

STATE BANK OF INDIA

PRICE BID –AIR CONDITIONING WORKS OF AURAD BRANCH

SI No.	Equipment description/ Particulars	Unit	Quantity	Rate	Amount
1.a	Supply of minimum 4.0 TR capacity, Ceiling mounted-Cassette-split air conditioners INVERTER-type with all modern facilities , first fill of refrigerant complete as under : Indoor unit: Ceiling mount comprising cooling coil, evaporator fan with motor, filters, insulated drain pan, drain pump, expansion valve, refrigerant filter drier with codeless remote control unit, etc: with Temperature indication. Outdoor unit: comprising inverter type hermetically sealed scroll/Rotary compressors, condenser coil with fan & motor, starters / controls / cutouts / relays etc., mounted inside a powder coated sheet metal cabinet of 2mm thick, duly treated for corrosion protection complete, mounted on ribbed rubber pads. The condenser & vaporizer should be Copper only . <u>Capacity: 14.06kW(+5%)</u> cooling capacity, 3-Phase Inverter AC . LATEST BEE STAR RATING: N/A	Nos	1		
1.b	Installation testing and commissioning of above above item	Nos	1		
1.c	Hard / Soft drawn Refrigerant piping circuit with 13mm thick nitrile rubber insulation. One refrigerant pipe circuit shall be inclusive of Suction gas & Liquid refrigerant pipe, interconnecting indoor and outdoor units (both suction and discharge lines	m	35		
1.d	Installation testing and commissioning of above above item	m	35		
1.e	Necessary electrical copper wiring including earthing conductor in rigid PVC conduit. Electrical Power & control cable between the indoor and outdoor unit with armored copper cable of suitable size along with the copper pipe routing.	m	37		
1.f	Installation testing and commissioning of above above item	m	37		
2.a	Supply of minimum 3.0 TR capacity, Ceiling mounted-Cassette-split air conditioners INVERTER-type with all modern facilities , first fill of refrigerant complete as under: Indoor unit: Ceiling mount comprising cooling coil, evaporator fan with motor, filters, insulated drain pan, drain pump, expansion valve, refrigerant filter drier with codeless remote control unit, etc: with Temperature indication. Outdoor unit: comprising inverter type hermetically sealed scroll/Rotary compressors, condenser coil with fan & motor, starters / controls / cutouts / relays	Nos	3		

2.b	Installation testing and commissioning of above above item	Nos	3		
2.c	Hard / Soft drawn Refrigerant piping circuit with 13mm thick nitrile rubber insulation. One refrigerant pipe circuit shall be inclusive of Suction gas & Liquid refrigerant pipe, interconnecting indoor and outdoor units (both suction and discharge lines	m	70		
2.d	Installation testing and commissioning of above above item	m	70		
2.e	Necessary electrical copper wiring including earthing conductor in rigid PVC conduit. Electrical Power & control cable between the indoor and outdoor unit with armored copper cable of suitable size along with the copper pipe routing.	m	80		
2.f	Installation testing and commissioning of above above item	m	80		
3.a	Supply of minimum 2.0 TR capacity, Ceiling mounted-	Nos	0		
3.b	Installation testing and commissioning of above above	Nos	0		
3.c	Hard / Soft drawn Refrigerant piping circuit with 13mm	m	0		
3.d	Installation testing and commissioning of above above	m	0		
3.e	Necessary electrical conner wiring including earthing	m	0		
3.f	Installation testing and commissioning of above above	m	0		
4.a	Supply of minimum 1.5 TR capacity, Ceiling mounted-Cassette-split air conditioners INVERTER-type with all modern facilities , first fill of refrigerant complete as under: Indoor unit: Ceiling mount comprising cooling coil, evaporator fan with motor, filters, insulated drain pan, drain pump, expansion valve, refrigerant filter drier with codeless remote control unit, etc: with Temperature indication. Outdoor unit: comprising inverter type hermetically sealed scroll/Rotary compressors, condenser coil with fan & motor, starters / controls / cutouts / relays etc., mounted inside a powder coated sheet metal cabinet of 2mm thick, duly treated for corrosion protection complete, mounted on ribbed rubber pads. The condenser & vaporizer should be Copper only . <u>Capacity : 5.27kW(+5%)</u> cooling capacity, 1-Phase Inverter AC , LATEST BEE	Nos	1		
4.b	Installation testing and commissioning of above above item	Nos	1		
4.c	Hard / Soft drawn Refrigerant piping circuit with 13mm thick nitrile rubber insulation. One refrigerant pipe circuit shall be inclusive of Suction gas & Liquid refrigerant pipe, interconnecting indoor and outdoor units (both suction and discharge lines	m	20		
4.d	Installation testing and commissioning of above above item	m	20		

4.e	Necessary electrical copper wiring including earthing conductor in rigid PVC conduit. Electrical Power & control cable between the indoor and outdoor unit with armored copper cable of suitable size along with the copper pipe routing.	m	23		
4.f	Installation testing and commissioning of above above item	m	23		
5.a	Supply of minimum 2.0Tr capacity, Hi-wall mounted Split	Nos	0		
5.b	Installation testing and commissioning of above above	Nos	0		
5.c	Hard / Soft drawn Refrigerant piping circuit with 13mm	m	0		
5.d	Installation testing and commissioning of above above	m	0		
5.e	Necessary electrical copper wiring including earthing	m	0		
5.f	Installation testing and commissioning of above above	m	0		
6.a	Supply of minimum 1.5Tr capacity, Hi-wall mounted Split	Nos	0		
6.b	Installation testing and commissioning of above above	Nos	0		
6.c	Hard / Soft drawn Refrigerant piping circuit with 13mm	m	0		
6.d	Installation testing and commissioning of above above	m	0		
6.e	Necessary electrical copper wiring including earthing	m	0		
6.f	Installation testing and commissioning of above above	m	0		
7.a	Supply of minimum 1.0Tr capacity, Hi-wall mounted Split Air Conditioners-INVERTER-type including set of copper piping, drain piping & electrical wiring up to 3meters between indoor and outdoor units and first fill of refrigerant. Indoor unit: HI-Wall Mount comprising - cooling coil, evaporator fan with motor, filters, insulated drain pan, expansion valve/venturi, refrigerant filter drier with codeless remote control unit, etc. Outdoor unit: comprising Single phase hermetically sealed Compressor, condenser coil with fan & motor / controls / cutouts / relays etc., mounted inside a powder coated sheet metal cabinet of 2mm thick, duly treated for corrosion protection in complete mounted on ribbed rubber pads. The	Nos	1		
7.b	Installation testing and commissioning of above above item	Nos	1		
7.c	Hard / Soft drawn Refrigerant piping circuit with 13mm thick nitrile rubber insulation. One refrigerant pipe circuit shall be inclusive of Suction gas & Liquid refrigerant pipe, interconnecting indoor and outdoor units (both suction and discharge lines)	m	10		
7.d	Installation testing and commissioning of above above item	m	10		
7.e	Necessary electrical copper wiring including earthing conductor in rigid PVC conduit. Electrical Power & control cable between the indoor and outdoor unit with armored copper cable of suitable size along with the copper pipe routing.	m	13		
7.f	Installation testing and commissioning of above above item	m	13		
8	Supply and installation of Air curtain of 2m width(door opening 1.8m), operating height 2.75m	Nos	1		

9	Supply, Installation, testing and commissioning of 4KVA Voltage Stabilizer suitable for the Air conditioners intelligent time delay (for 2.0Tr /1.5Tr AC)	Nos	1		
10	Supply, Installation, testing and commissioning of 3KVA Voltage Stabilizer suitable for the Air conditioners intelligent time delay (for 1.0Tr AC)	Nos	1		
11	Supply and erection of 20cm wide pre fabricated white powder coated painted GI tray with supports at every 60cm, supported from the ceiling to draw the refrigerant copper piping upto the condenser unit.	m	30		
	Supply and erection of 10cm wide pre fabricated white powder coated painted GI tray with supports at every 60cm, supported from the ceiling to draw the refrigerant copper piping upto the condenser unit.	m	30		
	9	sqm			
12	SUPPLY and installation of timer switch for AC in Server room / ATM room with =2NO 2NC contactor	Nos	0		
13	Supply and installation of Drain piping using rigid CPVC pipe 25mm	m	20		
14	Supply installation testing and commissioning of Drain pump with UPVC Construction, with sufficient water holding capacity with float valve, automatic controller etc as required.	Nos	1		
15	Supply Factory made/fabricated Heavy Metallic Wall mounting supports for the condenser of 4Tr &3Tr Cassette AC ODU's	Nos	5		
16	Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall.	Nos	1		
17	S,I,T &C Acoustically insulated mixed flow inline Fresh air fan with accessories for FA distribution to cassette units ~200cfm 10MM STATIC - (154mm dia coaxial fan) in Alluminium powder coated fresh packahe unit with filter/grills. (filter should be removable type for cleaning	Nos	0		
18	S,I,T & C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.				
	a. 225dia	Rm	0		
	b. 163dia	Rm	0		
	c. 110dia	Rm	0		
	d. 75dia	Rm	0		
19	S,I,T & C flexible connections to Highwall units/ Fresh air with disc valve and accessories including flexible duct	Nos	0		

20	Core cutting through concrete slab, beams, lintels, brick or block masonry up to 120mm depth.				
a.	Up to 50mm Dia	Nos	1		
b.	500mm to 100mm dia	Nos	1		
c.	100mm to 150mm dia	Nos	1		
Total (excluding GST)					