

PRICE BID (BOQ)					
PROPOSED AIR CONDITIONING WORK FOR STATE BANK OF INDIA, WEALTH DEPARTMENT, 1ST FLOOR, MADHULI, WORLI, MUMBAI.					
S. NO.	DESCRIPTION OF WORKS	QTY	UNIT	UNIT RATE	AMOUNT IN INR
A	HIGH SIDE WORKS: -				
1.0	Supply of Variable Refrigerant Flow (VRF) AC System				
	Supply, of inverter /Digital scroll compressor with Variable refrigerant system (VRF) connectable to multiple indoor units. Outdoor unit is factory assembled weather proof casing constructed from heavy gauge mild steel panels. The unit is completely factory wired and tested with necessary controls and charged with refrigerant. The compressor is highly efficient Scroll / Rotary type. The aluminum fins shall be covered with anti-corrosion resin. Unit is equipped with oil recovery system to ensure stable operation with long refrigerant piping. Units are tested and commissioned with additional refrigerant. The unit shall be compatible for BMS operation (optional) Necessary relay card /soft integrator to be provided, Including rubber pads for outdoor units etc. BEE 5 star				
1	Supply of OUTDOOR UNITS - VRF System				
a	34HP	0	Nos.	7,50,000.00	-
b	24HP	4	Nos.	5,00,000.00	20,00,000.00
c	22HP	2	Nos.	4,00,000.00	8,00,000.00
2	Supply of cassette units				
a	4.0 TR four way	19	Nos.	48,000.00	9,12,000.00
b	3.0 TR four way	8	Nos.	45,000.00	3,60,000.00
c	2.5 TR one way	0	Nos.	55,000.00	-
d	2.0 TR four way	2	Nos.	40,000.00	80,000.00
e	2.0 TR one way	2	Nos.	45,000.00	90,000.00
f	1.5 TR one way	9	Nos.	40,000.00	3,60,000.00
g	1.5 TR compact 2x2	2	Nos.	30,000.00	60,000.00
h	1.0 TR compact 2x2	2	Nos.	25,000.00	50,000.00
i	HIGH Wall 2.5TR	0	Nos.	30,000.00	-
j	HIGH Wall 2.0TR	0	Nos.	27,000.00	-
k	HIGH Wall 1.5TR	4	Nos.	25,000.00	1,00,000.00
l	HIGH Wall 1.0TR	0	Nos.	17,000.00	-
m	HIGH Wall 0.8TR	0	Nos.	14,000.00	-
2.0	Supply of "Y" joint Refnets as required for VRF System	48	Nos.	4,500.00	2,16,000.00
3.0	SUPPLY OF 1.0 TR DX - type HIGH WALL UNITS with Scroll / Rotary compressors with inverter based type R32, Refrigerant. BEE 5 star	0	Nos.	24,500.00	-
4.0	Supply of programmable central control unit remote control with soft integration communication with BMS for VRF UNITS.	1	Nos.	1,50,000.00	1,50,000.00
5.0	Supply of Heavy duty fan filter unit for fresh air 2000CFM 25 mm ESP	2	Nos.	15,000.00	30,000.00
6.0	Supply of air valve to fit in cassette unit for fresh air				
a	150 CFM	16	Nos.	5,000.00	80,000.00
b	100 CFM	17	Nos.	5,000.00	85,000.00
c	50 CFM	13	Nos.	3,000.00	39,000.00
TOTAL OF HIGH SIDE WORKS (A):				Rs.	54,12,000.00

B	LOW SIDE WORKS: -				
1.0	Installation, Testing, and Commissioning of Variable Refrigerant Flow (VRF) AC System BEE 5 star				
	OUTDOOR UNITS - VRF System				
a	34 HP	0	Nos.	45,000.00	-
b	24 HP	4	Nos.	35,000.00	1,40,000.00
c	22 HP	2	Nos.	30,000.00	60,000.00
2.0	Installation, Testing, and Commissioning of Cassette units				
a	4.0 TR four way	19	Nos.	2,500.00	47,500.00
b	3.0 TR four way	8	Nos.	2,500.00	20,000.00
c	2.5 TR one way	0	Nos.	2,500.00	-
d	2.0 TR four way	2	Nos.	2,500.00	5,000.00
e	2.0 TR one way	2	Nos.	2,500.00	5,000.00
f	1.5 TR one way	9	Nos.	2,500.00	22,500.00
g	1.5 TR compact 2x2	2	Nos.	2,500.00	5,000.00
h	1.0 TR compact 2x2	2	Nos.	2,500.00	5,000.00
i	HIGH Wall 2.5TR	0	Nos.	2,500.00	-
j	HIGH Wall 2.0TR	0	Nos.	2,500.00	-
k	HIGH Wall 1.5TR	4	Nos.	2,500.00	10,000.00
l	HIGH Wall 1.0TR	0	Nos.	2,500.00	-
m	HIGH Wall 0.8TR	0	Nos.	2,500.00	-
3.0	Installation, Testing, and Commissioning of 1.0 TR DX - type HIGH WALL UNITS with Scroll / Rotary compressors with inverter based type R32, R410, R22 Refrigerant. BEE 5star	0	Nos.	2,000.00	-
4.0	Refrigerant Piping				
a	Supply installation testing & commissioning of Refrigerant piping for Suction Line & Liquid Line with 19 mm & 13 mm nitrile rubber insulation (both line to geth are considered as one length) complete with GI support from ceiling, wall,floor	1000	Mtr	1,500.00	15,00,000.00
b	Supply installation testing & commissioning of Refrigerant piping for Suction Line & Liquid Line 09mm & 09mm For DX Units.	0	Mtr	750.00	-
5.0	Communication Cable				
a	Supply installation testing & commissioning of Control Cabling - From All Indoor Units - to the Outdoor Units. (1.5 sqmm 2core shielded cable.)	1500	Mtr	150.00	2,25,000.00
b	Supply installation testing & commissioning of Communication Cabling for High wall Unit - From All Indoor Units to the Outdoor Units - 4 core cable	0	Mtr	135.00	-
6.0	Supply installation testing & commissioning of Pvc drain pipe complete withall fittings and accessories with 6mm nitrile rubber sleeve for VRF based Cassette Units				
a	20mm	150	Mtr	130.00	19,500.00
b	25mm	100	Mtr	150.00	15,000.00
c	32mm	100	Mtr	175.00	17,500.00
7.0	Installation testing & commissioning of "Y" joint Refnets as required for VRF system (Refrigerant)	48	Nos.	500.00	24,000.00

8.0	MS FRAME WORK				
a	M. S. Framework for installing Outdoor Units inclusive of vibration isolators	6	Nos.	12,500.00	75,000.00
b	M. S. Framework L /Table Type with railing for installing Outdoor Units with vibration isolation pads required for 1.0 TR Hi-Wall Split Units	0	Nos.	2,500.00	-
9.0	Additional Refrigerant Gas R-410	70	Kg	1,200.00	84,000.00
10.0	Supply, Installation, Testing & Commissioning of Dual AC ON / OFF TIMER including all accessories etc. complete.	0	Nos.	3,500.00	-
11.0	Supply, Installation, Testing & Commissioning of programmable central control unit remote control with soft integration communication with BMS for VRF UNITS.	1	Nos.	30,000.00	30,000.00
12.0	Preparation of shop drawings and "AS BUILT" and getting it approved from architect consultant and client.	1	Job	25,000.00	25,000.00
13.0	Installation testing commissioning of Heavy duty axial fan for fresh air 5000CFM 25 mm ESP	1	Nos.	1,000.00	1,000.00
14.0	Installation testing and commissioning of air valve to fit in cassette unit				
a	150 CFM	16	Nos.	100.00	1,600.00
b	100 CFM	17	Nos.	100.00	1,700.00
c	50 CFM	13	Nos.	100.00	1,300.00
15.0	SITC of 4" pvc pipe for fresh suspended from ceiling including all fittings & accessories	400	Mtr	500.00	2,00,000.00
16.0	AMC: 1year DLP + 2 years	1	Lot	8,00,000.00	8,00,000.00
17.0	GSS Ducting				
	Supply, installation & testing of entire duct work as per SMACNA standards. Rolamate or equiv (4 Bolt - Slip on Flanges with in-built sealant & Pittsburgh seam lock). Ducting cost to include all elbows, turning vanes, VCDs, GI fully threaded rods / Gripplie support system, GI supports, vibration isolators, sealants, neoprene gaskets, etc. Also, cost for pressure testing of main ducts.				
	Duct pressure - SMACNA 2 INCH (500 PASCAL)				
	Upto 450 mm 26 G - C & S/SS Cleats				
	451 - 750 -- 26 G - F	25	smt	700.00	17,500.00
	751 - 1000 -- 24 G - F	15	smt	750.00	11,250.00
	1001 - 1200 -- 22 G - F	15	smt	850.00	12,750.00
TOTAL OF LOW SIDE WORKS (B):				Rs.	33,82,100.00
TOTAL COST OF AIR CONDITIONING WORKS (C=A+B)				Rs.	87,94,100.00
PERCENTAGE ABOVE OR BELOW THE ESTIMATED COST - (D)		%			
TOTAL QUOTED PRICE BY THE BIDDER (C +/- D)					

NOTE:- Cost inclusive of all taxes except GST.

I CONFIRM the above conditions along with estimate quoted by me.

CONTRACTOR FULL NAME & DETAIL ADDRESS
SIGNATURE OF CONTRACTOR WITH RUBBER STAMP