

**Project: proposed Renovation of SAM office for Indian Bank at 7th Floor,
Mittal Chamber, Nariman Point, Mumbai- .**

Budgetary Cost Estimate (Air Conditioning work) R

SR.No	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
A	Spit Air conditioners :				
	Desige & supply of Air cooled split type A.C. system of 3star Branded make (Voltas or Blue Star or Carrier) comprising wall mounted/ ceiling suspended indoor air handling unit, outdoor condensing unit (with scroll/ Rotary compressors), isolating valvs, thermostatic control, safety cutouts,and vibration isolation pads etc complete as per drg, details and instruction incl. Maintenance/ service till defect liability period and warranty (one year) pl note that the necessary civil work including making good also included.Machine shall be 3				
1	Supply of Hi Wall 2.0TR	3.0	No		
2	Supply of Hi Wall 1.5TR	0.0	No		
3	Supply of Hi Wall 1.0TR	2.0	No		
	Total of A		Rs.		-
	Add: 28% GST as applicable				
B	Low Side Work:				
1	Refrigeration Piping:				
	Installation & commissioning of hard/ soft copper refrigeration piping of approved thickness, complete with tubular sleeve insulation of nitryle rubber, fitting, elbows, bends, supporting arrangement on walls, ceiling, cable trays/ trenches. * pl note that 3 mt along with Machine not be considered in piping measurement.(Standard length of 4 m supplied with unit not to be considered) Rate to include insulation cost CIVIL WORK required for cheasling/ cutting/ making holes in walls/RCC slab and redoing to original with cement & sand				
1.1	HI wall Split (12.5mm dia)	110.0	Rmt		
2	Drain Piping:				
	Insulated condensate water drain piping constructed out of PVC/ HDPE hard pipes, Fitting, Accessories, bends, tees, Flanges, tappings, wall sleeve, hangers,supports, anchors, fastners, complete. Make- Finolex, Prince Rate to include insulation cost CIVIL WORK required for cheasling/ cutting/ making holes in walls/RCC slab and redoing to original with cement & sand				
2.1	32 mm nom. Dia	80.0	Rmt		
3	Electrical cabling;				
	providing and laying electrical cabling makes: polycab, finolex or eqv. * pl note that 5 mt along with Machine not be considered in cabling measurement.				
3.1	Supply, Installation, Testing & Commissioning of Power Cabling between outdoor Unit & Supply Point near the indoor unit (3core 4 sqmm single phase)for HI Wall	128.0	Rmt		
4	Frame work: (MS Cage with Locking Arrangement)				

	Supply, Fabrication and installation of MS base frame for indoor & outdoor units complete with epoxy painting, vibration isolation pads, supports, hanger, railing, brackets etc. complete as per site condition and Unit requirement. Note: apply 2 coats of epoxy primer & 2 coats of Black paint. MS Cage made out of 12 x 12 sq Bar with 6" c/c grid both ways with locking arrangement, complete. M/s Godrej make padlock 5 levers locks are to be supplied provided by the contractor for each cage. The top surface of the MS grill box to be fixed/ covered with Aluminium sheet as				
4.2	outdoor unit (2TR/ 1TR HI Wall split)	5.0	No		
4.3	Realigning Existing MS Cage as per site requirement using old/ new material, finished with red oxide and oil paint, ensuring Locking arrangement is must., complete as per instruction.	4.0	No		
5	Timers:				
	supply, installation, testing & commissioning of 12 hourly sequential timers along with the necessary wiring/ cabling for timed operation of the stand - By Ac units Make: L/T	1.0	No		
6	Testing and commissioning:				
	supply, installation, commissioning & Pressure Testing of the entire system upto 350 PSI, and holding the same for minimum 48 Hours. Flushing the system, Refrigerant Gas Charging in the system and final commissioning of the system comprising indoor and outdoor condensing unit with nitrogen pressure testing, vacuumizing and gas Topping up				
6.3	HI Wall split Unit	5.0	No		
7	Remove carefully existing hi wall split ac unit, install, commissioning and testing as per Layout. complete as per instruction & site condition.	4.0	No		
	Total of B		Rs.		-
	Sub total (A+B)		Rs.		-
	Add: 18% GST as applicable				