

BILL OF QUANTITIES FOR AIR CONDITIONING WORKS

S.N.	DESCRIPTION	QTY	UNIT
	VENTILATION & AIR CONDITIONING		
A	HIGH SIDE WORKS (SUPPLY OF EQUIPMENTS)		
1	DX TYPE SPLIT AIR-CONDITIONERS:		
	Supply of Aircooled Split type Ductable Airconditioners comprising Floor Mounted / Wall mounted / Ceiling Suspended Indoor Air Handling Unit, Outdoor Condensing unit (With Scroll / Rotary compressors), isolating valves, thermostatic control, safety cutouts, (condensor mounting stand excluded) and vibration isolation pads including supply & laying of suitable size power cable for connection from AC machine upto electrical power socket point in case of single phase supply / upto MCB in case of three phase supply including termination of machine's power cable into MCB with suitable size glands including all necessary hardware & accessories, etc. & as per the height & locations approved at site complete as required & directed by Client / Architect / Consultant. Approved Makes for AC Equipments: Blue Star, Carrier, Hitachi & Daikin.		
1.1	4.0 TR CASSETTE AC	1	NOS.
1.2	3.0 TR CASSETTE AC	1	NOS.
Rate in words :-			
1.3	1.5 TR HIGH WALL (3 star rated)	2	NOS.
Rate in words :-			
1.4	1 TR HIGH WALL (3 star rated)	3	NOS.
Rate in words :-			
	TOTAL OF SUPPLY ITEMS - (A)		
B	LOW SIDE WORKS (INSTALLATION OF HVAC SYSTEM)		
1	REFRIGERANT PIPING		

	Installation and Commissioning of hard / soft copper Refrigerant piping of Approved Thicknesses, complete with Tubular Sleeve Insulation of nitrile Rubber, fittings, elbows, bends, supporting arrangement on walls, cable trays / trenches including required civil works such as chiesling of wall, wall openings, slab core cutting if required, required size cut outs & recementing & making surface uniform including all necessary hardware & accessories, etc. complete as required & as per the instructions & directions given by the site engineer / architect / consultant / client.		
	{Ref. Piping Standards:}		
	* In case of Hi Wall Split Type AC / Cassette Type AC, The 5.0 RMT of Refrigerant Piping shall NOT be considered in the Piping measurements.		
	* Chiesling (Wall Openings, cut-outs, etc) and recementing required for the Copper / Drain piping for AC units shall be included in the Piping Rates.		
1.1	4.0 TR CASSETTE AC	35	RMT
Rate in words :-			
1.2	3.0 TR CASSETTE AC	30	RMT
Rate in words :-			
1.3	1.5 TR CASSETTE AC	45	RMT
Rate in words :-			
1.4	1 TR HIGH WALL	55	RMT
Rate in words :-			
2	FRAME WORK		
	Supply, Fabrication and Installation of "L - Bracket Type" MS base frame for Indoor & Outdoor units complete with epoxy painting, vibration isolation pads, supports, hangers, railing, brackets etc. Note: Apply 2 coats of epoxy primer and 2 coats of black paint.		
	* In case of Single Indoor Unit having Multiple Condensors: 1 MS Frame for Multiple Condensors Combined shall be accounted as 1 frame.		
2.1	CASSETTE AC	2	NOS.
Rate in words :-			
2.2	HIGH WALL	5	NOS.

Rate in words :-			
3	DRAIN PIPING		
	Insulated Condensate Water Drain piping constructed out of PVC / HDPE hard pipes, fitting, accessories, bends, elbows, tees, flanges, tappings, wall sleeves, hangers, supports, anchors Fastners.		
3.1	40 mm nom. Dia	80	RMT
Rate in words :-			
3.2	25 mm nom. Dia	80	RMT
Rate in words :-			
4	ELECTRICAL CABLING		
	Providing and laying electrical cabling Makes: Polycab, Finolex, RR Kabel, Havells.		
	* In case of Hi Wall Split Type AC, The 5.0 RMT of Electrical Cabling shall NOT be considered in the measurements.		
4.1	Control Cables For Cassette AC Units - Between Indoor Unit to Outdoor Unit	90	RMT
Rate in words :-			
4.2	Control Cables For Hiwall AC Units - Between Indoor Unit to Outdoor Unit	90	RMT
Rate in words :-			
5	INSTALLATION, TESTING & COMMISSIONING		
	Installation, Testing & Commissioning of Aircooled Split type Ductable Airconditioners comprising Indoor Air Handling Unit and Outdoor Condensing unit with Nitrogen Pressure testing, Vaccumizing and Gas Topping up. (Item includes removing & reinstallation of OLD AC machines if any)		
5.1	4.0 TR CASSETTE AC	1	NOS.
Rate in words :-			
5.2	3.0 TR CASSETTE AC	1	NOS.
Rate in words :-			

5.3	2.0 TR CASSETTE AC	2	NOS.
Rate in words :-			
5.4	1 TR HIGH WALL	3	NOS.
Rate in words :-			
	TOTAL OF LOW SIDE (INSTALLATION ITEMS) - (B)		

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