STATE BANK OF INDIA					
<u>AIR</u>	AIR CONDITIONING WORKS FOR SHIFTING OF ADMONISTRATIVE OFFICE SOUTH MUMBAI AT MUMBA MAIN BRANCH, FORT, MUMBAI				
Sr. no		-	Unit	Rate	Amount
1	Blue star , Carrier ,Mitsubishi,Toshiba,	Qty	Unit	Nate	Amount
-	Hitachi ,Daikin.				
	Supply of Modulating outdoor units, with multi/single				
	scroll compressors (minimum one/two compressors)				
	with inverter type compressor, special pre-coated				
	fins, panel, corrosion resistant (suitable for seaside				
	installation) coated condenser, inverter-based				
	condenser fan M.S.hot dip galvanized stands /				
	supports, electrical & microprocessor panel, isolating				
	valves and all the necessary accessories for proper				
	functioning of the units, having following				
	approximate capacities. Outdoor units suitable for				
	following capacities				
	Note: Fins and copper tubes of Air Cooled Condenser				
	along with copper tubing / piping with all joints and				
	U- Bends exposed to coastal areas corrosive				
	atmosphere / aggressive ambient, shall be painted				
	with special corrosion prevention coating either in				
	factory or at site				
i	40 HP VRF ODU	1	No		
	Supply of VRF based Indoor units complete with				
	remote and all accessories, Vibration isolators &				
	supports. The indoor unit shall be suitable for a				
	power supply of 240V/ 1 phase/ 50Hz OR 415V / 3				
	4-way Cassette Type Indoor Units, unit shall be complete with remote controller				
	2.8/3.0 TR CASSETTE	6	nos		
	2.2/2.0 TR CASSETTE	6	nos		
	1.2/1.0 TR COMPACT CASSETTE (CABIN)	4	nos		
	1.0 TR Hi-Wall (Cabin)	3	nos		
d	Supply of Refnet	12	nos		
	Joints				
3	Supply, Of DX SPLIT Type (1 Phase,3STAR) Air				
	Conditioning Units.				
	Supply, of SPLIT type (1 phase,3STAR & above for				
	split ) air conditioning units comprising of indoor				
	unit, outdoor unit, first fill of refrigerant gas,				
	thermostatic control, safety cut outs, corded remote				
	for unit operation, condenser and evaporator				
	mounting stand, insulation of refrigerant piping,				
	drain piping and any other accessories required for				
	installation				
	Note: The rates quoted above shall include the cost				
	of indoor units, mounting brackets, first charge of gas. Materials like fittings, clamps, supports, U trap				
	in drain piping with necessary slope etc., minor civil				
	work like opening in the walls for piping and cables				
	and finishing the same. pipes & cables between				
	through wall shall be taken through sleeves and				
	plugged to avoid leakages, condenser mounting with				
	all accessories vibration mounting pads etc., piping				
	and cabling connections at indoor.				
а	1.0 TR HI-WALL (Server ) 1W+1ST	2	nos		
ŭ	TO INTE WALL (SCIVE ) IVITISI	2	1105		1

b	2.0 TR Cassette (CABIN)	1	nos	
	SECTION 'A' TOTAL			

	SECTION LOW SIDE			
В	Installation of VRF/ VRV system			
0				
	Installation, Testing and Commissioning of Out Door Units suitable for VRF / VRV System & -Price shall inclusive of Refrigerant charge, LIFTING SHIFTING			
1	OF ALL VRF UNITS, and other necessary accessories Pressure Testing, Nitrogen flushing, gas charging			
	(R410A), testing & commissioning of the air- conditioning system			
а	44 HP VRF ODU	1	nos	
2	Installation, Testing and Commissioning of Indoor Units suitable for VRF / VRV System. Costs shall include hanging / mounting arrangements for the respective IDUs and shall also include for wall mounting of remote controllers near respective units and LIFTING SHIFTING, ERECTION.			
	4-way Cassette Type Indoor Units, unit shall be complete with wireless remote controller			
а	3.0 TR CASSETTE (Loung Area+Cabin)	6	nos	
b	2.0/1.0 TR CASSETTE (CABIN)	11	nos	
С	1.0 TR Hi-Wall (Cabin)	4	nos	
3	REFRIGERANT PIPING FOR VRF			
	Supply, installation, testing & commissioning of the insulated refrigerant piping for all the units as per specifications with insulation of thick Nitrile rubber throughout the running length of the refrigerant piping with supporting arrangements			
İ	Copper Ref. <b>Hard</b> piping pair (Liquid + suction) of the required sizes for all the units with refnets as per specs. The insulation shall be of 19mm/13mm thick Armaflex make through out the running length of Ref. piping. The piping shall be well supported at specific intervals with GI supports with insulated PUF saddles and installed on GI cable trays supported from wall / roof with anchor fasteners & C type ms angle.	90	mtrs	
ii	Copper Ref. <b>Soft</b> piping pair (liduid+suction) of the required sizes for all the units with refnets as per specs. The insulation shall be of 19mm/13mm thick Armaflex make through out the running length of Ref. piping. The piping shall be well supported at specific intervals with GI supports with insulated PUF saddles and installed on GI cable trays supported from wall / roof with anchor fasteners & C type ms angle.		mtrs	
	REFRIGERANT PIPING FOR SPLIT AC UNIT			
4	Supply & installation for additional Hilton insulated hard/soft copper refrigerant piping complete with fittings, elbows, bends, supporting arrangement on	30	mtrs	
	walls, cable trays. (separate for each unit) Hot side + cold side piping will be measured as one length existing copper Refringent piping for 1.5/1.0TR Hi		-	
5a	CONTROL CABLING FOR VRF			

	Supply, installation, testing & commissioning of the				
	control cabling from indoor to outdoor unit .& from				
	indoor to outdoors unit and from outdoor to central	250	mtrs		
	controller 3cX2.5 sq. mm. shielded communication				
	copper cable(Polycab/RR/Havells)				
b	CONTROL CABLING FOR SPLIT AC UNIT DX				
	Supply, installation, testing & commissioning of				
	Power & control cabling required from indoor unit to				
	outdoor unit. Power supply will be made available				
	near the indoor unit only. Power & control cabling	40	Mtr		
	for 1.5TR highwall type unit(3cX1.5 sq. mm.)				
	(Polycab/RR/Havells)				
6a	DRAIN PIPING FOR VRF & SPLIT AC UNIT				
	Drain water piping work out of 25/30 mm PVC/HDPE				
	hard pipes covered with Hilton insulations, complete	100	mtrs		
	with fittings, bends, elbows, tees flanges, tappings,	100	mus		
	wall sleeves, hangers, supports, anchors				
7	Fresh air with cowl	2	nos		
8	GI CABLE TRAY 200mm wide,22swg	10	mtrs		
9	CONDENSING UNIT STANDS FOR SPLIT & cassette	~			
10	AC UNIT	2	Nos		
10	CONDENSING UNIT STANDS FOR 42 HP VRF	1	lot		
11	REFREGERENT 410 GAS FOR VRF	40	KG		
		10	110		
	Remove & refixing of the Existing 1.5 TR / 2 TR / 1				
	TR High Wall Split units & outdoor MS Stand, MS	1	Nos		
	Bracket etc. filling the trenching, hole etc. As per the				
	instructions of the Architects/ Engineer				
	Gas charging & leak test after installation of old air-				
	conditioner. As per the instructions of the Architects/	1	Nos		
	Engineer				
	Necessary civil work : Trenching work / Making &				
	remaking of holes in walls, final finishing the same in				
	all respects pop,cements,etc with labour charge for				
	same including loading and unloading. charges and				
11	trenching work if required.	1	Nos		
12	Core cutting	2	Nos		
12	SECTION 'B' TOTAL	2	INUS		
	ANNEXURE			·1	
Ι	TOTAL OF HIGH SIDE-A				
II	TOTAL OF LOW SIDE-B				
11					
III	GRAND TOTAL (A+B) (Excluding GST)				
IV	GST EXTRA				
1					