

TENDER FOR AIR CONDITIONING WORKS  
IN RO OFFICE  
SBI LIFE, JAIPUR

No.	Particular	Qty	Units	Rates	Amount
<b>1</b>	<b>SPLIT TYPE AIR-CONDITIONER</b>				
	<b>SITC work of split type Ac system</b>				
<b>1.1</b>	<b>OUTDOOR UNIT</b>				
	Providing, fixing, Testing and Commissioning outdoor condenser units with Rotary/scroll compressor, with high COP , air cooled heat exchanger,condenser coil with low speed fan housed in compact heavy gauge sheet steel enclosure with protective painting MS stand, weather proof box for cassette unit odu, Refrigerant should be R410A. The work includes all necessary civil, minor carpentry works. The Brands to be HITACHI /Carrier/Daikin (4 star and above)complete as required				
<b>1.2</b>	<b>INDOOR UNIT</b>				
<b>a)</b>	Providing, fixing, Testing and Commissioning <b>Ductable Split type AC</b> including Outdoor and indoor Units consisting of copper tube aluminium finned high transfer cooling coil, refrigerant distributor and thermostatic expansion Valve,drain pan along with blower and filters all in heavy gauge sheet steel metal enclosure with protective painting, complete as required directed by architect / Bank.				
i)	11TR Ductable Unit	2	Nos.		
ii)	8.5TR Ductable Unit	2	Nos.		
<b>b)</b>	Providing, fixing, Testing and Commissioning <b>High Wall /cassette type split AC (Inverter type)</b> including Outdoor and indoor Unit , consisting of copper tube aluminium finned high transfer cooling coil, refrigerant distributor and thermostatic expansion Valve along with blower and filters,drain pan , complete as required directed by architect / Bank.				
i)	1.0 TR Hi wall Unit	6	Nos.		
ii)	1.5 TR Hi wall Unit	9	Nos.		
iii)	1.5 TR Cassette Unit	3	Nos.		
iv)	2.0 TR Cassette Unit	3	Nos.		
v)	4.0 TR Cassette Unit	1	Nos.		
<b>1.3</b>	<b>REFRIGERANT PIPE</b>				

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	SITC of Interconnecting copper refrigerant pipe with (13mm/ 9mm thick ) Nitrile rubber with Glass Cloth faced protection at expose side insulation between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with MS hanger & clamps. All external piping with UV Coating as per specification and drawing complete as required. The pipes are NOT to rest on FALSE ceiling They are to be either Hanged from ceiling or Fixed to the Wall including chasing walls and making them NEAT later complete as required				
i)	6.4mm dia (9mm thic insulation)	90	Rm.		
ii)	9.5mm dia (9mm thic insulation)	30	Rm.		
iii)	12.7mm dia (9mm thic insulation)	100	Rm.		
iv)	15.9mm dia (13mm thic insulation)	15	Rm.		
v)	19.1mm dia (13mm thic insulation)	15	Rm.		
vi)	22.2mm dia (13mm thic insulation)	10	Rm.		
1.4	Supply, Installation, Testing and Commissioning of PVC drain piping, 10 Kg pressure rating complete with fittings, supports as per specifications and insulated with 6 mm Nitrile rubber including with Chase cutting and repairing as per specifications and drawings etc complete as required.				
i)	25mm dia	90	Rm.		
ii)	32mm dia	30	Rm.		
1.5	Providing and fixing <b>Stabilisers</b> with suitable input voltage and output to be 230/415 V suitable for following unit complete as required.				
i)	1.0 TR Hi wall Unit 230 volt Stabiliser (3kva)	6	Nos.		
ii)	1.5 TR Hi wall Unit 230 volt Stabiliser (3kva)	9	Nos.		
iii)	1.5 TR Cassette Unit 230 volt Stabiliser (3kva)	3	Nos.		
iv)	2.0 TR Cassette Unit 230 volt Stabiliser (4kva)	3	Nos.		
v)	4.0 TR Cassette Unit 415 volt Stabiliser (6kva)	1	Nos.		
1.6	Providing and fixing timer switch for switching power alternatively between two ACs, Timer will be Analogue dial type adjustable TIMER switch which is adjustable over 24 hrs with 15 minutes intervals and is to have 1 NO + 1NC (20A) contact. Timer will have its own backup battery & will be enclosed in 16 gauge MS box with acrylic lid together with suitable connector block. (ABB/ MDS / L&T)	2	Nos		
1.7	Supplying and drawing following sizes of FRLS PVC insulated <b>copper conductor</b> cable in the surface recessed PVC pipe including chasing walls and making them NEAT later as required.				

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No.	Particular	Qty	Units	Rates	Amount
i)	(3c X 2.5sqmm)	105	Rm.		
v)	(4c X 4sqmm)	10	Rm.		
vi)	(4c X 10sqmm)	30	Rm.		
<b>1.8</b>	Suppling & fixing of suitable rating of MCB for protection of air-conditioning unit complete as required.				
a)	40 Amp. 4pole/ 3phase	4	Nos		
b)	32 Amp. 4pole/ 3phase with weather proof Box	1	Nos		
c)	20 Amp.2pole/ 1phase with weather proof Box	3	Nos		
d)	16 Amp.2pole/ 1phase with weather proof Box	3	Nos		
e)	16 Amp.2pole/ 1phase	15	Nos		
1.9	Providing & fixing <b>earthing wire</b> on surface or in recess for loop earthing along with existing surface /recessed conduit cable etc as required				
a)	8 SWG GI wire	20	Rm.		
b)	16 SWG GI wire	30	Rm.		
<b>2</b>	<b>AIR DISTRIBUTION SYSTEM</b>				
2.1	Supply, installation, balancing and commissioning of site fabricated GSS sheet metal rectangular ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
i)	(24 gauge) GSS	95	Sqm.		
ii)	(22 gauge) GSS	115	Sqm.		
2.2	Supply, Installation, Testing and Balancing of extruded alluminium square supply air diffusers / Supply air grills as per the approved shop drawings and specifications. Each diffuser /Grill shall be provided with individually djustable air distribution pattern, air distribution grid for strength including removable key-operated volume control complete as required.	5	Sqm.		
2.3	Supply, Installation, Testing and Balancing of extruded alluminium square return air diffusers / Return air grills as per the approved shop drawings and specifications but without volume control.complete as required.	6	Sqm.		
2.4	Supply, installation, testing and commissioning of 18G GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	1	Sqm.		

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No.	Particular	Qty	Units	Rates	Amount
2.5	Supplying, fabricating, installing and testing of double <b>canvas flexible connection</b> constructed of fire resistant material as per the drawings/ specifications for the AHU & ductable unit.complete as required.	4	Nos		
2.6	Providing, fixing, testing and commissioning of <b>air louvers</b> 50 mm deep of powder coated extruded aluminium construction with bird screen and filter as per specifications and approved shop drawings.etc as required.	0.5	Sqm		
2.7	Supplying, Fixing,testing and commissioning of <b>fire dampers</b> in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.				
a)	Fire damper	1	Sqm.		
b)	Actuator	2	nos		
<b>3.0</b>	<b>INSULATION</b>				
3.1	Supply & Application of acoustic lining/ internal thermal insulation of supply/return air ducting with fibre glass insulation as per the specifications and drawings complete as required.				
a)	25mm thick	45	Sqm.		
3.2	Supply and Application of external thermal insulation of ducting using closed cell elastomeric insulation with adhesive, longitudinal & transverse joints sealed with self adhesive tape of same material.complete as required.				
a)	9 mm thick	210	Sqm.		
	<b>TOTAL FOR AIR CONDITIONING</b>	<b>Rs.</b>			