



राष्ट्रीय प्रौद्योगिकी संस्थान अरुणाचल प्रदेश
NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH

(शिक्षा मंत्रालय, भारत सरकार के तहत राष्ट्रीय महत्व का संस्थान)
(Institute of National Importance under Ministry of Education, Govt. of India)

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NIT/AP/Works-23/2025-26

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Date: 21/11/2025

EXPRESSION OF INTEREST (EoI)

For designing of VRF/VRV Air Conditioning System in Central Library Building National Institute of Technology Arunachal Pradesh, Jote.

1. Introduction

National Institute of Technology (NIT) Arunachal Pradesh invites Expression of Interest (EoI) from qualified and experienced consultants/agencies for the Design of a Variable Refrigerant Flow (VRF/VRV) Air Conditioning System for 1. Central Library & Computer centre 2. Data Center at NIT Arunachal Pradesh.

The purpose of this EoI is to shortlist competent in design and its execution HVAC design consultants/agencies who can prepare a complete, energy-efficient, cost-effective, and technically suitable VRF system design for the multi-floor Central Library building. The OEM and their authorized dealer can only participate.

2. Scope of Work

The scope of design shall include the following:

1. Site survey and assessment of the Central Library building.
2. Heat load calculation based on building architecture, occupancy, insulation, climatic conditions, and operational requirements.
3. Preparation of detailed VRF/VRV System Design, including:
 - a. Selection of outdoor and indoor units
 - b. Piping layout and sizing.
 - c. Refrigerant flow diagrams.
 - d. Control system design.
 - e. BMS/automation compatibility.
 - f. Power load estimation and electrical requirements
4. Preparation of detailed technical drawings, including:
 - a. HVAC layout.
 - b. Piping routes and drain layouts
 - c. Locations of outdoor units, AHUs (if any), controllers, etc.
5. Preparation of complete technical specification document for future tendering.
6. Preparation of BOQ (Bill of Quantities) for supply, installation, fixing, and commissioning.
7. Cost estimation based on approved VRF model (OEM-neutral).
8. Support during tendering, including technical clarifications (if required).
9. Submission of:
 - a. Hard copy (2 sets)
 - b. Soft copy (AutoCAD drawings, PDF, Excel BOQ)

3. Eligibility Criteria

Consultant/Agency must meet the following criteria:

1. Must be an HVAC Consultant / Engineering Firm with at least 5 years of experience in designing HVAC systems, preferably VRF/VRV systems.


21/11/2025
सुलेखासिंह/Registrar
राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश
National Institute of Technology
Arunachal Pradesh, Jote

2. Must have completed at least:
 - a. One similar HVAC design work for a building area 8000 sq. meters, OR
 - b. Two similar HVAC design works for buildings 4000 sq. meters.
3. Must have valid GST registration and PAN.
4. Should have technically qualified personnel (Mechanical Engineer/HVAC Specialist).
5. Must not be blacklisted by any government or PSU.

4. Documents to be Submitted:

Applicants must submit the following documents:

1. Profile of the firm/consultant.
2. Details of relevant past projects (with completion certificates).
3. CVs of key technical personnel.
4. GST and PAN copies.
5. Methodology for VRF design (brief concept note).
6. Any recommendations or initial observations after site inquiry (optional).
7. Declaration of non-blacklisting.

5. Site Visit

Interested Supplier may visit the Central Library building on working days before 05.12.2025, with prior intimation to the institute. This will help in understanding building layout, structural limitations, power availability, and installation feasibility. Reference drawing is attached.

6. Submission Procedure

The EoI should be submitted in sealed envelope superscribed:

“EoI for Designing of VRF/VRV System – 1. Central Library & Computer centre 2. Data Center at NIT Arunachal Pradesh” and addressed to: The Registrar National Institute of Technology Arunachal Pradesh Jote, Papum Pare District Arunachal Pradesh – 791113

Last date of submission: 15.12.2025.

7. Evaluation Criteria

The evaluation shall be based on:

- Relevant experience in HVAC design
- Technical capability and manpower strength
- Quality of past project documentation
- Initial understanding and approach
- Institutional experience and credibility

Shortlisted applicants may be invited for a technical discussion or presentation.

8. Institute's Rights

NIT Arunachal Pradesh reserves the right to:

- a. Accept or reject any or all EoIs without assigning any reason
- b. Modify or cancel this EoI
- c. Request additional information from applicants

Submission of EoI does not guarantee selection.



Registrar (i/c)
NIT Arunachal Pradesh

कुलसचिव/Registrar
राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश
National Institute of Technology
Arunachal Pradesh, Jote