

School of Planning and Architecture, Vijayawada (SPAV)
(An Institute of National Importance, Ministry of Education, Govt. of India)
Quotation for Electrical, Plumbing & Fire Fighting Design consultancy for
Office cum Commercial Complex in Shimla, Himachal Pradesh.
(03/SPAV/ARCH/HIMUDA/SER/2024/004)

Sealed quotations are invited from firms, consultancy agencies, and service providers with a minimum of 5 years of experience in building services work for multi-storied buildings, commercial complexes, or office-cum-commercial complexes for SPAV's consultancy project – **Office-cum-Commercial Complex** in Shimla, Himachal Pradesh.

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 broad works to be performed:

Electrical Design-

1. Load Calculations for every floor and external lighting etc.
2. Electrical Zones with in the floor-Vertically and horizontally.
3. EDB's and MDB's including metering Rooms.
4. General Lighting, power switches, Fans, Exhausts, Alarms/Hooters, AC Points and Lighting plan. Location of switches and sockets, internet WIFI and provision of CCTV.
5. Earthing, Bus Bars, HT Room, Generator set and Solar compatibility.
6. Entire cabling network plan from source to all ends.
7. Safety Measures, Security systems and Energy saving and monitoring systems.
8. Comprehensive estimates covering each floor and external landscape lighting/security lighting.
9. Specifications and quantities.
10. Automation provision for external and internal electrical services.
11. Transformers/Step-up's etc. as required.
12. Preparation of permission documents.
13. Outdoor landscape lighting and power networking
14. Supervision and Certification.
15. Supervision and Commissioning.
16. Any other items as required.

The information such as Drawings and broad specifications showing lights, fans, Cassette AC markings, Switch boards and any other items felt necessary as per discussions with your electrical engineers, will be supplied by the Project co-ordinator, SPAV

Plumbing Design- The design must be prepared based on load and quantity analysis to ensure the following:

1. Plumbing layout
2. Sanitary layout
3. Internal sanitary systems
4. External sewerage system
5. Rain water piping and rain water harvesting tank capacity and design
6. External landscape drains and water supply
7. Fire fighting tank capacity and design
8. Water treatment scheme

9. Sewage treatment plant
10. RO Plants
11. Specifications and quantities.
12. Supervision and Commissioning.
13. Any other items as required.

Fire Fighting Design-The design is to be prepared based on the occupancy/load as per the drawings provided to ensure the following:

1. Compliance with National Building Code (NBC) of India 2016, Part 4 (Fire and Life Safety) and Local fire department and municipal bylaws.
2. Design of fire water storage tanks with the required capacity.
3. Design of hydrant networks (external and internal hydrants) for full coverage. Fire extinguishers (types, quantity, placement)
4. Design of sprinkler systems for all habitable and utility spaces, including quick-response sprinklers for office floors.
5. Design of smoke detectors for all habitable spaces and heat detectors for high-risk areas (e.g., kitchens)
6. Design of a centralized fire alarm system with audible and visual alarms across the building.
7. Design of fire lifts with independent power supply, ensuring accessibility and capacity for evacuation.
8. Design of emergency lighting for escape routes and critical areas.
9. Design of mechanical pressurization systems for staircases and lift shafts.
10. Design of diesel generator backups for firefighting systems, alarms, and lighting.
11. Specifications and quantities.
12. Supervision and Commissioning.
13. Any other items as required.

Cost Analysis-

1. Comparison of market rates for materials, labor, and equipment for all the works including civil works.
2. Cost variations based on location, vendor, and supply chain conditions
3. Cost comparison for different quality materials and systems from local market.
4. Escalation factors (inflation, labor rates, etc.)
5. Budgeting for unforeseen costs and contingencies
6. Preparation of request for proposal (RFP) document

The Total built-up area of Block A and Block B approximately 42000 sqm, all the floor drawings, Sections and specifications will be supplied for preparation of detailed estimates.

The quotation may cover the above said items mentioned in general, particularly the following:

Total compliance of the Electrical, Plumbing, Fire safety Services

1. Preparation of Electrical, Plumbing and Firefighting detail network drawings on the basis of the Supplied drawings and specifications and discussion with the co-ordinator and HIMUDA.
2. The estimate covers the all-electrical, Plumbing and Fire related items covering internal and all external services as per design including landscape and discussions with the Project co-ordinator and HIMUDA.
3. Plumbing Design for complete site.
4. Fire Fighting Design
5. Cost Analysis

Sealed quotations must be submitted through Speed Post, Registered Post, or any courier service. Quotations should be sent within **05/02/2025** and the Duration for completion of electrical/plumbing/fire-fighting design and estimates is 35 days from issuing the work order.

Please send the **expected enclosures and dully filled prescribed quotation** as attached in sealed cover to the following address:



Registrar

School of Planning and Architecture, Vijayawada.
Survey No.4/4, ITI Road, Vijayawada-520008, Andhra Pradesh, India.
Phone: +91-866-2469 446
Email: registrar@spav.ac.in

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

Issued by:

School of Planning and Architecture, Vijayawada
Date: 21/01/2025