

## Engr. Zaryab Ali

Email: [engr.zaryabali@hotmail.com](mailto:engr.zaryabali@hotmail.com)

Mobile: +923060479469

Country of stay: Pakistan

Member: Pakistan Engineering Council

**Key Skills:** Structural design of various institutional, commercial, industrial and residential Projects

### PROFESSIONAL SUMMMARY

I am working as Lead structural engineer at Hisel Power. Under the umbrella of seniors, I am getting good experience and skilled knowledge about handling a project, structural drawings, BOQ (bill of quantities), & design reports. Furthermore, I have functional knowledge of designing structures of Mega projects on ETABS, SAP2000, SAFE. I am motivated individual who is committed to delivering the highest quality service in challenging environments and have ability to work independently.

### CORE COMPETENCIES AND SKILLS

- **Designing & Analysis:** Have sound knowledge and experience in designing and analyzing the design structure on software (ETABS, SAFE, and SAP2000) and by hand calculations.
- **BOQ & Estimation:** Have experience in dealing with bill of quantities, cost estimation, and tendering system for initializing the project.
- **Construction Drawings:** Have experience about draft the construction drawings according to design and have experience to manage the draughtsman.
- **Microsoft Office:** Excellent skills of Microsoft office (Word, Excel, Power Point & Outlook)
- **Administrative and Management Skills:** Able to manage the project planning, construction site, labour, setting up mile's stones, dealing with deadlines of task individually or in a team.

### ACADEMIC RESEARCH & ACHIEVEMENT

- **Academic Research:** My academic research was about how to lower the temperature of concrete without compromising the compressive and flexural strength of concrete. I successfully achieved this by adding the EPS in lightweight concrete by replacing coarse aggregate in partial ratios.
- **Young Leaders Program:** I took part in young leaders' program, initiated by HEC Pakistan; I represented the department of civil engineering from my university.

### PROFESSIONAL EXPERIENCE

#### A. LEAD STRUCTURAL ENGINEER

(SEP 2019 – JAN 2020)

##### HISEL POWER

Lahore, Pakistan

As a lead/Head structural engineer, I managed to propose a structural design, estimation, execution and construction phase of different solar steel structure projects.

#### Industrial Projects:

- 1 MW at Honda atlas, Manga Mandi, Lahore

#### Institutional & Commercial Projects:

- 1 MW at National University of Science and Technology, Islamabad

**Responsibilities / Duties:**

- Worked in a fast-paced environment and work under tight deadlines, while maintaining high quality standards.
- Evaluates potential project locations for site suitability, based on the site's geotechnical conditions, hydrology, topography, and other relevant characteristics to inform PV System Design.
- Preparation of conceptual and formal design drawings to specific standards and client requirements, including design drafting ensuring that projects are completed to time and budget.
- Travels to perform site assessments and due diligence field work throughout the Pakistan in support of project bids, environmental studies, surveying, and construction activities.
- Designs PV system including selecting racking/mounting equipment, designing access roads, drainage plans, performing relevant calculations, erosion prevention, and other tasks throughout the design and construction process.
- Provide system drawing sets in AutoCAD for purposes of bidding, permitting, and construction in accordance design standards.
- Prepares and/or evaluates technical specifications for Conc. foundation designs, Steel Structure design and construction site plans from contractors.
- Manages procurement in running RFPs and managing installation, civil sub-contractors.
- Remains up-to-date on new technologies and regulatory conditions including building codes, fire codes, utility requirements, vendor qualifications, industry best practices, safety standards, and relevant standards development.
- Prepare Bill of Quantities for different industrial, residential and commercial project with back-end calculations.

**B. JUNIOR CIVIL/STRUCTURAL ENGINEER  
DESIGN MATRIX****(OCT 2016 – SEP 2019)  
Lahore, Pakistan**

As a junior structural engineer, I assist my seniors for managing the structural designs, project planning, and construction management decision. Salient **Structural Design** projects are given as following.

**Institutional & Commercial Projects:**

- Buch International Hospital, Multan
- CSD Shopping Mall (Masood Anwari, Lahore)
- Galaxy Shopping Mall, Lahore
- DHA Junior Campus, Sector W, Phase-VIII, DHA Lahore (Area=250,000 sft)
- DHA Girls School/ College, Block- 1A, Sec I, Phase-XI (Rahbar), DHA Lahore
- DHA Kinder Garten (Pre School) Block- F, Ph- XII (EME), DHA Lahore
- DHA Boys School, Block-1B, Ph-XI (Rahbar), DHA Lahore
- Rising Sun Institute, Sector-XX, DHA Lahore (Area=50,000 sft)
- Gulab Devi Hospital, expansion in Allah Hu Ward design (Area=17,000 sft)
- DHA Masjid, Phase-V, DHA Lahore
- Dr. Sajid Family Hospital, Nankana

**Residential Projects:**

- Design and rehabilitation of various residential projects
- Rehabilitation of Army headquarters, Lahore

**Industrial Projects:**

- Design of SNGPL, LPG Air Mix Plants at Kohat (Distribution and storage Plants)
- Design of SNGPL, LPG Air Mix Plants Gilgit (Distribution and storage Plants)
- Design of various Office blocks and Warehouse buildings for Mitchells Fruit Farms Renala Khurd.

**Responsibilities / Duties:**

- Worked in a fast-paced environment and work under tight deadlines, while maintaining high quality standards.
- Prepare drawings and specification detailing the Civil System designed.
- Involved in procurement and execution of finishing of **Buch International hospital**.
- Prepare inspection and design reports and presentation materials.
- Performs construction administration and field investigation tasks for assigned projects including document management and Change Orders.
- Assist PM, senior designer and/or senior engineer in the on-going determination of project scheduling requirements, manpower requirements, and project budgets.
- Participate in internal and external meetings and document discussions.
- Gather information from stakeholders makes studies, performs calculations, and prepare original rough layouts and sketches as required.
- Prepare Bill of Quantities for different industrial, residential and commercial project with back-end calculations.
- Perform routine tasks under general supervision using well-defined standards, procedures and codes.
- Coordinate work with engineers of other disciplines and architects.
- Perform product research; assist project designers and project architects with materials selection and system research.
- Design new or existing civil components and systems to develop or improve them.

**C. INTERNEE ENGINEER  
NESPAK. PVT. LTD.**

**(AUG-2016 TO SEP-2016)  
Lahore, Pakistan**

**Responsibilities / Duties:**

- Worked on Orange Line project planning, structural designing and construction management.
- Coordination (with local and foreign consultants, contractors, site staff).
- Checking and implementation of structural and architectural drawings, procurement of construction and finishing materials.
- Use computer-assisted drawing tools to design structures
- Directed activities to ensure compliance with environmental regulations.

**EDUCATIONAL BACKGROUND**

**Bachelor's in Civil Engineering**  
University of Lahore

**2018**  
Lahore, Pakistan.

CGPA

3.6/4

### **SOFT SKILLS**

- Proactive
- Communication skills
- Dedicated to work
- Problem solving
- Presentation skills
- Work independently
- Adaptability of change
- Languages: English, Urdu
- Passionate