

Bill of Quantities for Air Conditioning Works at at SBI RBO at Greater Noida					
S. No.	Description	Unit	Qty.	Rate	Amount
	AIR CONDITIONERS				
1	Supplying, Installation, Testing & Commissioning of Outdoor VRV/VRF units in modular design complete with 100% inverter type scroll compressor suitable for cooling & Heating complete with air cooled condenser with low noise fan having inter-connected control wiring, refrigerant piping with standard accessories, duly charged with R410A refrigerant with suitable size MS channel stand, duly painted complete as required.VRV/VRF System shall be suitable for workin on 5°c ambient temperature with refrigerant R-410A with MS channel outdoor stand of suitable size to carry the weight of outdoor unit inclusive of full charge of Refrigerant Gas & oil etc.complete as required .The Cop of System mentioned below shall be not less than 4.7 at 50 % load,at 40° CDB ambient temp , at 7°CDB,19°CWB inside temp.(Toshiba/ Mitsubishi HEAVY/ Hitachi/O-Genera/Blue Star/Voltas/Daikinl) With phase sequence and Item to include powder coated outdoor stands as per the manufacturer specifications.				
a	Odu 16 Hp Cooling only (OR AS PER OEM)	Nos.	2.00		0.00
b	Odu 14 Hp Cooling only (OR AS PER OEM)	Nos.	1.00		0.00
2	Supply, installation, testing and commissioning of ceiling mounted cassette type unit/ Hi - Wall of nominal capacity suitable for heating and cooling mode on R 410A refrigerant with electronic expansion valve, multi speed motor, insulated drain pump & pan, cordless remote with decorative panel of suitable size complete as per specifications etc. as required.				
a	4 way Cassette Type - 3.6 TR	Each	6.00		0.00
b	4 way Cassette Type - 2.6 TR	Each	4.00		0.00
c	HIGH WALL - 1.6 TR	Each	2.00		0.00
3	SITC of Refnet Y- Joints suitable for above indoor units complete with all accessories etc. as required.	Each	13.00		0.00
	EXTRA REFRIGERANT PIPING				

4	Supply, installation, testing & commissioning the interconnecting piping of following sizes (outer diameter) of refrigerant copper pipe insulated with 19/13 mm thick closed cell electrometric nitrile rubber tubular insulation between each set of indoor & outdoor units as per specification laid on MS cable tray and piping inside the room shall be properly fixed/supported with MS Cable tray/ suitable size of M.S. hanger & clamp as per specification etc. as reqd.				
a	6.4 mm dia with 13mm thick nitrile rubber insulation	MTR	160.00		0.00
b	9.5 mm dia with 13mm thick nitrile rubber insulation	MTR	140.00		0.00
c	12.7 mm dia with 13mm thick nitrile rubber insulation	MTR	50.00		0.00
d	15.9 mm dia with 19mm thick nitrile rubber insulation	MTR	65.00		0.00
e	19.1 mm dia with 19mm thick nitrile rubber insulation	MTR	40.00		0.00
f	22.2 mm dia with 19mm thick nitrile rubber insulation	MTR	40.00		0.00
g	28.6 mm dia with 19mm thick nitrile rubber insulation	MTR	50.00		0.00
h	34.9 mm dia with 19mm thick nitrile rubber insulation	MTR	20.00		0.00
i	41.3 mm dia with 19mm thick nitrile rubber insulation	MTR	20.00		0.00
5	Providing & fixing rigid PVC piping of following sizes complete with fittings, supports etc. duly insulated with 6mm thickness of closed cell nitrile rubber complete as required and as per specifications .				
b	32 mm dia	Metre	100.00		0.00
c	40 mm dia	Metre	80.00		0.00
6	Providing control cum transmission wiring with 2 core x 1.5 sqmm PVC insulated PVC sheathed copper conductor cable in existing conduit / surface for indoor & outdoor units complete etc. as required	Metre	450.00		0.00
7	Supplying and laying of Extra Electrical interconnecting Power cable from indoor to power Point above the ceiling.	Mtr.	350.00		0.00
	TOTAL FOR AIR CONDITIONING WORKS				0.00
Note:- The rates quoted includes all other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra					