

**COMMON MANAGEMENT UNIT
CENTRAL WAREHOUSE**

Bill of Quantities

AIR CONDITIONING SYSTEM

SR. NO	DESCRIPTION	QTY	UNIT	Make	Model	Capacity	UNIT RATE	AMOUNT
1	Supply & Installation of DX Coil Air Handling Units, including Condensing Unit, equipped with VFD, Plug Fan, G-4 and F-9 filters, matching VRF Condensing Unit, Kits & Accessories, complete in all respect, as shown on drawings and as directed by the engineer incharge.							
i	AHU - 1 with VRF	6	No's					
ii	AHU - 2 with VRF	2	No's					
iii	AHU - 3 with VRF	2	No's					
iv	AHU - 4 with VRF	1	No's					
V	AHU - 5 with VRF	1	No's					
vi	Essential Spares Parts	1	Lot					
2	Supply & Installation of L-Type Copper Piping for all VRF AHUs, complete with fittings, 19mm thick insulation with aluminum vapor barrier and taping, fittings and joints, complete in all respect. Copper Pipe sizes shall be provided by supplier / manufacturer through software selection	1	Lot					
3	Supply, fabrication, and installation of G.I. duct work, using prime quality Z-275 coated sheet metal including all hangers & supports and all tees, bends, reducers, elbows, turning vanes, and splitter etc. complete as specified in the specifications, shown on the layout drawing and standards drawing and as directed by the engineer in charge.	#NAME?						
i	Gauge 26	500	Sq. Ft.					
ii	Gauge 24	19708	Sq. Ft.					
iii	Gauge 22	69030	Sq. Ft.					
4	Supply & Installation of fiberglass insulation, 25 kg/m ³ density & 2" thick, complete with glue, 8 Oz canvas, bending strips, fire-proof, water-proof & anti-rat paint, as specified, complete in all respect.	88738	Sq. Ft.					
5	Providing and installing extruded anodized aluminum powder coated air devices, as shown on the drawings and as directed by the engineer in charge.							
i	Jet Diffusers (Sizes as per drawings)	23500	Sq. In.					
ii	Grills & Registers	56880	Sq. In.					
iii	Volume Control Dampers - 16 SWG	30100	Sq. In.					
iv	Fire Dampers - 14 SWG	40500	Sq. In.					
6	Supply & Installation of Cold Storage Refrigeration Units of capacity 10 TR each, complete with necessary accessories and hanging arrangements, as shown on drawings, and as directed by the engineer incharge.	4	No's					
7	Supply & Installation of Exhaust Fans for Toilet spaces, complete with hanging supports, duct connections, vibration isolators and necessary fittings, complete in all respect.							
i	EXF - 1	2	No's					
ii	EXF - 2	2	No's					
8	Extra Gas charging if needed.	1	Lot					
9	Supply, installation, testing and commissioning of Cooling System-Building Management Unit-BMU including individual control and manual over ride control-MOR, having GUI interface control module with GPRS/ Wifi module to control locally and remotely including software and training to client representative, making the job complete in all respect.	1	Job					
10	Provision of GI made sleeves for wall openings, with fire stopping and water resistant treatment, complete in all respect.	1	Lot					
11	Provision of Shop Drawings & As-Built Drawings	1	Lot					
12	Testing & Commissioning of the complete System	1	Lot					
13	Supply, Installation testing and commissioning of Electrical Main Control Panels (MCC) complete in all respect as per Drawings, Technical specification, Equipment Schedule and as directed and approved by the Engineer Incharge.	1	No.					

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14	Supply , Installation testing and commissioning of following ACPs(Apparatus Control Panels) complete in all respect as per Drawings, Technical specification, Equipment Schedule and as directed and approved by the Engineer Incharge.							
i	ACP-01	1	No.					
ii	ACP-02	1	No.					
iii	ACP-03	1	No.					
iv	ACP-04	1	No.					
V	ACP-05	1	No.					
vi	ACP-06	1	No.					
vii	ACP-07	1	No.					
viii	ACP-08	1	No.					
ix	ACP-09	1	No.					
x	ACP-10	1	No.					
xi	ACP-11	1	No.					
xii	ACP-12	1	No.					
15	Following size of 16 SWG G.I. sheet covered cables trays i/c joints bents moutain brackets hanger complete with all accessories							
i	18"x4"	100	Mtr					
ii	12" x 4"	450	Mtr					
iii	06" x 4"	300	Mtr					
16	Providing and laying of following LT PVC /PVC non armored copper conductor cable 600 / 1000 Volt grade laid in pre laid PVC conduit / on cable trays as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends complete in all respects.							
i	1-C 300 sqmm PVC/PVC stranded 600/1000 volts copper conductor cable.	2461	Rft.					
ii	4-C 120 sqmm Cu/PVC/PVC stranded + 1-C 70 sqmm Cu/PVC as ECC.	350	Rft.					
iii	4-C 95 sqmm Cu/PVC/PVC stranded + 1-C 70 sqmm Cu/PVC as ECC.	200	Rft.					
iv	4-C 70 sqmm Cu/PVC/PVC stranded + 1-C 70 sqmm Cu/PVC as ECC.	150	Rft.					
V	4-C 50 sqmm Cu/PVC/PVC stranded + 1-C 35 sqmm Cu/PVC as ECC.	450	Rft.					
vi	4-C 35sqmm Cu/PVC/PVC stranded + 1-C 16 sqmm Cu/PVC as ECC.	350	Rft.					
vii	4-C 25sqmm Cu/PVC/PVC stranded + 1-C 16 sqmm Cu/PVC as ECC.	250	Rft.					
viii	4-C 16sqmm Cu/PVC/PVC stranded + 1-C 16 sqmm Cu/PVC as ECC.	200	Rft.					
ix	1-C 70 sqmm Cu/PVC as ECC.	500	Rft.					
x	Providing and laying of 0.75mm Sq 2 core PVC insulated and pVC Sheathed 300/500 V copper conductor shielded cable.	1	Lot					
	Note:							
17	It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.							
18	Civil works for indoor and outdoor units including Following 1- Foundations for AHUs and outdoor VRF units 2- Sealing the openings of the building by construction or closing viods and holes wiht concrete 3- Double insulation of the main doors 4- Drain system of the condensate from eveporator 5- Reflective Insulation painting of the top roof closing and all openings of the exhasust holes 6- Other repairs may be required relating to cooling system work 7- Provision of False ceiling on the whole roof of the warehouse, where the cooling system to be installed. 8- Foundation for diesel generator (if required)		Lump sum					

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	Total Amount							-

Bank Name

2% Bid Security

Instrument No.