

M. ATHAR IQBAL

MS STRUCTURAL ENGINEERING



CONTACT:

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SOFTWARE SKILLS:

- Microsoft Office Suite
- Auto CAD
- CSI Sap2000
- CSI Etabs
- Revit
- SE-Column
- Primavera p6
- DeepXcav
- RocScience Slide 6.0
- Adobe Illustrator
- Adobe Photoshop

ACHIEVEMENT/MEMBERSHIP

- Kennedy-Lugar YES-Program Alumni USA (2011- 2012)
- Pakistan Engineering Council (CIVIL/50196)

PROFESSIONAL PROFILE

Civil Engineer with experience in Design and Construction of Concrete Structures (Dams, Tunnels, Pavements, Bridges, Power Houses) Throughout my career, I have been responsible for Structural Designing, Inspections and management of site construction works and contractors.

AREAS OF EXPERTISE

Strong skills in structural designs, US codes/standards, Management, Technical writing and Interpersonal skills. Professional expert in Microsoft Office, Autocad, Revit, Etabs, Sap2000 & SAFE.

EDUCATION

Masters in Structural Engineering (2020~Present)

National University of Sciences & Technology, NUST

Bachelor of Civil Engineering (2018)

National University of Sciences & Technology, NUST

Major: Design of Concrete Structures & Steel Structures, Design & Construction of Earthen Dams

Final Year Project: Design of Soldier Piling using DeepXcav and Plaxis 2D.

PROFESSIONAL TRAINING

- *Project Management: Safety & Health*
- *Water Resource Management Seminar*
- *The Art of Structural Engineering: Bridges*
- *A hand-on experience of Engineering Simulation*

WORK EXPERIENCE

Organization: The Hub Power Company (Hubco.)
Position Held: Civil Engineer
Date: October 2020 – Presently
Project: 84 MW NBE-Hydropower, Mirpur, AJK

Job Responsibilities:

- Monitoring and reporting (Monthly & Annually) the structural integrity assessment of Spillway, Powerhouse, waterway tunnels, tailrace channel (7.5 km), syphons and Colony buildings.
- Remodeling and FEA analysis of structures after major Earthquake (5.8 magnitude) and installation of an earthquake early warning system.
- Installation of Monitoring system for increased vibrations from Turbine due to water swirling at intake.
- Proposal writing, quantity estimates and budgeting for Plant improvement projects.
- Treatment of seepages and cracks development inside the concrete structure.

Organization: DAELIM Industrial Company Limited
Position Held: Structural Engineer
Date: July 2018 – October 2020
Project: 102 MW Gulpur Hydropower, Kotli AJK

Job Responsibilities:

- Resolving Design related issues by re-consulting with the designer or re-analyzing the designed structures & Construction issues by revising structural drawings as per consultant's recommendations.
- Design of Concrete Structures including Water Pond, Retaining Walls, Rigid Pavements, pre-cast slabs and Design of steel structures like I-Beams, Bolts, HSS, form-work for slab, Brackets, C-channels and Steel checkered plates.
- Supervising CAD operators for drafting Structural drawings & BOQ for approval.
- Ensuring construction practices are done as per the standards/codes (ACI, EM, ASTM).
- Implementing civil drawings in coordination with M&E Team to ensure the designed compliance.
- Official Correspondence with Owner's Engineers in the form of technical comments & conference calls until approval.
- Review and approval of technical reports by supplier as per contract and testing reports.
- Monitoring of impounding activities from 1st stage till the last stage to observe any abnormalities in the process. It includes both site monitoring and response through correspondence with Owner's Engineers and operation of spillway gates.
- Initial water flow calculation and controlling of Radial Gates for water discharge from reservoir.
- Assisting commissioning process by setting up O&M procedures which link to civil part and submission of as-built drawings.
- Installation and checking of water inflow measurement system and Sedimentation Monitoring.
- Site inspections of all Hydropower Units ensuring reinforcement work at site complies with design drawings.
- Conscientious of HSE of all personnel and properties. Ensure that company's HSE procedures practices are strictly adhered to.

Inspection of Structures:

- Inspection of reinforcement according to Design Drawing and BBS in various structures including Weir, Intake, Slabs (up to 2 meters), Spillway, Pavement, Girders.
- Inspection of Pre-tensioning, post-tensioning & diversion tunnels concrete plugging activities.

Reports Writing:

- Pre-Tensioning of Bridge Girders in Method Statement of Work.
- Post-tensioning work's method Statement and Final report of completion addressing issues and remedies.
- Pre-fabricated debris collection boom comparison, benefits and its end support structural analysis.

REFERENCES

Kim, Si Chul (Charles)

P.E Civil Engineering Structures

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