

<b>BOQ FOR AC WORKS : SBI MAHOBEWALA DEHRADUN BRANCH.</b>					
<b>S.NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY.</b>	<b>RATE</b>	<b>AMOUNT</b>
1	BRANCH AIR CONDITIONING WORK				
1.1	Supplying, erection, testing and commissioning following wall mounted Split / Roof mounted cassette units of <b>(Toshiba / Mitsubhishi / Hitachi /Daikin/Carrier/O-general)</b> with cordless remote. Units should be complete in all respect with all necessary fittings. Outdoor & Indoor should be of compact size and shall be equipped with BLDC fan motor. Condensing unit consists of Copper tubes only and condensor fin should have anti corrosive coating in addition to hydrophilic coating. Indoor unit should have low noise level at low fan speed (25-40 dB) . Operating outdoor temperature range when heating should be -20 degree C to 15 degree C and when cooling should be -15 degee C to 46 degree C Air conditioners shall be fitted with hermetic Rotary/scroll DC Inverter compressor. Compressor unit operating on R-32/R-410 refrigerant. All complete as per drawing, approval and instructions of the Architect / Employer. Unit shall be compatible with pipes up to 50 meters long with a maximum height				
	<b>Warranty : Comprehensive product warranty 3 years and Compressor warranty 5 years. Vendor shall ensure at lesat two servicing of AC within Defect Liabilty Period (DLP) of one year without any extra cost)</b>				
a)	4.0 TR Ceiling suspended inverter Cassette type split unit with 4 way air flow including installation.(All Weather, Single Phase)	Each	2.00		
b)	3.0 TR Ceiling suspended inverter Cassette type split unit with 4 way air flow including installation.(All Weather, Single Phase)	Each	0.00		
c)	1.5 TR Ceiling suspended inveretr Cassette type split unit with 4 way air flow including installation.(All Weather, Single phase)	Each	0.00		
d)	2.0 TR wall mounted split unit (Minimum 5-Star rating inverter type)	Each	2.00		
e)	1.5 TR wall mounted split unit (Minimum 5-Star rating inverter type)	Each	1.00		
f)	1.0 TR wall mounted split unit (Minimum 5-Star rating inverter type)	Each	2.00		
2	<b>EXTRA REFRIGERANT PIPING</b>				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Supplying and laying of Extra copper refrigerant piping with 9mm thick nitrile rubber pipe insulation, both of size as specified by the manufacturer suitable for 1.0 TR/ 2.0 TR Split type AC and 2.0 TR/ 4.0 TR Cassette AC with all necessary fittings(From Indoor to outdoor Units). (MAKE: Mexflow/Mandev/Totline or Equivalent as approved by Bank)				
a	1/4" (Thickness >= 0.80mm, weight should be more than equal to 0.13 Kgs/mtr)	Mtr.	50.00		
b	1/2" (Thickness>= 0.80mm, weight should be more than equal to 0.27 Kgs/mtr)	Mtr.	40.00		
c	3/8"(Thickness>= 0.80 mm, weight should be more than equal to 0.20 Kgs/mtr)	Mtr.	35.00		
d	5/8" (Thickness>= 1.0 mm, weight should be more than equal to 0.42 Kgs/mtr)	Mtr.	50.00		
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.(Make: Surya/Supreme/Kasta or equivalent as approved by Bank)				
a	25 mm dia PVC drain pipe for Split AC	Mtr.	22.00		
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	65.00		
4	<b>STABLIZER</b>				
	Providing and fixng Stabilizer with 3 step relay and input voltage range of 140-280 V and output to be 230 V (Make : Blue bird/ Logic state/ Inline/ V-gourd/Microtek or equivalent as approved by Bank) .				
a	4 KVA	Nos.	3.00		
b	5 KVA	Nos.	2.00		
5	<b>CAGES</b>				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	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 @ 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/ 1.5/ 2.0 TR Hi Wall split/cassette units	Nos.	5.00		
b	For 4T ceiling mounted cassette unit	Nos.	2.00		
6	<b>CABLES</b>				
	Supplying and laying of Extra Electrical interconnecting control cable (FRLS) from indoor to outdoor of size as specified by the manufacturer (Make: POLYCAB/RR/PHINOLEX/HAVELLS)				
a	3*2.5 SQ MM	Mtr.	60.00		
b	4*2.5 SQ MM	Mtr.	45.00		
7	Supplying and fixing of following size of Perforated pre painted ms Cable Trays with perforation not more than 17.5% in convenient section, joined with connector, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. Rates shall be included tee, band reducers etc				
a.	150x150 x50 2mm thick Cable tray	RM	25		
b.	200x200 x50 2mm thick Cable tray	RM			
8	Supplying, installation and commissioning of automatic 24 HRS. programmable TIMER of required capacity to run A.C. alternately (MDS/ L&T/ Other reputed make).	Nos.	1.00		
9	Supply and fixing of suitable M.S. stand for all outdoor Machines with all accessories	Nos.	7.00		
	<b>TOTAL AIR CONDITIONING WORK</b>	<b>:</b>			

GST Extra as applicable