes covered by aluminium fins with 13-15 FPI. The AHU to have a SS condensate drain tray which shall be duly insulated with 13mm thick class O nitrile rubber insulation. The contractor to furnish the GA drawings of AHU prior to ordering with necessary technical catalogues and fan curve selections. The noise level near the AHU should not cross more than 60-65dbA at 3m away from the unit. Also the AHU shall have a prefilter of MERV 8 with necessary framework. AHU body frame shall be with Aluminium. AHU shall have TEFC Squirrel Cage IP 55 Protected VFD Compatible induction motor, and vibration isolation pads. Scope also includes limit switch with lights in AHU. Cooling Coil section with AHRI certified Coil (0.15mm AL 13 FPI fins / 12.7 mm OD 27 SWG Cu Tube) suitable for VRF Outdoor Unit (R410a refrigerant). AHUs shall be selected for a maximum face velocity of 500 FPM (2.5MPS) and as per schedule of air handling units. Fan outlet velocity shall not exceed 1600 FPM (8.12 MPS). AHUs shall be of following design parameters: Capacity Tonnage ESP No. of (Cfm) TR (mm WG) Rows						
а	10500 27 40 4/6	No.	1	410,000	410,000	0.80	328,00
1.3	SUPPLY OF VRF OUT-DOOR UNITS Supply of air cooled variable refrigerant flow modular type ODUs each comprising of multiple rotary/scroll compressors fully inverter driven, full charge of refrigerant gas (R-410a), lubricating oil and all accessories as per the specifications. TheODUs shall be suitable for operation on 415 ± 10% volts, 50Hz, 3 phase AC power supply and the condensing units shall be of following capacities:						
a	OUTDOOR UNITS 34 HP at site conditions. Note : The unit shall be selected taking indoor and ambient deration, refrigerant pipe length deration in to account.	No.	1	765,000	765,000	1.00	765,00
1.3	AHU CONTROLLER AND EEV KIT Supply of AHU Controller, Electronic Expansion Valve (EEV) Kit and all other						
	necessary accessories to connect with VRF ODU's,	No.	1	20,000	20,000	0.80	16,00

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Const	Itants BIAL DOMESTIC LOUNGE - P	HASE II		se:			
	1st running bill HVAC B	OQ				R	A-1
1,4	FRAME WORK						
	Supply, fabrication and installation of PCC / Siporex blocks for AHU						
	support. AHU framework shall be part of AHU supply. Each AHU shall	Sets	3	8000	24,000		
	require 9nos. of blocks.				-		
1,5	SPARE FILTER		1				
	One set of MERV 8 throw away type filters to be provided for all AHUs.			-			
	These filters will be used for commissioning. Original set of filters will be	Sets	2	10000	20,000		
	installed as instructed by Architect / Consultants.						
	GENERAL NOTES:					-	
a.	Fan outlet velocity - 1600 FPM						
	Contractor shall submit static pressure calculation for all above units to						
b.	Client/Consultant.		- 1				
С.	Any change in motor HP shall be made at no extra cost to client.						
d.	Fan efficiency shall be minimum 75%						
	The cost shall be included liftting & shifting of each equipment / material						
e.	with all necesaary arrnagement. Also, it shall be included the cost of						
	scaffloding required for Installation of such material / equipment.						
	SUB-TOTAL		\rightarrow		1,654,000		1,441,0
_							-62-176
5	VENTILATION SYSTEM:				-		
5,1	INLINE CIRCULAR FAN:						
	SITC of Inline Circular fan (silent type) with speed control, direct drive	- 1					
	package - motor with outlet dampers, fan inlet & outlet flexible						
	connection, hanging arrangement with vibration isolators etc. Power will		1			1	
	be provided 5 ft away from fan and necessary control wiring with plug will			1			
	be provided by AC contractor. Motor efficiency IE2/IE3, AMCA					1	
	Certification and Noise levels at 1m distance to be specified. The fans shall						
	have BMS Compatibility.						-
a .	700 CFM @ 25 mmwg ESP	Nos	2	18,500	37,000	0.70	25,9
b	100 CFM @ 15 mmwg ESP	No	1	12,500	12,500	0.70	8,7
	NOTES:						
a.	Contractor shall submit static pressure calculation for all above units to						
	Client/Consultant.						
b.	Any change in motor HP shall be made at no extra cost to client.					-	
	The cost shall be included liftting & shifting of each equipment / material						
c.	with all necesaary arrnagement. Also, it shall be included the cost of						
	scaffloding required for Installation of such material / equipment.						

	LOW SIDE		
_	BIAL DOMESTIC LOUNGE - PHASE II FIRST RUNNING BILL FOR HVAC BOQ SUMMAR	v	
		Total	
Sr.No	Description	Amount	RA-1
2	CHILLED WATER PIPING WITH INSULATION:	125,800.00	75,065.0
3	INDIGENOUS WORK;	437,350.00	172,270.0
4	DX DUCTABLE UNITS:	473,000.00	332,000.0
6	SHEET METAL WORKS:	1,332,300.00	799,930.0
7	THERMAL & ACOUSTIC INSULATION:	348,750.00	194,250.0
8	ELECTRICAL WORKS:	150,250.00	55,000.0
	TOTAL WITHOUT TAX	2,867,450.00	1,628,515.0
	CGST @		202.422
	IGST@18% Other taxes if applicable	516,141.00	293,132.7
	TOTAL WITH TAX	3,383,591.00	1,921,647.7
(A Jan Marie Contraction of the C		
	CERTIFIED BY	ACCEPTI	ED BY
	RANJANDAS SHETTY	ANJLE MEP PROJE	CTS PVT LTD

	1st Running bill for HVAC	BOQ				-	
Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	0/0	Amoun
a	Note: Prices shall be based on supply, installation, testing & commissioning (SITC) at site including all taxes, duties, transportation & insurance etc.						
2	CHILLED WATER PIPING WITH INSULATION:						
2.1	CHW PIPE						
a	STTC of MS Heavy duty class 'C' ERW Chilled Water pipe conforming to IS 1239 - 2004 primer painted including bends, tees, MS supports, PUFF saddles, anchor fasteners, steel angles and any other material required to complete the work. The piping flange connection bolts, washers and nuts should be hot dipped galvanised. Flourscent Plastic Sticker/ paint shall be applied to indicate Water flow directions. Only End flanges to be used for capping of pipes. "Table E" of BS code for flanoe thickness to be adhered. Dia 50 mm	Rmt	15	1050	15,750	70%	11,/
b	Dia 65 mm	Rmt	RO	1350	15,750	7076	1,1,1
2.2	CULTULED WATER PURTING ANGLE ATTOM						
2.2	CHILLED WATER PIPING INSULATION SITC of insulation for chilled water. piping. For internal pipe - Stick 25mm thick Nitrile rubber Insulation with anti microbial coating, sealing all joints. putting all joints at 300 mm intervals with PVC bands and finally sealing with 3M glass cloth vapour barrier.						s
a	Dia 50 mm	Rmt	15	550	8,250	70%	5,7
b	Dia 65 mm	Rmt	RO	850			1.
2.3	BUTTERFLY VALVES SITC of CI Butterfly valves shall be wafer type, bi-directional Butterfly valves MSS SP-67; ANSI Class 150 carbon steel body conforming to ASTM A216, Type WCB, TFE seats and TFE packing, stainless steel (SS410) PTFE coated shafts, matching flanges, locking devices extended flow control lever, insulation, nuts, bolts and neoprene gasket etc. Valve should be suitable for 16 kg/Sq.cm Pressure						
	Make: Advance / Audco / Kirlsokar				40.400	700/	
a b	Φ 50 mm Φ 65 mm	Nos. Nos.	4 RO	4850 6850	19,400	70%	13,
	"						
2.4	Y-STRAINER SITC of following sizes of Carbon steel type Y-strainer with matching flanges, Staineless steel mesh, bolts, supports etc. Valve should be						
a	suitable for 16 kq/Sq.cm. Pressure, Φ 50 mm	Nos.	1	4,250	4,250	70%	2,
b	Φ 65 mm	Nos.	RO	6540	1,230	7070	
2.5	PIBCV VALVES SITC of Pressure Independent Balancing cum Control Valves (PIBCV) including integrated motorised control valve and balancing						
	device for combined flow and water balancing requirement. Valve body to be rated for PN 16. The valve design flow rate should be factory calibrated with +/- 5% flow accuracy. Valve shall have necessary measuring ports, drain port, flanges etc., Valve shall also provide temperature sensor with necessary cabling (min 5mtr length to be considered with each valve). The balancing to be done through microprocessor based hand held terminal / POT and the same results shall be furnished in the water balancing report as part of commissioning report and handing over manual.			ALEGO.		702/	
a b	Φ 50 mm Φ 65 mm	Nos. Nos.	1 RO	44500 65000	44,500	70%	31,
2.6	BALL VALVE SITC of following sizes of Brass Ball Valve consist of Cap, matching flanges, bolts, supports, etc. Valve should be suitable for 16			55000			
	ka/Sa.cm. Pressure.						
b	Dia 20 mm	Nos.	2	1800	3,600	70%	2,

Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	0/0	Amount
2.7	Auto Air Vent Valves						711104110
	Providing and fitting Auto Vent Valves.						
а	SITC of Auto air vent in each risers & common headers & AHU. 3/4"	Nos.	2	1500	3,000		
	auto vent valves at each coil / riser/ header.				.,	60%	1,80
2.8	SITC of Pressure gauges & Thermometers						
	Necessary pressure gauges and thermometers 4" Dial type.					-	
a	Pressure gauges Range 0-10 Kg/CM2	Nos.	2	1650	3,300	60%	1,98
Ь	Thermometer, Range 0-50 deg C	Nos.	2	1450	2,900	60%	1,74
C	Thermowells	Nos.	4	1050	4,200	60%	2,52
d	Test plugs	Nos.	RO	1500	.,	0070	EJUL
					ĺ		
2.9	DRAIN PIPING:						
	SITC of UPVC Drain Pipe from unit drain pans to nearest floor drain,						
	complete with all screwed joints and providing & fixing in position						
	the necessary elbows, tees, reducers, interconnection, flanges, P- trap, connector to floor trap along with 9mm thick tubular nitrile	i j					
	rubber insulation.						
a	40mm dia.	Rmt.	10	410	4,100		
b	32mm dia.	Rmt.	15	370	5,550		
С	25mm dia.	Rmt.	20	350	7,000	-	
C	Eshiii did.	IXIIIC.	20	330	7,000		
	NOTES FOR PIPING:						
	Cover all open pipe ends with muslin cloth during						
a	construction						
b	Pipe cleaning & chemical treatment as per specs shall be						
	included in the piping cost.						
С	Unit rates for all indicated sizes of pipes & valves shall be						
	furnished. Cleaning/Painting of pipe before insulation shall be						
d	included in piping cost.	i i					
	The piping support should be as per tender specification and						
e	additional supports are to be provided Contractor as decided						
	by Consultant.						
	All the valves shall be insulated with the same material as						
f	that of Chilled water pipng and cost of insulation for valves						
	shall be considered.		-				
	SUB-TOTAL				125,800		75,065
3	INDIGENOUS WORK:						k!
	INSTALLATION OF VRF OUT-DOOR UNITS with Controller &	,			-	-	
3.1	EEV KIT						
	Installation, Charging, Testing and commissioning of VRF system						
	with Environment friendly refrigerant for the below mentioned						
	system along with controller and EEV kit. This shall include lifting,						
	shifting and positioning of outdoor units, nitrogen leak testing, oil						
	charaina. vaccumisation etc 34HP	N1-		20.000	20.000		
a	3402	No.	1	20,000	20,000		
3.2	VRF REFRIGERANT PIPING & FITTING WITH INSULATION	-			- 1		
	SITC of high pressure copper refrigerant piping suitable for R 410a						
	refrigerant of suitable size as required and duly insulated with 19mm						
	thick closed cell elastomeric insulation in tubing form. External						
	Refrigerant piping shall be laid on GI covered cable trays. Piping						
	inside occupied spaces shall be supported using GI ladder type cable						
	trays throughtout. Entire refrigerant piping work be carried out in						
а	10500 CFM AHU with 34HP VRF ODU's	Rmt	50	2,650	132,500	70%	92,75
	Note: Referiferant piping shall include liquid + gas pipe with	Tante	30	2,030	132,300	7070	32,13
	all necessory fittings. Also, the size of the same shall be as						
	per manufactured standard.						
	Additional gas charging - Over and above standard Gas charging						
3.3	quantity	Kg	25	1,850	46,250		
3.4	REFNET JOINTS		-				
	SITC of Special Refrigerant T-joints for VRV units	No	11	6,500	6,500	70%	4,550
3.5	POWER CABLING	1					
	Supply, Laying, Testing & Commissioning of Power cabling with PVC						
	armoured copper cable with terminations between ODU and ELCB.						
	Power to ELCB to be provided near each ODU by electrical contractor						
	(Supply to be provided within 3 metres near ODU).						

Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	%	Amount
a C	10 sgmm 4 core 8 SWG Copper Wire	Rmt Rmt	100 200	= 850 100	85,000 20,000		
3.6	COMMUNICATION CABLE SITC of communication cables between outdoor units and indoor units and Indoor to Indoor units, ODU and Intelligent Touch Controller 1.5 sqmm 2 core	Rmt	90	190	17,100	70%	11.070
3.7	CABLE TRAYS Supplying & Fixing of following sizes of GI cable tray duly painted perforated type of height 75mm along with necessary bends, reducers etc. anchored along the wall / suspended from the ceiling with necessary MS supports.	KIIIC	90	190	17,100	70%	11,970
a b	150mm wide 300mm wide	Rmt Rmt	RO 200	550 450	90,000	70%	63 ,000
3.8	FRAMEWORK FOR VRF ODU 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.	No.	2	10,000	20,000		
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.						
	SUB-TOTAL				437,350		172,270
4.0	DX DUCTABLE UNITS:						
4.1	DX DUCTABLE UNITS: SITC of Ductable Split units with Inverter compressor and R407c / R410a referigerant gas. The units should be complete with indoor unit, condensing unit, controls, control panel, wiring, refrigerant piping, gas charging, etc. The control cabling and insulated refrigerant piping should be based on the distance between indoor unit and condensing unit being 50 Mtr/Ckt. Unit shall have corded remote. Refrigerant piping slope to be maintained towards condensing unit Make: Bluestar/ Carrier / Daikin / Voltas / Bluestar 3.0 TR Ducted unit with condensing units	Nos.	2	135,000	270,000	80%	216,000
4.2	REFERERANT PIPING WITH 13MM INSULATION						
	SITC of Refrigerant piping with pressure testing, vacuum & refrigerant charging with 13mm thick nitrile rubber tubular insulation Piping Make: Maxflow/ Mandev/ Heling						
a	Insulation Make: Armaflex & K-flex 3.0 TR Ducted unit with condensing units	Rmt	100	1,450	145,000	80%	116,000
4.3	POWER & CONTROL CABLE Supply, laying, dressing, testing and commissioning of 1100V grade copper conductor, galvanized steel wire/strip armoured XLP, PVC sheathed power and control cables of following sizes to be laid on trays/ wall/racks including clamping and earthing as per Specification. Cabling to be provided from starter panel to the individual unit including necessary termination. Make: Polycab, KEI & Finolex						
а	Power Cabling between the MCB`s/MCCB`s and the Air Conditioning	Rmt	20	550	11,000		
b	unit Contro! Cabling between indoor & outdoor units	Rmt	120	200	24,000		
4.4	FRAME WORK: Supply, fabrication, installation of MS base frame /platform for outdoor units as mentioned in the drawing which shall be completed with vibration isolation pads, supports, hangers, railing, brackets etc. Construction as approved by Architect / Consultant. Apply 2 coats of paint Finish painting to be as approved by Architect. Outdoor unit	Nos	2	8,000	16,000		

P Consu Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	0/0	Amount
4.5	MCB FOR DX ODU SITC of IP65 rated PVC enclosure with 16A TPN MCB For HVAC Outdoor Units	Nos.	2	3500	7,000		
Note:	All cables & conduits to be FRLS. MCCB's & earthing of required rating & sizes shall be provided by Electrical contractor.						
	SUB-TOTAL				473,000		332,000
6	SHEET METAL WORKS:						
6.1	GI SHEET RECTANGULAR METAL DUCTING 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 SMACNA standards, The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Bracing,						*
	Rubber Gaskets, Wooden frames, Canvas Connections, etc. as per						
a	18 Gauge GI Sheet Metal Duct (Above 2001mm & Plenum)	Sq.mtr	15	1730	25,950	70%	18,165
b c	20 Gauge GI Sheet Metal Duct (1101-2000mm) 22 Gauge GI Sheet Metal Duct (601-1100mm)	Sq.mtr Sq.mtr	10 250	1520 1270	15,200 317,500	70% 70%	10,640
d	24 Gauge GI Sheet Metal Duct (0-600mm)	Sq.mtr	300	1105	331,500	70%	222,250 232,050
6.2	GI SHEET ROUND METAL DUCTING Supply, Fabrication, Testing, Air Flow Balancing and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Round ducting, Splitters, Flanges, Collars etc as per SMACNA standards. The complete ducting shall be provided with MS Supports, Rods, Angles, Flanges, Bracing, Rubber Gaskets, etc. as per drawings and specifications.						
a	24 Gauge GI Sheet Metal Duct (0-600mm)	Sq.mtr	25	1250	31,250	70%	21,87
6.3	AIR BALANCING & LEAK TEST						
	Air balancing activity with calibrated air hood and subsequent air balancing report with consultants approval for entire project. Also, cost shall include light / smoke test of complete duct length.	Lot	1	10000	10,000	`*	
6.4	EXTRUDED ALUMINIUM GRILLES SITC of Aluminium extruded powder coated 150mm width grilles model EP-00/15/30 with four side flanges, etc.						
a b	Linear Grille Curve Grille	Sq.mtr	10	7340	73,400 28,500	50% 50%	36,700 14,250
		Sq.mtr		9500	20,500	30 70	11,200
6.5	EXTRUDED ALUMINIUM CEILING SQUARE DIFFUSER Supply, Installation, Testing and Balancing of supply & return air diffusers as per the approved shop drawings and specifications. Each diffuser shall be equipped with fixed air distribution grid, removable key-operated volume control damper, complete with insulated plenum box. The diffusers shall be anti-smudge ring/flush type. Powder coated extruded aluminium diffusers of approved colour & shade of following sizes:						
a	Supply Air Square Diffuser with Plenum Box & Control Damper 225x225mm Neck Size	Nos.	4	2250	9,000	50%	4,500
		1103.	7	2230	9,000	30 70	4,500
b	Return Air Round Diffuser 225x225mm Neck Size	No.	4	2450	9,800	50%	4,900
6.6	EXTRUDED ALUMINIUM CEILING ROUND DIFFUSER Supply, Installation, Testing and Balancing of supply & return air diffusers as per the approved shop drawings and specifications. Each diffuser shall be equipped with fixed air distribution grid, removable key-operated volume control damper, complete with insulated plenum box. The diffusers shall be anti-smudge ring/flush type. Powder coated extruded aluminium diffusers of approved colour & shade of following sizes:	9 -					
а	Supply Air Round Diffuser with Plenum Box & Control Damper 300mmФ Neck Size	Nos.	2	2150	4,300	50%	2,150

Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	%	Amount
6.7	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	Sq.mtr	2	9500	19,000	50%	Amount
	of volume of air flow and for proper balancing of the air distribution system as per the approved shop drawings and specifications. Makes: Dynacraft/Cosmos					3070	9,500
6.8	OPPOSED BLADE DAMPER SITC of Aluminium Opposed blade dampers black powder coated vertical blades type for supply air collar. The damper should be gear	Sg.mtr	2	4450	8,900	FOO	
	operated type.	Sq.iiiu	2	4430	0,900	50%	4,450
6.9	BACK DRAFT DAMPER SITC of galvanized steel construction back draft dampers (BDD)	Sq.mtr	RO	10500			
6.10	MOTORISED FIRE DAMPER Supply, installation, testing and commissioning of UL 555 /UL 555 S motorized fire / smoke dampers at wall / floor crossing consist of 2.0 Hours rating, 16G GI frame & blade, 20G GI casing, brass bushing for friction free operation, S.S jamb seal for minimum leakage, ON/OFF type actuator with transformer etc. as per specification and approved shop drawings. (Actuators of 24VAC built			a			
а	Fire / Smoke damper	Sq.mtr	4	16500	66,000	50%	33,000
b	Actuator with trnasformer Control logic & wiring for shutting all fire dampers in each AHU's,	Nos.	7	10500	73,500	50%	36,750
С	when AHU is OFF for any reason.	Lot	1	50000	50,000	50%	25,000
6.11	JET NOZZLE Supply, Installation, Testing and Balancing of Powder coated extruded aluminium Jet nozzles with shutter type damper etc. as per the approved shop drawings and specifications.						
6.13	325mm Φ Neck Size	Nos.	30	5050	151,500	50%	75,750
6.12	DISC VALVE SITC of Aluminium powder coated Disc valve suitable for exhausting toilet foul air, comprising of an adjustable centre cone and coupling sleeve made of Aluminium sheet duly epoxy painted with approved color.						
a b	150mmΦ 100mmΦ	Nos. Nos.	18 RO	1,650 1,650	29,700	50%	14,850
6.13	PRE-INULATED FLEXIBLE DUCT SITC of following sizes of insulated flexible ducting with its matching supports, clamps and square to round pieces and other accessories fittings etc. The flexible duct shall me made of triple lamination of aluminium foil, polyester and metalised polyester film permanently bonded to a coated spring steel wire helix. The exterior shall be wrapped with 25mm thick 16 kg / cum fibreglass insulation. The outer insulation jacket / vapour barrier made of fibreglass reinforced metalised polyester film laminate.						
а	350mmΦ	Rmt	30	1,210	36,300	50%	18,150
b	300mmΦ 250mmΦ	Rmt	5	1150	5,750	50%	2,875
c d	150mmΦ	Rmt Rmt	5 20	1050 950	5,250 19,000	50% 50%	2,625 9,500
6.14	CANVAS CONNECTION Supply & fixing of fire rated flexible Canvas connections between				13/000		3/500
	mouth piece and initial piece of ducting with inspection zip.					i de la constantina della cons	
a b	For AHU For Fan	Nos Nos	2 2	2,650 2,850	5,300 5,700		
	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. Air Flow balancing and Pressure testing of complete duct work as per DW/ SMACNA standard. Light testing/smoke testing shall be employed for leaks Silicon sealant for longitudinal & transverse joints as per specification.			e			
	Jet Nozzle, Diffusers & grilles shall be powder coated as per color approved by Architect.						Page

Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	0/0	Amount
	SUB-TOTAL				1,332,300		799,930
7	THERMAL & ACOUSTIC INSULATION;						
7.1	THERMAL INSULATION FOR DUCTS Supply & fixing of Thermal insulation for supply air duct using 13mm 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	410	600	246,000	70%	172,200
7.2	ACOUSTIC INSULATION FOR DUCTS						
	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/m³.	Sq.mtr	30	1050	31,500	70%	22,050
7.3	ACOUSTIC INSULATION FOR AHU ROOM Supply & fixing of Acoustic insulation for plant room using 50mm thick Twiga 300 rigid board stick using shalikote primer and GI frame work. Insulation to be covered with glass fiber cloth & finally with 24 G perforated Al. sheet.	Sq.mtr	75	950	71,250		-
	Note:						
a.	Insulation work to be coordinated with other agencies and repair to be included by contractor as per site requirement.					1	
b. c.	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. Thermal insulation shall be internal for Elliptical / Expossed ducting.						
	SUB-TOTAL		-		348,750		194,250
8	ELECTRICAL WORKS:						
					2		
8.1	STARTER PANEL SITC of indoor / outdoor, wall mounting type 3PH, 415VAC MOTOR STARTERS IN CRCA SHEET STEEL ENCLOSURE with necssary 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.						
a b	11200 CFM AHU - 7.5KW, 3PH, Starter Delta type 10500CFM AHU - 7.5KW, 3PH, Starter Delta type	No.	1 1	55000	55,000	50% 50%	27,500
		No.	1	55000	55,000	50%	27,500
8.2	MCB FOR VRF ODU SITC of IP65 rated PVC enclosure with 40A TPN MCB For HVAC Outdoor Units	Nos.	2	4500	9,000		
8.3	POWER CABLING Supply, nandling, 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.		2-1				

Sr. No.	Description Items	Unit	Qty	Rate	Total Amount	%	Amount
	CU 6 sqmm 6 core - 7.5KW	Rmt	20	750	15,000		
b	Earthing: 8 SWG GI Earthing	Rmt	40	100	4,000		
8.4	CABLE TERMINATION:				1		
	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.						
a	CU 6 sqmm 6 core - 7.5KW	Nos.	2	2,000	4,000		
8.5	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.						
a	150mm wide	Rmt	15	550	8,250		
b	200mm wide	Rmt	RO	650			
	SUB-TOTAL				150,250		55,00
	GRAND TOTAL		·				

Total Amount 417,000 417,000 75,060	RA-1 331,500.00 331,500.00 59,670.00
Total Amount 417,000	331,500.00 331,500.00
417,000 417,000	331,500.00 331,500.00
417,000	331,500.00
75,060	59,670.00
492,060	391,170.00
ACCEPTED BY	
ANJLE MEP PROJECTS	S PVT LTD
	ACCEPTED BY ANJLE MEP PROJECT

	KITCHEN VENTILATION BO	Q					
Sr.No	Description	Unit	Qıy	Rate	Total Amount	% work done	Amount
	Note:						
	Prices shall be based on supply, installation, testing & commissioning (SITC) at site including all taxes, duties, transportation & insurance etc.					n'	
1	VENTILATION SYSTEM						
1.1	KITCHEN EXHAUST AIR FAN						
	SITC of 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 F Insulation, suitable for Jphase, 415volts, 50hz power supply, Sound level should be 60dB @ 3mtr distance. Fan should be painted with 2 coat of zinc chromate primer and 2 coats Epoxy paint. The quote shall include with MS frame, starter panel along with its required cable. Supplied with Dunlop Anti-Vibration Pads & Canvass Connection. (Vendor to crosscheck static pressure calculation).						
24	5000 CFM, 60mm Static (Class F)	No	3	195,000	195,000	80%	156,000.
1.2	INDUSTRIAL GRADE ELECTROSTATIC AIR CLEANER						
	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 circult, are 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 Dne 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.						
а	5000 CFM	No	1	195,000	195,000	90%	175,500.
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.						2
a b	Exhaust Fan - 5000CFM Dry Scrubber - 5000 CFM	Lot Lot	1	15,000 12,000	15,000 12,000	- 10	
	Note:						
a,	Fan outlet velocity - 1600 FPM						
b. c.	All cabinet fans should have plenum section. Fresh air fan if any, should to have 6mm thick synthetic media washable						
d,	filter with framework. Contractor shall submit static pressure calculation for all above units to Client/Consultant.						
e.	Any change in motor HP or coil selection shall be made at no extra cost						
	to client.						
f. g.	Fan efficiency shall be minimum 75% The cost shall be included liftting & shifting of each equipment / material with all necessary arrnagement. Also, it shall be included the cost of scaffloding required for installation of such material /						
- 1	equipment.				417,000.00		331,500

	BLR/PO/24-25/000143		
	BIAL DOMESTIC LOUNGE - PHASE II		
_	FIRST RUNNING BILL KITCHEN VENTILATION BOQ SUM	MARY	
Sr.No	Description	Total Amount	RA-1
2 .	SHEET METAL WORKS	-	
3	THERMAL INSULATION	468,500	321,212.5
4	ELECTRICAL WORKS	88,700	45,500.0
	TOTAL WITHOUT TAX	557,200	366,712.5
	IGST@18%	100,296	66,008.2
	Other taxes if applicable		
	TOTAL WITH TAX	657,496	432,720.7
(De grand		
	CERTIFIED BY	ACCEPTED BY	
	RANJANDAS SHETTY	ANJLE MEP PROJECTS	PVT LTD

	KITCHEN VENTILATION BO	OQ					
Sr.No	Description	Unit	Qty	Rate	Total Amount	%	Amount
	Note:						
	Prices shall be based on supply, installation, testing & commissioning (SITC) at site including all taxes, duties, transportation & insurance etc.						
2	SHEET METAL WORKS						
2.1	GI SHEET METAL DUCTING						
	Supply, Fabrication, Testing, Air Flow Balancing and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbows, Splitters, Reducers, Flanges, Collars etc 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.						
С	22 Gauge Gl Sheet Metal Duct (601-1100mm)	Sq.mtr	50	1,350	67,500	70%	47,25
d	24 Gauge GI Sheet Metal Duct (0-600mm)	Sq.mtr	150	1,250	187,500	70%	131,25
2.2	SS EXHAUST AND FRESH AIR GRILLS						
a	SITC of 18G SS 304 Fresh Air Grilles adjustable Double Deflector With S.S Volume Control Dampers. Grills to be of Double Deflection Type for ease of deflection on all sides.	Sq.mtr	0.75	8,500	6,375	70%	4,46
2.3	DOOR TRANSFER GRILLE	92					
	SITC of Aluminium extruded powder coated Door transfer grills.						
	Door transfer grille (Back to Back)	Sq.mtr	0.25	11,500	2,875		
2.4	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	2.5	8,500	21,250	70%	14,87
2.5	CURTAIN TYPE FIRE DAMPER						
	SITC of curtain type 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.						
a	Bare fire dampers	Sq.mtr	0.3	15500	4,650	70%	3,25
b	Fusible link as per specification UL 555 and CBRI approved	No.	1	1600	1,600	70%	1,12
2.6	CANVAS CONNECTION						
	Supply & fixing of flexible Canvas connections between mouth piece and initial piece of ducting. Flexible connections shall be fire resistant made of closely woven, double layer canvass / neoprene coated fibre glass.						
а	Cabiner Exhaust Fan	Nos	1	3,250	3,250		
С	Dry Scrubber	Nos	1	3,500	3,500		
	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.						
191	Silicon sealant for longitudinal & transverse joints as per specification. Diffusers & grilles shall be powder coated as per color approved by Architect.						
	SUB-TOTAL				-		

3	THERMAL INSULATION						
	SITC of Rockwool roll Insulation with stonewool fibres bonded with thermosetting resins, with factory applied laminated Woven Fiber glass cloth of 271GSM. Nominal density: 48 Kg/CuM, Thermal conductivity, < 0.042 W/m.K at 50°C, All Insulation material and adhesives shall be as per Class O for surface spread and in accordance with BS 476, & Class O for non-combustible grade, Also, cost shall include all necessary support and accessories.			٠			
а	50 mm Thick	Sq.mtr	200	850	170,000	70%	119,0
	SUB-TOTAL				468,500		321,2
4	ELECTRICAL WORKS						
4.1	STARTER PANEL with VFD						
	SITC of indoor / outdoor, wall mounting type 3PH, 415VAC MOTOR STARTERS IN CRCA SHEET STEEL ENCLOSURE with necssary 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, Bimetal 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. Starter panel shall be BMS compatible. Variable frequency drives shall be provided with necessary sensors and controllers complete with control wiring in all respect as required, VFDs shall be provided with necessary bypass arrangement inside electrical starter panels with IP-55 enclosure.						
a	5.5KW, 3PH, DOL Starter type for exhaust air fan	No	1	65,000	65,000	70%	45,5
4.2	POWER CABLING						
	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.						
а	Power Cable:						
а	CU 2.5 sqmm 4 core - Exhaust Fan	Rmt	10	350	3,500		
С	CU 2.5 sqmm 3 core - Dry Scrubber	Rmt	10	320	3,200		
b a	Earthing: 8 SWG GI Earthing	Durk	20	150	3,000		
0	a 3 wo or carding	Rmit	20	150	3,000		
4.4	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.			12			
а	CU 2.5 sqmm 4 core - Exhaust Fan	Nos.	2	2,500	5,000		
4.5	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. 150mm wide	Rmt	20	450	9,000		
	SUB-TOTAL				88,700		45,5
					30,700		40,0

	BIAL DAY HOTEL KITCHEN VENTILATION BO)Q					
Sr.No	Description	Unit	Qty	Rate	Total Amount	%	Amount
	Note:						
	Prices shall be based on supply, installation, testing & commissioning (SITC) at site including all taxes, duties, transportation & insurance etc.						
2	SHEET METAL WORKS						
2.1	GI SHEET METAL DUCTING						
	Supply, Fabrication, Testing, Air Flow Balancing and Commissioning of Factory Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting, Plenums, Cowls, Elbows, Splitters, Reducers, Flanges, Collars etc 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.						
c	22 Gauge GI Sheet Metal Duct (601-1100mm)	Sq.mtr	50	1,350	67,500	70%	47,25
d	24 Gauge GI Sheet Metal Duct (0-600mm)	Sq.mtr	150	1,250	187,500	70%	131,25
2.2	SS EXHAUST AND FRESH AIR GRILLS						
а	SITC of 18G SS 304 Fresh Air Grilles adjustable Double Deflector With S.S Volume Control Dampers. Grills to be of Double Deflection Type for ease of deflection on all sides.	Sq.mtr	0.75	8,500	6,375	70%	4,46
2.3	DOOR TRANSFER GRILLE						
	SITC of Aluminium extruded powder coated Door transfer grills. Door transfer grille (Back to Back)	Sq.mtr	0,25	11,500	2,875		
2.4	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	2.5	8,500	21,250	70%	14,87
2.5	CURTAIN TYPE FIRE DAMPER						
29	SITC of curtain type 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.						
а	Bare fire dampers	Sq.mtr	0.3	15500	4,650	70%	3,25
b	Fusible link as per specification UL 555 and CBRI approved	No.	1	1600	1,600	70%	1,12
2.6	CANVAS CONNECTION Supply & fixing of flexible Canvas connections between mouth piece and initial piece of ducting. Flexible connections shall be fire resistant made						
	of closely woven, double layer canvass / neoprene coated fibre glass.						
с	Cabiner Exhaust Fan Dry Scrubber	Nos Nos	1	3,250 3,500	3,250 3,500		
	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 color approved by	-			*		
	Architect.					-	
	SUB-TOTAL						

1

3	THERMAL INSULATION						
	SITC of Rockwool roll Insulation with stonewool fibres bonded with thermosetting resins, with factory applied laminated Woven Fiber glass cloth of 271GSM. Nominal density: 48 Kg/CuM. Thermal conductivity, < 0,042 W/m.K at 50°C, All Insulation material and adhesives shall be as per Class O for surface spread and in accordance with BS 476, & Class O for non-combustible grade, Also, cost shall include all necessary support and accessories.	2					
a	50 mm Thick	Sq.mtr	200	850	170,000	70%	119,00
	SUB-TOTAL				468,500		321,21
4	ELECTRICAL WORKS						1)
4.1	STARTER PANEL with VFD						
a	SITC of indoor / outdoor, wall mounting type 3PH, 415VAC MOTOR STARTERS IN CRCA SHEET STEEL ENCLOSURE with necssary 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, Bimetal 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. Starter panel shall be BMS compatible. Variable frequency drives shall be provided with necessary sensors and controllers complete with control wiring in all respect as required, VFDs shall be provided with necessary bypass arrangement inside electrical starter panels with IP-55 enclosure. 5.5KW, 3PH, DOL Starter type for exhaust air fan	No	1	65,000	65,000	70%	45 500
	5.5kW, 5111, 60t. Statter type for exhaust air fair	INO		65,000	65,000	70%	45,50
	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.					×	
а	Power Cable:						
a .	CU 2.5 sqmm 4 core - Exhaust Fan CU 2.5 sqmm 3 core - Dry Scrubber	Rmt	10	350	3,500		
	CO 2.3 sqiilli 3 core - Dry Scrubber	Rmt	10	320	3,200		
b a	Earthing: 8 SWG GI Earthing	Rmt	20	150	3,000		
4.4	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.		-	à			
а	CU 2.5 sqmm 4 core - Exhaust Fan	Nos.	2	2,500	5,000		
4.5 a	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. 150mm wide	Rmt	20	450	9,000		
	SUB-TOTAL				88,700		45,500
					,,,,,,		,,,,,
	GRAND TOTAL						

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Purchase Order

BLR LOUNGE SERVICES PRIVATE LIMITED

Order Number : BLR/PO/24-25/000143

Supplier Detail	Shipped Location	Invoice Location
ANJLE MEP PROJECTS PVT LTD Supplier Code : RV232419193 [VEND0600]	BLR LOUNGE SERVICES PRIVATE LIMITED BLR Lounge	BLR LOUNGE SERVICES PRIVATE LIMITED BLR Lounge
(VEND0600)	Kempegowda International Airport, KIAL Rd, Devanahalli, Bengaluru (Bangalore) Urban, Karnataka, 560300	Kempegowda International Airport, Kial Rd, Devanahalli, Bengaluru (Bangalore) Urban, Karnataka, 560300
PAN No : AAQCA8977K	Cost Center Code: 91110026	GSTIN No : 29AAICB4881B1ZM Payment Term : 100% advance with GST against
Supplier GST No: 07AAQCA8977K1ZP Supplier Contact No: Contact Person Name: Mr. Premkant Rajpoot Supplier Email: anjlemepprojects@gmail.com	Cost Center Name: 080 Domestic lounge Phase -2 Project ID: PO Category: Capex NSO	machine delivery-19.51 Lacs as advance against machine upon receipt of UDC or Equivalent BG with Advance 50% of Balance amount 38,91,150 to be paid as mobilization advance against low side. RA Bill upto 65% of 38,91,150 shall be paid upon stage wise work completion and post deduction of all mobilisation advance with GST upon submission of Tax invoice or without GST against PI. 10 % retention shall be withheld till completion of DLP against high side machine 19.51 Lacs and 38.91 Lacs against Low side , Retentions shall be released only post completion of DLP or submission of irrevocable BG post completion of DLP. PO Creation Date : 22/08/2024 PO Approval Date : 28/08/2024 PO Currency : INR Buyer Name : Binu Balachandran