## **Kerala Real Estate Regulatory Authority**

TC 25/1379 (1), CRA D -112, SUMANA COTTAGE, Plamoodu-charachira Road, Near Pentecostal Church, Kowdiar P.O , Thiruvananathapuram -695003.

Phone Number: 9497680600

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642/T1/KRERA/2021

Dated 10/5/2022

## **BID NOTIFICATION**

Sealed quotations are invited from eligible firms, for supply, installation, testing, commissioning, and annual maintenance of Variable Refrigerant Flow (VRF/VRV) technology-based air- conditioning system at K-RERA new office at Kesavadasapuram, Thiruvananthapuram. The tender documents can be collected from our office between 10.00AM to 5.00PM on all working days from 11/5/2022. Alternatively tender documents can be downloaded from our website <a href="https://rera.kerala.gov.in">https://rera.kerala.gov.in</a>. Duly filed quotations in sealed cover shall be submitted on or before 16-05-2022 3:00PM.

Details of work:-Supply, installation, testing and commissioning of Air Conditioner and allied work for the new office building at Kesavadasapuram as per requirement of the Authority.

Delivery time :- 15 days from the date of issue of work order.

Secretary (Technical & Administration)

Sheeka

AC Schedule - K-RERA Office						
SI No.	Location	Area (Sqft)	<b>T</b>	T	Outdoor Unit	
	VDE OVOTEN. 4		Tr	Туре		
	VRF SYSTEM -1				1	
0.4	3RD FLOOR	0.45		4 14/41/ 0 4 0 0 5 5 7 5	1	
3.1	ADJUDICATING OFFICER	245	2	4 WAY CASSETTE	1	
3.2	COURT	303	2.6	4 WAY CASSETTE	_	
3.3	AO LEGAL STAFF	108	1	2 WAY CASSETTE	1	
	4TH FLOOR	0			10HP x 2	
4.1	COURT ROOM	529	2.2	4 WAY CASSETTE	(110%)	
4.2	OGGINI NOGWI		2.2	4 WAY CASSETTE	[ (11070)	
4.3	WORK STATION	192	1.5	4 WAY CASSETTE		
4.4	WAITING LOBBY & OFFICE BOY	141	1	2 WAY CASSETTE		
4.5	MEMBER-1	175	1.3	HIWALL		
4.6	EXECUTIVE ASST.	62	0.8	HIWALL		
4.7	CHAIRMANS ROOM	370	3	DUCTABLE	1	
	VRF ODU-1		17.6	->Equivalent HP->	22.1	
	VRF SYSTEM -2					
	5TH FLOOR	0				
5.1	SECRETARY TECHNICAL	206	1.5	4 WAY CASSETTE	1	
5.2	OFFICER 1 2 2	200	369	1.5	4 WAY CASSETTE	1
5.3	OFFICER 1 2 3	369	1.5	4 WAY CASSETTE	1	
				-	1	
5.4	LEGAL SECRETARY	146	1	HIWALL	1	
5.5	MAITING LODDY & MODICOTATION	405	2.2	4 WAY CASSETTE	10HP x 2	
5.6	- WAITING LOBBY & WORKSTATION	485 —	2.2	4 WAY CASSETTE	(115%)	
5.7	ADMIN HEAD	124	1	HIWALL	1 ` ′	
-	6TH FLOOR	0		To the second se	1	
6.1			1.5	4 WAY CASSETTE	1	
6.2	CONFERENCE ROOM	341	1.5	4 WAY CASSETTE	1	
6.3	MEMBER-2	156	1.3	HIWALL	1	
6.4	WORKSTATION & WAITING LOBBY	294	2.2	4 WAY CASSETTE	1	
6.5	IT HEAD	116	1	HIWALL	1	
	VRF ODU-2		18.4	->Equivalent HP->	23.1	

VRF SYSTEM SUMMARY					
SL NO.	UNITS	QTY (NOS)			
	VRF INDOOR UNITS				
1	DUCTABLE - 3 TR	1			
2	2WAY CASSETTE - 1.0 TR	2			
3	4WAY CASSETTE - 1.5 TR	6			
4	4WAY CASSETTE - 2.0 TR	1			
5	4WAY CASSETTE - 2.2 TR	5			
6	4WAY CASSETTE - 2.6 TR	1			
8	HIWALL - 0.8 TR	1			
9	HIWALL - 1.0 TR	3			
10	HIWALL - 1.3 TR	2			
	VRF OUTDOOR UNITS				
11	10 HP ODU	4			

Project : New Office Fitout works for K-RERA at Kesavadasapuram Client : Kerala Real Estate Regulatory Authority HVAC Consultant : ASECOM Engineering Services



SCHEDULE OF HVAC WORKS					
SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Α	High side (Supply of Machines and Ancillary)				
1	Supply of following capacity high efficiency VRF /VRV				
	Air conditining system (2 pipe system /cooling only)				
	with air cooled top /side discharge condenser units with				
	anticorrosive blue /black coating fins, high efficiency				
	DC motor, electronic expansion valve, control panel				
	with all neccessary protection functions, including				
	single phase preventor, enclosed in powder coated GI				
	sheet metal body. Minimum COP of the system shall				
	be greater than 4 under ARI conditions for 100% load				
	-				
	and system suitable for R410A refrigerant, complete				
	with all accessories including anti vibration isolators  2 Nos.10 HP (or nominal higher capacity) ODU				
a)	combined	Set	2		
2	Supply of following type & capacity (or nominal higher				
	capacity) VRF /VRV Indoor units comprising of multi				
	speed blower, electronic expansion valve,10 micron				
	filter, condensate water drain pump with electronic level				
	sensor (for all cassette & ductable units) and IR				
	receiver. All indoor units shall be of the same make &				
	compatible to work with above VRV /VRF type condensing unit				
2.1	3TR Concealed Ductable unit	Nos	1		
2.2	1.0 TR 2 Way Cassette unit with front panel	Nos	2		
2.3	1.5TR 4 Way Cassette unit with front panel	Nos	6		
2.4	2.0TR 4 Way Cassette unit with front panel	Nos	1		
2.5	2.2TR 4 Way Cassette unit with front panel	Nos	5		
2.6	2.6TR 4 Way Cassette unit with front panel	Nos	1		
2.7	0.8TR Hiwall unit	Nos	1		
2.8	1.0TR Hiwall unit	Nos	3		
2.9	1.3TR Hiwall unit	Nos	2 21		
4	Supply of wireless remote controller  Supply of wired remote controller (For ductable unit)	Nos Nos	1		
5	Supply of branch distribution refnet joint kits / branch				
	header with insulation	Nos	19		
6	Supply of outdoor refnet joint kits with insulation	Nos	2		
Total for F	ligh side (Supply of Machines and Ancillary)				
В	Low side Works				
7	Lifting to terrace foor, Positioning, Installation, Testing				
	and Commissioning of VRF /VRV outdoor units				
	including charging of additional required refrigerant and				
	oil, making refrigerant pipe outdoor termination and jointing, electrical connections etc., complete.				
	(Excluding supply of refrigerant)				
a)	10 HP top / side discharge ODU	Nos	4		
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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
			٠	10112	7.11100111
8	Carriage to final position, Installation, Testing &				
	Commissioning of following type VRF /VRV Indoor				
	units with suitable mechanical supports, anti viration				
	isolators as required, anchor fastner etc., to the existing				
	structure, making refrigerant pipe, drain and electrical				
	connections, complete as per OEM recommendation				
	and provide additional support as and where requird				
8.1	3TR Concealed Ductable unit	Nos	1		
8.2	1.0TR 2 Way Cassette unit	Nos	2 6		
8.3	1.5TR 4 Way Cassette unit	Nos	1		
8.4	2.0TR 4 Way Cassette unit	Nos			
	2.2TR 4 Way Cassette unit	Nos	5		
	2.6TR 4 Way Cassette unit	Nos	1		
8.7	Hiwall units	Nos	6		
9	Supply of R410A refrigerant of required quantity (Additional / Total)	Kg	30		
10	Supply, installation, testing and commissioning of 18G,				
	hard drawn copper refrigerant piping of required size				
	with 13/19mm thick closed cell elastomeric nitrile				
	rubber insulation in tubing form, making all joints and				
	branches. External Refrigerant piping shall be covered				
	with glass cloth and UV treatment. The size and length				
	of gas & liquid pipes to be check with layout. The cost				
	of suitable support system shall be included				
	6.4mm	RM	70		
	9.5mm	RM	130		
	12.7mm	RM	110		
	15.9mm	RM	40		
	19.1mm	RM	70		
	22.2mm	RM	30		
	28.6mm	RM	40		
11	Supply, installation, testing and commissioning of				
	SDR11 CPVC pipe complete with fittings, supports				
	and duly insulated with 9 mm thick closed cell				
	crosslinked polyethylene (XLPE) tubular insulation for				
	condensation drain application.				
a)	25mm dia	RM	RO		
12	Supply and Installation of rectangular GSS ductwork of				
	following gauge, complete with necessary supports,				
	bracing, suspension arrangement in accordance with	SqM	3		
	the approved shop drawings and specifications.				
	Including necessary acoustic and thermal insulation				
13	liner Supply & installation of Antivibration Flexible canvas				
13					
	connection made out of fire retardant fabric with	No	1		
4.	extruded aluminium frame/ flange on both sides				
14	Supply and Installation of following size rectangular				
	linear grilles of suitable design as per the approved				
	shop drawings with fixed air distribution grid.				
<u>a)</u>	150mm	RM	3		
15	Supplly and instalation of square return air diffuser				
	made out of powder coated extruded aluminium with				
	volume control damper of following size				

SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
a)	250 x 250	No	1		
	Supply and laying of control cables between indoor units and outdoor units through PVC conduits fixed directly to wall / ceiling and making necessary connections.	DM	245		
Total for L	ow side works				

	QUIMMADY				
	SUMMARY				
Α	TOTAL FOR HIGH SIDE (SUPPLY OF MACHINES				
	AND ACNILLARY)				
	GST @ 28%				
	SUB TOTAL FOR HIGH SIDE INCLUDING GST				
В	TOTAL FOR LOW SIDE WORKS				
	GST @ 18%				
	SUB TOTAL FOR LOW SIDE WORKS INCLUDING GST				
GRAND	TOTAL INCL. GST (IN FIGURES)				
(IN WOR	DS)				



