STATE BANK OF INDIA

ESTIMATE –AIR CONDITIONING WORKS OF BIDAR 1972 BRANCH

Sl No.	Equipment discription/ Particulars	Unit	uantit	Rate	Amount
	Supply of minimum 4.0 TR capacity. Ceiling mounted-	Nos	3		
	Installation testing and commissioning of above above item	Nos	3		
	Hard / Soft drawn Refrigerant piping circuit with 13mm thick	m	35 35		
	Installation testing and commissioning of above above item	m m	45		
	Necessary electrical copper wiring including earthing Installation testing and commissioning of above above item	m	45		
	Installation resting and commissioning of above above item		13		
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 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. Capacity: 10.55kW(+-5%)cooling capacity, 3-Phase Inverter AC, LATEST BEE STAR RATING: N/A	Nos	0		
2.b	Installation testing and commissioning of above above item	Nos	0		
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	0		
2.d	Installation testing and commissioning of above above item	m	0		
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.		0		
2.f	Installation testing and commissioning of above above item	m	0		
	Supply of minimum 2.0 TR capacity. Ceiling mounted-	Nos	0		-
3 h	Installation testing and commissioning of above above item	Nos	0		1
_	Hard / Soft drawn Refrigerant nining circuit with 13mm thick	m	0		+
		m			
3.d	Installation testing and commissioning of above above item	m m	0		
3.d 3.e		m m 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	Nos	3	
	scroll/Rotary compressors, condenser coil with fan & motor,	1105	3	
	starters / controls / cutouts / relays etc., mounted inside a			
	·			
	powder coated sheet metal cabinet of 2mm thick, duly	l .		
	treated for corrosion protection complete, mounted on			
	ribbed rubber pads. The condenser & vaporizer should be			
	Copper only. Capacity: 5.27kW(+-5%)cooling capacity, 1-			
	Phase Inverter AC , LATEST BEE STAR RATING: 3star and			
	above			
4.b	Installation testing and commissioning of above above item	١		
1	-	Nos	3	
1	Hand / Cafe duarum Dafuirament ututura atau atau atau ata			
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,	l m	40	
		1111	40	
	interconnecting indoor and outdoor units (both suction and			
	discharge lines			
4.d	Installation testing and commissioning of above above item			
'	mistandion testing and commissioning of above above item	m	40	
4.e	Necessary electrical copper wiring including earthing			
	conductor in rigid PVC conduit. Electrical Power & control			
	_	m	50	
	cable between the indoor and outdoor unit with armored			
	copper cable of suitable size along with the copper pipe			
4.f	Installation testing and commissioning of above above item			
4.1	installation testing and commissioning of above above item	m	50	
5 a	Sunnly of minimum 2 OTr canacity. Hi-wall mounted Solit	Nos	0	
5 h	Installation testing and commissioning of above above item	Nos	0	
<u>5 c</u>	Hard / Soft drawn Refrigerant nining circuit with 13mm thick	m	0	
<u>5</u> d		m	0	
<u>5 e</u> 5 f	Necessary electrical conner wiring including earthing Installation testing and commissioning of above above item	m m	0	
1 21	IIISTAIJAHON TESTINA ANN COMMISSIONINA OL SUOVE SUOVE ILEM		U	
_	Committee of maintaining AFT			
6.a	Supply of minimum 1.5Tr capacity, Hi-wall mounted Split	l .		
1	Air Conditioners-INVERTER-type including set of copper			
1	piping,drain piping & electrical wiring up to 3meters	l .		
		l .		
	between indoor and outdoor units and first fill of	l .		
	refrigerant. Indoor unit: HI-Wall Mount comprising - cooling			
	coil, evaporator fan with motor, filters, insulated drain pan,			
		Nos	0	
	expansion valve/venturi, refrigerant filter drier with codeless			
	remote control unit, etc. Outdoor unit: comprising Single			
1	phase hermetically sealed Compressor, condenser coil with	l .		
1		l .		
	fan & motor / controls / cutouts / relays etc., mounted			
1	inside a powder coated sheet metal cabinet of 2mm thick,			
	duly treated for corrosion protection in complete, mounted			
	an ribbad rubbar nada. The condenser & yongrizor should	<u> </u>		

6.b	Installation testing and commissioning of above above item	Nos	0	
6.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	0	
6.d	Installation testing and commissioning of above above item	m	0	
6.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	0	
6.f	Installation testing and commissioning of above above item	m	0	
	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 condenser & vaporizer should be Copper only Capacity: 2 514W/L 590 cooling capacity.	Nos	2	
7.b	Installation testing and commissioning of above above item	Nos	2	
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	30	
7.d	Installation testing and commissioning of above above item	m	30	
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	33	
7.f	Installation testing and commissioning of above above item	m	33	
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) 10 Supply, Installation, testing and commissioning of 3KVA Voltage Stabilizer suitable for the Air conditioners intelligent time delay (for 1.0Tr AC) 11 Sunolv and erection of 20cm wide ore fabricated naioted Cit. m 0 sum 0 su					<u> </u>	
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12 SUPPLY and installation of timer switch for AC in Server Nos 0 13 Supply and installation of Drain piping using rigid CPVC pipe 25mm 60 14 Supply installation testing and commissioning of Drain pump with UPVC Construction, with sufficient water holding capacity with float valve, automatic controller etc as capacity with float valve, automatic controller etc as 2 15 Supply Factory made/fabricated Heavy Metallic Wall mounting supports for the condenser of 4Tr &3Tr Cassette AC ODUs 16 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall. 17 SI,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 fliter/grills. (filter should be removable type for cleaning and maintenance) 18 SJ,T & C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc. 2 225dia	11	Supply and erection of 20cm wide are fabricated painted GL	m	0		
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