## STATE BANK OF INDIA

## PRICEBID -AIR CONDITIONING WORKS OF BELUR BRANCH DHARWAD

	PRICEBID —AIR CONDITIONING WORKS OF BELU				1
	Equipment discription/ Particulars		luantit	Rate	Amount
1.a	Supply of minimum 4.0 TR capacity, Ceiling mounted-	Nos	0		
1.b	Installation testing and commissioning of above above	Nos	0		
1.c	Hard / Soft drawn Refrigerant piping circuit with 13mm	m	0		
1.d	Installation testing and commissioning of above above	m	0		
1.e	Necessary electrical copper wiring including earthing	m	0		
1.f	Installation testing and commissioning of above above	m	0		
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	Nos	3		
2.b	Installation testing and commissioning of above item	М	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	М	45		
2.d	Installation testing and commissioning of above above	m	45		
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	50		
2.f	Installation testing and commissioning of above above	m	50		
3.a	Supply of minimum 2 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.e Necessary electrical copper wiring including earthing m 0 nstallation testing and commissioning of above above m 0 nstallation testing and commissioning of above above m 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above m 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 nstallation testing and commissioning of above above ns 0 ns 1 nstallation testing and commissioning of above above ns 0 ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 nstallation testing and commissioning of above above ns 1 ns	2 4	Installation testing and commissioning of above above			1
3.f Installation testing and commissioning of above above m 0   4.a Supply of minimum 1.5 TR capacity, Ceiling mounted-Nos 0   4.b Installation testing and commissioning of above above Nos 0   4.c Hard / Soft drawn Refrigerant piping circuit with 13mm m 0   4.d Installation testing and commissioning of above above m 0   4.e Necessary electrical copper wiring including earthing m 0   4.f Installation testing and commissioning of above above m 0   5.a Supply of minimum 2.0Tr 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.  5.b Installation testing and commissioning of above above  5.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 shall be inclusive of Suction gas & Liquid refrigerant pipe, interconnecting indoor and outdoor units (both suction and discharge lines shall be insulation testing and commissioning of above above m 9    5.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.  5.f Installation testing and commissioning of above above Nos 0	3.d	Installation testing and commissioning of above above		0	
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5.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.  5.f Installation testing and commissioning of above above m 13.5  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		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		
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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	5.e	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	m	13.5	
6.b Installation testing and commissioning of above above Nos 0	5.f	Installation testing and commissioning of above above	m	13.5	
6.b Installation testing and commissioning of above above Nos 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.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	
	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: 3.51kW(+-5%)cooling capacity, 1-Phase Inverter	Nos	2	
	Installation testing and commissioning of above above	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	13.5	
7.d	Installation testing and commissioning of above above	m	13.5	
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	18	
7.f	Installation testing and commissioning of above above	m	18	
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	2	
10	Supply, Installation, testing and commissioning of 3KVA	Nos	0	
11	Supply and erection of 20cm wide pre fabricated painted	m	0	

SUPPLY and installation of timer switch for AC in ATM room with =2NO 2NC contactor  Supply and installation of Drain piping using rigid CPVC pipe 25mm  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.  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.  25,1,1 &C ACOUSTICATION INSTALLATION		0	sqm			
pipe 25mm  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.  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 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall.  18 S,I,T &C ACOUSTICALLY INSURACE THIS WALL.  19 S,I,T &C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.  20 25dia Rm 0  11 diad Rm 0  12 S,I,T & C flexible connections to Highwall units/ Fresh air Nos 0  20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  21 a. Up to 50mm Dia Nos 5  22 b. 500mm to 100mm dia Nos 0	12			1		
pipe 25mm  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.  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 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall.  18 S,I,T &C ACOUSTICALLY INSURACE THIS WALL.  19 S,I,T &C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.  20 25dia Rm 0  11 diad Rm 0  12 S,I,T & C flexible connections to Highwall units/ Fresh air Nos 0  20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  21 a. Up to 50mm Dia Nos 5  22 b. 500mm to 100mm dia Nos 0						
pump with UPVC Construction, with sufficient water holding capacity with float valve, automatic controller etc as required.  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 Split & Capacity Insurated mixed now infinite Fresh air fan with accessories for EA distribution to cascetto units.  18 Split & C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.  225dia  3. Li 10dia  4. Rm  5. I, T & C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.  2. Li 10dia  5. Ji 10dia  6. Todia  7. Rm  9. Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  19 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I & C flexible connections depth.  20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  21 Li 10dia  22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  22 Li 10dia  23 Li 20dia  44 Nos  55 Li 20dia  56 Nos  57 Li 20dia  77 Split Air Conditioners - Hi Wall  8 Nos  9 Li 20dia  9 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I, T & C flexible connections to Highwall units/ Fresh air  10 Nos  11 Nos  12 Li 20dia  13 Li 20dia  14 Li 20dia  15 Li 20dia  16 Nos  17 Split Air Conditioners - Hi Wall  18 Nos  19 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I, T & C flexible connections to Highwall units/ Fresh air  10 Nos  11 Li 20dia  11 Li 20dia  12 Nos  12 Nos  12 Li 20dia  13 Li 20dia  14 Nos  15 Li 20dia  15 Li 20dia  16 Nos  17 Li 20dia  17 Li 20dia  18 Li 20dia  18 Li 20dia  19 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I, T & C flexible connections to Highwall units/ Fresh air  10 Li 20dia  11 Li 20dia  12 Li 20di	13		m	63		
pump with UPVC Construction, with sufficient water holding capacity with float valve, automatic controller etc as required.  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 Split & Capacity Insurated mixed now infinite Fresh air fan with accessories for EA distribution to cascetto units.  18 Split & C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.  225dia  3. Li 10dia  4. Rm  5. I, T & C PVC pipe for frech air distribution with necessary fittings and supports reducers, 'Y'joints, 'T's etc.  2. Li 10dia  5. Ji 10dia  6. Todia  7. Rm  9. Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  19 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I & C flexible connections depth.  20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  21 Li 10dia  22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  22 Li 10dia  23 Li 20dia  44 Nos  55 Li 20dia  56 Nos  57 Li 20dia  77 Split Air Conditioners - Hi Wall  8 Nos  9 Li 20dia  9 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I, T & C flexible connections to Highwall units/ Fresh air  10 Nos  11 Nos  12 Li 20dia  13 Li 20dia  14 Li 20dia  15 Li 20dia  16 Nos  17 Split Air Conditioners - Hi Wall  18 Nos  19 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I, T & C flexible connections to Highwall units/ Fresh air  10 Nos  11 Li 20dia  11 Li 20dia  12 Nos  12 Nos  12 Li 20dia  13 Li 20dia  14 Nos  15 Li 20dia  15 Li 20dia  16 Nos  17 Li 20dia  17 Li 20dia  18 Li 20dia  18 Li 20dia  19 S, I, T & C flexible connections to Highwall units/ Fresh air  19 S, I, T & C flexible connections to Highwall units/ Fresh air  10 Li 20dia  11 Li 20dia  12 Li 20di						
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the condenser of Split Air Conditioners - Hi Wall.    17						
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17 fan with accordance for EA distribution to caccette units  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 Nos 0  20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  a. Up to 50mm Dia Nos 5  b. 500mm to 100mm dia Nos 0  c. 100mm to 150mm dia Nos 0		STI WE ACOUSTICATE INSULATED TOWN TO THE FIRST AIR				
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20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  a. Up to 50mm Dia  b. 500mm to 100mm dia  c. 100mm to 150mm dia  Nos  Nos  Nos  Nos  Nos  Nos  Nos  No	d.	75dia	Rm	0		
20 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth.  a. Up to 50mm Dia  b. 500mm to 100mm dia  c. 100mm to 150mm dia  Nos  Nos  Nos  Nos  Nos  Nos  Nos  No						
block masonary up to 120mm depth.  a. Up to 50mm Dia  b. 500mm to 100mm dia  c. 100mm to 150mm dia  Nos  Nos  Nos  Nos  Nos  Nos  Nos  No	19	S,I,T & C flexible connections to Highwall units/ Fresh air	Nos	0		
block masonary up to 120mm depth.  a. Up to 50mm Dia  b. 500mm to 100mm dia  c. 100mm to 150mm dia  Nos  Nos  Nos  Nos  Nos  Nos  Nos  No	20	Coro cutting through concrete clab beams lintels brick or				
a. Up to 50mm Dia       Nos       5         b. 500mm to 100mm dia       Nos       0         c. 100mm to 150mm dia       Nos       0	20					
b. 500mm to 100mm dia	а	<del>, , , , , , , , , , , , , , , , , , , </del>	Nos	5		
c. 100mm to 150mm dia Nos 0						
TOTAL TOTAL COLL						