

School of Planning and Architecture, Vijayawada (SPAV)
(An Institute of National Importance, Ministry of Education, Govt. of India)

Notice Inviting Quotation (NIO)

(03/SPAV/ARCH/HIMUDA/2024/04)

Sealed quotations in two parts are invited from Structural Design Agencies for SPAV's Consultancy Project – **Office cum Commercial Complex in Shimla, Himachal Pradesh**. The scope of work includes structural design and vetting of structural drawings from NIT/IIT as specified by SPAV.

Essential Qualifications of Bidder

- The bidder agency must have a minimum of 10 years of experience in preparing structural drawings for government, semi-government, or reputed private clients/organizations, as well as in getting these drawings vetted by other structural expert agencies or institutions.
- The bidder must also have a minimum of 5 years of filed income tax returns and an active GST number.
- The firm should have a team of dedicated and qualified structural engineers capable of delivering the services outlined in the scope of work provided below. The team head must have at least 10 years of experience and be supported by a qualified team of structural engineers who can work exclusively and diligently on this project.

Project Details

- **Location:** Shimla, Himachal Pradesh
- **Total Site Area:** 7,500 sqm (Approx.)
- **Built-up Area:** Approx. 40,000 sqm in two blocks and its premises
- **Building Height:** 2 blocks of 14 storeys
- **Terrain:** Hilly and sloping design

The proposed design scheme includes buildings with RCC framed structure with cast-in-situ columns, beams and slabs to suit the approved/ finalized architectural drawings. The buildings are multi-storey buildings with floors at different levels, as per various architectural drawings. The buildings shall be as per the Architectural requirement for civil and structural works, standard specifications, relevant I.S. codes and local regulations.

Scope of Services

Structural Concept Development:

Development of the overall structural concept, considering site-specific conditions and project requirements for various load calculations. The design and detailing shall be conforming to relevant IS codes.

Structural Calculations and Load Distribution Analysis:

Detailed calculations for load distribution, structural stability, and performance.

Structural Design:

Preparation of structural designs adhering to relevant ISI codes, supported by a comprehensive report including drawings, calculations, and justifications for structural vetting by another agency.

Structural Drawings:

Preparation of detailed structural drawings, covering:

- Structural components, shear walls (if any), and non-structural components.
- Excavation plans, site layout drawings, and ancillary structures such as water tanks, boundary walls, gates, and lifts/escalators.
- Coordination with plumbing and electrical drawings for all floor levels.

Preparation and submission of structural analysis with load moment chart for the entire structural components like walls, columns, beams, slabs, staircase, tanks etc. along with duly proof checked and signed structural drawings and other details as follows-

- 1) layout of structure,
- 2) foundation and plinth beams details,
- 3) details of columns,
- 4) floor wise details of slabs, beams, including terrace slab,
- 5) details of sloping roof design, staircase & mummy etc.

Boundary Wall and Stream Channelization Design:

Structural design and drawings for the boundary wall, gate, and stream channelization on-site.

Quantity Estimations:

Estimation of quantities for all structural components.

Structural Estimates:

Preparation of cost estimates for structural components based on the design.

Concrete Mix Design:

Tailored concrete mix designs for various building components.

Seismic Considerations:

Incorporation of seismic resilience and structural integrity measures based on site-specific geotechnical reports and local conditions in Shimla's hilly terrain.

Supervision for Key Stages:

Supervision during critical construction stages, including:

- Centerline drawing and retaining wall alignments.
- Cutting of contours with retaining wall alignments, showing terraces of flat ground for marking and excavation of footings.
- Marking of columns and retaining walls.
- Footings, plinth beams, and columns center marking.
- Beams and slabs for each construction stage.
- Terracing slabs and water tank designs.

Vetting of Structural Drawings:

Structural drawings must be vetted by a recognized institution such as an NIT or IIT, as identified by SPA Vijayawada. The Designer shall have to submit the basic design data, load and assumptions required to be made in the design for approval. The Design and drawings shall be checked by the competent authority and the designer shall have to incorporate all such instructions by him and Project Coordinator, if any. These drawings shall be submitted in original, duly proof checked and signed by the structural designer and proof checking authority, 6 (Six) copies each in A1/A0 size paper and soft copy (AutoCAD format) including the structural analysis both in soft

(STAAD/ ETABS model etc.) with hard copies and detailed estimate complete and get the same signed by competent authority and the same shall then be submitted to the HIMUDA, all complete for the Project mentioned in scope of services/NIQ document.

Note:

The structural design must prioritize seismic resilience and account for other local factors specific to Shimla's hilly terrain. SPA Vijayawada reserves the right to cancel this process at any stage without prior notice.

Expected Enclosures: (To be submitted in sealed envelope no 1)

1. Experience certificate of 10 years and above
2. Previous 5 Years Tax Returns and Tax registration certificates (Active GST)
3. List of key personnel with their qualifications and experience.
4. List of similar projects completed in the past (Preferably)

✓ **All the documents mentioned above are mandatory and are to be placed in the Technical Bid Envelope. They should be duly signed and pages numbered.**

Evaluation of NIQ:

- A. After opening of technical bid, the documents submitted by bidder(s) in envelope – 1 as enlisted in the NIQ shall be put up to the Tender Committee. The Tender Committee will examine the submitted documents as per NIQ. If it confirms to all of the information/ a declaration submitted by the bidder and does not change the eligibility status of the bidder then the bidder will be considered eligible for opening of financial bid.
- B. It is the responsibility of Bidders to submit legible/ clearly readable signed copy of all the required documents mentioned in expected enclosures of NIQ.
- C. The tender will be evaluated on the basis of documents submitted by bidder(s). Any other document submitted by the bidder after opening of tender will not be given any cognizance in evaluation of tender.
- D. In case bidder(s) fails to submitted essential documents as (B) above, their/his bid shall be rejected.
- E. The date and time for opening of price bid shall be informed to the bidder(s) through telephone/mail. Successful bidder(s) are requested to be present during opening of financial bid.
- F. In case none of the bidder(s) complies the technical eligibility criteria as per NIQ, then bidder(s) will be rejected and re-tender (if required) will be done (with the same or different scope, as per the instant requirement).

Registrar

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This notice is issued with the approval of the competent authority.

Issued by:

School of Planning and Architecture, Vijayawada
Date: 27/01/2025