

BOQ OF HVAC WORKS FOR SBI SME BRANCH AT DEHRADUN, UTTARAKHAND.

S.No	DESCRIPTION	Unit	Qty	Rate	Amount
1	Accessories				
	Supplying, fabrication, installation, testing, commissioning of G.I. sheet metal ducting including canvas connection as required as per tender specifications with complete suitable suspension arrangement with 12mm dia M.S. Rod, angle of required size etc. to be fastened in to the ceiling with fastener by grouting on wall with all required materials. The cost should include all missionary works such as opening of holes as per requirement, finish then properly i/c painting to bring the shape in original form.				
1.1	24SWG Ducting	Sqm	90		
	SUPPLY/ RETURN AIR DIFFUSERS				
	Supply, installation, testing and balancing of square, rectangular and round extruded aluminium powder coated Supply/ Return Air diffusers. Diffuser shall be with spring loaded removable core type distribution grid, key operated aluminium black matt finish dampers. Diffusers shall be supplied in accordance with specifications and approved shop drawings. (Allatech/zeco/Ductofeb/Dam air) or equivalent as PER THE SPECIFICATIONS ABOVE: Make be approved by Architect/Bank before installation.	Sqm	5		
	Samples of grilles / diffusers will have to be submitted to the SBI/Architect/Consultant for approval on size / shape / shade / colour before ordering.				
4	Supply and fixing of external and internal insulation with protective coating on ducts 6mm thick after removal. Of Existing insulation.	Sqm	90		
3	SPLIT/ CASSETTE TYPE AIR CONDITIONERS				
	Supplying, erection, testing and commissioning following wall mounted Split/ Root mounted cassette units of (Toshiba/ Mitsubishi/ Hitachi/ O-General) with cordless remote complete with all necessary fittings duly insulated with 9 mm thick O Class nitrile rubber insulation with Pipe (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) WITH DRAINAGE PUMP AS REQUIRED AS PER SITE				
a	1.5 TR split AC 5 star rating inverter type including all necessary fittings and mountings as specified by the manufacturer (For Reception Area)	Nos.	1		
a	1.0 TR split AC 5 star rating inverter type including all necessary fittings and mountings as specified by the manufacturer (For ATM)	Nos.	2		
ii	EXTRA REFRIGERANT PIPING				
	Supplying and laying of Extra copper refrigerant piping with O class nitrile rubber insulation with pipe, both of size as specified by the manufacturer suitable for 1.0/1.5/ 2.0 TR Split type AC - From Indoor to outdoor Units (make as approved by Architect/ Bank)				
a	For 1.5 TR/ 1.0 TR Split AC as specified by the manufacturer	Mtr.	40		
iii	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 (make as approved by Architect/ Bank).				
a	25 mm dia PVC drain pipe for Split AC	Mtr.	40		
iv	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.	3		
v	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 TR Split type AC with 2mm Thik FRLS Conduit and all other accessories etc. All complete as per approval and instructions of the Architect/ employer. (make as approved by Architect/ Bank).	Mtr.	45		

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