

**BOQ for Air-conditioning work for the SBI Taloja Branch.**

Sr. no	Particulars	Qty	Nos.	Rate	Amount
1	<b>Supply, Of Split Type (1 Phase, 5STAR) Cassette Type (1/3 Phase, 3/5STAR) Air Conditioning Units Bluestar, Daikin, Mitsubishi, Carrier, Hitachi, Voltas, LG.</b>				
	SUPPLYING OF following CASSETTE / SPLIT (single/three phase) AIR CONDITIONERS- AIR-COOLED TYPE having ODU & Single circuits with Scroll /rotary Compressors including indoor unit with fan, fan- motor, Copper cooling coil, expansion device, condensing unit, compressors, cond. coils, cond. Fans, safety cutouts, inbuilt control panel complete with contactors, relays, internal cabling, thermostat to control temperature & machine, having single Indoor unit & single Outdoor unit with display facility and wireless remote control.				
	i 2.0 Tr. Cassette AC	5	No		
	ii 1.5 TR High Wall INVERTER SPLIT AIR CONDITIONER	3	nos		
	iii 1.0 TR High Wall INVERTER SPLIT AIR CONDITIONER	2	nos		
	<b>SECTION 'A' EQUIPMENT TOTAL</b>				
	<b>B-SECTION</b>				
	<b>Installation of Cassette / Split AC system</b>				
2	Installation, Testing and Commissioning of AC's -Price shall inclusive of Pressure testing, with all require anchor fastner accesories & LIFTING SHIFTING OF ALL UNITS, and other necessary accessories, leak testing Nitrogen flushing, testing & commissioning of the air-conditioning system as per requirement.				
	i 2.0 / 1.8 TR Cassette AC.	5	nos		
	ii 1.0TR/1.5 TR Inverter Split AC	5	nos.		
3	<b>REFRIGERANT PIPING FOR SPLIT AC UNIT</b>				
	i COPER REFRIGERANT PIPING 20 SWG / 22 SWG of the required sizes for all the CASSETTE units with the insulation shall be of 19mm/13mm thick Armaflex make through out the running length of Ref. piping (Hot+ cold side). The piping shall be well supported at specific intervals with GI supports with insulated PUF saddles and installed on supported from wall / roof with anchor fasteners & angle.	60	mtrs		
	ii Supply & installation for additional Hilton insulated hard/soft copper refrigerant piping for split airconditioning complete with fittings, elbows, bends, supporting arrangement on 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 wall type unit will be measured beyond 3mtrs of each unit.	30	mtrs		
4	<b>CONTROL CABLING FOR CASSETTE AC UNIT</b>				
	Supply, installation, testing & commissioning of the control cabling from indoor to outdoor unit .& from indoor to outdoors unit and from outdoor to central controller 3cX2.5 sq. mm. shielded communication copper cable(Polycab/RR/Havells)	70	mtrs		
	ii <b>CONTROL CABLING FOR SPLIT AC UNIT</b>				
	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 for 1.5TR highwall type unit(3cX1.5 sq. mm.) (Polycab/RR/Havells)	40	Mtr		
5	<b>DRAIN PIPING FOR CASSETTE &amp; SPLIT AC UNIT</b>				

	i	Rigid PVC Drain water piping work for CSSETTE AC of 25/32 mm PVC/HDPE hard pipes covered with Hitlon insulations, complete with fittings, bends, elbows, tees wall sleeves, hangers, supports, anchors Multi run between indoor to drain.	40	Mtr		
	ii	Drain water piping work for HIGH WALL AC of 20 mm PVC/HDPE hard pipes covered with Hitlon insulations, complete with fittings, bends, elbows, tees flanges, tappings, wall sleeves, hangers, supports, anchors	40	Mtr		
6	i	M. S. Epoxy Painted Stand for Cassette Outdoor Unit complete fabricated with C - Channel / MS Angle etc. with safety railing/ladder if required..	5	Nos		
	ii	M. S. Epoxy Painted Stand for Split Outdoor Unit complete fabricated with C - Channel / MS Angle etc. with safety railing/Grill if required..	5	Nos		
7		Core Cuttings & filling the same with cement and access	2	Nos		
8		Supply & Installation of Digital Timer Switch alongwith suitable size enclosure box for signage, etc. including power circuit wiring of (3x2.5 Sq.mm) FRLS flexible wires laid through PVC conduit directly taken from DB/Power point including all necessary hardware & accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	1	Nos		
9		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 trenching work if required.	1	Job		
10		Supplying and erecting fully automatic line Voltage stabilizer, buck and boost type for operation on input voltage 170 to 260 V and output voltage 200 to 250 V rated for, 4 kVA maximum load and with voltmeter, selector switch, 6A/16A flush type 3 pin socket for output and with 3 core flexible cord and 3 pin 6/16 A plug top suitable for Air Conditioner of 1.5 TR, and marking Sr. No. and date of erection	5	No.		
		<b>SECTION 'B' TOTAL</b>				
<b>ANNEXURE</b>						
					TOTAL OF HIGH SIDE-A	
					TOTAL OF LOW SIDE-B	
					GRAND TOTAL (A+B) (Excluding GST)	
					GST ON SIDE A( 28%)	
					GST ON SIDE B( 18%)	
					Total after GST	