



## Muhammad Kamran

Civil Engineer; Pakistan Engineering Council No. (CIVIL-33096)

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Gender; Male | Date of birth; 28.02.1990 | Nationality: Pakistani

### Professional Experience

I am a Civil Engineer with twelve years of experience with Consultant and contractor, gained while working on notable projects, including the mega project 4500 MW Diamer Basha dam , 48 MW Jagran –II Hydro Power Project, Remodelling of Warsak canal System Peshawar & 164 Km Jaglot skardu Road. I am a dedicated professional with the ability to leverage my past experience to drive success and committed to continuous learning and excel both independently and as a group member.

### Academic Qualification

2012 to 2015

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**Master of Science in Civil Engineering, (CGPA 3.29)**

CECOS University of Engineering and Technology, (Pakistan)

2012 to 2015

**Bachelor of Science in Civil Engineering**

CECOS University of Engineering and Technology, (Pakistan)

2006 to 2008

**Higher Secondary School Certificate**

Army Burn Hall College , Abbottabad

2004 to 2006

**Secondary School Certificate**

Army Burn Hall College , Abbottabad

### Areas of Expertise

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- Conduct comprehensive constructability reviews of issued construction drawings to verify feasibility, identify potential execution challenges, and recommend practical solutions to ensure safe, efficient, and practical solution as per the technical specifications.
  - Review IFC drawings against the tender drawings to identify deviations, assess their impact on scope and cost, and proceed with the initiation of variation proposals where applicable
  - Involved in preparing comprehensive design proposals, encompassing concept design and methodology for construction.
  - Expertise in preparation & implementation of method statements in align with the project specification , drawings and site feasibility .
    - Buildings & Roads
    - Open Excavation & support works
    - Underground excavation & support works

- Dam Pit Excavation
- Involved in RCC (Roller Compacted Concrete) preparatory works, developing knowledge of RCC. Involved in preparation of construction methods for RCC.
- Expertise in verbal/written correspondence with the Consultant on technical matters to ensure timely resolution of design and construction issues
- Conduct technical reviews of shop drawings for various structures to verify compliance with IFC drawings and technical specifications

## Professional Experience

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Diamer Basha Dam (4500 MW hydro power Project) Frontier Work's Organization and Power China JV – Pakistan. **(Aug 2020 to till date)**

A Roller Compacted Concrete gravity Dam located in district Diamer, Pakistan having contract value of approx. 15 Bn USD. The project scope contains Roads, bridges, Residential colonies, coffer dam, dam abutment, Diversion, flushing & power tunnels, dam pit Excavation. Dam wall & spill way with approximately 17 million cum of RCC. The dam wall height is 272 m and upon completion it will be the highest RCC concrete gravity dam in the world.

### **Manager Technical Section ( Sep 2022 to till date)**

#### **Roles and Responsibilities**

- Review construction drawings to assess their feasibility for execution in accordance with site conditions and requirements
- Prepare technical proposals for modifications to construction drawings to enhance constructability
- Review drawings to identify any deviations from the tender drawings and initiate necessary Variation Orders or related submissions as required
- Participate in preparing design change proposals and submit technical reports for Consultant/Engineer approval
- Prepare construction methodologies for various structures in compliance with project drawings, specifications, and relevant international standards
- Expert in developing construction methodologies of the following structures as per project specifications and international standards

- Building works
- Roads excavation & support works
- Road pavement structure
- Open excavation and support works for dam abutment
- Underground excavation & support works for tunnels & chambers
- Open excavation for dam pit
- Demonstrate strong verbal and written communication skills and effectively communicate with the Consultant on technical matters
- Involved in reviewing shop drawings to ensure compliance with project drawings and design specifications
- Possess a strong understanding of the contract and actively participate in resolving contractual matters related to site execution
- Actively participated in understanding the fundamental concepts of RCC and involved in planning, including the development of trial methodologies

### **Incharge QAQC ( Aug 2020 to Sep 2022)**

#### **Role and Responsibilities**

- Preparation and Implementation of project quality plan
- Preparation and implementation of inspection test plan
- Approval of construction materials
  - Reviewing pre-submittal documents from vendors
  - To check the material specification as per requirement of technical specifications
  - Submission of report for approval
- Preparation of comprehensive reports for approval of Concrete & aggregate batching plant in compliance with the project specification
- Supervision of construction material inspections arriving at site.
- Conduct weekly site visits including ware houses and compilation of site reports
- Close coordination with contractor and consultant to address any quality deviation during construction
- Engaged on weekly quality meetings with the consultant
- Preparation of quality management dash board and monitoring of contractor performance in term of KPI's

- Submission of method statement for repair and rectification of QAOR's & NCR's
- Coordination with consultant for rectification and to close QAOR & NCR
- Official correspondence with consultant regarding quality matters
- Preparation of method statement for civil works including buildings, roads, open & under ground excavation.
- To ensure works are being executed as per
  - Approved drawings
  - Approved method statement
  - Approved material
- Inspection of manufacturer's for source and product approval of construction materials
- Ensured proper upkeep of the following documents
  - IR,s
  - MIR
  - MAR
- Involved in conducting External third party Audits at diamer basha dam.
- Compilation of monthly progress reports
- Preparation and maintaining dash boards for material approvals, QAOR,NCR,MIR, IR and MAR.
- Routine visits to crush plant, batching plant and laboratory to ensure quality control

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### **Technical Engineer** ( Jan 2019 to Aug 2020)

Jaglot Skardu Road ( 164 Km Road , 31 Billion PKR), Frontier Work's Organization (FWO) – Pakistan

Jaglot Skardu Road is located in Gilgit Baltistan, Pakistan having a contract value of 31 Billion PKR. The project scope contains 164 Km road works includes excavation works, Bridges, Retaining/Breast Walls etc

### **Roles and Responsibilities**

- Overall responsibility of structural works
- Routine visits to site to solve any issues related to implementation of drawings
- Coordination with design team to resolve site issues

- Implementation & monitoring of project execution plan
- Review and approval of project execution plan of under command units
- Construction material approval of prestressed bridge accessories
- Coordination with consultant and client for site visits
- Coordination with head office of the company regarding progress
- Checking of monthly reports of under command units
- Meetings with under command units and head office regarding progress
- Site visit to identify any defect/ non conformance
- Meeting with consultant and client to discuss progress and site issues
- Preparation of monthly progress reports for submission to head office

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### **Junior Engineer ( Aug 2015 to July 2018)**

Nepak – Electra JV Consultant at Remodeling of Warsak canal in Peshawar ( 12 Billion PKR )

Warsak canal is originated from warsak dam situated in district warsak Peshawar having a contract value of approx. 12 Bn. The scope of work includes tunnel, aquaduct, syphon, pre-stressed bridge, culverts & gravity and lift canal system for district Peshawar and nowshera.

### **Roles and Responsibilities**

- Supervision of all site activities as per drawings which includes pre-cast pre-stressed bridge, Aquaduct , Syphon and culverts.
- Ensuring quality of work as per project requirements, approved drawings and method statements
- Checking of site activities as per drawing and supervise concrete pouring
- Supervision of concrete pouring at site. Supervise the initial testing of fresh concrete.
- Supervision of concrete for pre-stress bridge including sub and super structure
- Supervision of concrete for pre-cast pre-stressed girders
- Supervision of stressing for bridge tendons and grouting of ducts

- To identify any substandard work and issue site note
- Inspection of construction materials arriving at site
- Inspection and approval of site activities as per WIR's
- To check & approve bar bending schedule
- Checking and approval of contractor daily progress reports
- Conduct site visit with client and seniors
- Preparation of daily and monthly progress report for submission to client
- To check contractor's monthly billing
- weekly meetings with contractor site team to resolve site issues

## Professional Technical Skills

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### 1. Software's

- Auto CAD 2D
- Ms Excel
- Ms Word
- Ms Power Point

## Achievements

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- Joined Diامر Bash Dam since the first day and part of the team which has initiated / established the system.p
- Part of first third party QAQC system Audit of Diامر Basha Dam.

## Professional Development / certifications

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- **International Management System**
  - Lean Six Sigma Green Belt
  - ISO 9001:2015 Lead Auditor Course
- **Tunneling Institution of Pakistan**
  - Tunnel Talk, Soft Ground Tunneling
- **Pakistan Engineering Council**
  - Chat GPT & Professional Integrity

## Reference

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- **Col Asif Riaz**  
Ex Project Director FWO Diامر Basha Dam  
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