

BOQ OF AIR -CONDITIONING WORK FOR SBILD, NOIDA.

S. NO.	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
A	SPLIT/ CASSETTE TYPE AIR CONDITIONERS				
1	Supplying, erection, testing and commissioning following wall mounted Split/ Root mounted cassette units of (Toshiba/ O-General/ Mitsubishi/Daikin/Carrier/Bluestar/Voltas) with cordless remote complete with all necessary fittings duly insulated with 9 mm thick nitrile rubber pipe insulation with (All coils – copper only) , fan and fan motor, machine control panel improved Refrigerant Joints, .Air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor or scroll compressor. Compressor unit operating on R32/ R-410. All complete as per drawing, approval and instructions of the Architect/ Employer. Item to include powder coated outdoor stands as per the manufacturer specifications.(Rates to be inclusive of Copper refrigerant pipe with insulation up to 3 Mtr length only for Each split AC Unit) Note: All Outdoor Should be design at least 45 degree as per ambient temperature.				
a	1.5 TR split AC 5 star rating inverter type including all necessary fittings and mountings as specified by the manufacturer	No's	22.00		
b	2.0 TR split AC 5 star rating inverter type including all necessary fittings and mountings as specified by the manufacturer	No's	2.00		
2	*Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/ Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating 14 HP(outdoor only) having all hermetically sealed inverter type Scroll Compressor(s), microprocessor based Controller, with R-410 A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall be suitable to work on 400 V+/-10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use complete as required as per manufacturer specification, cordless remote control including batteries, drain pan, necessary accessories etc., suitable for operation on 230 V ± 10%, 50Hz, single phase AC supply, complete as required including all mounting accessories. (Make of the indoor unit shall be same as outdoor unit).(Acceptable make: Toshiba/ Mitsubhishi/ Hitachi/ Daikin/ O-General/ Voltas/ Bluestar / Carrier) (All complete as per manufacturer specification).	No's	2.00		
3	EXTRA REFRIGERANT PIPING				
	Supplying and laying of Extra copper refrigerant piping with nitrile rubber pipe insulation, both of size as specified by the manufacturer suitable for 1.0/1.5/ 2.0 TR Split type AC and 2.0 TR/ 3.0 TR/4.0 TR Cassette AC - From Indoor to outdoor Units				
a	For 1/1.5 TR/ 2.0 TR as specified by the manufacturer	MTR.	50.00		
4	EXTRA DRAIN PIPING				

	Providing and fixing drain piping up to drain as directed by the engineer incharge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, floor and making good of all chases/ cuts etc. and discharging the drain into a floor trap/ gully as per site conditions with insulation, both as specified by the manufacturer.				
a	25 mm dia PVC drain pipe for Split AC	MTR.	50.00		
5	Providing and fixing Stabilizer with 3 step relay and input voiltage range of 140-280 V and output to be 230 V (Blue bird/ logic state/ Inline/ V-gourd) (copper winding)				
a	4 KVA (For 1.0/ 1.5 tr Split Ac)	No's	20		
b	5 KVA (For 2.0 tr Split Ac)	No's	2		
6	Providing and fixing of lockable caging for outdoor unit grouted on wall or on roof with open able shutter made of 10 X 10 mm MS square bars placed vertically @ 6" c/c welded with 40 X 3 mm MS flat all- round. Item includes all necessary hardware, priming coat, synthetic enamel paint, hanger, clamps other accessories etc. All complete as per approval and instructions of the Architect/ employer.				
a	For 1.0/ 1.5/ 2.0 TR Hi Wall split units	Nos.	2.00		
	For VRV 14 HP	Nos.	2.00		
7	Modification of existing ducts at required locations including fabrication, supply & installation of new duct pieces of 24 SWG GI sheet, as required. Rate to include for taking away residue duct pieces after modification of ducts and accessories related to the ducts.	Sqm	1.00		
8	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 1.0/1.5/ 2.0 TR Split type AC.	Mtr.	60.00		
9	Supply & installation of external thermal insulation on ducts with approved sample of Aluminium foil faced XLPE duct insulation with density 25-30 Kg/Cum, class 'O' complete as per specifications. All longitudinal and transverse joints shall be sealed with XLPE tape. The cost shall be inclusive of Low VOC adhesive.				
	13 mm thick insulation for air duct in AC area.	sqm	2.00		
10	S/F of flexible connection with canvass of suitable length complete with bolts and nuts complete as required whwerever required	Sqm	2.00		
11	BUY-BACK				
a	1.5/2.0 tr split ac wall mounted completa in all espects (reserve price :- 3000 rs. Per unit)	No's	2.00		
b	14 HP existing VRV Unit unit with complete compressor unit (reserve price :- 20000 per unit)	No's	2.00		
SUMMARY					
					Total for deciding L1

Note:- The rates quoted includes all other taxes, duties, loading, unloading, transportation, other expenses etc to site. Only GST will be paid Extra Note: Note:*(The above SITC of VRV units INCLUDES- REMOVING OF OLD UNITS, LIFTING, SHIFTING, INSTALLATION, TESTING, COMMISSIONING (complete in all respects) ETC AND USING THE SAME IN THE EXISTING PIPING ARRANGEMENTS, ALTERATION / MODIFICATION IN COPPER PIPING / DRAIN PIPING, ADDITIONAL COPPER PIPING (if required) / DRAIN PIPING IF REQUIRED, VALVES /Y JOINTS IF REQUIRED,POWER CABLES,INTERCONNECTING CABLES, REMOTES,STANDS, MINOR CIVIL WORKS, GAS CHARGING (Complete as per manufacturer specification), TESTING OF PIPES AND MAKING IN USE (complete in all respects), ANTI CORROSION COATING AND ALL OTHER WORKS AS DESIRED TO COMPLETE THE JOB UPTO SATISFACTION OF THE BANK. GST EXTRA AS APPLICABLE.

**** ALL VENDORS MUST VISIT THE SITE AND GET ACQUAINTED ALL THE INFORMATION DESIRED BEFORE QUOTING.**