

BILL OF QUANTITIES FOR AIRCONDITIONING WORK, FOR SBI DAYALPUR					
Sl. No.	Description of Item	Qty.	Unit	RATE (RS)	Amount (Rs.)
	The price are to be quoted in the below mentioned from and shall include the supply,installation,testing and commissioning at site of all the equipments,ancillary materials as specified and all such items what so ever which may be required.				
	<p>NOTES:</p> <p>1) All cabling / piping to be installed neatly and with proper dressing,wherever exposed it needs to be placed in cable trays with cover & saddled properly.</p> <p>2) Price to be quoted must include all cost of lifting,shifting & installation etc.</p> <p>3) All types of wall cutting are to be finished with cement plaster with proper finish from top side.No unfinished wall or floor surface will be acceted.In case of non-complectiton of finishing adequate amount will deducted from the bill to get the work executed at site by other agency.</p> <p>4)All false ceiling cutting & trap door arrangement are to be done by interior contractor,but the HVAC contractor has to co-ordinate with the interior contactor at the time of construction of false ceiling.Any kinds of special request will not be entertained at later stage.In case false or any other parts of interior is getting damged due to non co-ordination between two ageency,adequate (as per actual)amount will be deducted for bill ro rectification.</p>				
1	Supply , Installation ,Testing , Commissioning and handing over Of the following equipments as per Specification , Schedules and Drawings .				
1.1	Supplying, installation, testing and commissioning of Cassette Type 4.0TR (Three Phase) 4 way air/Round air flow each comprising of an outdoor and a indoor unit suitable for cooling as shown on the drawings and as per the specifications. Enclosures shall be factory fabricated and painted to a smooth finish .Outdoor unit shall consist of hermatically sealed / semi- hermatic scroll/ rotary compressor/s, air cooled condenser with fan. Indoor unit shall consist of fan section with dynamically balanced centrifugal fan/s driven by FHP/TEFC squirrel cage induction motor, multirows deep DX-copper cooling coil with aluminium fins, thermostatic expansion valve, synthetic fibre filters, insulated drain pan, safety controls, safety controls,control wiring, thermostat all complete in a unit. The quoted price shall be inclusive of full charge of refrigerant gas, vibration isolation arrangement. MAKE:CARRIER/HITACHI/DAIKEN/	1	NOS		
1.2	Supplying, installation, testing and commissioning of INVERTER TECHNOLOGY High wall mounted Split A.C. of capacity 1.5TR including copper refregerant piping duly insulated ,drain pipes up to 5mtrs length and control wiring between indoor to outdoor as required. The indoor unit & outdoor unit should be copper only. minimum 3 Star rating MAKE: CARRIER/HITACHI/DAIKEN/O-GENERAL/VOLTAS/	1	NOS		
1.3	Supplying, installation, testing and commissioning of INVERTER TECHNOLOGY High wall mounted Split A.C. of capacity 2.0TR including copper refregerant piping duly insulated ,drain pipes up to 5mtrs length and control wiring between indoor to outdoor as required. The indoor unit & outdoor unit should be copper only.minimum 3 Star rating MAKE: CARRIER/HITACHI/DAIKEN/O-GENERAL/VOLTAS/	2	NOS		
1.4	Supplying, installation, testing and commissioning of INVERTER TECHNOLOGY High wall mounted Split A.C. of capacity 1.0TR including copper refregerant piping duly insulated ,drain pipes up to 5mtrs length and control wiring between indoor to outdoor as required. The indoor unit & outdoor unit should be copper only .minimum 3 Star rating MAKE: CARRIER/HITACHI/DAIKEN/O-GENERAL/VOLTAS/ (2SERVER+ 2 ATM+MANAGER ROOM))	5	NOS		

Sl. No.	Description of Item	Qty.	Unit	RATE (RS)	Amount (Rs.)
2	REFRIGERANT PIPING				
	Refrigerant piping upto 5 RM per circuit & first charge of Refrigerant and oil (TO BE INCLUDED in item no1.2 to 1.3)				
2.1	Refrigerant piping 4TR Cassette Type per circuit including control wiring and nitrile rubber pipe insulation, both of size as specified by the manufacturer (From Indoor to outdoor Units)	25	RM		
2.2	Refrigerant piping 1.0TR/1.5TR/2.0 TR Split type AC per circuit including control wiring and nitrile rubber pipe insulation, both of size as specified by the manufacturer (From Indoor to outdoor Units)	60	RM		
2.3	Supplying & fixing rigid pvc pipe 32/25mm outer dia tolerance of +0.3mm and class 4 (8kg/sqcm) pipe IS:4985:2000 approved make. On wall exposed or recess as case may be 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	70	RM		
3	Supply and installation of Wallmounted bracket / Floor placed base frame for Out Door unit of Split Acs/ Cassette Acs up 4TR capacity.	9	NOS		
	Specifications :				
	Material : Mild Steel (CRCS)				
	Gauge : 16 SWG				
	Finish : Powder Coating				
4	Voltage Stabiliser				
4.1	Providing , fixing , testing and commissioning of Voltage Stabiliser (copper winding) : 4KVA Input Voltage : 140-280V Out put Voltage: 230V (Make: INLINE POWER/LOGIC STATE/ BLUE-BIRD	6	Nos		
4.2	Providing , fixing , testing and commissioning of Voltage Stabiliser (copper winding) : 5KVA Input Voltage : 140-280V Out put Voltage: 230V (Make: INLINE POWER/LOGIC STATE/ BLUE-BIRD	2	Nos		
5	Supply,installation,testing commissioning of Timer switch for duty sharing & standby operation between two AC units.	2	NOS		
	Specification :				
	Least count : 4 Hr.				
	Protections : Under Voltage (UV),Over Voltage (OV) & Time delay.				
	Operation Mode : Auto & Manual				
	Indicators : Power, UV, OV, Comp.-1,Comp.-2,				
6	Providing and fixing of lockable caging for outdoor unit (1.0TR,1.5TR,2.0TR and4.0tr) grouted on wall or on roof with open able shutter made of 10 x 10mm MS square bars placed vertically @ 5" c/c welded with 40x 3mm MS flat all- round. Item includes all necessary hardware, priming coat, synthetic enamel paint,henger ,clamps other accessories etc. All complete as per approval and instructions of the Architect / employer.	9	NOS		
	TOTAL AIRCONDITIONING WORK C/O TO ABSTRACT		RS		
	Note:- The rates quoted includes all other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra				