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**BOQ FOR AIR CONDITIONING WORKS AT CANARA BANK SHAMSABAD**

S. No.	Description	UOM	Qty.	Rate (Excl. GST) (Rs.)	Amount (Excl. GST) (Rs.)
	<b>AIR CONDITIONERS</b>				
1	Supplying, erection, testing and commissioning following wall mounted Split / Root mounted cassette units of (Hitachi / O-General / Carrier / Voltas / Bluestar) 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 (Rates for Split ACs to be inclusive of Copper refrigerant pipe with insulation and Drain pipe up to 3 Mtr length). <i>Item to include powder coated outdoor stands as per the manufacturer specifications.</i>				
a	1.0 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer	Nos.	3.00		
b	2.0 TR Ceiling suspended Cassette unit (Minimum 2-Star rating inverter type) with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer.	Nos.	1.00		
c	1.5 TR Ceiling suspended Cassette unit (Minimum 2-Star rating inverter type) with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer.	Nos.	3.00		
2	<b>EXTRA REFRIGERANT PIPING</b>				
	Supplying and laying of Extra copper refrigerant piping with nitrile rubber pipe insulation, both of size as specified by the manufacturer suitable for 1.5 TR TR Split type AC and 2.0 TR TR Cassette AC (From Indoor to outdoor Units).				
a	For 1.0 TR / 2.0 TR Split AC as specified by the manufacturer	Mtr.	35.00		
b	For 1.5 TR / 2.0 TR Cassette AC as specified by the manufacturer	Mtr.	80.00		
3	<b>DRAIN PIPING</b>				
	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.	35.00		
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	80.00		
4	Providing and fixing Stabilizer with 3 step relay and input voltage range of 140-270 V and output to be 230 V (Blue bird/ Logic state/ Inline/ V-gourd) (copper winding).				
a	4 KVA (For 1.0 TR / 1.5 TR AC)	Nos.	6.00		
a	5 KVA (For 2.0 TR AC)	Nos.	1.00		
5	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.	35.00		
6	Supplying and laying of Extra Electrical interconnecting control cables from indoor to outdoor of size as specified by the manufacturer suitable for 1.5/2.0 TR Cassette type AC.	Mtr.	80.00		
7	Providing and fixing of lockable caging (including stand) for outdoor unit grouted on wall or on roof with open able shutter made of 10 X 10 mm MS square bars placed vertically @ 5" 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 1.0/2.0 TR Hi Wall split units	Nos.	3.00		
b	For 1.5 / 2.0 TR TR ceiling mounted cassette unit	Nos.	4.00		
8	Supply, installation, testing and commissioning of Drain pumps minimum 2 litre hi flow tank with all fixing materials etc. all complete as per the directions of Architect/ Engineer-in-charge.	Nos.	3.00		
9	Providing and fixing timer switch for switching power alternatively between two A/C, timer will be analogue dial type adjustable TIMER switch which is adjustable over 24hrs. With 15 minutes intervals and is to have 1NO+1NC (20A) contact. Timer will have its own backup battery and will be enclosed in 16gauge MS Box with acrylic lid together with suitable connector block. (ABB/MDS/L&T)	Nos.	1.00		
<b>GRAND TOTAL (Excl. GST) (Rs.)</b>					
<b>Note:- The rates quoted includes all discounts, other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra.</b>					