GENERAL CONDITIONS FOR HVAC CONTRACTOR BIDDING

Auditorium (360 Seats) at MS-IDPT Building.

This note outlines the design intent and technical guidelines to be followed by the HVAC contractor while submitting the bid and executing the air-conditioning works for the 360-seat auditorium at MS-IDPT.

1 Project Details

Project Name:	MS – IDPT building
Location:	MTB Campus , Athwalines , Surat
Auditorium Size:	19.7 M X 24.27 M
Area :	478.1 sq. mt.
Capacity:	360 seating

2 Design Intent and Coordination

The air-conditioning system for the auditorium has been conceptually planned by the Architect considering spatial planning, acoustic performance, and integration with the interior design. The contractor shall strictly follow the Architect's design intent, layout drawings, and instructions for detailing, routing, and installation of the AC system. All ducting, indoor unit placement, diffusers, grilles, and service access points shall be coordinated with the architectural and interior design drawings to ensure proper integration within the auditorium space.

3 Ducting System

To achieve uniform air distribution and maintain compatibility with the ceiling design, oval ducts shall be used for the supply air system wherever specified. The contractor shall ensure proper fabrication, insulation, sealing, and installation of ducts in accordance with standard HVAC practices and acoustic requirements suitable for an auditorium environment.

4 Capacity and Machine Configuration

Based on the available service spaces and preliminary load assessment, the VRF system configuration shall be considered as follows:

a. 3 Units – 16 HP
b. 2 Units – 12 HP
c. 4 Units – 5 HP

The contractor shall design the piping layout, zoning, and system integration in line with this configuration and manufacturer recommendations to ensure efficient performance.

5 Indoor Units, Return Air and Outdoor Units

a. Return air vents shall be carefully planned and coordinated with the ceiling design to ensure proper air circulation and acoustic comfort within the auditorium.
b. Indoor Units (IDUs) shall be installed within the designated AHU / service spaces as provided in the architectural layout.

c. Outdoor Units (ODUs) shall be installed at the suggested locations indicated in the drawings, ensuring adequate ventilation, accessibility for maintenance, and minimal visual disturbance.

6 Brand Options for Bidding

Contractors may submit quotations for one or more approved VRF brands, if they wish, as separate quotations for each brand. Each quote shall clearly mention the brand, model numbers, and technical specifications of the proposed system.

7 Scope of Work Included in Quotation

The contractor's quotation shall be comprehensive and inclusive of all necessary items required for complete installation and commissioning of the system, including but not limited to:

- All tools, tackles, and installation equipment
- Scaffolding and temporary supports required during installation
- Refrigerant piping, insulation, and fittings
- Duct fabrication, insulation, dampers, and accessories
- Electrical wiring, control cabling, and connections from panel to equipment
- Outdoor unit support structures / mounting frames
- Minor civil works, cutting, patching, and finishing required for installation
- Pre-installation protection and post-installation cleaning of the work area
- Testing, balancing, and final commissioning of the system

No additional claims will be entertained later for items required for the proper functioning of the system but not explicitly mentioned.

8 Shop Drawings and Technical Submittals

The contractor shall submit detailed shop drawings for approval prior to execution, including:

a. VRF piping layout
b. Indoor and outdoor unit placement
c. Duct routing and diffuser layout
d. Return air vent locations
e. Electrical and control schematics

All drawings shall be coordinated with architectural and structural drawings.

9 Compliance with Standards and Manufacturer Guidelines

All equipment, materials, and installation practices shall comply with relevant HVAC standards and manufacturer recommendations. Proper insulation, vibration isolation, drainage, and accessibility for maintenance shall be ensured.

10 Testing, Balancing and Commissioning

The contractor shall carry out complete testing, air balancing, and commissioning of the system to ensure uniform cooling and optimal performance within the auditorium. Necessary performance reports and commissioning documentation shall be submitted upon completion.

11 Warranty and Service Support

The contractor shall provide manufacturer's warranty for equipment and installation, along with details of the local service support team responsible for commissioning and post-installation service.

This note forms part of the bidding requirements, and the contractor shall ensure that the proposed system meets the functional, spatial, and performance requirements of the auditorium design. Any deviations or alternate proposals shall be clearly indicated and submitted for approval prior to execution.

PLACE :-

DATE :- **Stamp & Signature Of Contractor**