

SELECTION OF CONTRACTORS FOR HVAC WORKS (LOW SIDE) AT 7TH FLOOR, GIFT CITY, GANDHINAGAR						
BOQ						
S.NO	DESCRIPTION	QTY	UNIT	UNIT RATE	TOTAL RS	
PART : A	HVAC System High Side Work for Circle Office Area & Worker amenities					
1	Supply of Chilled water 4 way cassette unit with 2 row deep coil (12.7 Fins/ich)) with a multiblade cenrtifugal Fan and a 3 speed motor, networkable thermostat and unit to be supplied with drain pump.					
a	1.5 TR	1	Nos			
Rates in words:						
b	1.75 TR	2	Nos			
Rates in words:						
c	2 TR	4	Nos			
Rates in words:						
d	2.5 TR	1	Nos			
Rates in words:						
e	3.3 TR	1	Nos			
Rates in words:						
**	HIGH SIDE TOTAL BASIC					
Amount in words:						
	ALL AMOUNT ARE EXCLUDING GST					

PART : B		HVAC System Low Side Work for Circle Office Area & Worker amenities		SUPPLY		ERECTION	
				UNIT RATE	TOTAL RS	UNIT RATE	TOTAL RS
1	Installation,Testing and Commissioning of Cassette Unit	9	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
2	CHILLED WATER PIPING						
	Supply, installation, testing & commissioning of MS class 'C' pipes for chilled water cut to required lengths and installed with all welded joints, providing and fixing in position with the necessary fittings like elbows, tees and reducers, galvanised supports, PUF saddles where pipe resting on supports,etc. Pipe flanges shall be as per IS 6392, PN 16.						
	For pipe dia upto 150 mm dia shall be as per IS:1239 class C & for pipe size 200 to 300 mm dia shall be 6 mm thk and for 350 & above shall be ERW as per IS:3589 having 8 mm thk. Insulation shall be nitrile rubber, 25 mm thick for sizes upto 80 mm.						
a	25 mm	145	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
b	32 mm	71	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
c	40 mm	10	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
d	50 mm	46	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
3	Ball valves for the Cassette Units.						
a	25 mm Valve	16	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	32 mm Valve	2	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
4	Supply, installation, testing & commissioning of PICV with actuator with matching flanges.						
a	25 mm Valve	8	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	32 mm Valve	1	Nos				
Rates in words for Supply:							
Rates in words for Erection:							

5	Supply, installation, testing & commissioning of MS Y Strainers with matching flanges.						
a	25 mm Valve	8	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	32 mm Valve	1	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
6	G.I ducting (120 GSM) with all accessories like Bends, Tees,Reducer,expander,Turning vanes etc. with RTV sealant. Rate shall include all supports, anchor, GI Strut Channel, Threaded Rods , flexible joints, fasteners etc. To make system fully functional. (All the Angles, Channels for support shall be duly painted with anti corrosive paint.) - Rectangular Duct						
a	18G	150	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
b	20G	50	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
c	22G	320	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
d	24G	1060	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
7	Insulation of Ducting with 13mm thick fire-retardant class 'O' nitrile rubber	1350	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
8	Supply&Fixing of Duct liner/Acoustic (Insulation)of Duct 10mm thickness acoustic insulation with open cell elastomeric foam with anti-microbial protection.	400	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							

9	Supply & fixing of supply air/Return air diffuser in Aluminum extruded, powder coated						
a	SAD - 600 x 600 (Neck Size-375x375) with collar damper	13	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	SAD - 600 x 600 (Neck Size-300x300) with collar damper	60	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
c	RAD - 600 x 600 (Neck Size-375x375)	31	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
d	RAD - 600 x 600 (Neck Size-300x300)	38	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
10	Supply air/Return Air Grill made out of extruded aluminum construction powder coated	13	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
11	Volume Control Damper						
a	Opposed blade type volume control damper in aluminum construction for controlling airflow	4.5	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
12	Fire Control Damper						
	(Motorised Fire Damper 16 GI sheet construction, with 16G GI blades 150 mm wide complete with chrome plated spindles ene to end 12mm dia Jack Shaft, self lubricating brass bush, 120 minute fire rating, as per UL-555.						
a	Fire damper	4	SQ MT				
Rates in words for Supply:							
Rates in words for Erection:							
b	Limit switch and control panel	12	Nos				
Rates in words for Supply:							
Rates in words for Erection:							

13	VAV (With Integral Sound attenuator)Supply of Pressure independent Rectangular VAV						
13.1	Elliptical volume control damper,Calibrated differential pressure sensor at inlet complete with controller and Thermostat. (All VAV will be Factory Calibrated)sizes:Ø125 to 400MM						
a	1500 - 3100 CFM	2	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	800 - 1600 CFM	1	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
c	600 - 1100 CFM 16"	15	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
d	0 - 700 CFM 12"	4	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
e	0 - 400 CFM 10"	9	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
f	0 - 300 CFM 8"	5	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
14	Supply,installation,testing and commissioning of plenum boxes with insulation of the following sizes as mentioned below						
a	1210 x 135 x 325	14	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	1510 x 135 x 325	13	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
c	1660 x 135 x 325	4	Nos				
Rates in words for Supply:							
Rates in words for Erection:							

15	Supply,installation,testing and commissioning of insulated flexible duct						
a	250 mm	25	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
b	200 mm	10	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
c	150 mm	10	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
16	Supply,installation,testing and commissioning of Z pieces of the following sizes as mentioned below. (L x W x H)						
a	500 mm x 350 mm x 250 mm	8	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
b	600 mm x 450 mm x 250 mm	14	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
c	750 mm x 600 mm x 250 mm	2	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
d	2200 mm x 1000 mm x 250 mm	4	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
17	Supply,installation,testing and commissioning of 3 slot diffuser	14.5	Sq mt				
Rates in words for Supply:							
Rates in words for Erection:							

18	Electrical Works						
18.1	Cabling						
	Supply,Insulation Testing and Commissioning of XLPE insulated, Armoured Copper conductor						
a	3coreX2.5 sq mm	800	Rmt				
Rates in words for Supply:							
Rates in words for Erection:							
PART : C	Toilet Exhaust						
1	Supply,installation,testing and commissioning of rectangular inline fans for toilet exhaust application.						
a	500 CFM	2	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
2	Exhaust Air G.I ducting (120 GSM) with all accessories like Bends, Tees,Reducer,expander,Turning vanes etc. with RTV sealant. Rate shall include all supports, anchor, GI Strut Channel, Threaded Rods , flexible joints, fasteners etc. To make system fully functional. (All the Angles, Channels for support shall be duly painted with anti corrosive paint.) - Rectangular Duct						
a	24G	100	SQMT				
Rates in words for Supply:							
Rates in words for Erection:							
3	Supply,installation,testing and commissioning of toilet exhaust air grille of the size mentioned below.						
a	150 x 150	38	Nos				
Rates in words for Supply:							
Rates in words for Erection:							
**	LOW SIDE TOTAL BASIC						
Amount in words for Supply:							
AMOUNT in words for Erection:							
**							
**							
TOTAL PROJECT COST (HIGH SIDE + LOW SIDE)							
Amount in words for total project cost:							