

TO  
**CANARA BANK**  
 CIRCLE OFFICE, 71, NEHRU NAGAR  
 M. G. ROAD, AGRA.  
**BILL OF QUANTITIES / ESTIMATE FOR FIRE FIGHTING & ALARMING SYSTEMS**  
**OF CIRCLE OFFICE, RAJENDRA CENTRE, SIKANDRA, AGRA.**

S.NO	Description of items	Quantity	Unit	Rate	Amount in RS
1	<b><u>Variable Refrigerant Flow System side discharge</u></b>				
	Supply of <b>Variable Refrigerant Flow</b> type multi unit air-conditioning system with <b>R410A Refrigerant</b> complete with indoor and outdoor units with individual controller for cooling & heating type operations. <b>TOP DISCHARGE</b> <b>MAKE : -( VOLTAS, HAIRE, BLUE STAR , MITSUBISHI,DAIKIN)</b>				
1.1	<b><u>Outdoor Unit</u></b> Supply of <b>BLUE STAR</b> 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.	5		
b	<b>140 HP HOT AND COLD SYSTEM</b>				
2.1	<b><u>Indoor Units</u></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	0.8 TR	Nos.	0		
b	1 TR	Nos.	3		
c	1.5 TR	Nos.	4		
d	1.7 TR	Nos.	2		
e	2 TR	Nos.	6		
f	2.3 TR	Nos.	5		
g	2.8 TR	Nos.	3		
h	3 TR	Nos.	4		
i	3.2 TR	Nos.	2		
k	4 TR	Nos.	14		
l	5 TR	Nos.	0		
5	<b>REFNETS</b>	Nos.	52		
5.1	<b>REMOTES</b>	Nos.	43		

## 6 REFRIGERANT PIPING

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.

### BRAND- MANDEV , RAJCO

6.1	06.35 mm	RMT	
6.2	09.52 mm	RMT	
6.3	12.70 mm	RMT	
6.4	15.88 mm	RMT	
6.5	19.05 mm	RMT	600
6.6	22.22 mm	RMT	
6.7	28.58 mm	RMT	
6.8	31.8 mm	RMT	
6.9	34.92 mm	RMT	

## 7 TRANSMISSION & CONTROL WIRING

Providing & fixing control cum transmission wiring in medium duty PVC Conduit between indoor and outdoor units.

7.1	2C x 1.5 Sqmm Copper Armoured Cable.	RMT	700
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### BRAND- ANCHOR , HAVELLS , FINOLEX

7.2	Perforated GI Tray with hangers & supports for copper piping		
	150 mm Wide	RMT	300
	250 mm Wide	RMT	300

## 8 DRAIN PIPING

Providing & fixing rigid PVC 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	180
8.2	32 mm dia	RMT	220
8.3	40 mm dia	RMT	

## 9 Core Cutting.

9.1	Dain pipe Wall Chiselling.	NO'S	50
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Installation, testing & commissioning of floor mounted top discharge type outdoor unit & Indoors Unit each with VRF system **R-410 GAS**. (STERLING)

10		MTR	150
		HP	140

11	Litting,shifting , loading,unloading of AC Units.	job	1
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Total  
GST

**GRAND TOTAL**

**Say Rs**