

BILL OF QUANTITY						
Supply, Installation, Testing and Commissioning of HVAC System						
Sr. No.	Description of Items	Unit	Quantity	Rate In INR	Rate In Words	Amount In INR
1	Ductable type split Unit					
	Supply ,Installation, Testing and commissioning of Ductable split air conditioning system for indoor and out door units including the transport and lifting and complete structural frame work plat forms as per site conditions.Indoor units with compact cooling coil, electronic expansion valve and multispeed fan motor, The blower shall be dynamically balanced and designed for silent operation, the filters shall be Plasma and synthetic washable media type arranged for convenient cleaning and replacement, built in drain pump, the drain pan shall be fabricated out of heavy sheet steel insulated with 6mm' expanded polythylene sheet.The Unit should also include the cost of cabling 5 RMT and the socket to be attached to the nearest power point.The cost should also include the cost of flexible connections for the ductable units.					
a	8.20 TR(Min) -ceiling suspended Ductable type split Unit	Nos.	12			
b	5.50 TR(Min) -ceiling suspended Ductable type split Unit	Nos.	20			
c	4.20 TR(Min) -ceiling suspended Ductable type split Unit	Nos.	27			#REF!
2	Hi-wall mounted type split Unit					
	Supplying ,installation ,Testing & Commissioning of approved make split type Air Conditioner unit and fixing cooling unit on wall at desired location and condensing unit on out side wall/ ceiling/ floor at desired location having standard length of/ upto 4 metre of copper piping with insulation and drainage pipe upto 5.0 metre length, necessary wiring including providing and fixing necessary good quality powder coated MS frame etc complete as Per direction Engineer in charge. Note- a-The position of indoor and outer split A/C unit will be decided by Engineer in Charge. b-All necessary accessories (cable ,pin tap etc)for electrical connection will be supplied and installed by supplier. c-The electrical connection from supply point to A/C unit shall be provided by supplier. d-Drainage outlet pipe shall be installed including drilling of wall of required diamter.The hole should slope downward toward the exterior to ensure adequate drainage. e- The drainage pipe allows water to drain in an appropriate place. f-All necessary civil work (hole etc) will done by supplier,including the fixture good as approved by Engineer in charge. g-The indoor and outdoor unit shall be fixing in place with the standred power coated MS frame and support /brackets etc including all fixtures as required as per site .					
a	2.0 Tons Hi-wall mounted type split Unit (3 Star).	Nos	25			
b	1.5 Tons Hi-wall mounted type split Unit (3 Star).	Nos	14			
c	1.0 Tons Hi-wall mounted type split Unit (3 Star).	Nos	14			
3	Supply, installation and testing of opposed blades fresh air of inlet louvers, bird screen, volume control damper in accordance with approved shop drawings and specifications.	Sq.mt	4			
4	Copper piping with insulations and fittings from indoor units to outdoor units.	Rmt	1410			
5	G.I ducting with necessary supports - Supply Air 24 G	Sq.mt	1350			
6	Acoustic insulation of ducts with 25 MM fibre glass wool rigid board covered with RP tissue paper.	Sqmt	225			
7	Providing and fixing nitrile rubber 25 mm Thermal insulation on ducts complete as per specifications and drawings.	sqmt	1125			
8	Extruded Aluminium powder coated Diffusors with aluminium Dampers - Supply.	Sqmt	35			
9	Extruded Aluminium powder coated Diffusors without Dampers .	Sqmt	35			
10	Canvass Connection. Double layer,Fire resistant	Nos	59			
11	Supply of PVC Drain Piping with Insulation.	Rmt	400			
12	MS Stand for out door units.	Nos	112			
13	Gas Charging in the 8.2TR Outdoor unit	Nos	12			
14	Under-deck Insulation with 50mm thermocol of TF quality	sqmt	4300			
TOTAL AMOUNT OF WORK (Rs,)						
Note:- Rate shall be inclusive of following						
1. Bidder has to Integrate the system with exiting ducting,electrical connection and drainage arrangements etc						
2. One year Operation and maintenance of system will be the part of contract						
3. Bidder has to do necessary opening, dismantling and refixing in existing ceiling and other necessary arrangement to make system opratable.						