



योजना तथा वास्तुकला विद्यालय, विजयवाड़ा
School of Planning and Architecture, Vijayawada
An Institute of National Importance, Ministry of Education Gov. of India

Ref.No.09/SPAV/Hostels/24-25

Date:17.02.2025

NOTICE INVITING QUOTATIONS

The School of Planning and Architecture, Vijayawada, invites sealed quotations from eligible State/Central Government contractors, GST-registered agencies, vendors, bidders, or firms for the following work, as per the details provided below:

Name of the Work: Proposal for Structural Feasibility Study for providing additional floors to the Student Hostel Buildings at the School of Planning and Architecture, Vijayawada, Sy No. 4/4, ITI Road, Vijayawada – 520008.

SCHEDULE OF ITEMS

| S. No | Item Description | Unit | Rate in Rs (Including GST). |
|---|---|------|-----------------------------|
| 1. Structural Feasibility Study for Providing Additional Floors to the Student Hostels: | | | |
| a. | The Boys Hostel comprises the North Block and South Block, each with G+3 floors and a total floor area of 11,704 Sqm. | L.S | |
| b. | The Girls Hostel consists of Ground + 3 floors, with a total floor area of 4,995 Sqm. | L.S | |
| Total Amount | | | |

The NIQ along with the terms and conditions can be obtained from the Institute's website in the tender section at www.spav.ac.in.

Essential Documents to be Submitted:

1. Proof of Experience:

The bidder/vendor/agency must submit documentation showing at least 10 years of experience in the structural design of high-rise buildings for reputable government or private organizations.

2. Tax Documentation:

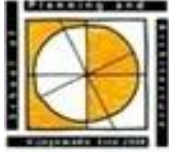
The vendor/firm must submit the IT returns for the last three years.

3. Tax Certifications: GST Registration Certificate, PAN Card, Company Registration Certificate

Scope of Work for Structural Feasibility Study

1. Understand the Project

- Objective: The goal is to see if the existing hostel buildings can safely support extra floors. This will involve checking the buildings' strength and identifying any needed fixes or updates.



- Clarify the Plan: How many extra floors are being added, and how will they be used (e.g rooms, lounges)

2. Visual Inspection of the Buildings

- Site Visits: Inspect the buildings in person to look for any visible problems, such as:
 - Issues with columns, beams, or walls
 - Condition of the floors, ceilings, and roof
- Document Findings: Note any signs of damage or weaknesses that might affect adding new floors.

3. Review Original Building Plans

- As per Original Plans: Review the building's original design documents/plans to understand how it was built and what the load-bearing capacity was.
- Check the Structure: Look at details like materials used, the size of key elements (columns, beams), and load-bearing capacity to see if it can support the extra weight.

4. Structural Analysis and Modelling

- Estimate Additional Loads: Calculate how much more weight the building will need to support the extra floors (e.g., additional people, furniture, etc.).
- Create a Model: Use computer software i.e. STAD pro /ETABS/CYPEECAD to simulate how the building will behave with the added weight.
- Check Load Capacity: Assess whether the current structure can handle the extra load or if strengthening is needed (e.g., stronger columns, beams).
- Deflection Check: Ensure that adding floors won't cause excessive bending or sagging in the building.

5. Material Testing and Non-Destructive Testing (NDT)

- Test Building Materials: Check the materials used in the building (like concrete and steel) to see if they're still strong enough to support more weight.
- Non-Destructive Testing: Use special techniques that don't damage the building to check for hidden issues, such as cracks inside walls or under floors.

6. Check the Foundation and Soil Conditions

- **Assess the Foundation's Strength:** Review the original building design and assess whether the foundation can support the additional weight from the extra floors. Look for any signs of weakness, such as:
 - Uneven settlement or parts of the building sinking.
 - Shifting or tilting of the structure, which could indicate foundation movement.
 - Any signs of water damage or deterioration that might weaken the foundation



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- **Soil Testing:** If necessary, test the soil under the building to ensure it can support the added weight. This may involve digging small holes and testing the soil's strength.
 - **Foundation Strengthening:** If the foundation is not strong enough, find out what needs to be done to make it stronger (e.g., adding supports or reinforcing the base).

7. Recommendations for Modifications or Repairs

- **Suggested Changes:** Based on the study, recommend what needs to be fixed or reinforced to add the extra floors safely. This may include:
 - Adding stronger columns or beams
 - Reinforcing the foundation
 - Adding walls or braces for stability
- **Material Recommendations:** Suggest the best materials to use for the new floors (e.g., lighter materials that won't add too much weight).
- **Cost and Time Estimate:** Provide an idea of how much the repairs and additions will cost and how long it will take to complete the work.

8. Final Report and Presentation

- **Report:** Create a clear report summarizing all findings, including any problems, necessary fixes, and estimated costs.
- **Presentation:** Submission of the structural feasibility report to SPAV.

Terms & Conditions:

- The sealed quotations must be submitted via registered/speed post or reliable courier services to the Registrar, School of Planning and Architecture Vijayawada, Survey No.4/4, ITI College Road, Vijayawada-520008, Andhra Pradesh, India by **5:00 PM on 28.02.2025**.
- The sealed covers should be superscribed with the name of the work and the address of the agency quoting rates, addressed to "The Registrar, School of Planning and Architecture, Vijayawada"
- Blank NIQ documents for quoting rates can be downloaded from the Institute website: <https://www.spav.ac.in/Tenders>.
- The vendor/firm/bidder shall submit all the essential documents as mentioned above. Based on the submission of these documents, the committee will evaluate the vendors. In case of failure to submit the required documents, the vendor/bidder will be rejected, and they will have no right to claim or proceed with the further process.
- Rates shall be inclusive of all applicable taxes, expenses, and responsibilities as stated above, and no extra payments will be made.
- Sealed quotations must be submitted with a covering letter (neatly typed) on the contractor's /vendor/firm letterhead.



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- The vendor/firm should clearly mention the name of the work, address of the agency, PAN, and GST Number on their letterhead.
- Payment Terms:

Payment shall be made as per the successful completion of various stages of work as mentioned below and on submission of GST tax Invoice. No advance amount shall be made/admissible. Payment shall be made after deduction of applicable taxes.

| Stage No. | Brief of Activity | % of Fee payable on completion of stage |
|------------------|--|--|
| 1. | Site Visited and Study | 5% of Quoted amount |
| 2. | After submission of necessary test reports, analysis, and modelling reports | 20% of Quoted amount |
| 3. | Submission of Preliminary report i.e. modifications/suggestions/financial implications, etc. | 50% of Quoted amount |
| 4. | Submission of the Final Structural Feasibility Report. | 25% of Quoted amount |

- The competent authority reserves the right to accept or reject the whole or part of the quotations.

Contractor Sign with Name & Address