Mysore Rd Br. R2.AO1_31.08.24

STATE BANK OF INDIA								
	ESTIMATE-AIR CONDITIONING WORKS OF SBI MYSUR			RBO2, AO-1 BENGALURU, KARNATAKA				
					Supply		llation	
SL.		11-14	01	D (
NO.	EQPT DESCRIPTION	Unit	Qty	Rate	Amount	Rate	Amount	
				Supply				
1	Supply Installation, Testing and Commissioning of the folowing rating of inverter							
	VRF outdoor units (ODUs) of fully inverter type . The specified capacities shall be							
	actual cooling capacities at 36C DBT and 25.6C WBT ambient conditions and 23C /							
	60% RH Room Conditions. ODU Shall be mounted on suitable cement concrete							
	pedestal duly plastered and painted on the terace as required.							
h.	44.0 kW Cooling capacity (16.0 HP) top throw	Nos	1		-		0	
					-		0	
					-		0	
	Supply Installation, Testing and Commissioning of the following rating of VRF Indoor							
	units. Max of TR and CFM specifications should be met incase of specific product descrepancies. Price of casette units to include face plates. Price to include wiring				-			
	from the nearby power outlet.						0	
	1.60TR 459CFM 4-way-CASSETTE 2x2 (5.6kW)	Nos	1		_		0	
<i>.</i> .	,,	-			-		0	
j.	2.01TR 670CFM 4-way-CASSETTE 3x3 (7.1kW)	Nos	1		-		0	
	3.00TR 950CFM 4-way-CASSETTE 3x3 (10.6kW)	Nos	2		-		0	
m.	4.00TR 1200CFM 4-way-CASSETTE 3x3 (14.1kW)	Nos	1		-		0	
			5		-		0	
3					-		0	
	S,I,T & C Cordless remote controller	Nos	5		-		0	
	S,I,T & C Wired group controller (to control min 35 IDUs) and the minimum	Nec	1					
	operation like ON/OFF, controlling individual IDU temperature, on off timer, facility for creating Zones etc shall be available	Nos	1		-		0	
	for creating zones etc shall be available						0	
4							0	
	S,I,T & C Refnut joint Kits for above combination of machines	Lot	1		-		0	
5	-///				-		0	
	S, I, T & C Refrigerant Cu Piping for VRF equipment with 18G HD Copper pipes,							
	insulated with specified thickness nitrile rubber tubings and joints sealed with black				-			
	cotton tape.						0	
	28.6 mm with 19mm thick insulation	Rm	15		-		0	
	25.5 mm with 19mm thick insulation	Rm	5		-		0	
	22.2 mm with 13 mm thick insulation	Rm	5		-		0	
	19.1 mm with 13 mm thick insulation 15.9 mm with 13 mm thick insulation	Rm	8 30		-		0	
0	12.7 mm with 13 mm thick insulation	Rm Rm	50		-		0	
	9.5 mm with 13 mm thick insulation	Rm	40				0	
	6.0 mm with 13 mm thick insulation	Rm	60		_		0	
J·					-		0	
6					-		0	
	S,I,T & C Control wiring / network wiring using recommended quality of multicore	m	100		_			
	wires in PVC Conduit		100		_		0	
7					-		0	
	S,I,T & C Pressure , testing & commissioning of the refrigerent lines with nitrogen,	Lot	1		-		0	
	and Topping Up of R 410a/R32.include hoisting .						0	
8					-		0	
	Supply of minimum 2.0 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	Nos	2		-			
	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 : 7.03kW(+-5%) cooling							
	capacity, 1-Phase Inverter AC , LATEST BEE STAR RATING: 3 star and above						0	
	b) Hard / Soft drawn Refrigerant nining circuit with 12mm thick nitrile with an						0	
	b). Hard / Soft drawn Refrigerant piping circuit with 13mm thick nitrile rubber insulation. One refrigerant pipe circuit shall be inclusive of Suction gas & Liquid	Mtr	20					
	refrigerant pipe, interconnecting indoor and outdoor units	iviti	20				0	
			1				0	
	c). Necessary electrical copper wiring including earthing conductor in rigid PVC							
	conduit. Electrical Power & control cable between the indoor and outdoor unit	Mtr	22		-			
	with armored copper cable of suitable size along with the copper pipe routing.						0	
9					-		0	

Mysore Rd Br. R2.AO1_31.08.24

11 Spin SC Acoustically insulated mixed flow inline Fresh air fan with accessories in PA distribution to cassette units 100cfm 10MM STATIC. Nos 1 - - - 12 - <th></th> <th></th> <th></th> <th></th> <th></th> <th>0</th>						0
Nos 1 - - 11 - - - - 11 - - - - - 11 - - - - - - 12 - - - - - - - 12 -<	10	Supply and installation of Air curtain of 2m width(door opening 1.8m), operating				0
11			Nos	1	-	0
FA distribution to cassette units 100cfm 10MM STATIC NOS 1 - 12 -					-	0
E A distribution to cassette units 100cfm 10MM STATIC NOS 1 - 12 -		S,I,T &C Acoustically insulated mixed flow inline Fresh air fan with accessories for		1		
Image: state in the s			Nos	T	-	0
13 S,J,T & C PVC pipe for frech air distribution with necessary fittings and supports - - - a 225mmdia Rm 10 - - - b 163mmdia Rm 10 - - - c 110mmdia Rm 20 - - - - d 75mmdia Rm 30 -	12				-	0
S.J. 1 & C PVC pipe for frech air distribution with necessary littings and supports - - a 225mmdia Rm 10 - - b 163mmdia Rm 20 - - - c 110mmdia Rm 30 - - - - d 75mmdia Rm 30 -					-	0
a 225mmdia Rm 10 - - b 163mmdia Rm 15 - - c 110mmdia Rm 20 - - d 75mmdia Rm 30 - - d 75mmdia Concentro with disc valve and accessories including flexible Nos 6 - duct - - - - - form x 1200mm X 1000mm (HwWsL) - - - - - lp - - - - - - - lp - - - - - - - - - - - - -	13	S,I,T & C PVC pipe for frech air distribution with necessary fittings and supports			-	0
b 163mmdia Rm 15 - c 110mmdia Rm 20 - - d 75mmdia Rm 30 - - state - - - - d 75mmdia - - - - State - - - - duct - - - - - duct - - - - - - 15 - - - - - - - - - - - - - -	a	225mmdia	Rm	10	_	0
c 110mmdia Rm 20 - - d Z5mmdia Rm 30 - - 15 - - - - 15 - - - - duct - - - - 16 - - - - All related civil works involved with the above scope of work except core cutting and any structural work. Viz: providing concrete foundation for each ODU of ~ SIZE LS 1 - - 19 - - - - - - 19 -<					_	0
15 0 - - 15 5,17.8 C of Fresh air connection with disc valve and accessories including flexible duct - - 16 - - - - 16 - - - - 16 - - - - 16 - - - - 16 - - - - 16 - - - - and any structural work. Viz: providing concrete foundation for each ODU of ~SIZE L.S 1 - 19 - - - - - 19 - - - - - 19 - - - - - - 19 -					-	0
15 S,I,T & C of Fresh air connection with disc valve and accessories including flexible duct Nos 6 16 16 16 16 16 16 17 19 19 19 20 fai 20 dia <t< td=""><td>d</td><td>75mmdia</td><td>Rm</td><td>30</td><td>-</td><td>0</td></t<>	d	75mmdia	Rm	30	-	0
SI,T & C of Fresh air connection with disc valve and accessories including flexible duct Nos 6 - 16 - - - All related civil works involved with the above scope of work except core cutting and any structural work. Viz; providing concrete foundation for each ODU of ~ SiZE 150mm X 1200mm X 1000mm (HxWxL) LS 1 - 19 - - - - 19 - - - - 19 - - - - Chlorinated Polyvinyl Chloride pipes (CPVC) pipe up to 50mm dia with Fittings up to 50mm dia SDR.11 with 13mm thick nitrile rubber insulation., supports etc. - - - a. 32 dia Rm 12 - - - b. 25 dia Rm 20 - - - 20 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting/ wall mounting type) Rm 2 - - - 21 GI LADDER TRAY : Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) - - - - - 120mm depth.					-	0
duct Nos b - - 16 - </td <td>15</td> <td></td> <td></td> <td></td> <td>-</td> <td>0</td>	15				-	0
duct Nos b - - 16 - </td <td></td> <td>S,I,T & C of Fresh air connection with disc valve and accessories including flexible</td> <td></td> <td>6</td> <td></td> <td></td>		S,I,T & C of Fresh air connection with disc valve and accessories including flexible		6		
All related civil works involved with the above scope of work except core cutting and any structural work. Viz; providing concrete foundation for each ODU of ~ SIZE 150mm X 1200mm X 1000mm (HxWxL) L.S 1 - 19 - - - Chlorinated Polyvinyl Chloride pipes (CPVC) pipe up to 50mm dia with Fittings up to 50mm dia SDR.11 with 13mm thick nitrile rubber insulation., supports etc. Rm 12 - a. 32 dia Rm 20 - - - b. 25 dia Rm 20 - - - b. 20 dia Rm 40 - - - - 20 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting/wall mounting type) Rm 2 - </td <td></td> <td></td> <td>Nos</td> <td>6</td> <td>-</td> <td>0</td>			Nos	6	-	0
and any structural work. Viz; providing concrete foundation for each ODU of ~ SIZE L.S 1 -	16				-	0
150mm X 1200mm X 1000mm (HxWxL) - - - - 19 - - - - - - Chlorinated Polyvinyl Chloride pipes (CPVC) pipe up to 50mm dia with Fittings up to 50mm dia SDR.11 with 13mm thick nitrile rubber insulation., supports etc. Rm 12 - </td <td></td> <td>All related civil works involved with the above scope of work except core cutting</td> <td></td> <td></td> <td></td> <td></td>		All related civil works involved with the above scope of work except core cutting				
19		and any structural work. Viz; providing concrete foundation for each ODU of $^{\sim}$ SIZE	L.S	1	-	
Chlorinated Polyvinyl Chloride pipes (CPVC) pipe up to 50mm dia with Fittings up to 50mm dia SDR.11 with 13mm thick nitrile rubber insulation., supports etc. -		150mm X 1200mm X 1000mm (HxWxL)				0
to 50mm dia SDR.11 with 13mm thick nitrile rubber insulation., supports etc. Rm 12 - 1 a. 32 dia Rm 20 - 1 1 1 1 b. 25 dia Rm 20 - 1	19				-	0
to 50mm dia SDR.11 with 13mm thick nitrile rubber insulation., supports etc. Rm 12 - 1 a. 32 dia Rm 20 - 1 1 1 1 b. 25 dia Rm 20 - 1		Chlorinated Polyvinyl Chloride nines (CPVC) nine up to 50mm dia, with Fittings up				
a. 32 dia Rm 12 - - b. 25 dia Rm 20 - - - b. 20 dia Rm 40 - - - - 20 dia Rm 40 -					-	
b. 25 dia Rm 20 - - b. 20 dia Rm 40 - - Construction Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting/ wall mounting type) Rm 2 - - 20 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting/ wall mounting type) Rm 2 - - - 21 GI LADDER TRAY : Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) Rm 50 - - 1) 200mmx50mm(WxH) Rm 50 - - - - 22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. Rm 50 -						0
b. 20 dia Rm 40 - Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ casset (floor mounting / wall mounting type) Rm 2 Image: constraint of the condenser of Split Air Conditioners - Hi Wall./ casset (floor mounting / wall mounting type) Image: constraint of the condenser of the cond						0
20 Supply Factory made Metallic Wall mounting supports for the condenser of Split Air Conditioners - Hi Wall./ cassete (floor mountng/ wall mounting type) Rm 2 - - 21 GI LADDER TRAY : Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) Rm 50 - - 1) 200mmx50mm(WxH) Rm 50 - - - 22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. Rm 50 - - a. Up to 50mm Dia Nos 2 - - - GRAND TOTAL CAND TOTAL ₹ 0.00 ₹ 0.00						0
Air Conditioners - Hi Wall./ cassete (floor mounting/ wall mounting type) Rm 2 - <td>b.</td> <td>20 dia</td> <td>Rm</td> <td>40</td> <td></td> <td>0</td>	b.	20 dia	Rm	40		0
Air Conditioners - Hi Wall./ cassete (floor mounting/ wall mounting type) Rm 2 - <td>20</td> <td></td> <td></td> <td></td> <td></td> <td>0</td>	20					0
21 GI LADDER TRAY : Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) Image: Constraint of the inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) I) 200mmx50mm(WxH) Rm 50 - 22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. So - a. Up to 50mm Dia Nos 2 - d Constraint of the inclus of th			Dur	2		
21 GI LADDER TRAY : Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) Rm 50 - i) 200mmx50mm(WxH) Rm 50 - - 22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. Nos 2 - - a. Up to 50mm Dia Nos 2 - - - GRAND TOTAL GRAND TOTAL ₹ 0.00 ₹ 0.00 ₹ 0.00		Air Conditioners - Hi Wall./ cassete (floor mounting/ wall mounting type)	ĸm	2	-	0
21 GI LADDER TRAY : Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) Rm 50 - - i) 200mmx50mm(WxH) Rm 50 -						0
tray of following size. (Rate shall be inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) m for the support inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) m 50 for the support inclusive of all bends supports, etc. And supports to be not more than 1000mm apart) i) 200mmx50mm(WxH) 50 for the support inclusive of all bends supports, etc. And support inclusive of all bends s	21	GLIADDER TRAV : Suppy and installation of medium duty GLI adder type cable		r		0
supports to be not more than 1000mm apart) Rm 50 - i) 200mmx50mm(WxH) Rm 50 - 22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm Dia Nos 2 - a. Up to 50mm Dia Nos 2 - Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick or block masonary up to 120mm depth. Image: Construct of the slab, beams, lintels, brick of the slab, beams, lintel						
i) 200mmx50mm(WxH) Rm 50 - - 22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. - - - a. Up to 50mm Dia Nos 2 - - Jub to 50mm Dia Control Image: Control Image: Control						0
22 Core cutting through concrete slab, beams, lintels, brick or block masonary up to 120mm depth. - - - a. Up to 50mm Dia Nos 2 - - Mos 2 - - GRAND TOTAL ₹ 0.00 ₹ 0.00			Rm	50		0
120mm depth. Image: Constraint of the second sec		·/································	1111			0
120mm depth. Image: Constraint of the second sec	22	Core cutting through concrete slab, beams, lintels, brick or block masonary up to				Ů
a. Up to 50mm Dia Nos 2 - GRAND TOTAL ₹0.00					-	0
₹ 0.00 ₹ 0.00 ₹ 0.00 GRAND TOTAL ₹ 0.00	a.		Nos	2	-	0
GRAND TOTAL ₹ 0.00					₹ 0.00	₹ 0.00
All the rates mentioned in the above estimate is excluding GST/any Taxes.						