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**BILL OF QUANTITY FOR AIR-CONDITIONING WORKS AT : LEARNING & DEVELOPMENT CENTRE, AGRA**

S. NO.	Description	UOM	Qty.	RATE (Rs.) (Excl. GST)	AMOUNT (Rs.) (Excl. GST)
1	Variable Refrigerant Flow System side discharge				
	Supply of Variable Refrigerant Flow type multi unit air-conditioning system with R410A Refrigerant complete with indoor and outdoor units with individual controller for cooling & heating type operations. <b>TOP DISCHARGE</b>				
	<b>MAKE : -( VOLTAS, BLUE STAR, MITSUBISHI, DAIKIN)</b>				
1.1	<b>Outdoor Unit</b>				
	Supply of Modular type outdoor units equipped with highly efficient scroll compressors, with <b>ALL 100% Inverter Scroll Compressors</b> , special heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting, with capacities as mentioned below:				
a.	<b>28 HP HOT AND COLD SYSTEM</b>	Nos.	2		
	<b>TOTAL - 56 HP HOT AND COLD SYSTEM</b>				
2.1	<b>Indoor Units</b>				
	Supply of Indoor units equipped with pre-filter, fan section with low noise fan, multispeed motor, coil section with DX coil, outer cabinet, drain pan, insulation, pipe connections etc. of various capacities as per specifications and drawings				
1	<b>VRF 4-WAY CASSETTE</b>				
a	1.3 TR	Nos.	1		
b	1.5 TR	Nos.	2		
c	3.0 TR	Nos.	6		
d	4.0 TR	Nos.	4		
2	<b>REFNETS</b>	Nos.	13		
3	<b>REMOTES</b>	Nos.	13		
4	<b>REFRIGERANT PIPING</b>				
	Supply, installation, testing and commissioning of Interconnecting refrigerant pipe work with (13/ 19mm thick) closed cell elastomeric nitrile rubber tubular insulation between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with hangers and all external piping with UV coating shall run in cable tray.				
	<b>BRAND- MANDEV , RAJCO</b>				
5.1	06.35 mm	RMT	250		
5.2	09.52 mm	RMT			
5.3	12.70 mm	RMT			
5.4	15.88 mm	RMT			
5.5	19.05 mm	RMT			
5.6	22.22 mm	RMT			
5.7	28.58 mm	RMT			
5.8	31.8 mm	RMT			
5.8	34.92 mm	RMT			
6	<b>TRANSMISSION &amp; CONTROL WIRING</b>				
	Providing & fixing control cum transmission wiring in medium duty PVC Conduit between indoor and outdoor units.				
	2C x 1.5 Sqmm Copper Sealed Cable.	RMT	350		
	<b>BRAND- ANCHOR , HAVELLS , FINOLEX, POLYCAB.</b>				
7	<b>Perforated GI Tray with hangers &amp; supports for copper piping</b>				
7.1	150 mm Wide	RMT	50		
7.2	250 mm Wide	RMT	80		
8	<b>DRAIN PIPING</b>				
	Providing & fixing rigid UPVC piping complete with fittings, supports as per specifications and pre insulated with 6mm thick closed cell elastomeric nitrile rubber tubular insulation.				
8.1	25 mm dia	RMT	50		
8.2	32 mm dia	RMT	100		
9	<b>Core Cutting.</b>	NO'S	10		
9.1	Dain pipe Wall Chiselling.	MTR	20		

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10	Installation, testing & commissioning of floor mounted top discharge type outdoor unit & Indoors Unit each with VRF system <b>R-410 GAS</b> . (FRF/FLORON)	Kg	42		
11	Litting, shifting, loading, unloading of AC Units.	job	1		
GRAND TOTAL WITHOUT GST					
IN WORDS:					