

## COMPANY PROFILE



# DR. QAISAR ALI ASSOCIATES

*Structural Design Specialists*

### Contact Details:

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Website: [www.dqa.com.pk](http://www.dqa.com.pk)

### Address:

Islamabad Office:

11<sup>th</sup> Floor, ISE Tower, Blue Area, Islamabad.

Phone/ Whatsapp No.: (+92) 345 590 92 32

Peshawar Office:

First Floor, Liberty Mall, University Road, Tehkal, Peshawar

Phone/ Whatsapp No.: (+92) 301 880 28 93



## MISSION STATEMENT



*“To Provide the highest standard of optimized engineering solutions to the construction industry with commitment and integrity”*



## ABOUT CEO

The Chief Executive of the firm, Dr. Qaisar Ali, has been providing Structural and Earthquake Engineering services for the last **thirty years** both at the national and international levels.

- PhD (Structural Engineering)
- Member core group of **Building Code of Pakistan**<sup>1</sup>
- **30 years** of experience
- **1000+** delivered projects



**Engr. Dr. Qaisar Ali**  
*Chief Executive Officer (CEO)*

Dr. Qaisar has played a key role first in establishing and then in expanding the first-ever Earthquake Engineering research centre in Pakistan. He has vast multi-dimensional national and international experience. He served as an advisor on various research projects in the field of Structural and Earthquake Engineering dealing with the seismic response of reinforced concrete frames, unreinforced brick masonry buildings, stone masonry and Dhajji-Dewari traditional buildings. He is on the editorial board of several publications including the **World Housing Encyclopedia**, Earthquake Engineering Research Institute, USA<sup>2</sup>.

An extensive practical work exposure complimented by a strong academic background gives Dr. Qaisar Ali an unmatched insight into the behaviour of structures. He has remained a consultant to various govt. and non-govt., national and international organizations on structural and seismic design issues. He has developed several manuals on seismically safe construction for individuals involved in the construction industry.

<sup>1</sup> BCP-SP (2007): Building Code of Pakistan–Seismic Provisions. Pakistan Engineering Council, Islamabad.  
[https://www.pec.org.pk/building\\_code\\_pakistan.aspx](https://www.pec.org.pk/building_code_pakistan.aspx)

<sup>2</sup> World Housing Encyclopedia, EERI, USA:  
<http://www.world-housing.net/about/who-we-are/editorial-board>

# 1 INTRODUCTION

Dr. Qaisar Ali Associates (DQA) is a structural engineering consulting firm registered with Pakistan Engineering Council (**Reg. No. CONSULT/1665**). The firm has the capability of providing Structural & Earthquake Engineering services through its professional team which is competent enough to undertake any challenging task.

The DQA consulting firm is composed of dedicated professionals duly registered with the Pakistan Engineering Council (PEC). The key personnel involved in the firm has been providing the following advisory and consulting services to the Government, Semi-Government, NGOs and private organizations for more than 30 years:

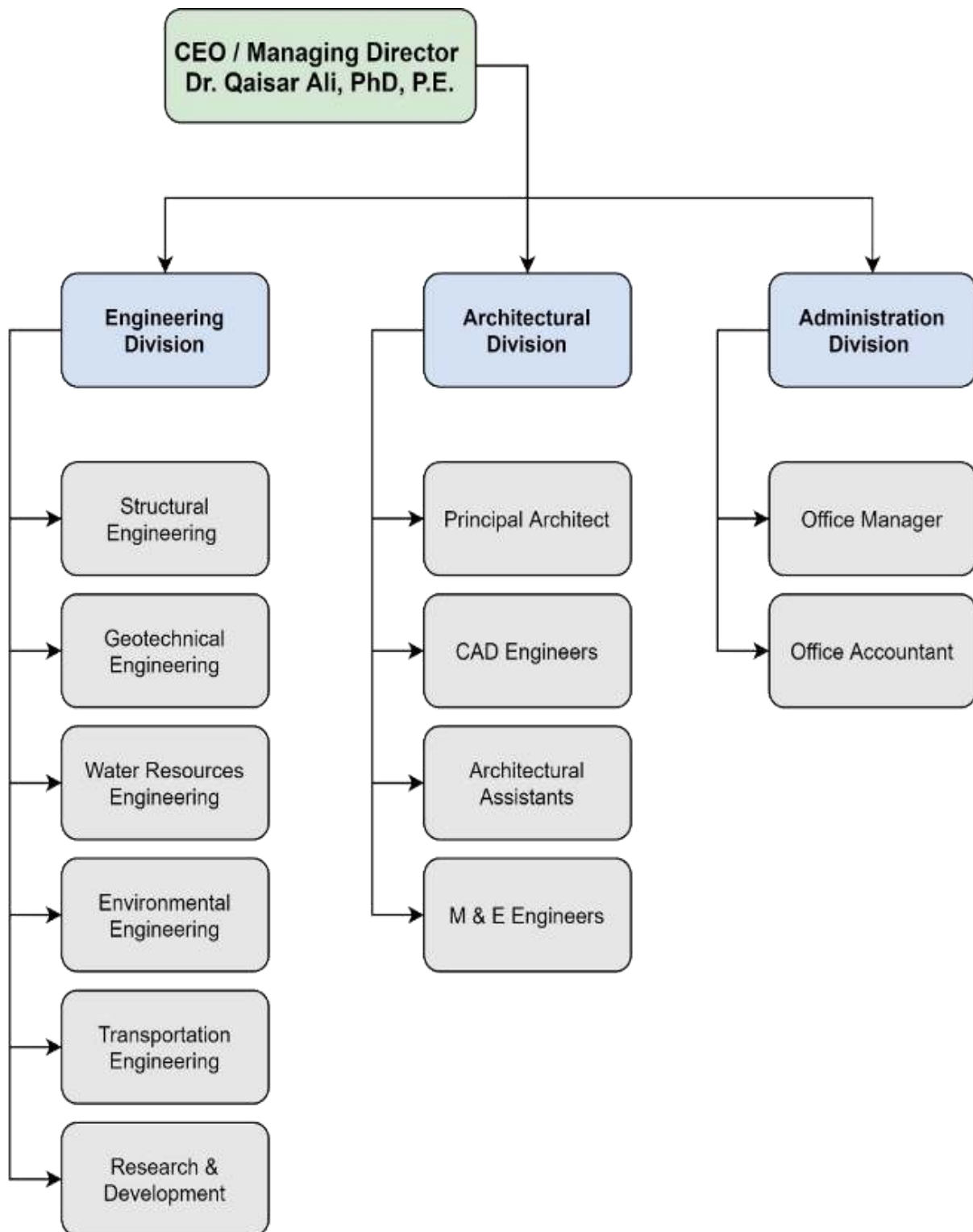
- Structural designs of new buildings including hospitals, schools, government buildings, administrative buildings etc., bridges, steel trusses, and retaining structures.
  - Earthquake-resistant design of structures and infrastructures.
  - Soil investigation and foundation designs.
  - Damage evaluation, in-situ nondestructive testing and destructive testing on structures for health monitoring.
  - Structural health assessment and retrofitting/strengthening of government buildings, hospitals and schools.
  - Capacity evaluation and strengthening of existing buildings for the construction of additional stories.
  - Preservation and strengthening of heritage buildings.
  - Construction work supervision
  - Preparation of BOQ, PC-I and tender documents
  - Project management consulting for the construction of buildings
  - Topographic, Hydrological, Geological and Socio-Economic Feasibility studies
-

- Urban/Town Planning and Design.
- Land surveying and GIS-based mapping.
- Architectural planning and designing, master planning and land development.
- MEP design of buildings
- Site-specific hazard assessment and retrofitting.
- Disaster risk management; assessment and mitigation.
- Environmental assessments and mitigation measures
- Capacity building of professionals through education and training, awareness and preparedness.

The DQA consulting firm has the capability of providing the aforementioned services through its professional team having a vast experience in their respective fields. The engagement of our team offers significant advantages including:

- The team has work experience with international development organizations and donor agencies in the field of construction management and has implemented several projects from inception to completion. For example, the IMC-UK, ADB-Nepal, GIZ-Germany, USAID, UNDP, World Bank, Mott MacDonald-UK, SDC-Switzerland, JICA-Japan and Church World Services, among others.
  - The team/firm has successfully completed projects in countries other than the business license company of its origin including Iran, Nepal and Afghanistan.
  - The team has professionals having state-of-the-art knowledge and research experience in structural engineering and specialized in designs, feasibility assessment, rehabilitation and retrofitting of vulnerable structures against natural/man-made hazards like earthquakes, floods, winds and blasts.
  - Experienced in understanding the behaviour of structures from field observations and experimental investigations, and numerical analysis
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## 2 FIRM ORGANIZATION:

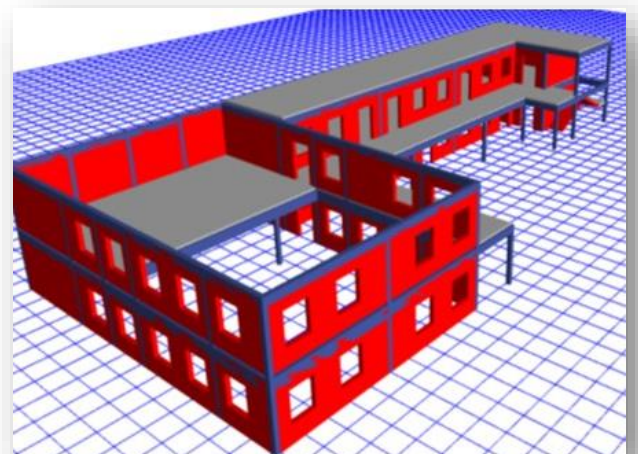




### 3 OUR SERVICES

The DQA consulting firm has been providing the following advisory and consulting services to the construction industry:

- ❖ Structural Designing
- ❖ Structural Design Vetting
- ❖ Structural Health Assessment
- ❖ Retrofit Design of Existing Structures
- ❖ Preservation & Strengthening of Heritage Buildings
- ❖ Construction Supervision
- ❖ Soil Investigation
- ❖ Foundation Designs
- ❖ Feasibility Studies
- ❖ Land Surveys
- ❖ Architectural Designing
- ❖ MEP Design
- ❖ Construction Services
- ❖ Technical and Advisory Services





## 4 KEY PERSONNEL

### 4.1 ENGR. DR. QAISAR ALI, PHD, P.E.

Dr. Qaisar Ali has been providing structural and earthquake engineering services for the last thirty years both at the national and international levels.

Dr. Qaisar Ali, is a Meritorious Professor at the Department of Civil Engineering and a Pro-Vice-Chancellor at the University of Engineering & Technology (UET), Peshawar, Pakistan. He has played a key role first in establishing and then in expanding the first ever structural and earthquake engineering research centre in Pakistan. He has vast multi-dimensional national and international experience. He is a member of various professional bodies including a core group working on the **Building Code of Pakistan – Seismic Provision 2007**<sup>3</sup>. He served as an advisor on various research projects in the field of structural and earthquake engineering dealing with the seismic response of reinforced concrete frames, unreinforced brick masonry buildings, stone masonry and Dhajji-Dewari traditional buildings. He is on the editorial board of several publications including the **World Housing Encyclopedia**, Earthquake Engineering Research Institute, USA<sup>4</sup>.

An extensive practical work exposure complimented by a strong academic background gives Dr. Qaisar Ali an unmatched insight into the behaviour of structures. Dr. Qaisar Ali has remained a consultant to various government and non-government, national and international organizations on structural and seismic design issues. His exposure varies from the structural design of buildings (schools, basic health units and multistory structures), bridges and underpasses, to structural design vetting, retrofit and site-specific seismic hazard assessment. He has developed several manuals on seismically safe construction for individuals involved in the construction industry.

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<sup>3</sup> BCP-SP (2007): Building Code of Pakistan–Seismic Provisions. Pakistan Engineering Council, Islamabad.  
[https://www.pec.org.pk/building\\_code\\_pakistan.aspx](https://www.pec.org.pk/building_code_pakistan.aspx)

<sup>4</sup> World Housing Encyclopedia, EERI, USA: <http://www.world-housing.net/about/who-we-are/editorial-board>

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## 4.2 ENGR. DR. MOHAMMAD ASHRAF, PHD, P.E.

Dr. Mohammad Ashraf has been providing consultancy services to various national and international public and private sector organizations for the last 25 years. Dr. Ashraf has a vast experience in the field of structural designs and vetting of buildings and bridges, structural health assessment, strengthening and retrofitting of existing buildings, geotechnical investigations, experimental testing, etc.



**Dr. Mohammad Ashraf (P.E)**  
*PhD Structural Engg (Pak)*

Dr. Ashraf developed a low-cost and efficient retrofitting technique for buildings utilizing indigenous materials and technologies. These techniques are now used in the repair and retrofitting of many public and private buildings including Govt Commerce College Mansehra, Swat Archaeological Museum, DHQ Swabi, school buildings in Bam (Iran) and many school buildings in Pakistan.

He has served as a principal design engineer in the Peshawar Uplift Program (PUP) funded by the International Organization for Migration (IOM) in structural health assessment of the IOM office building in Islamabad and a number of school buildings in Peshawar.

He has also served, as an in-charge/testing officer at Soil Mechanics and Highway Engineering Laboratory at the Department of Civil Engineering, UET Peshawar. He was responsible for designing geotechnical investigation plans, processing field and laboratory test data and preparation of geotechnical investigation reports.

Dr. Ashraf has a vast experience in shake table and quasi-static testing and data processing. Currently, he is serving as in-charge Structural Engineering Laboratory, Department of Civil Engineering, UET Peshawar.

### 4.3 ENGR. DR. NAVEED AHMAD, PHD, P.E.

Dr. Naveed Ahmad is a Professional Engineer specialized in the field of structural and earthquake engineering. He has efficiently utilized the country's largest laboratory having 1)- 6mx6m large and, 2)- 1.5mx1.5m small, shake tables and quasi-static cyclic testing facilities for experimental research on structural sub-assemblies and structures.



**Dr. Naveed Ahmad (P.E)**

*Post Doctorate (Stanford, USA)*

*PhD Str. & Eq. Engg (Italy)*

He has been actively involved in teaching and research and has been delivering consulting services both at the national and international levels. Some of his recent consultancy projects include the Asian Development Bank-funded project for structural design verification of earthquake-resistant school buildings in Nepal, through large shake-table testing; design and supervision of Model NC/VC Councils' offices in Nowshera and Kheshgi Payeen funded by the GIZ-Germany in Islamabad. He has contributed to a number of European Union-funded projects including SYNER-G and CASCADE under FP7.

Currently, he is involved in research including shake-table testing of full-scale and reduced scale models, quasi-static cyclic testing, development and application of structural analysis tools, seismic vulnerability and risk assessment, strengthening and retrofitting, and base isolation. He is a member of the Pakistan Engineering Council's core group for review/ updation of the building code of Pakistan. He is a recipient of the Higher Education Commission's Outstanding Research Award-2012 for best paper (Bulletin of Earthquake Engineering Paper). He is a member of the European Association of Earthquake Engineering (EAEE) and Earthquake Engineering Research Institute (EERI), USA.

## 5 TEAM

S. No.	Name	Designation	Qualification	Experience (years)
1	Dr. Qaisar Ali	CEO	PhD Structural Engg	30
2	Engr. Beenish Saleh	Manager Engg & Operations	B. Sc. Civil Engg	20
3	Engr. Fayyaz ur Rahman	Senior Design Engineer	M. Sc. Structural Engg	10
4	Engr. Muhammad Hamid	Senior Design Engineer	M. Sc. Structural Engg	07
5	Engr. Aamir Raza	Project Coordinator	M. Sc. Structural Engg	07
6	Engr. Sami Ullah	Design Engineer	M. Sc. Structural Engg	04
7	Engr. Obaid Ullah Mir	Manager Business Development	M. Sc. Earthquake Engg	04
8	Engr. Ejaz Ahmad	Manager Operations	M. Sc. Structural Engg	04
9	Engr. Irfan Ali	Design Engineer	M. Sc. Structural Engg	04
10	Engr. Waleed Hassan	Junior Design Engineer	M. Sc. Earthquake Engg	04
11	Engr. Maaz Bin Sajjad	Junior Design Engineer	B. Sc. Civil Engg	02
12	Engr. Asim Hassan	Junior Design Engineer	B. Sc. Civil Engg	01

S. No.	Name	Designation	Qualification	Experience (years)	Page   10
13	Engr. Shah Faisal	Junior Modelling Engineer	B. Sc. Civil Engg	01	
14	Engr. Miaz Sheraz	Junior Modelling Engineer	B. Sc. Civil Engg	01	
15	Mr. Zahid Nisar	Senior Draftsman	Diploma in (Civil)	26	
16	Mr. Subhan Ullah	Senior Draftsman	Diploma in (Arch.)	11	
17	Mr. Muneeb ur Rehman	Senior Draftsman	Diploma in (Civil)	10	
18	Mr. Zubair Khan	Senior Draftsman	B. Tech (Civil)	06	
19	Mr. Umair Shahzad	Junior Draftsman	B. Tech (Civil)	04	
20	Mr. Amin Awan	Junior Draftsman	B. Tech (Civil)	02	
21	Mr. Muhammad Umair	Junior Draftsman	Diploma in (Civil)	04	
22	Mr. Umar Khan	Junior Draftsman	Diploma in (Civil)	04	
23	Ar. Dildar Khan	Junior Architect	B. Sc. Architecture	01	
24	Mr. Khan Zameer	Accountant	BA	20	
25	Mr. Abdul Qadir	Lab Attendant	FA	02	



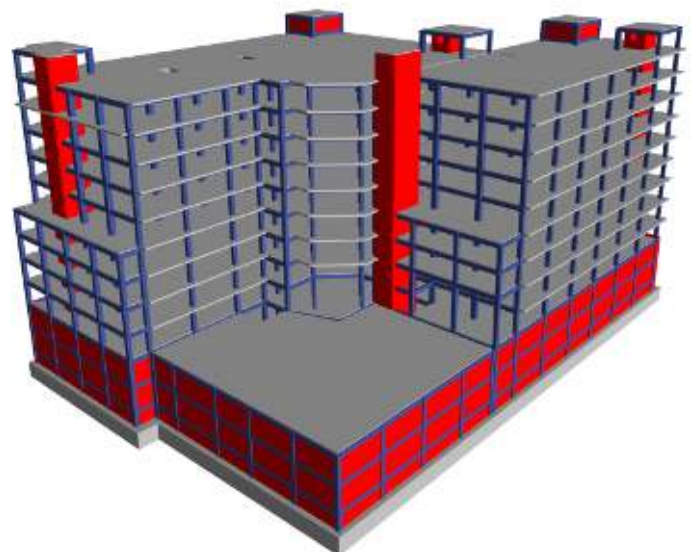
S. No.	Name	Designation	Qualification	Experience (years)	Page   11
26	Mr. Amir Zaman	Office Boy	Matric	10	
<b><u>Associated Staff</u></b>					
27	Dr. Rawid Khan	Senior Highway Engineer	PhD Transportation Engg	28	
28	Dr. Mohammad Ashraf	Senior Structural Engineer	PhD Structural Engg	25	
29	Dr. Naveed Ahmad	Senior Earthquake Engineer	PhD Earthquake Engg	17	
30	Dr. Awais Ahmad	Structural Engineer	PhD Structural Engg	16	
31	Dr. Shahid Ullah	Seismologist	PhD Earthquake Engg	15	
32	Dr. Adeel Arshad	Bridge Design Engineer	PhD Structural Engg	13	
33	Dr. Sikander Sajid	SHA Specialist	PhD Structural Engg	10	

## 6 ANALYSIS TECHNIQUES & TOOLS

Delivering a safe and economical design is the main challenge posed to a consulting firm. State-of-the-art rigorous finite element analysis procedures and tools are used at DQA to realistically quantify the demand on structural members. The data accrued from such analysis is subsequently used in proportioning structural members for safe and economical design in line with standard codes and practices. Depending on the complexity of the problem, several cycles of analysis are run before an optimized design is finally achieved.

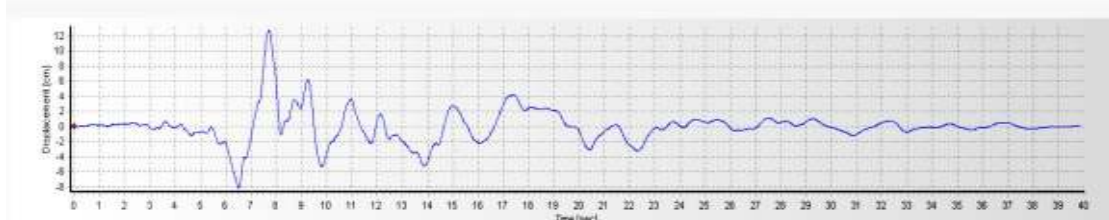
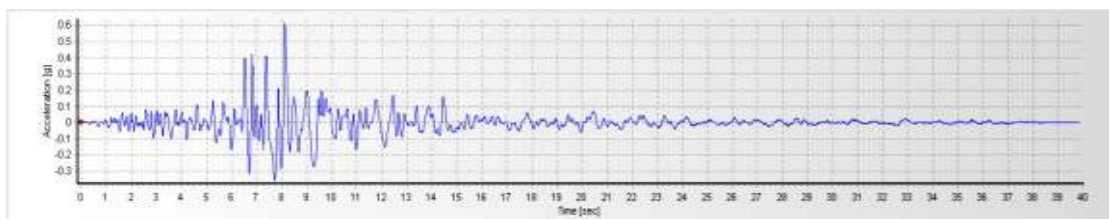
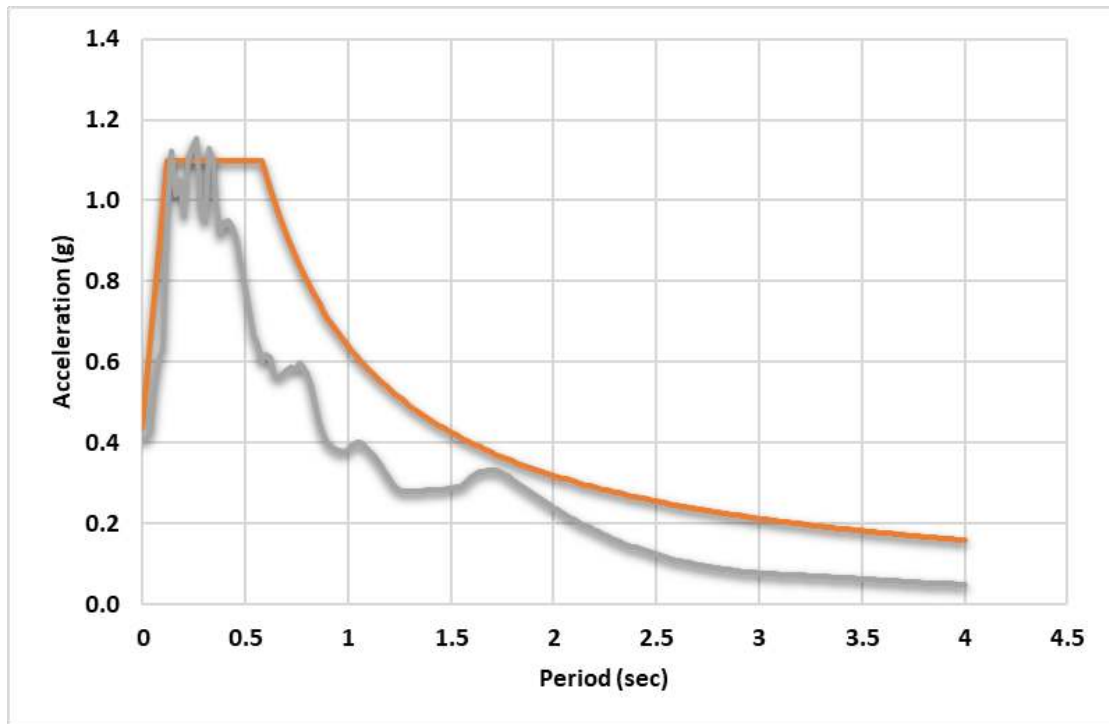
The unique blend of academic and research backgrounds gives a substantial edge to DQA over contemporary consulting firms. Such a strong background helps DQA in manoeuvring analysis tools precisely and interpretation of the codal requirements effectively in complicated analysis and design issues. Subsequently, detailed modelling practices are implemented to simulate the behaviour of the

idealized structure as closely as possible to that of the physical structure. This includes realistic modelling of boundary conditions, soil properties, infill masonry and concrete shear walls etc.



Depending on the structural system, type of loads, structural irregularities, seismic hazard and site conditions, a specific analysis procedure, such as static, dynamic, linear and non-linear, must be used as per codal requirement. Non-compliance with

code in such circumstances may lead to severe consequences. At DQA, however, plenty of time is spent on fine-tuning analysis procedures which ensure fulfilling such codal requirements.



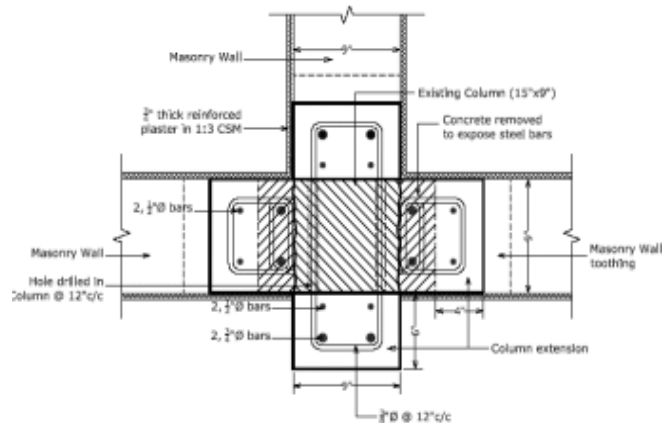
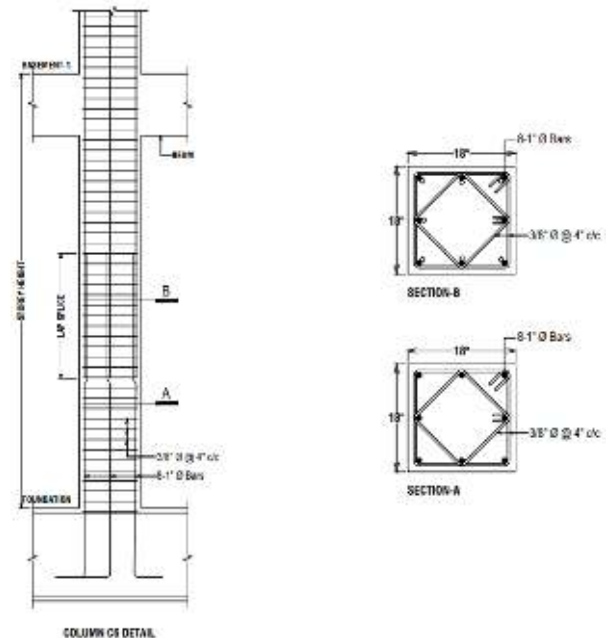
## 7 DRAWINGS

The quality of drawings produced is one of the distinguishing features of this firm. A considerable effort is put into drafting the structural drawings with the intent to make them convenient for field execution.

A proper sequence is followed in the preparation of structural drawings. Proper coordination is maintained with the architect throughout the project. After preliminary analysis, detailed framing plans, sizes of structural members, location of expansion joints etc. are shared with the architect to avoid any conflict with the architectural design at a later stage.

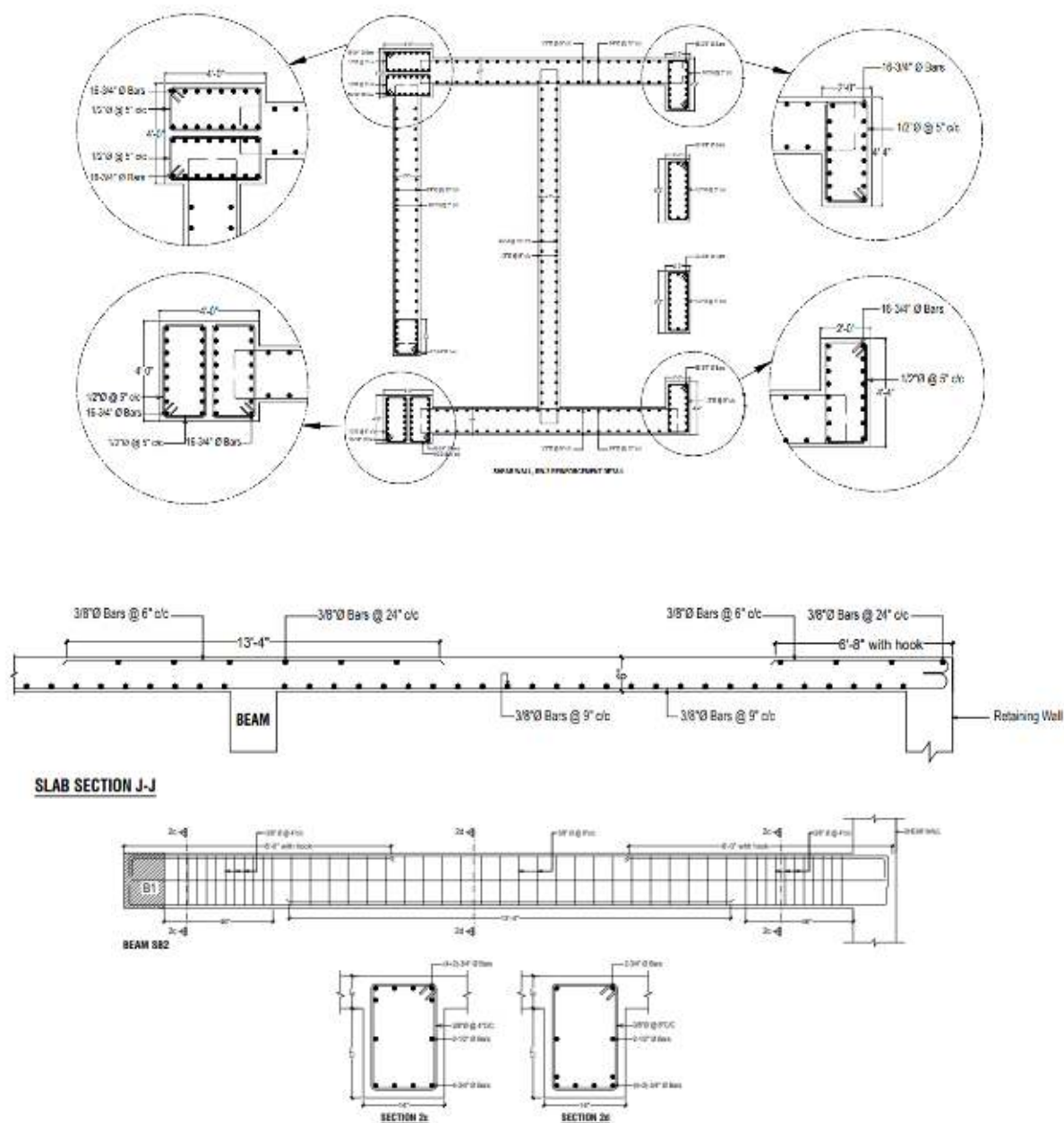
The detail of structural drawings produced depends on the client's request. Detailed structural drawings are provided with the aim to make them easier for the execution of the building on the construction site and bringing economy to the project. One of the shining features of the structural drawings produced is the provision of optimized locations of

lap splice to minimize the wastage of reinforcement.



**SEISMIC HOOK DETAILS**







## 8 DESIGN OPTIMIZATION

The wide and in-depth technical knowledge of the DQA engineer about the behaviour of structures and their practical experience results in providing optimized design solutions to its worthy clients without compromising on the performance of structures.

The optimized design solutions in DQA are achieved by

- ❖ using the latest **modelling** and **design** techniques,
- ❖ understanding of the latest national and international **standards** and **codes**,
- ❖ selection of **high-performance efficient construction materials**,
- ❖ and development of **construction drawings** having **perfect-no-wastage reinforcement detailing** of the structural components.

Although the quantity of steel provided by structural engineers in Pakistan is generally more than 5 kg/sft, the DQA in its recent projects, based on the aforementioned expertise, has produced structural designs with steel quantity in the range of 3.5 to 4.5 kg/sft. This results in a substantial amount of saving in the overall project.

In recently redesigned projects, the DQA has optimized the designs by about 40% to 50% in terms of saving made in the amount of steel used.

*“The DQA, while saving the quantity of steel, never compromises on the structure’s safety. It is further to be noted that high amount of steel does not always increase FOS, rather it can be detrimental in some cases.”*

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## 9 PROJECTS

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### 9.1 STRUCTURAL DESIGN







## ECLIPSE LIVING RESORT AND MALL

Page | 18

No. of Stories:	33
Covered Area:	1,700,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2022
Client:	Eclipse
Architect:	Ahmad Riaz & Assoc.







## PEARL CONTINENTAL

Page | 19

No. of Stories:	05
Covered Area:	180,000 sft
Location:	Malam Jabba, Swat
Seismic Zone:	3
Schedule:	2016 – 2020
Client:	SAMSONS Group Co.
Architect:	Nayyar Ali Dada & Assoc.







## PEARL CONTINENTAL

No. of Stories:	07
Covered Area:	130,000 sft
Location:	Attabad Lake, Hunza
Seismic Zone:	3
Schedule:	2021
Client:	Road and Storey
Architect:	Rizwan Adhami Assoc



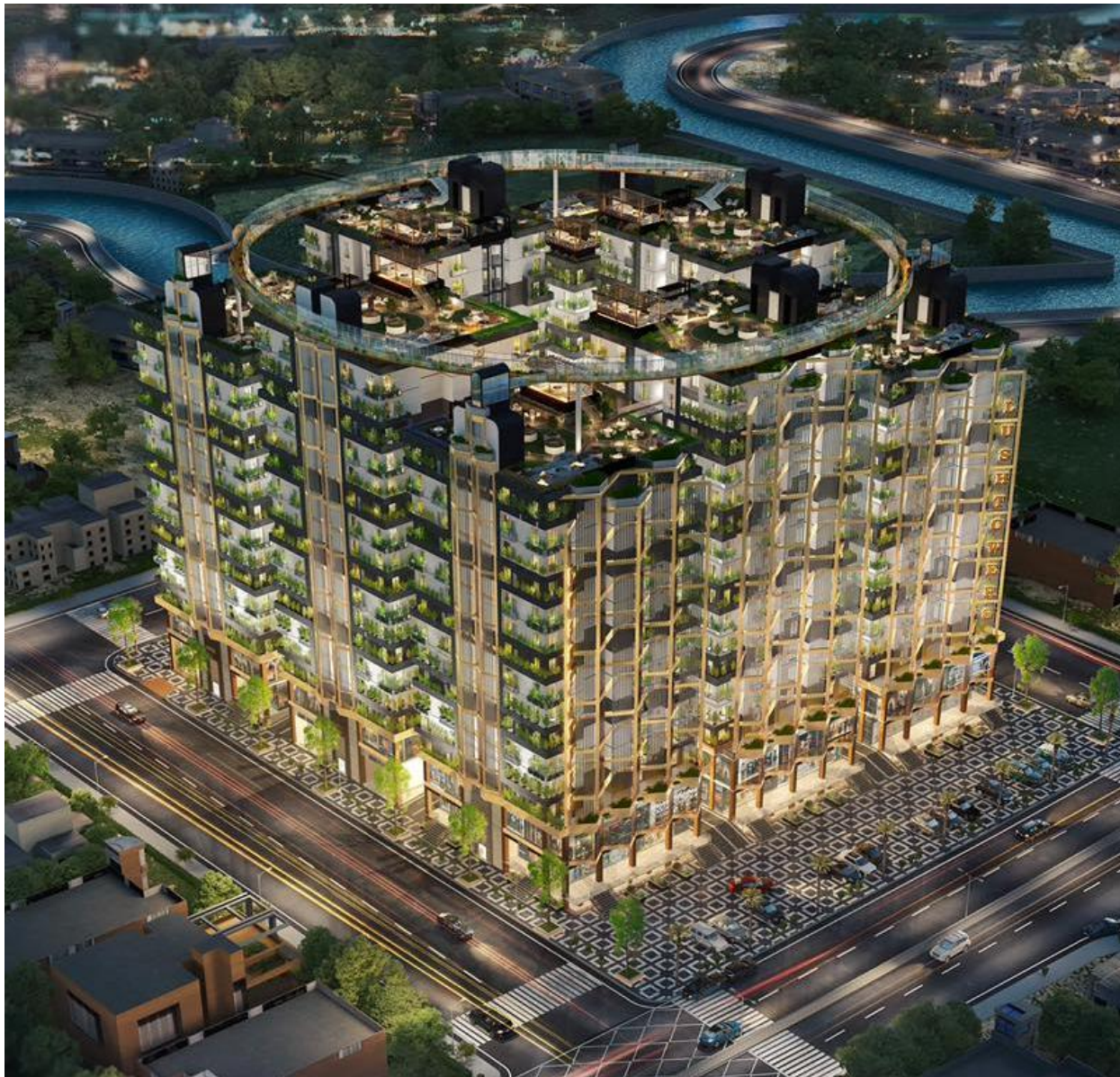


## DOMINION MALL

No. of Stories:	20
Covered Area:	2,500,000 sft
Location:	Bahria Town, Rwp
Seismic Zone:	2B
Schedule:	2017 – 2020
Client:	Iqbal Real Estate
Architect:	Jamshed Khan & Shamim.







## LUSH TOWERS

Page | 22

No. of Stories:	22
Covered Area:	1,100,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2022
Client:	Black Brick Builders
Architect:	Afkar Assoc.







## DARAAJ TOWER

No. of Stories:	17
Covered Area:	600,000 sft
Location:	Islamabad
Seismic Zone:	2B
Schedule:	2022
Client:	Emarat Developers





## OPAL MALL & LUXURY SUITS

Page | 24

No. of Stories:	21
Covered Area:	254,000 sft
Location:	Islamabad
Seismic Zone:	2B
Schedule:	2022
Client:	Sapphire Builders & Assoc.
Architect:	Jamshed Khan & Assoc.







## CANTT ICON MALL & RESIDENCY

Page | 25

No. of Stories:	20
Covered Area:	700,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2022
Client:	Abasyn Builders
Architect:	Jamshed Khan & Assoc.







## FOUNDATION UNIVERSITY

Page | 26

No. of Stories:	06
Covered Area:	550,000 sft
Location:	Rawalpindi
Seismic Zone:	2B
Schedule:	2021 – 2022
Client:	Dr. Shahzad Laghari







## BURJ RABBANI

Page | 27

No. of Stories:	22
Covered Area:	850,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2022
Client:	Rabbani Associates







## OAK VISTA

Page | 28

No. of Stories:	09
Covered Area:	100,000 sft
Location:	Muree
Seismic Zone:	3
Schedule:	2021
Client:	Sapphire Builders







## MULANA UMER MASJID

Page | 29

No. of Stories:	03
Covered Area:	61,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2021 – 2022
Architect:	Afkar Associates







## TIME SQUARE

No. of Stories:	25
Covered Area:	700,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2022
Client:	HSD Group
Architect:	Arch360



## SHIMLA APARTMENTS

No. of Stories:	06
Covered Area:	247,300 sft
Location:	Abbottabad
Seismic Zone:	3
Schedule:	2021
Client:	Mr. Asalah Khan
Architect:	Arch360



## ASIA CENTER – MOBILE MALL

No. of Stories:	10
Covered Area:	190,000 sft
Location:	Rawalpindi
Seismic Zone:	2B
Schedule:	2021
Client:	Mr. Waqar
Architect:	Imagineerz Studio



## AFI TOWER

No. of Stories:	21
Covered Area:	713,000 sft
Location:	Peshawar
Seismic Zone:	2B
Schedule:	2022
Client:	Saif Assoc.





## TOWN VISTA

No. of Stories: 16  
Covered Area: 344,000 sft  
Location: Peshawar  
Seismic Zone: 2B  
Schedule: 2022  
Client: Saif Assoc.  
Architect: Yasir Ali



## DIAMOND MALL

No. of Stories: 22  
Covered Area: 378,000 sft  
Location: Peshawar  
Seismic Zone: 2B  
Schedule: 2019 – 2020  
Client: Saif Assoc.  
Architect: Saif Group



## PAVILION EXECUTIVE

No. of Stories: 18  
Covered Area: 360,000 sft  
Location: Islamabad  
Seismic Zone: 2B  
Schedule: 2022  
Client: S&S Builders





**LIFE CARE HOSPITAL, PESHAWAR**



**D MALL, DHA PESHAWAR**



**NOBLE HEALTH CARE HOSPITAL,  
PESHAWAR**



**SUNMARC HEIGHTS, PESHAWAR**



**I TOWER, DHA PESHAWAR**

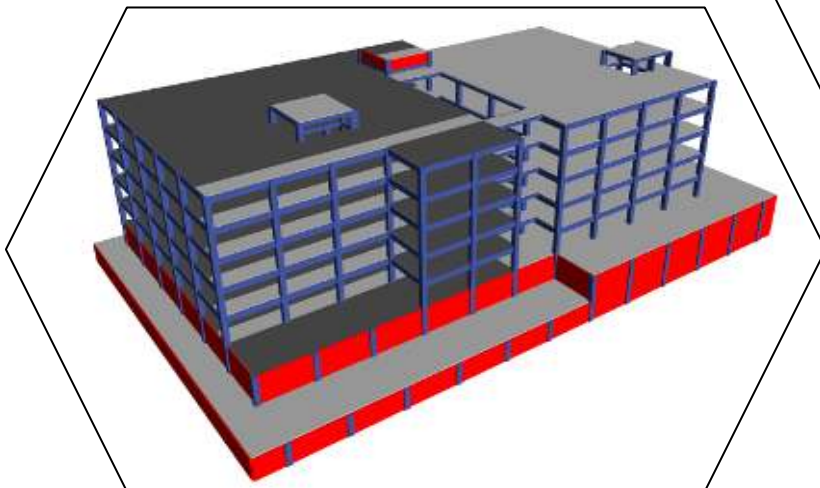
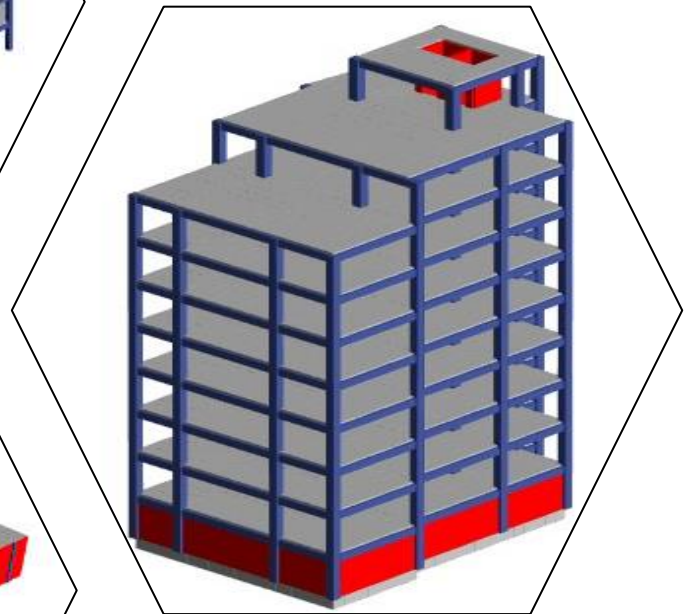
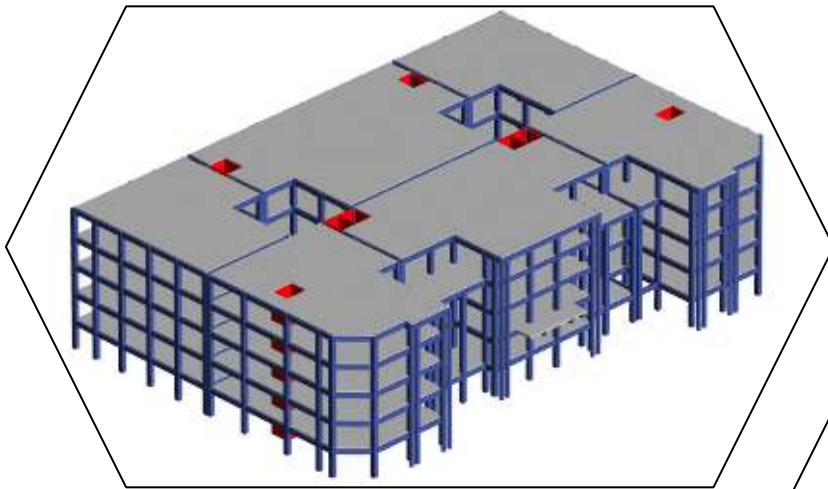


**GLORIOUS MALL, PESHAWAR**

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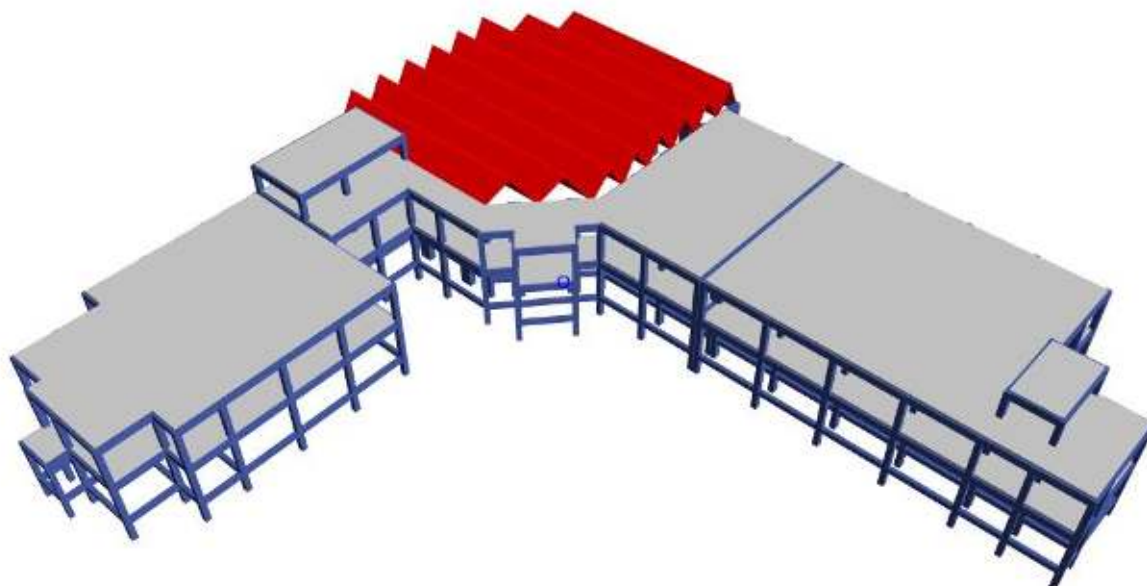
## 9.2 STRUCTURAL DESIGN VETTING



## TECHNOLOGICAL DEVELOPMENT CENTER (TDC)

The DQA provided services to the University of Agriculture as a 3<sup>rd</sup> party vetting consultant to vet the design of the following proposed packages.

S/No	Name of Package	Description of Work	Bearing Capacity	Covered Area
1	Package – A	Construction of Academic Block (Horticulture Department)	1.00 TSF	25,029.00 sft
		Construction of Farm Block Facilities (Horticulture Department)	1.00 TSF	9,256.00 sft
		Construction of Germ Plasm Unit (Horticulture department)	1.00 TSF	1,447.00 sft
		Construction of Climate Change Centre	1.00 TSF	21,127.00 sft
2	Package – B	Construction of Academic Block and Research Faculties for Faculty of Animal Husbandry & Veterinary Sciences (FAHVS)	0.90 TSF	61,547.00 sft
		Construction of Animal Nutrition Department Farm Block (FAHVS)	0.70 TSF	13,256.00 sft
		Construction of Animal Health Department Farm Block (FAHVS)	0.70 TSF	1,300.00 sft
		Construction of Livestock Management Department Farm Block (FAHVS)	0.75 TSF	6,875.00 sft
		Construction of Poultry Science Farm Block (FAHVS)	0.75 TSF	3,585.00 sft
3	Package – C	Construction of Business Incubation& technology centre	0.90 TSF	41,092.00 sft
4	Package – D	Construction of Guards Room	1.00 TSF	41,092.00 sft
		Construction of Car Parking Includes Access Control Room	1.00 TSF	59,990.0 sft
		Construction of External Developmental Works i/c Boundary Wall, Main Gate, External Water Supply & Sewerage System, Manholes, Road & Culverts, OHWT & Tube well etc.	1.00 TSF	



## **STRUCTURAL DESIGN VETTING OF STEEL TRUSSES FOR EDUCATION FACILITIES (100 SCHOOLS) IN AZAD JAMMU KASHMIR**

This project consisted of vetting of roof trusses for approximately 100 schools in AJK at the request of Vibrant Engineering International. The project was funded by Canadian International Development Agency and was supervised by CDM under the project “Rebuilding sustainable communities; school reconstruction”. The planning and designing of the said project were done by UNICON consultants Lahore. All the schools were designed as frame structures and the roofing consist of sloped trusses.

### **NORTHWEST HOSPITAL COMPLEX PESHAWAR**

DQA provided a structural design vetting service to Alliance Healthcare (PVT) Ltd. for North West Hospital Complex (NWHC). The North West hospital complex consists of four reinforced concrete buildings listed below:

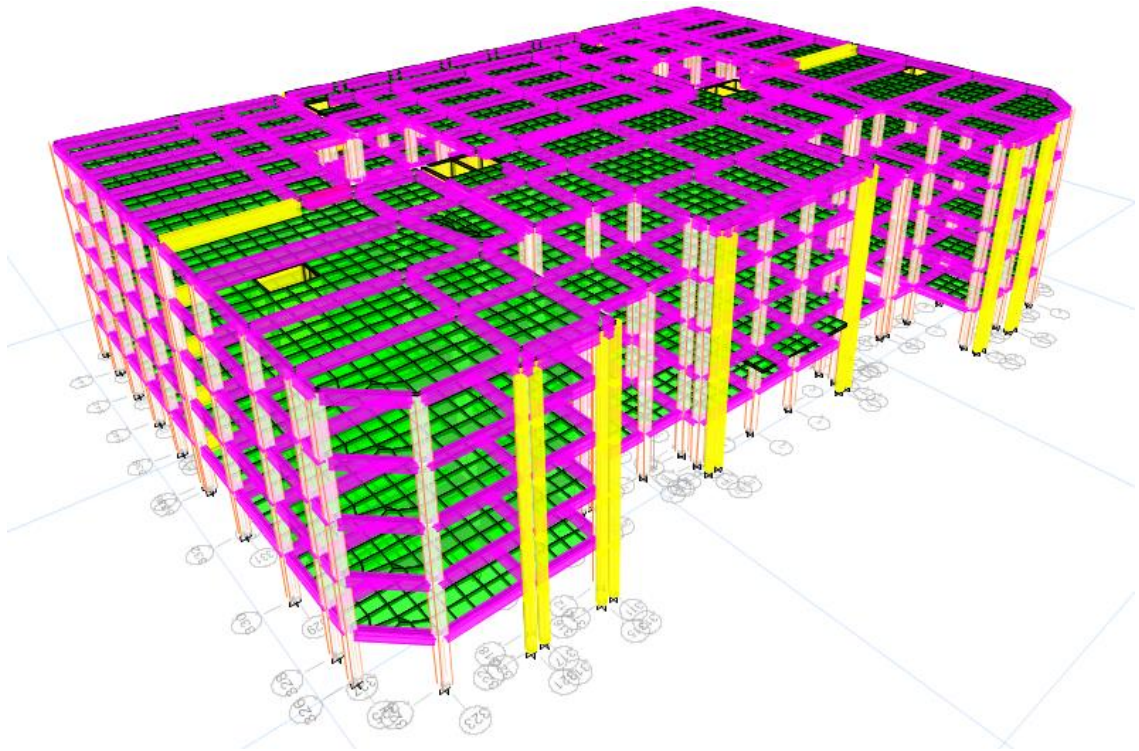
- Hospital
- Medical College
- Boys Hostel
- Girls Hostel

Building	Floors Below Grade	Floors Above Grade
Hospital	4	9
Medical College	3	9
Boys Hostel	3	9
Girls Hostel	3	9

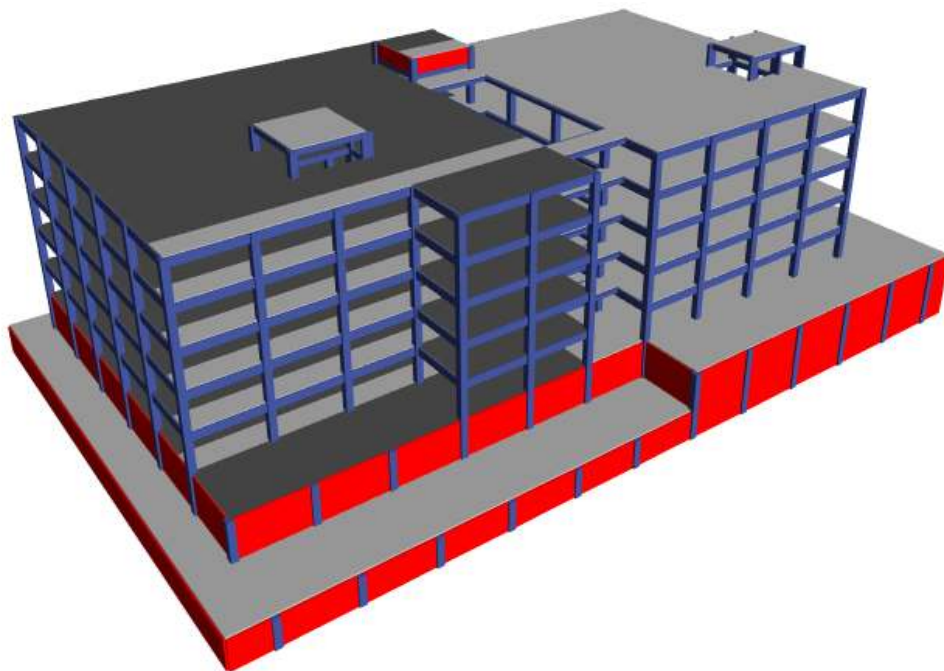
---

## JUDICIAL COMPLEX, DI KHAN

Page | 37



## WELLCARE HOSPITAL, RAWALPINDI





### 9.3 STRUCTURAL HEALTH ASSESSMENT



- 1. Rapid Visual Screening (RVS) of 1267 schools in KP and Punjab**
- 2. Structural Health Assessment (SHA) of 90 schools in KP and Punjab**
- 3. Evaluation of beam-column connection capacity of schools in KP & Punjab**
- 4. Capacity evaluation of Roof Truss Systems of schools in KP**

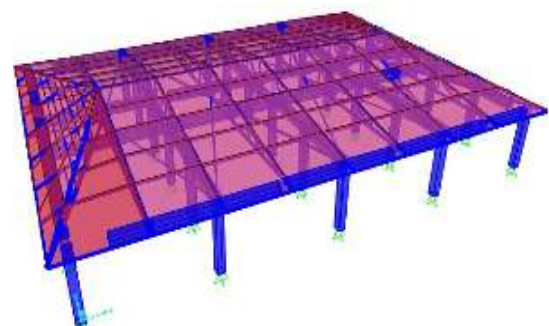
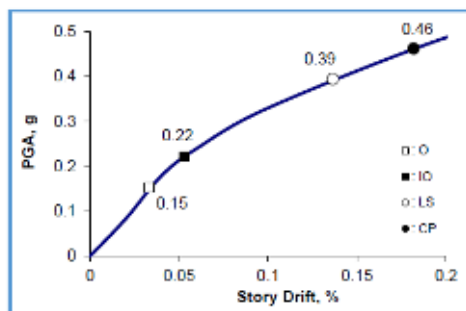
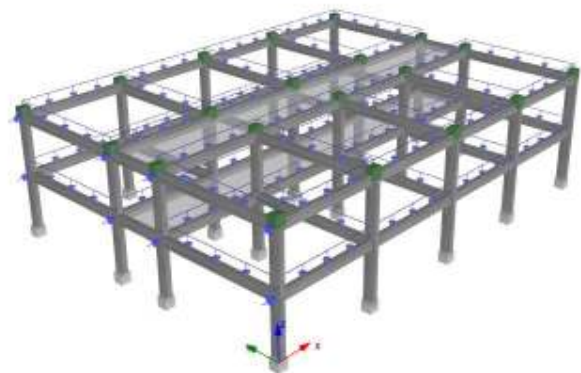
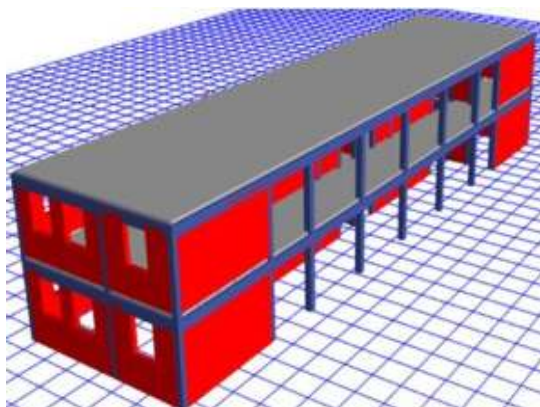
IMC Worldwide constructed a number of schools as part of Humqadam-SCRP in various regions of Khyber Pakhtunkhwa and Punjab.

The schools were constructed of confined brick masonry with a special masonry bond known as Rat Trap Bond. Cracks in masonry walls and reinforced concrete elements were reported in some of the school buildings. DQA was requested to assess these schools in order to evaluate their structural safety.

The structural capacities of the schools were evaluated according to the provisions of the BCP and the relevant FEMA guidelines

- 1300 schools were evaluated using the RVS procedure.
- SHA was suggested in 90 schools for detailed assessment.
- Retrofitting was suggested in around 400 schools.
- The remaining 900 schools were found to be adequate.
- Billions of rupees of the client were saved in the project.







## **SHA OF JUDAICAL COMPLEX DI KHAN**

Page | 41

The provincial inspection team (PIT) reported that the average compressive strength of concrete at the site for all structural members was 2500 against the specified strength of 4000 psi for columns and 3000 psi for other structural members. The PIT, therefore, recommended the demolition of the structure.



The DQA team carried out the SHA of the building. Based on the results of the analysis, the structural system of the subject building was found to be safe for occupancy in its existing condition. Around PKR 538 million were saved in this project

## **SHA OF WESTERN GATE OF GOR GHATRI PESHAWAR**

Western Gate of Gor Khatri is part of around 600 years old heritage Caravanserai in Peshawar, Pakistan. Intensive deterioration of the structure has occurred which required timely action for its retrofitting.

The UET carried out the SHA of the building. Based on the analysis results, recommendations were made and a rehabilitation scheme was designed targeting the deficiencies in the structure.

---



### **RVS OF GIZ OFFICE BUILDING AT PESHAWAR**

Rapid Visual Screening of the GIZ Peshawar office was performed and the building was checked for any possible deficiency.

### **SHA OF LADY READING HOSPITAL PESHAWAR(LRH)**

A Structural Health Assessment of the emergency block of LRH was performed to evaluate the existing building's capacity for the construction of additional floors.

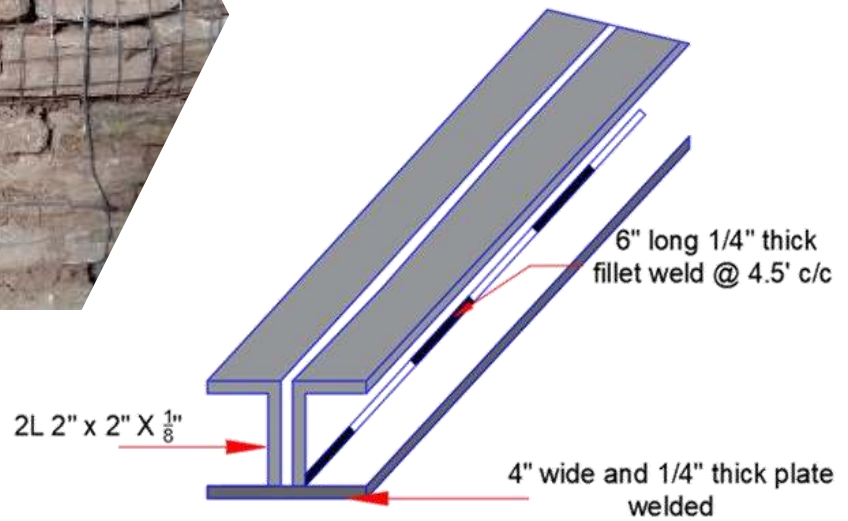
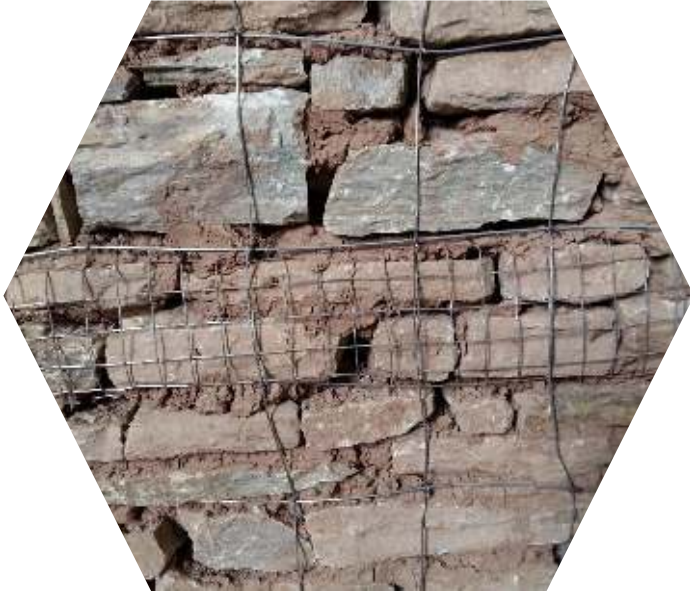
### **SHA OF PESHAWAR GENERAL HOSPITAL (PGH)**

Structural Health Assessment of under construction building of PGH was performed to evaluate the existing building's capacity for construction of additional floors

### **STRUCTURAL HEALTH ASSESSMENT OF ARCHEOLOGICAL MUSEUM, SWAT**

The Swat Archeological Museum was constructed by Wali Swat in 1959 and was expanded in 1970 beyond its master plan prepared by Italian Architect Vittorio Caroli. SHA was performed and necessary precautionary measures were taken.

## 9.4 RETROFITTING

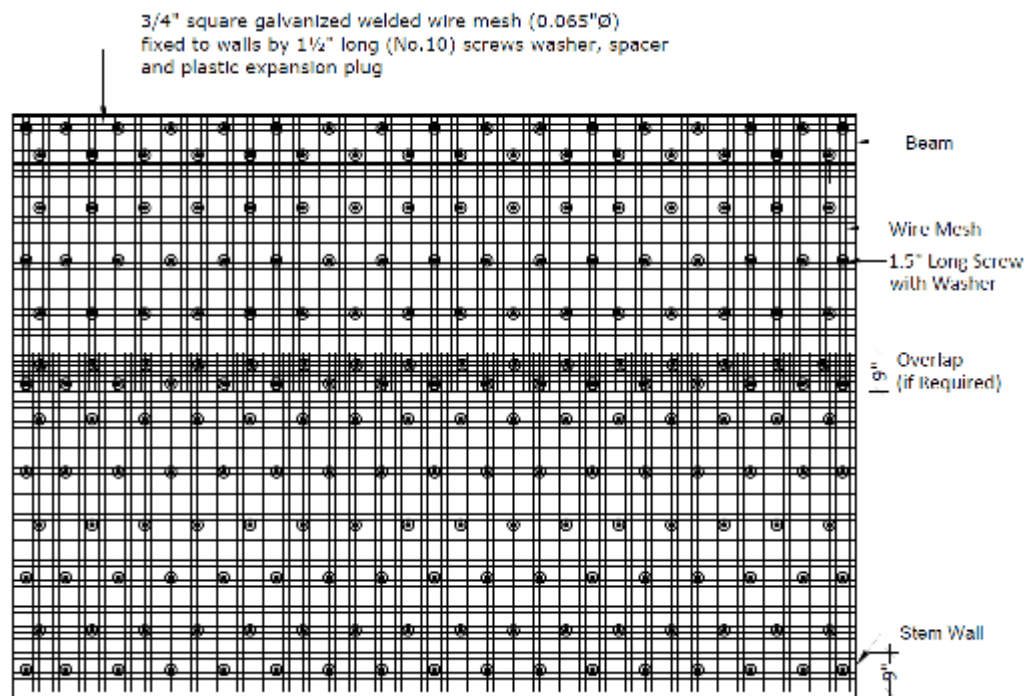


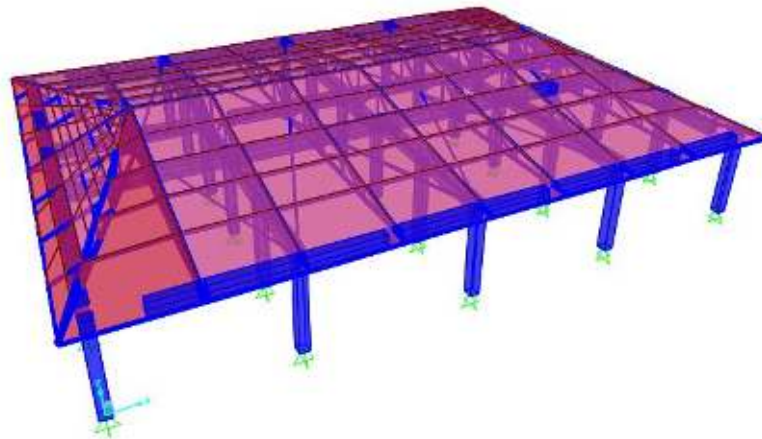


1. Retrofitting of 400 schools in KP and Punjab
2. Strengthening of Roof Truss Systems of 20 schools in KP

The schools that were found deficient in RVS and SHA were retrofitted using different retrofit design techniques, including:

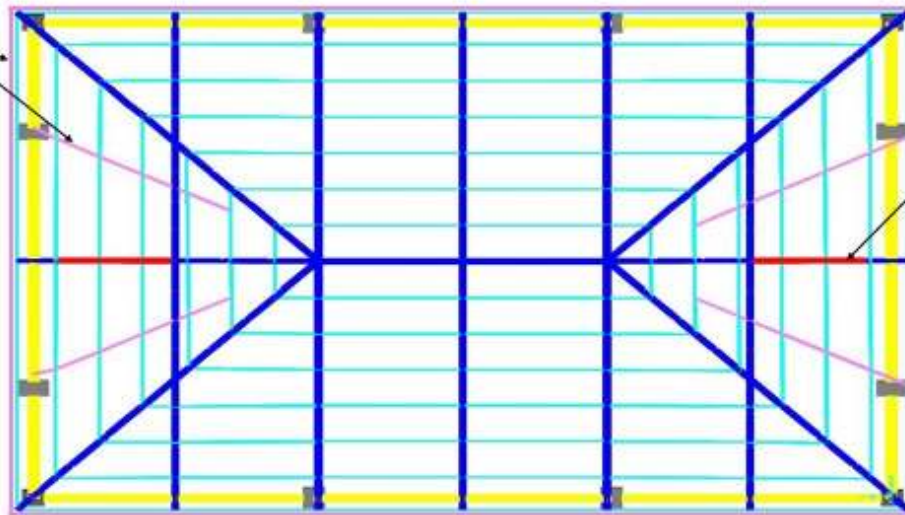
- Ferrocement Overlay for Masonry Walls
- Reinforced Elements Jacketing





### Retrofitting Details for Mandoori School Truss

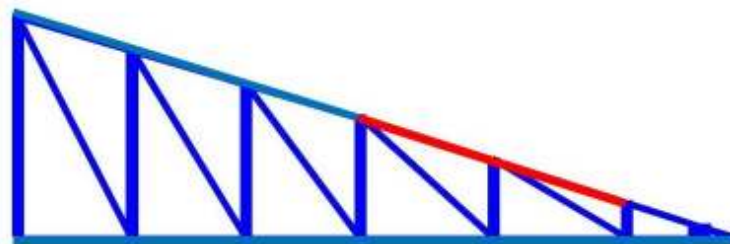
Additional purlins  
2"x4" box section  
(14 SWG)



T1

Plan View

### Retrofitting Details for Mandoori School Truss



Truss T1

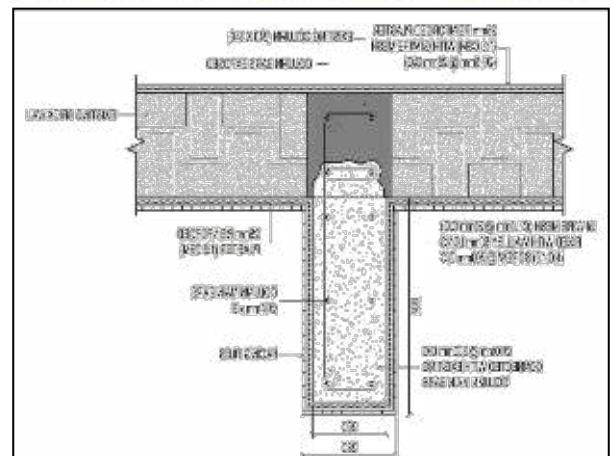
Note: The red colored truss element shall be strengthened by welding 4" wide and 1/4" thick plate at the bottom.

## 04 SCHOOLS IN BAM IRAN

Page | 46

A magnitude 6.6 earthquake struck the City of Bam and its surrounding areas in southern Iran on December 26, 2003. According to United Nations, the Bam earthquake caused the deaths of approximately 43,200 and injured approximately 20,000. About 60% of buildings in the Bam area were destroyed. Probably the largest adobe structure in the world (2,000 years old), Arg-e-Bam was substantially lost.

Single and double-story brick masonry school buildings made with clay bricks in cement sand mortar were observed with moderate to heavy damages. The damaged schools were retrofitted using different retrofitting techniques. The project was undertaken with Japanese experts from Japan International Cooperation Agency (JICA)





## STONE MASONRY SCHOOL BATTAGRAM

The Kashmir Earthquake of October 08, 2005, and the series of aftershocks caused considerable damage to the Government High School building in village Battagram, district Battagram, constructed in the year 2005.

Government High School Battagram commonly known as Thai School is situated in Battagram village of district Battagram. The area is hilly terrain with mild and steep slopes. The school building is constructed on a mild slope with a stable retaining wall on one side

The school is constructed basically in plain random rubble stone masonry with RC lintels at openings and RC columns at some corners and verandah. The roof is made of steel trusses with GI sheet covering.

The school was retrofitted to enhance the seismic capacity of the structural elements.



## RC FRAME BUILDING AT ABBOTTABAD

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## COMMERCE COLLEGE, MANSEHRA



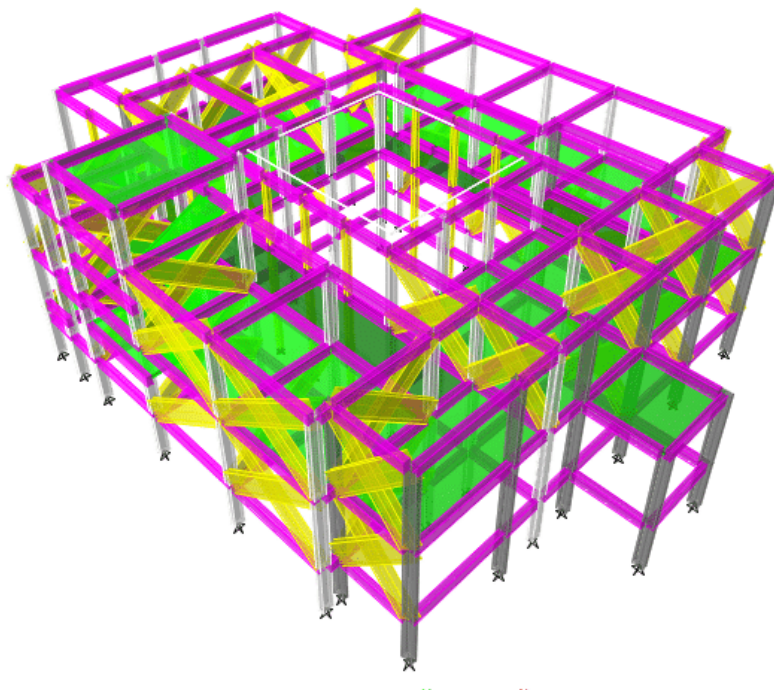


## RAFT STRENGTHENING OF SAMI TOWER, PESHAWAR

Page | 49



## THQ HOSPITAL, AJK





## 9.5 SOIL INVESTIGATION



## **TIME SQUARE PESHAWAR**

Page | 51

Location: Ring Road, Peshawar

Client: HSD Group

Scope: Geotechnical investigation of 25-storey proposed commercial building

## **RABBANI MALL PESHAWAR**

Location: Ring Road, Peshawar

Client: Rabbani Associates

Scope: Geotechnical investigation of 25-storey proposed commercial building

## **MEDICAL CENTER**

Location: Mardan Road, Nowshera

Client: Dr. M. Iqbal

Scope: Geotechnical investigation of 5-storey proposed commercial building

## **CITY CENTER**

Location: Jehangira Road, Swabi

Client: Engr. Inayat Ullah

Scope: Geotechnical investigation of 2-storey proposed commercial building

## **DHA PESHAWAR**

Location: DHA Peshawar

Client: Rabbani Associates

Scope: Geotechnical Investigations for 05 Marla (06 Nos.) and 10 Marla (06 Nos.) proposed 3-storey residential buildings

## **DHA PESHAWAR**

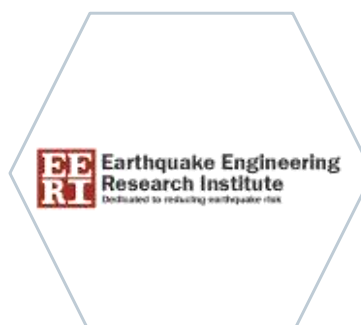
Location: DHA Peshawar

Client: Ittemad Builders

Scope: Geotechnical Investigations for 10 Marla (11 Nos.) proposed 3-storey residential buildings

---

## 10 CLIENTS







## 11 REGISTRATION DOCUMENTS

### 11.1 PEC REGISTRATION CERTIFICATE

**PAKISTAN ENGINEERING COUNCIL**

Registration No: **CONSULT/1665**  
Date of Registration: **10-06-2014**

Serial No **14042**  
PEC-4A



**CERTIFICATE OF REGISTRATION OF PAKISTANI  
CONSULTING ENGINEER**  
(UNDER PAKISTAN ENGINEERING COUNCIL ACT 1976)

This is to certify that M/s DR. QAISAR ALI ASSOCIATES Address HOUSE # P-9, UNIVERSITY CAMPUS, PESHAWAR have been registered as Consulting Engineers at Serial No CONSULT/1665 of the Register of Pakistan Engineering Council with following particulars:-

Type of Ownership (021,022,023,024) **(INDIVIDUAL)(ENGR. DR. QAISAR ALI, CIVIL/13695)**

Field of Specialization  
(Project-profile Code Nos.) **1201(ONE ONLY)**  
**(FOR CIVIL ENGG WORKS ONLY)**

Date of Issue:  
**01/10/2021**

  
Registrar  
Pakistan Engineering Council,  
Islamabad.

**Note:**

1. This Certificate of Registration shall expire on **30th June 2024** and will be renewed on payment of the required fee before 31st July, 2024.
2. Description of project profile codes is shown on reverse.

Scanned with CamScanner

## 11.2 KPRA REGISTRATION CERTIFICATE

9/23/21, 4:34 PM

Details



Date : 23-09-2021

Time : 16:33:55

KNTN K0922510-2  
Name QAISAR ALI

Category INDIVIDUAL

Business Name

Sr.	Business Name
1.	DR. QAISAR ALI ASSOCIATES

CNIC/Reg No. 17\*\*132\*83\*\*

Address HOUSE NO P-9, UNIVERSITY CAMPUS, PESHAWAR

Block/Sector/Road ---

City PESHAWAR

Service Category SERVICES PROVIDED OR RENDERED BY PROFESSIONALS AND CONSULTANTS ,9815.0000

Date of Registration with KPRA 23 Jun 2020

Operational Status as per ATL Active

[Print](#)

[Back](#)



## 11.3 FBR CERTIFICATE

9/23/21, 4:37 PM



### Active Taxpayer List (Income Tax)

Printed On: 9/23/2021 4:37:20 PM

Registration No: 1730132883149

Name: QAISAR ALI

Business Name:

DR. QAISAR ALI ASSOCIATES ,

Filing Status: Active

Filing Status  
Checking Date: 23-SEP-21

You can also check your Active Taxpayer Status (ATL status) by sending SMS, type **ATL <space> Registration Number** (e.g. **ATL 1234567890123**) and send SMS to **9966**.

## 11.4 NTN

10/27/21, 4:57 PM



### Taxpayer Profile Inquiry

Printed On: 10/27/2021 4:57:52 PM

**Registration No** 1730132883149  
**Reference No** 0922510-2  
**Registered for Sales Tax** No  
**Name** QAISAR ALI  
**Category** Individual - Pakistani Male  
**PP/REG/INC No.**  
**Email** drq\*\*\*\*ral\*\*\*etpeshawar.edu.pk  
**Cell** 00923\*\*919\*\*76  
**Address**  
**Registered On** 01-JAN-1995  
**Tax Office** RTO PESHAWAR  
**Registration Status** Income Tax: Active

Sr.	Business/ Branch Name	Business/ Branch Address	Principal Activity
1			
2			
3	DR. QAISAR ALI ASSOCIATES	P9, ..., UNIVERSITY OF PESHAWAR, Peshawar Peshawar	711000-Professional, scientific and technical activities/Architectural and engineering activities and related technical consultancy/Architectural and engineering activities and related technical consultancy
4			
5			

## 12 ENLISTMENT CERTIFICATES

### 12.1 CAPITAL DEVELOPMENT AUTHORITY (CDA)



**CAPITAL DEVELOPMENT AUTHORITY**

**DIRECTORATE OF STRUCTURES (Buildings)**

**ENLISTMENT FOR THE YEAR 2022-2023**

**M/s Dr. Qaiser Ali Associates**  
(PEC No. CONSULT/1665\*, PEC P.E. No. CIVIL/13695)  
House No. P-9, University Campus, Peshawar

in terms of Islamabad Capital Territory Building Control Regulations-2020.

are enlisted to practice as 'Structural Engineer' in Islamabad

CDA Enlistment No. Structures-220/660-2022-23  
Date of Renewal:- July 28, 2022.  
Valid upto: September 30, 2022.  
\*PEC Type of Ownership: Individual

  
(Khalid Anwar)  
Director Structures (Buildings), CDA



## 12.2 RAWALPINDI DEVELOPMENT AUTHORITY (RDA)Page | 59

### RAWALPINDI DEVELOPMENT AUTHORITY

Land Use & Building Control Wing Near  
Liaquat Bagh, Murree Road, Rawalpindi.

Phone No. 051-5554043

No. RDA/LU&BC/F-22/ 2243

Dated. 02/06/2022

To

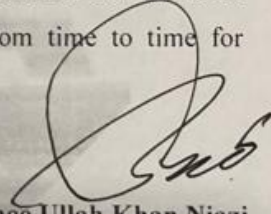
Mr. Dr. Qaisar Ali  
S/o Mudassir Khan,  
Structure Design Specialists,  
House No. P-9, University Campus,  
Peshawar.

Subject: - **RENEWAL OF REGISTRATION AS A STRUCTURE ENGINEER IN  
RDA FOR THE YEAR 2022.**

Reference: - Your application for renewal of registration as a Structural Engineer received in this office dated. **11/04/2022** on the subject note above.

Your application referred above for registration as a Structural Engineer has been examined and approved. Accordingly, permission is hereby granted to you to work as a Structural Engineer with RDA from **January to December, 2022** under clause 9.3 (ii) of RDA Building & Zoning Regulations 2020.

2. You are advised to follow the Building & Zoning Regulations 2020 of the RDA and Instructions / Guidelines Issued by Govt. of Pakistan / Punjab from time to time for Structural Engineer Designs of Building.



Samee Ullah Khan Niazi  
**Director (LU&BC), RDA**

**Copy to:-**

01. Office File.

## 12.3 DEFENCE HOUSING AUTHORITY (DHA ISB-RWP) Page | 60

	<p>DEFENCE HOUSING AUTHORITY ISLAMABAD - RAWALPINDI</p> <p><u>REGISTRATION CERTIFICATE STRUCTURAL ENGINEER</u></p>	<p>DHA - 102 (C)</p> 
<p>This is to certify that "<u>M/S Dr. Qaisar Ali Associates</u>" (<u>Str Engineer Dr Qaisar Ali</u>). Address, <u>First Floor, Liberty Mall University Road Peshawar</u> has been registered as Structural Engineer with Defence Housing Authority Islamabad. The registration No is <u>SE-0272</u>. The firm registration is renewed upto <u>31 December 2022</u>.</p>		
<p>Dated: <u>27</u> Jul 2022</p>	 <p>Office Seal</p>	<p> Dir Building Control</p>

	<p>DHA - 102 (C)</p> 
<p><b>DEFENCE HOUSING AUTHORITY</b> <b>ISLAMABAD - RAWALPINDI</b></p> <p><b>REGISTRATION CERTIFICATE STRUCTURAL VETTING</b> <b>CONSULTANT</b></p>	
<p>This is to certify that "<b><u>M/S Dr. Qaisar Ali Associates</u></b>" (<b><u>Vet Engineer</u></b> <b><u>Dr. Qaisar Ali</u></b>). Address, <b><u>First Floor, Liberty Mall University Road Peshawar</u></b> has been registered as Structural Vetting Consultant with Defence Housing Authority Islamabad. The registration No is <b><u>VE-2024</u></b>. The firm registration is renewed upto <b><u>31 December 2022</u></b>.</p>	
<p>Dated: <u>27</u> Jul 2022</p>	 <p> Dir Building Control</p>




## 12.4 DEFENCE HOUSING AUTHORITY (DHA PESHAWAR)

Page | 62

Serial No: 2117

Registration No: Dr Qaisar/Arch/Str/DHAP/21/17

 **DEFENCE HOUSING AUTHORITY**  
**DHA**  
**PESHAWAR**  
BUILDING DREAMS

**TECHNICAL BRANCH**

**CERTIFICATE OF ENLISTMENT/REGISTRATION**

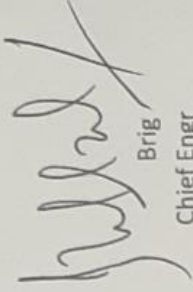
M/s DR QAISAR ALI ASSOCIATES

Address: HOUSE NO P-9, UNIVERSITY CAMPUS PESHAWAR

HAS BEEN ENLISTED / REGISTERED AS Consultant.

YOUR FIRM / COMPANY IS ELIGIBLE TO PARTICIPATE / SUBMIT DRAWINGS / PROJECTS AT DHA PESHAWAR.

This certificate is valid up to 31 Dec 2022

  
Brig Eng  
Chief Eng  
(Shamil Ahmad)  
Date: 21 Apr 2022

(NON TRANSFERABLE)

## 12.5 BAHRIA ENCLAVE ISLAMABAD

From: **Shujat Ali/BahriaEnclaveIslb** <shujatall@bahriatown.com.pk>  
Date: Sat, Jul 30, 2022 at 4:38 PM  
Subject: Enlistment  
To: Dr.Qaiser Ali <qaisarali@uetpeshawar.edu.pk>, obaid.khan710@gmail.com <obaid.khan710@gmail.com>

Dear Mr. Obaid,

We have added your firm as Consultants for Structure Design of Residential /Commercial Buildings in Bahria Enclave per your request of July 27th,2022, details are below,

### QUOTE.

Dear Mr. Hamood/Mr. Asim,

We have added Dr.Qaiser Ali, Associates as Structure Designers for Residential/Commercial Buildings in Bahria Enclave, as already agreed on the following conditions,



1. The Consultants will sign all drawing submission for CDA as the standard practice.
2. The Consultants will keep updated their registrations with CDA/PEC.
3. Bahria Enclave can request for vetting of any of their own project as support.
4. The Consultants will maintain the standard Inspection Card and inspect the project as per stages enumerated on the said card.
5. Bahria Enclave will not be responsible for any conflict between the Consultants and the Clients.
6. Consultants local presence through their stated office will be ensured.
7. Co operation with our Building Control Departments viz Residential/Commercial to be extended by the Consultants.

Kindly circulate the Details of the newly inducted Consultants.

Thanks.

**Shujat Ali Hamid**  
Chief Architect,  
Bahria Enclave  
(Project of Bahria Town)  
Islamabad. Pakistan  
Phone +92 3015285799

## 13 LETTERS OF APPRECIATION/ COMPLETION CERTIFICATES



**TO WHOM IT MAY CONCERN**

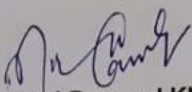
Consultant Name : Dr. Qaisar Ali Associates  
Client Name : Dominion Properties, Bahria Town Islamabad  
Name of Project : Dominion Mall and Apartments, Bahria Town Phase VIII.


This is to certify that Dr. Qaisar Ali Associates (Engineering Consulting Firm) has successfully completed (structural designing and top supervision) of Dominion Mall and Apartments at Bahria Town Phase VIII. The total cost for the services provided was PKR 1000000. The project was started on 18 September 2017 and has been completed (substantially) on 22 January 2021. The major tasks executed by the consultants were Master Planning, Structural Design, Infrastructure Services, Tender Documentation and Construction Supervision.


**Recommendatory Notes:**


The client certifies that the consultants have produced excellent designs to our satisfaction. Therefore, we strongly recommend them as consultants for projects of similar or any nature and of any magnitude.

We wish to state that the consultants have highly qualified and experienced architects, engineers and planners as their staff who have specialized capability of meeting schedules and stipulated budgets. They have supervised the construction works assuring quality and quantity control.

  
Muhammad Dawood Khan  
Director Projects  
Dominion Properties.



A Project by  
 **IQBAL**  
REAL ESTATE & BUILDERS (PVT) LTD







**Appreciation letter for Quality Structural Design & Services**

We are writing to record a note of appreciation for the good structural design for our project Emporium Islamabad. You have done a commendable job and have given us total satisfaction.

It was a difficult task but you have successfully done what was desired by us. You have successfully captured the whole essence of décor and completely fulfill the required standards. So, we thank you and your team for all the hard work that they have put in. They had to put up with our demands. We would like to convey our appreciation to all of you.

Regards,



Mohammad Azhar Ali  
Project Manager

**M. Azhar Ali**  
**Project Manager**  
**Emporium Islamabad**



Ref No. SEAP/02

Date 3/01/2015

Appreciation letter for Quality Structural Design and Services

We are writing to record a note of appreciation for the good structural design for our project Silk Executive Apartments Peshawar. You have done a commendable job and have given us total satisfaction.

It was difficult task but you have successfully done what was desired by us. You have successfully captured the whole essence of decor and completely fulfill the required standards. so; we thank you and your team for all the hard work that they have put in. They had to put up with our demands. We would like to convey our appreciation to all of you.

Regards,

Saqib Ur Rehman

Project Coordinator



**Address: Silk Executive Apartments, Adjacent Deans Complex, Main University Road, Peshawar.**  
**Phone #: 091 - 5710888 - 889 E-mail: [silkexecutiveapartments@gmail.com](mailto:silkexecutiveapartments@gmail.com)**

29 October 2021

### **Certificate for IMC School Rapid Visual Assessments (RVS) by DQA**

**Consultant Name:** Dr. Qaisar Ali Associates (DQA)

**Client Name:** IMC Worldwide Ltd.

**Name of Project:** Humqadam – School Construction & Rehabilitation Project (SCRIP)

It is certified that Dr. Qaisar Ali Associates (DQA), Engineering Consulting Firm, has successfully completed an extensive programme of Rapid Visual Assessments (RVS), encompassing a wide range of school designs for Humqadam/IMC Worldwide Ltd in full compliance with the Building Code of Pakistan (BCP) and relevant International Standards.

The client appreciates and certifies that the consultant has undertaken all work with professionalism, due diligence, integrity and provided services to the highest standards. It is further highlighted that the innovative DQA RVS approach, pioneered by DQA in Pakistan, is a very efficient, timely and versatile method for the quick assessment of existing buildings enabling rapid conclusion to be reached on the structural serviceability and fit for purpose of building structures.

Sincerely,



**Zafran Khan**

Team Leader

Humqadam/SCRIP

IMC Worldwide Ltd.

Mob: +92 (0) 349-521-9159

Email: [Zafran.Khan@Humqadam.pk](mailto:Zafran.Khan@Humqadam.pk)



29 October 2021

### **Certificate for IMC School Retrofitting Designs by DQA**

**Consultant Name:** Dr. Qaisar Ali Associates (DQA)

**Client Name:** IMC Worldwide Ltd.

**Name of Project:** Humqadam – School Construction & Rehabilitation Project (SCRP)

It is certified that Dr. Qaisar Ali Associates (DQA), Engineering Consulting Firm, has successfully completed an extensive range of school Retrofitting Designs for Humqadam/IMC Worldwide Ltd in full compliance with the Building Code of Pakistan (BCP).

The client appreciates and certifies that the consultant has undertaken all work with professionalism, due diligence, integrity and provided services to the highest standards, including developing innovative approaches and pro-actively addressing technical challenges when they arose. It is further highlighted that the innovative DQA retrofitting design approach, using simplified bespoke design processes in combination with ferro cement and wire mesh technique pioneered by DQA in Pakistan, saves considerable time and delivers very economic solutions that can be readily implemented by local contractors with minimal training.

Sincerely,



**Zafran Khan**

Team Leader

Humqadam/SCRP

IMC Worldwide Ltd.

Mob: +92 (0) 349-521-9159

Email: [Zafran.Khan@Humqadam.pk](mailto:Zafran.Khan@Humqadam.pk)

29 October 2021

## **Certificate for IMC School Structural Health Assessments (SHA) by DQA**

**Consultant Name:** Dr. Qaisar Ali Associates (DQA)

**Client Name:** IMC Worldwide Ltd.

**Name of Project:** Humqadam – School Construction & Rehabilitation Project (SCRP)

It is certified that Dr. Qaisar Ali Associates (DQA), Engineering Consulting Firm, has successfully completed an extensive range of school Structural Health Assessments (SHA) for Humqadam/IMC Worldwide Ltd in full compliance with the Building Code of Pakistan (BCP).

The client appreciates and certifies that the consultant has undertaken all work with professionalism, due diligence, integrity and provided services to the highest standards. It is further highlighted that the innovative SHA technique, developed by DQA, is a very versatile, economic and robust approach to review existing structures. It enables bespoke solutions to be developed, in full compliance with BCP, that could considerably extend the life of these existing buildings with significant savings as compared to full redevelopment costs.

Sincerely,



**Zafran Khan**

Team Leader

Humqadam/SCRP

IMC Worldwide Ltd.

Mob: +92 (0) 349-521-9159

Email: [Zafran.Khan@Humqadam.pk](mailto:Zafran.Khan@Humqadam.pk)



**WORKS DIRECTORATE  
THE UNIVERSITY OF AGRICULTURE  
PESHAWAR**

Phone: 9221304-11, Ex.3146

No. 137 / Works

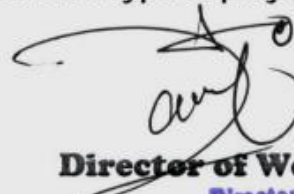
Dated: 29/10/2021

**CERTIFICATE / APPRECIATION LETTER**

It is certified that The University of Agriculture Peshawar hired the consultancy services of M/s MAK Engineering Services JV WADDAN Consultants for PSDP project titled "CONSULTANCY SERVICES FOR MASTER PLANNING, DETAILED DESIGNING AND CONSTRUCTION SUPERVISION FOR ESTABLISHMENT OF TECHNOLOGY DEVELOPMENT CENTER" AT THE UNIVERSITY OF AGRICULTURE, PESHAWAR".

It is further certified that Vetting of Structural Drawings/Design of all components of the project has been carried out by **Dr. Qaisar Ali Associates**.

This directorate appreciates the services of **Dr. Qaisar Ali Associates** and recommend his services for such type of projects.

  
29/10/2021  
**Director of Works**  
Director of Works  
Agricultural University,  
Peshawar





**TO WHOM IT MAY CONCERN**

Consultant Name: Dr. Qaisar Ali Associates

Client Name:

Name of Project:

This is to certify that Dr. Qaisar Ali Associates (Engineering Consulting Firm) has successfully completed (Structural Designing) of (Project Name "Saif Heights" Started from Nov. 2017 to Aug. 2020 as well as Marina Heights whereas "Diamond Mall" and "Saif Mall & Residency" is in progress at University Road Peshawar. The total cost for the services of both completed projects provided was PKR 1500000/-. The project was started on (Nov2017-Aug 2017 and completed 100% on. The major tasks executed by the consultants were Structural Design.

**Recommendatory Notes:**

The client certify that the consultants have produced excellent designs to our satisfaction. Therefore, we strongly recommend them as consultants for projects of similar or any nature and of any magnitude.

We wish to state that the consultants have highly qualified and experienced architects, engineers and planners as their staff who have specialized capability of meeting schedules and stipulated budgets. They have supervised/structural design the construction works assuring quality and quantity control.



Chief Executive/Directors

Saif Associates Peshawar

**SAIF Associate  
(Pvt) Ltd.**

Head Office : Office # 606, 6th Floor Business Plaza, Mumtaz Hasad Road II Chundarigar Road  
Karachi South Saddar Town Ph: 021-2386887 , 2386888  
Branch Office: Town Heights Abdra Road University Town Peshawar. Ph:091-544480,5844481



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Agency for Development and Cooperation SDC  
Embassy of Switzerland  
Swiss Cooperation Office Pakistan

## Experience Certificate

### To whom it may concern

This is to confirm that Professor Dr. Qaisar Ali has been providing engineering services to the Swiss Cooperation Office in Islamabad for the last 9 years (2005-2014).

After the earthquake of 2005 and the flood of 2010, he has assisted Swiss Cooperation Office in the reconstruction of destroyed schools and basic health units (BHU) by providing drawings and structural designs. As a result, Swiss Cooperation Office was able to build 90 schools and 5 BHUs in the 2005 earthquake affected districts of Mansehra and Battagram, as well as work will be completed by mid of 2015 on 22 flood hit schools of district Swat of Khyber Pakhtunkhwa, Pakistan.

The structural engineering design complies with international standards thus considering:

- Seismically safe education and health facilities
- Disaster hazard resistant and environmentally sound construction standards
- Cost efficient design
- Acknowledging local construction techniques
- Model design for other donors

Swiss Cooperation Office is satisfied with the cooperation and contributions made by Dr. Qaisar Ali. With his substantial input to "Building Back Better", the facilities built are now transforming the lives of the communities they serve. Swiss Cooperation Office will warmly recommend Dr. Qaisar Ali to all the institutions/partners and wishes all the best for future endeavors.

Islamabad, 17<sup>th</sup> December 2014

Swiss Cooperation Office Pakistan



Ernesto Morosin  
Humanitarian Aid Coordinator

Swiss Agency for Development and Cooperation SDC  
Swiss Cooperation Office Pakistan  
House # 3, Street # 3, F-4/3  
Islamabad, Pakistan  
Tel. +9251 2279 280, Fax +9251 2824 672  
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**Earthquake Reconstruction and  
Rehabilitation Authority (ERRA)  
Prime Minister's Secretariat (Public)  
Islamabad.**



Islamabad, 8<sup>th</sup> January, 2015

Subject: **LETTER OF APPRECIATION**

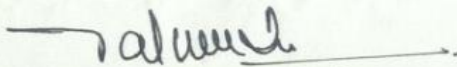
Dear Engr. Dr. Qaisar Ali,

I would like to extend my heartiest appreciation to your valuable contribution throughout the Rehabilitation & Reconstruction process after the October 2005 Earthquake.

2. Your professional guidance was thorough & precise with focus on resolving technical issues & explaining the details involved in earthquake resistant design & retrofitting of various structures.
3. We truly appreciate your dedication in building brighter futures for people.

Thank you for your continuing support.

Sincerely,



**Engineer Tahir Pervaiz Dar**  
Director General (Planning Wing – II)  
ERRA HQ, Islamabad





Syed Imtiaz H. Gilani  
Vice-Chancellor

N-W.F.P. UNIVERSITY OF ENGINEERING & TECHNOLOGY PESHAWAR

No. 74 /VC

Dated: 23<sup>rd</sup> April, 2007

My dear *Qaiser Ali Salih*  
*Azalam Ma'kan!*

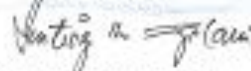
Please accept my heartfelt gratitude for your invaluable contribution in development of the "Building Code of Pakistan (Seismic Provisions - 2007)".

I was humbled by your self-less dedication, sincerity, and generosity with which you gave so much time and effort for this national cause. It is people like you that continue to keep the beacon of Pakistan afloat.

For me it was a huge learning experience from the academic elite in the field of earthquake engineering. Although I could not contribute much, let me admit, that I am proud to have been associated with the making of this document. It was a singular honour to be among you, and a privilege that I shall cherish forever.

With kind regards,

Sincerely yours



Syed Imtiaz Hussain Gilani  
Vice Chancellor

Engr. Dr. Qaisar Ali,  
NWFP University of Engineering & Technology,  
Peshawar.

## 14 CURRICULUM VITAE

# PROF. DR. QAISAR ALI, PhD, PE

Department of Civil Engineering  
University of Engineering and Technology Peshawar  
Peshawar, Pakistan

Mobile: +92-333-9194676, Email address: drqaisarali@uetpeshawar.edu.pk

## Current Position(s)

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### **Pro Vice Chancellor**

*University of Engineering and Technology Peshawar. w.e.f. July 29, 2020.*

### **Dean (Civil, Agricultural and Mining Engineering)**

*University of Engineering and Technology Peshawar. w.e.f. December 10, 2020.*

### **Meritorious Professor**

*University of Engineering and Technology Peshawar. w.e.f. January 13, 2022.*

## EDUCATION

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**Ph.D. University of Engineering and Technology Peshawar** **2004**

*Department of Civil Engineering*

Research topic: “*Seismic Performance Study of Brick Masonry Building System in Peshawar Region*”

**M.Sc. University of Engineering and Technology Peshawar** **1999**

*Department of Civil Engineering*

**B.Sc. University of Engineering and Technology Peshawar (with honors)** **1991**

*Department of Civil Engineering*



## TEACHING EXPERIENCE [29 years (18 years Post PhD and 11 years Pre PhD experience)]

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<b>Meritorious Professor</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Jan 2022 – to date</b>
<b>Professor</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Feb 2007 – Jan 2022</b>
<b>Associate Professor</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Dec 2004 – Feb 2007</b>
<b>Assistant Professor</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Oct 2000 – Dec 2004</b>
<b>Lecturer</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Sep 1993 – Oct 2000</b>

## ADMINISTRATIVE EXPERIENCE

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<b>Pro Vice Chancellor</b> <i>University of Engineering and Technology Peshawar</i>	<b>Jul 2020 – to date</b>
<b>Dean (Civil, Agricultural and Mining Engineering)</b> <i>University of Engineering and Technology Peshawar</i>	<b>Dec 2020 – to date</b>
<b>Chairman</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Feb 2018 – Dec 2020</b>
<b>Director Earthquake Engineering Center</b> <i>Department of Civil Engineering, UET Peshawar</i>	<b>Dec 2006 – Jun 2011</b>

## RESEARCH WORK WITH INTERNATIONAL COLLABORATION

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### **Evaluation of Response Modification Factor for Reinforced Concrete Frames in Pakistan. (2009-2014)**

- Funded by Higher Education Commission (HEC) (worth Rs. 3.0 million)
- Project goals:
  - A survey of design practices of Reinforced Concrete construction in Pakistan
  - Experimental investigation of Code-compliant and non-compliant reinforced concrete structural members
  - Development of R-Factors for building Code of Pakistan (BCP-SP07)

### **Seismic Performance Evaluation of Stone Masonry Buildings of Himalayan Belt using Shake Table Tests. (2009-2012)**

- Funded by HEC through BOASAR (worth Rs. 1.9 million)
- Project goals:
  - The main purpose of this research work was to study performance of existing construction of stone masonry in the Northern regions of Pakistan
  - Develop construction guidelines for an improved performance.

### **Seismic Performance Evaluation of Dhajji Dewari Construction using Quasi Static Cyclic and Shake Table Tests. (2009-2012)**

- Funded by HEC through BOASAR (worth Rs. 1.0 million)
- Project goals:

Performance assessment and development of design guidelines for Dhajji Dewari construction in the Northern regions of Pakistan.

### **Development of R-Factor and Indigenous Retrofit Techniques for Brick Masonry Building in Pakistan. (2014-2016)**

- Funded by HEC through BOASAR (worth Rs. 1.5 million)
- Project goals:
  - Seismic performance improvement of masonry buildings through experimental investigation
  - Development of low cost and effective retrofit techniques for existing masonry buildings.

## **BOOKS AUTHORED**

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1. **Book Chapter: Seismic Resistance Evaluation of an Unreinforced Brick Masonry Building by Simulating Earthquake Vibrations through Contained Underground Explosions: A Unique Case Study**, published in the book *Computer Analysis and Design of Masonry Structures*; Sponsored by: *HEC* and Published by: *Saxe-Coburg Publications, Stirling, Scotland, 257-279*
2. **DHAJJI CONSTRUCTION** for one and two storey earthquake resistant houses, a guide book for technicians and artisans; Sponsored and Published by: *University of Applied Sciences of Southern Switzerland (SUPSI) & UN HABITAT Pakistan.*
3. **Field Practicing Manual** (English and Urdu versions); Sponsored and Published by: *Government of KPK.*

## LIST OF RESEARCH PAPERS/ARTICLES PUBLISHED IN NATIONAL AND INTERNATIONAL JOURNALS/ CONFERENCES

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### A. INTERNATIONAL IMPECT FACTOR JOURNAL PUBLICATIONS

1. **Qaisar Ali**, et al. [2017] "Shake table tests on single story Dhajji Dewari traditional buildings", *International Journal of Architectural Heritage* [United States], VOL. 11, NO.7, 1046-1059.
2. Naveed Ahmad and **Qaisar Ali** et al. [2017] "Seismic performance assessment of non-compliant SMRF reinforced concrete frame: Shake Table Test Study", *Journal of Earthquake Engineering* [England].
3. Mohammed Javed, et al., & **Qaisar Ali**. [2015], "Experimental seismic performance evaluation of unreinforced brick masonry shear walls", *Earthquake Spectra* [United States], Vol. 31, No. 1, pp.215-246.
4. Naveed Ahmad, **Qaisar Ali** & et al. [2014], "Earthquake loss estimation of residential buildings in Pakistan", *Natural Hazards* [United States], 73:1889-1955.
5. **Qaisar Ali** & et al. [2013], "Seismic performance of stone masonry buildings used in the Himalayan belt", *Earthquake Spectra* [United States], Vol. 29 No. 4, pp. 1159-1181.
6. Naveed Ahmad, **Qaisar Ali** & et al. [2012], "Seismic vulnerability of the Himalayan half-dressed rubble stone masonry structures, experimental and analytical studies", *Natural Hazards & Earth System Science* [Germany], 12, 3441–3454.
7. **Qaisar Ali**, Tom Schachar & et al. [2012], "In-plane behavior of full scale Dhajji-Dewari structural system (wooden braced frame with masonry infill)", *Earthquake Spectra* [United States], Volume 28, No. 3, pages 835–858.
8. Naveed Ahmad, **Qaisar Ali** & et al. [2012], "Simplified engineering tools for seismic analysis and design of traditional Dhajji-Dewari structures", *Bulletin of Earthquake Engineering* [Netherlands], 10:1503–1534
9. T. Nakagawa, et al. & **Qaisar Ali** [2012], "Collapse behavior of a brick masonry house using the shaking table and numerical simulation by extended distinct element method", *Bulletin of Earthquake Engineering* [Netherlands], 10:269–283.
10. Amjad Naseer, at al. & **Qaisar Ali** [2010], "Observed seismic behavior of buildings in



northern Pakistan during Kashmir earthquake”, *Earthquake Spectra* [United States], Vol. 26, 425-449.

11. Tatsuo Narafu, et al. & **Qaisar Ali** [2010], “A proposal for a comprehensive approach to safer non-engineered houses”, *Journal of Asian Architecture and Building Engineering* [Japan], Vol. 9, No. 2, 315-322.
12. Ahmad, N., et al. & **Qaisar Ali** [2010], "Displacement-based earthquake loss assessment of masonry buildings in Mansehra city, Pakistan", *Journal of Earthquake Engineering* [England], Vol. 14 (SI), 1-37.
13. M. Ashraf, et al. & **Qaisar Ali** [2009], “Physico-chemical, morphological and thermal analysis for the combined pozzolonic activities of minerals additives”, *Construction and Building Material* [England], Vol. 23, 2207–2213.
14. Amjad Naseer, et al. & **Qaisar Ali** [2008], “Performance of Pakistani volcanic ashes in mortars and concrete”, *Canadian Journal of Civil Engineering* [Canada], Vol. 35, 1435-1445.
15. **Qaisar Ali** & et al. [2007], “Seismic resistance evaluation of unreinforced masonry buildings”, *Journal of Earthquake Engineering* [England], Volume 11, No. 2, 133-146.
16. **Qaisar Ali** et al. [2007], “A critical review of seismic hazard zoning for Peshawar and adjoining areas”, *Journal of Earthquake Engineering* [England], Vol. 9, No. 5, 587-607.

## B. INTERNATIONAL NON-IMPACT FACTOR JOURNAL PUBLICATIONS

1. M. Ashraf, et al. & **Qaisar Ali**, “Seismic behavior of intact and retrofitted unreinforced and confined brick masonry walls before and after ferro cement overlay retrofitting” *International Journal of Architectural Heritage*, 6: 665–688, 2012 (USA).
2. M. Riaz, et al. & **Qaisar Ali**, “Pakistani Bentonite use in Mortars & Concrete as Low Cost Construction Material”, *Applied Clay Sciences*, Volume 45, Issue 4, 220-226, 2009 (Germany).
3. **Qaisar Ali**, Akhtar Naeem Khan, Naveed Ahmad and Bashir Alam, [2012] “In-situ dynamic testing of masonry structure by means of underground explosions simulating earthquake motions, a unique case study”, *International Journal of Earth Sciences and Engineering*. ISSN 0974-5904, Volume 05, No. 05 (USA).

4. **Qaisar Ali**, Yasir Irfan Badrashi, Naveed Ahmad & et al., [2012] “Experimental investigation on the characterization of solid clay brick masonry for lateral shear strength evaluation”, International Journal of Earth Sciences and Engineering. ISSN 0974-5904, Volume 05, No. 04 (USA).
5. Naveed Ahmad, **Qaisar Ali**, Mohammad Ashraf and et al., [2012] “Seismic performance evaluation of reinforced plaster retrofitting technique for low-rise block masonry structures”, International Journal of Earth Sciences and Engineering. ISSN 0974-5904, Volume 05, No. 02 (USA).
6. Naveed Ahmad, **Qaisar Ali** and Muhammad Umar. [2013] “Seismic vulnerability assessment of multistory timber braced frame traditional masonry structures”, Advanced Materials Research Vol. 601 (2013) pp 168-172© Trans Tech Publications, (Switzerland)
7. Ahmad, N., **Ali, Q.**, Ashraf, M., Naeem Khan, A., Alam, B. [2012] “Performance assessment of low-rise confined masonry structures for earthquake induced ground motions”, International Journal of Civil and Structural Engineering. Volume 2, No 3.
8. Bashir Alam, Mohammad Javed, **Qaisar Ali** & et al., [2012] “Mechanical properties of no-fines bloated slate aggregate concrete for construction application, experimental study”, International Journal of Civil and Structural Engineering. Vol.3, No. 2.
9. Naveed Ahmad, **Qaisar Ali**, Mohammad Ashraf & et al., [2011] “ Seismic structural design codes evaluation in Pakistan and critical investigation of masonry structures for seismic design recommendations”, International Journal of Engineering and Technology. Vol. 1, Issue.1 (2011)42-85.
10. Mohammad Ashraf , Akhtar Naeem Khan , **Qaisar Ali** & et al., [2011] “Experimental behavior of full scale urm building retrofitted with ferro cement overlay”, Advanced Materials Research Vols. 255-260 pp 319-323© (2011) Trans Tech Publications, Switzerland.
11. Ahmad. N., **Ali. Q.**, Ashraf. M., Naeem Khan. A., Alam. B. [2012] “Performance assessment of low-rise confined masonry structures for earthquake induced ground motions”, International Journal of Civil and Structural Engineering. Volume 2, No. 3.

## C. NATIONAL JOURNAL PUBLICATIONS

1. Yasir Irfan Badrashi and **Qaisar Ali** et al. [2016], "Seismic design characterization of RC special moment resisting frames in Pakistan-Field survey to laboratory experiments", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 35, No. 2, pp. 2518-4571.
2. Syed Abid Ali Shah, M.K.R. Kayani. and **Qaisar Ali** [2000], "Analysis of concrete masonry beams", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.2.
3. **Qaisar Ali** and Akhtar Naeem Khan [2000], "Effect of maximum size of aggregate and its gradation on the shear capacity of R.C beams without web reinforcement", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.2.
4. Syed Abid Ali Sllah, M.K.R, Kayani and **Qaisar Ali** [2000], "Load transfer from high strength concrete columns through ordinary strength concrete slabs", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.1.
5. Mohammad Javed and **Qaisar Ali** [2000], "Shear capacity of reinforced concrete beams without web reinforcement", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.1.
6. **Qaisar Ali**, Mohammad Javed, and Irshad Ahmad [2000], "Simplified equation for estimating the shear capacity of reinforced concrete beams without web reinforcement", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.2.
7. **Qaisar Ali** [2000], "The '3rp' computer program for the solution of the three-reservoir problem in hydraulics", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.1.
8. Akhtar Naeem Khan, Allaullah Shah and **Qaisar Ali** [2001], "Use of fly ash as cementitious material in concrete", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.1.
9. **Qaisar Ali**, Qaisar Hayat [2001], "Slab analysis and design software based on ACI code", *Journal of Engineering and Applied Sciences* [UET, Peshawar], Vol. 19 No.1.
10. **Qaisar Ali**, Akhtar Naeem, and Siddique Akbar [2001], "Simulated earthquake vibration tests on brick masonry model through contained underground explosions", *Journal of*



#### D. INTERNATIONAL/NATIONAL CONFERENCE PUBLICATIONS & REPORTS

1. Muhammad Ayub, **Qaisar Ali** & et al., [2013] "Conservation of Islamia College Building in Pakistan", *Procedia Engineering* 54 (2013) 465 – 471. The 2nd International Conference on Rehabilitation and Maintenance in Civil Engineering.
2. Naveed Ahmad, **Qaisar Ali**, Helen Crowley and Rui Pinho [2012] "Earthquake loss estimation of structures in Pakistan", 9th International Conference on Urban Earthquake Engineering/ 4th Asia Conference on Earthquake Engineering March 6-8, 2012, Tokyo Institute of Technology, Tokyo, Japan.
3. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, [2011] "Displacement-based earthquake loss assessment of adobe buildings in Pakistan", ISEC-6, Proceedings of the International Structural Engineering and Construction Society, Zurich, Switzerland. Paper no. S2\_S54.
4. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, [2011] "Frame-elements constitutive law for nonlinear static and dynamic analyses of masonry buildings", ISEC-6, Proceedings of the International Structural Engineering and Construction Society, Zurich, Switzerland. Paper no. S2\_S63.
5. Ahmad, N., **Ali, Q.**, Crowley, H., Pinho, R., [2011] "Displacement-based seismic performance evaluation of Dhajji structural systems", 11NAMC, Proceedings of the Masonry Society, Minnesota, USA. Paper no. 89
6. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, Aziz, S., [2011] "Development of fast building seismic screening (FBSS) method", ICEESNUST, Proceedings of the International Conference on Earthquake Engineering and Seismology, Islamabad, Pakistan, Paper no.13
7. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, Aziz, S., [2011] "Development of displacement-based method for seismic risk assessment of rc building stock of Pakistan", ICEESNUST, Proceedings of the International Conference on Earthquake Engineering and Seismology, Islamabad, Pakistan, Paper no. 11
8. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, [2010] "Simplified formulae for the displacement capacity, energy dissipation, and characteristic vibration period of brick

masonry buildings", 8IMC-Dresden Germany, Proceedings of the International Masonry Society 11(2), 1385-1394.

9. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, [2010] "Derivation of displacement-based fragility functions for masonry buildings", 14ECEE, Proceedings of the European Conference on Earthquake Engineering, Ohrid, Macedonia. Paper no. 327 CD-ROM (SGAC awarded by Swiss Society for Earthquake Engineering and Structural Dynamics).
10. Ahmad, N., **Ali, Q.**, Crowley, H., Pinho, R., [2010] "Displacement-based seismic risk assessment of stone masonry buildings of Pakistan", ACEE-2010, Proceedings of the Asian Conference on Earthquake Engineering, Bangkok, Thailand, Paper id. ACEE-P-101.
11. **Qaisar Ali** et al., [2010] "In-Plane behavior of full scale Dhajji walls under quasi-static loading", 9<sup>th</sup> US & 10<sup>th</sup> Canadian Conference on Earthquake Engineering, 24-27.
12. **Qaisar Ali** et al. [2010] "Shake table test on typical stone masonry buildings in the Himalaya range", 9<sup>th</sup> US & 10<sup>th</sup> Canadian Conference on Earthquake Engineering, 24-27.
13. M. Ashraf, **Qaisar Ali** et al., [2010] "Experimental study on the performance of brick masonry piers of before & after retrofitting with reinforced plaster", 9<sup>th</sup> US & 10<sup>th</sup> Canadian Conference on Earthquake Engineering, 24-27.
14. Tom Schachar, **Qaisar Ali** & M. Stephenson, [2010] "Mainstreaming of traditional earthquake resistant building methods: The Example of the Dhajji Method in the Post Earthquake Reconstruction Process in Pakistan", International Conference on Technologies for Development, Lausanne, Switzerland.
15. **Qaisar Ali**, [2008] "Ensuring school safety using local material and skills in the Himalaya region", International conference on schools safety, 14-16 May 2008 Islamabad, Pakistan.
16. T. Nakagawa, et al., & **Qaisar Ali**, [2008] "Shaking table test of model house of brick masonry for seismic construction", 14<sup>th</sup> World Conference on Earthquake Engineering, October 2008, Beijing, China.
17. C. Minowa, et al., & **Qaisar Ali**, [2008] "Collapse behavior test of a masonry using shaking table", AZORES 1998, International seminar on seismic risk and rehabilitation of stone masonry housing July 2008 Azores, Portugal.
18. **Qaisar Ali**, [2007] "Seismic Disaster Mitigation through safe housing", National conference on Seismic Disaster Management by Institute of Engineers Pakistan, UET Peshawar April 2007.

19. **Qaisar Ali**, [2005] "Performance of engineered and non-engineered structures during the October 8, 2005 Earthquake", 8<sup>th</sup> Conference on Earthquake Engineering, San Francisco, USA, April 2006.
20. **Qaisar Ali**, [2005] "Seismic Disaster Mitigation in Pakistan", International Conference on Earthquake Rehabilitation in Pakistan, Nov 18-19 2005, Islamabad.
21. Ahmad, N., Crowley, H., Pinho, R., **Ali, Q.**, [2010] "Capacity curves for unreinforced fired brick masonry buildings of Pakistan-UFB5", WHE Pager Project: Development of Analytical Seismic Vulnerability Functions, Analytical Data Part III, EERI, Oakland USA.
22. **Qaisar Ali**, [2009] "Confined Masonry in Pakistan", International video conference on Confined Masonry, Tokyo, Japan March 23, 2009.
23. Ahmad, N., **Ali, Q.**, [2008] "Site-specific probabilistic seismic hazard analysis of Mansehra urban area", Technical Report, Earthquake Engineering Center, University of Engineering and Technology Peshawar, Pakistan.
24. **Qaisar Ali**, [2008] "Finite Element Analysis of an URM model structure", Building Research Institute Kskuba, Japan, Jan 2008.
25. **Qaisar Ali**, [2008] "Case study of Pakistan Housing Reconstruction", Building Research Institute Kskuba, Japan, Jan 2008.
26. **Qaisar Ali**, "The software Strong Motion Analyzer", China Seismological Bureau Beijing China.
27. **Qaisar Ali**, [2008] "Finite Element Analysis of an URM model structure", Tokyo International Workshop on Earthquake Disaster Mitigation for Safer Housing Tokyo, 23 Jan 2008.
28. **Qaisar Ali**, [2007] "Seismic Risk Reduction Approaches", International Disaster Risk Management Course, Nov 12-22, 2007 Islamabad.
29. **Qaisar Ali**, [2007] "Case study of Pakistan Housing Reconstruction", Rose School, European Centre for Training & Research in Earthquake Engineering, Pavia, Italy June 2007, <http://roseschool.it>.
30. **Qaisar Ali**, [2007] "Shaking table testing and Finite Element Analysis techniques applied to Masonry structures", International Video Conference Tokyo Japan, July 2007.
31. **Qaisar Ali**, [2007] "Earthquake Safe Housing", National Video Conference", UET Peshawar, May 2007



32. **Qaisar Ali** and Akhtar Naeem et al., [2006] "Learning from Earthquakes: First Report on the Kashmir Earthquake of October 8, 2006", Earthquake Engineering Research Institute, EERI, USA, [www.eeri.org](http://www.eeri.org), Feb 2006.
33. **Qaisar Ali**, Mazhar Ali and Akhtar Naeem, [2006] "Uniaxial compression study of the brick masonry work used in Pakistan", Tokyo International workshop on Earthquake Disaster Mitigation for Safer Housing, November 22 2006, Tokyo.
34. **Qaisar Ali** and Akhtar Naeem, [2006] "Shear Damage Studies of Brick Masonry Structures, Experimental and Numerical Observations", Tokyo International workshop on Earthquake Disaster Mitigation for Safer Housing", (Plenary session), November 23 2006, Tokyo.
35. **Qaisar Ali**, [2006] "Seismic Risk Reduction for Education Institutions", British Council Conference, British Council, Peshawar, Jan 2006.
36. **Qaisar Ali**, [2006] "Building Code for Pakistan", Capital Development Authority, Islamabad, Aug 2006.
37. **Qaisar Ali**, [2006] "Case Study of Pakistan Earthquake Housing Reconstruction", Aseismic Building Technology Acceptable to Communities", 17th November 2006 at JICA Hyogo Office 2nd floor a pre-workshop event of Tokyo International Workshop 2006 on Earthquake Disaster Mitigation for Safer Housing organized by Building Research Institute (BRI) and United Nations Centre for Regional Development (UNCRD, Nov 2006).
38. **Qaisar Ali** and Taj Mohammad, [2006] "Stone masonry residential buildings", World Housing Encyclopedia, Earthquake Engineering Research Institute, EERI, USA, [www.eeri.org](http://www.eeri.org).
39. **Qaisar Ali** and Akhtar Naeem et. al, [2005] "Reconnaissance Report on the 8<sup>th</sup> October 2005 Earthquake", Earthquake Engineering Research Institute, EERI, USA, [www.eeri.org](http://www.eeri.org), Nov 2005.
40. **Qaisar Ali**, [2005] "Unreinforced brick masonry residential buildings", World Housing Encyclopedia, Earthquake Engineering Research Institute, EERI, USA, [www.eeri.org](http://www.eeri.org), Oct 2005.
41. **Qaisar Ali**, [2005] "Revisions of Pakistan building codes and housing for the earthquake victims", International Housing Conference Lahore, Pakistan Engineering Council, Dec 2005 Lahore, Pakistan.
42. **Qaisar Ali**, [2005] "Uncertainties in Seismology and Earthquake Engineering - an unexpected seismic disaster in Pakistan", Rose School, European Centre for Training &

## PHD and M.SC RESEARCH SUPERVISION (01 Ph.D. and 15 M.Sc.)

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### Ph.D. Research Supervised

1. Evaluation of Response Modification Factors for Reinforced Concrete Frame structures in Pakistan. (2016)

### M.Sc. Research Supervised

1. Evaluating flexural capacity of voided concrete slabs. (2022)
2. Mitigation of seismic pounding in RC frame buildings using viscous passive dampers. (2020)
3. Effects of infill wall modeling on design of reinforced concrete building. (2018)
4. Comparison of approximate analysis method (portal) with more refined FEA method (SAP2000) for static and dynamic lateral load procedures. (2014)
5. Strengthening of existing columns using FRP wrap. (2014)
6. Comparison of Russian Structural Codes with IBC (US) Structural codes in terms of safety and economy for Afghanistan. (2014)
7. Study on seismic performance assessment of Tarbela dam using state of the art finite element techniques. (2013)
8. Comparison of BCP, SP-2007 with IBC 2009 and NBC of India 2005, with regard to the resulting safety and economy from the design of a reinforced concrete building. (2013)
9. To check the suitability of Coarse Aggregate Sources Available in District Nowshera for use in Ordinary Structural Concrete. (2012)
10. Study on evaluation the adhesive properties of various epoxies used for reinforcement anchoring and crack injection. (2012)
11. Engineering Assessment of Coarse Aggregates used in Peshawar. (2012)
12. Performance Evaluation of Dhajji Construction under Dynamic Loading. (2010)
13. Non-Linear static (Pushover) analysis timber frame construction (Dhajji) with masonry infill. (2010)
14. Non-Linear shear Damage Index studies of brick masonry using finite element modeling techniques. (2006)
15. Development of non-linear shear strength constitutive material. (2006)

16. To study the compressive strength and modulus of electricity of brick masonry. (2006)
17. Study on shear modulus of un-reinforced brick masonry system. (2006)

## AWARDS/PROFESSIONAL AFFILIATIONS

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1. University Best Teacher Award, by Higher Education Commission (HEC) in the year 2007
2. European visiting Scholar of the year award by European School for Advanced Studies in Seismic Reduction, Italy in the year 2006.
3. Fellowship award for training in Macedonia, by The Royal Government of Netherlands in the year 2004.
4. Fellowship award for training in China, by Seismological Bureau of China in the year 2002.
5. Merit Scholarship for PhD studies in Science and Technology, by Higher Education Commission, Government of Pakistan in the year 2000.
6. Member American Society of Civil Engineers, **USA**.
7. Member Editorial Board World Housing Encyclopedia Earthquake Engineering Research Institute, (EERI), California, **USA**.
8. Member Building Research Institute **Japan**.
9. Member Asian Center for Engineering Computations and Software, AIT, **Thailand**.
10. Member Board of Governors KPPRA.
11. Member Pakistan Engineering Council.
12. Member Revision / Updation of Building Code of Pakistan Committee, PEC.
13. Member Reconstruction Modules for Earthquake Affected Areas Committee, PEC.
14. Member Academic Council, University of Engineering. & Technology, Peshawar, Pakistan.
15. Member Board of Studies University of Engineering. & Technology, Peshawar, Pakistan.
16. Member Board of Trustees for GP Fund University of Engineering. & Technology, Peshawar, Pakistan.
17. Member Institutions Affiliation Committee University of Engineering. & Technology, Peshawar, Pakistan.

## SOFTWARE DEVELOPMENT

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The main algorithm of the following software has been developed by Dr. Qaisar Ali.

- **SAD**: Slab analysis and design software based on ACI Code
- **3RP**: Software for solution of three reservoir problem in hydraulics
- **SMA**: Strong Motion Analysis, software for earthquake data analysis
- **SDA**: Shear Damage Index, software for shear damage studies in masonry structures



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# Dr. Mohammad Ashraf

PhD Civil/Structural Engineering

Tel(Office) : +92 91 9216775, Fax : + 92 91 9218223

[mashraf@uetpeshawar.edu.pk](mailto:mashraf@uetpeshawar.edu.pk), [engineerashraf@yahoo.com](mailto:engineerashraf@yahoo.com),

Associate Professor, Department of Civil Engineering, UET Peshawar Pakistan

Postal Code (25000)

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## KEY STRENGTHS

Seismic Retrofitting, Structural and Damage Assessment, Finite Element Modeling, Static & Dynamic Analysis of Structures, Design of Masonry, Concrete and Steel Structures

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## CURRENT POSITION

Associate Professor, Department of Civil Engineering, UET Peshawar with effect from January 21, 2013

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## QUALIFICATION

1. PhD Structural Engineering, University of Engineering and Technology, Peshawar, December 24, 2010
  2. MSc Structural Engineering, University of Engineering and Technology, Peshawar, June 27, 2005
  3. BSc Civil Engineering, University of Engineering and Technology, Peshawar, March 20, 1999
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## PROFESSIONAL EXPERIENCE

### A. UNIVERSITY OF ENGINEERING AND TECHNOLOGY, PESHAWAR

1. **Professor** (2021 to-date)
2. **Associate Professor** (January 21, 2013 to 2021)
2. **Assistant. Professor** (April 01, 2009 to January 20, 2013)
3. **Lecturer Permanent** (June 18, 2002 to March 31, 2009)
4. **Lecturer Contract** (October 16, 2000 to June 17, 2002)

## JOB DESCRIPTION

### a. Teaching:

- \* Taught Structural Engineering, Mechanics of Solids and Civil Engineering Drawing at under graduate level, and Dynamics of structures at post graduate level
- \* Supervised a number of undergraduate student's projects

### b. Research:

- \* Development of low-cost and efficient retrofitting technique for unreinforced masonry building as part of PhD research
  - \* Worked on quasi-static and shake table testing of stone masonry, Dhajji unreinforced and confined brick masonry buildings
  - \* Seismic Retrofitting of various unreinforced masonry buildings, e.g. DHQ Hospital Swabi, Schools in Bam Iran, Swat Archaeological Museum, etc.
  - \* Structural Design of foundation for 6 m x 6 m shake table and pseudo dynamic testing facility at earthquake engineering center UET Peshawar.
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- \* A number of shake table and quasi-static testing on various structural systems

**c. Consultancy**

- \* Geotechnical Investigation of various sites in Pakistan and Afghanistan
- \* Structural design/vetting of Governor House Nathiagali, Government College Nathiagali, Swat Archaeological Museum, PTET Tele House Islamabad, various School Buildings in earthquake affected area
- \* Structural and damage assessment of various buildings with in country and abroad, e.g. Ayub Medical Complex Abbottabad, DHQ Hospital Swabi, DHQ Hospital Mansehra, Special Education School Kohat, Schools in Bam Iran, Reman Baba Mazar, Peshawar, Swat Archaeological Museum, Government Commerce College Mansehra, Swat Central jail, Police Public School, Peshawar etc.
- \* Retrofitting/Rehabilitation scheme design for Govt Commerce College Mansehra, Swat Archaeological Museum, DHQ Swabi, PTET Tele House, AJK Supreme Court and High Court buildings Muzaffarabad, School in Bam (Iran)

**d. Others**

- \* Worked on the development of Interim Seismic Building code, retrofitting manual, field practicing manual, modular design of schools, hospital and residential units, etc for Provincial Government of Khyber Pakhtunkhwa
- \* Working as reviewer for Journal of Earthquake Engineering, Mid America Earthquake Engineering Center, UIUC USA.
- \* Taught Building Construction and Drawing, Strength of Materials-I, Strength of Materials-II, Structural Engineering
- \* Conducted various training and short courses on Computer Aided Structural Analysis and design of concrete and steel structures, Design of pre-stressed concrete members, etc.

**B. Engineering Consultant International Limited (ECIL) Karachi**

**Assistant Planning and Monitoring Engineer** (Apr 01, 1999- Oct 15, 2000)

**JOB DESCRIPTION**

- Supervision of School Building in Hazara Division (Mansehra, Battagram & Kohistan)
- Planning and monitoring of about 450 Schools Scattered in Hazara Division

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**SPECIALIZED TRAINING**

- Six months training at University of Illinois at Urbana Champaign, USA on state-of-the-art testing facilities for testing structures, specialized courses
- A specialized course on the nonlinear analysis and design of masonry and concrete structures at ACECOMS Asian Institute of Technology, Thailand.
- Full semester course on seismic design and retrofit of bridges at EU center University of Pavia, Italy

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**PUBLICATIONS**

**A. HEC Approved International Journal Publications (Impact Factor):**

- Mohammad Ashraf**, Akhtar Naeem Khan, Amjad Naseer, Qaisar Ali and Bashir Alam, 2012. "Seismic Behavior Of Unreinforced and Confined Brick Masonry Walls before and after Ferro-Cement Overlay Retrofitting", International Journal of Architectural Heritage: Conservation, Analysis, and Restoration, 6:6, 665-668
  - Khan Shahzada, Akhtar Naeem Khan , Amr S. Elnashai **Mohammad Ashraf**, Mohammad Javed and Amjad Naseer, 2012. "Experimental Seismic Performance Evaluation of Unreinforced Brick Masonry Buildings"
-

3. Qaisar Ali, Tom Schacher , **Mohammad Ashraf**, Bashir Alam, Akhtar Naeem, 2012. "In-Plane Behavior of Dhajji-Dewari Structural System (Wooden Braced Frame with Masonry Infill)" Earthquake Spectra, Volume 28, No.3, pages 835-858
4. Naveed Ahmad, Qaisar Ali, **Mohammad Ashraf**, Bashir Alam and Akhtar Naeem, 2012. "Seismic Vulnerability of The Himalayan Half-Dressed Rubble Stone Masonry Structures, Experimental and Analytical Studies" Journal of Natural Hazards and Earth System Sciences, Vol. 12, No. 11, 3441-3454
5. M. Fiaz Tahir, Qaisar-Uz-Zaman, **M. Ashraf**, Afaq Ahmad, 2013. "Effect of Mild Steel Strip Confinement on Ductility Ratio of RC Columns", Life Science Journal 2013; 10 (12s), 539-543
6. Qaisar Ali, Akhtar Naeem Khan, **Mohammad Ashraf**, Awais Ahmad, Bashir Alam, Naveed Ahmad, Mohammad Javed, Shahzad Rahman, Mohammad Fahim, Mohammad Umar, 2013. "Seismic Performance of Stone Masonry Buildings Used in the Himalayan Belt", Earthquake Spectra, Volume 29, No.4, pages 1159-1181
7. M. Fiaz Tahir, Qaisar-Uz-Zaman, M. Rizwan, **M. Ashraf**, M. Yaqub, 2014. "Experimental Behavior of RC Columns, Confined with Stirrup and Strips, Under Cyclic Axial Load", The Arabian Journal of Sciences and Engineering, DOI 10.1007/s13369-014-0968-z
8. Zeeshan Ahmad, Khan Shahzada, Bora Gencturk, Akhtar Naeem Khan, Rashid Rehan, Muhammad Fahad, Muhammad Ashraf & Zaigham Ali, 2015. "Seismic Capacity Assessment of Unreinforced Concrete Block Masonry Buildings in Pakistan Before and After Retrofitting", Journal of Earthquake Engineering, 19:357–382, 2015
9. Qaisar Ali, Naveed Ahmad, Tom Schacher, **Muhammad Ashraf** & Muhammad Rashid, 2017. "Shake Table Tests on Single Storey Dhajji Dewari Traditional Buildings" International Journal of Architectural Heritage: Conservation, Analysis, and Restoration, <https://doi.org/10.1080/15583058.2017.1338789>
10. Naveed Ahmad, Asif Shahzad, Muhammad Rizwan, Akhtar Naeem Khan, Syed Muhammad Ali, **Muhammad Ashraf**, Amjad Naseer, Qaisar Ali, Bashir Alam, 2017. "Seismic Performance Assessment of Non-Compliant SMRF Reinforced Concrete Frame Structure: Shake-Table Test Study" <https://doi.org/10.1080/13632469.2017.1326426>
11. Eid Badshah, Amjad Naseer, **Muhammad Ashraf**, Feroz Shah, and Kareem Akhtar, 2017. "Review of Blast Loading Models, Masonry Response, and Mitigation", Shocks and Vibrations, Volume 2017, Article ID 6708341 <https://doi.org/10.1155/2017/6708341>
12. Hizb Ullah Sajid, **Mohammad Ashraf**, Qaisar Ali, Sikandar Hayat Sajid, 2017. "Effects of vertical stresses and flanges on seismic behavior of unreinforced brick masonry", Engineering Structures 155 (2018) 394–409, <https://doi.org/10.1016/j.engstruct.2017.11.013>
13. Junaid Akbara, Naveed Ahmad, Bashir Alam and **Muhammad Ashraf**, 2018. "Seismic performance of RC frames retrofitted with haunch technique", Structural Engineering and Mechanics, Vol. 67, No. 1 (2018) 1-8, DOI: <https://doi.org/10.12989/sem.2018.67.1.001>

#### **B. HEC Approved National Journal Publications (Category Y)**

1. Waheed-ur-Rehman, Amjad Naseer, Rashid Rehan, **Mohammad Ashraf**, Muhammad Ibrar, 2012. "Performance of Brick Masonry Cavity Walls with Different Wall Ties", Journal of Engineering and Applied Sciences, Vol. 31 No.2, July-December 2012, pages 26-31



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2. Yasir Irfan Badrashi, Qaisar Ali, **Mohammad Ashraf**, Muhammad Rashid, 2016. "Seismic Design Characterization Of RC Special Moment Resisting Frames In Pakistan-Field Survey To Laboratory Experiments" Journal of Engineering and Applied Sciences (JEAS), ISSN 1023-862X, eISSN 2518-4571, Vol. 35, No. 2 July-December 2016

#### C. Other International Journal Publications:

1. **Mohammad Ashraf**, Akhtar Naeem Khan, Qaisar Ali, Khan Shahzada and Amjad Naseer, 2011. "Experimental Behavior of Full Scale URM Building Retrofitted with Ferrocement Overlay", Advanced Materials Research Vols. 255-260, pp 319-323
2. Azmat Ullah, Khan Shahzada, Akhtar Naeem Khan, Amjad Naseer, **M. Ashraf** and M. Shoaib, 2011. "Seismic Resistance of Unreinforced Brick Masonry Buildings: An Experimental Study", Advanced Materials Research Vols. 255-260, pp 2622-2626
3. Khan Shahzada, Akhtar Naeem Khan, Amr S. Elnashai, Amjad Naseer, M. Javed, **M. Ashraf**, 2011. "Shake Table Test of Confined Brick Masonry Building", Advanced Materials Research Vols. 255-260, pp 689-693
4. Muhammad Shoaib, Amjad Naseer, Khan Shahzada, Akhtar Naeem Khan and **M. Ashraf**, 2011. "Earthquake Disaster Mitigation through Retrofitting of Unreinforced Concrete Block Masonry Buildings" Advanced Materials Research Vols. 255-260, pp 2627-2631
5. Naveed Ahmad, Qaisar Ali, **Mohammad Ashraf**, Akhtar Naeem and Bashir Alam, 2012. "Seismic Performance Evaluation of Reinforced Plaster Retrofitting Technique for Low Rise Block Masonry Structures" International Journal of Earth Science and Engineering (IJEE), Vol 05, No. 02.
6. Naveed Ahmad, Qaisar Ali, **Mohammad Ashraf**, Akhtar Naeem and Bashir Alam, 2012. "Performance Assessment of Low-Rise Confined Masonry Structures For Earthquake Induced Ground Motions ", International Journal of Civil and Structural Engineering, Vol. 2, No. 3, 842-859
7. **Mohammad Ashraf**, Mohammad Javed, Amjad Naseer, 2013. "A Mechanics based Analytical Model for Evaluating Seismic Performance of Unreinforced Masonry Building Retrofitted with Wire Mesh", Recent Trends in Civil Engineering and Technology, Volume 3, Issue 1, 1-7
8. Sardar Atta Ur Rehman, **Mohammad Ashraf**, Mohammad Adil, 2015. "Shear Strength Evaluation of Strengthened Unreinforced Brick Masonry Walls by Using Shotcrete" ARPJ Journal of Science and Technology, Vol. 5, No. 3, March 2015, pages 138-144
9. Hizb Ullah Sajid, **Muhammad Ashraf**, Shahid ul Islam, Jowhar Hayat, Riaz Muhammad, Sikandar Hayat Sajid, 2016. "A comparative Study on Code Provisions for Lateral Shear Strength Evaluation Under Pre-compression Effects" ARPJ Journal of Science and Technology, Vol. 6, No. 2, February 2016
10. Naveed Ali, **Muhammad Ashraf**, Haris Alam, Fasih Ahmad Khan, 2016. "Effect of Precompression and Mortar Ratio on the In-plane Shear Strength of Unreinforced Brick Masonry" International Journal of Advanced Structures and Geotechnical Engineering, ISSN 2319-5347, Vol. 05, No. 03, July 2016

#### D. Conference Publications

1. **Mohammad Ashraf**, Amjad Naseer, Akhtar Naeem, Khan Shahzada, 2009. "Seismic Up gradation of Unreinforced Masonry Buildings as a Part of Disaster Management Policy" International Disaster Mitigation Conference-2009, Barhagali, Pakistan, Page 101-120
2. **Mohammad Ashraf**, Qaisar Ali, Akhtar Naeem Khan, Bashir Alam, Amjad Naseer, 2010 "Experimental Study on the Performance of Brick Masonry

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- Piers before and after Retrofitting with Reinforced Plaster” 9th US National & 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, Paper No. 1540
3. Z. Hussain, **M. Ashraf**, A. Naseer, A.N. Khan and Q. Ali, 2009. “Cyclic load testing of full scale un-reinforced brick masonry wall before and after retrofitting” Asia Pacific Network of Centre for Earthquake Engineering Research Workshop 2009, UIUC, USA, August 13-14, 2009.
  4. Qaisar Ali, Tom Schacher, **Mohammad Ashraf**, Akhtar Naeem, Bashir Alam, 2010. “In-plane Behavior of Full Scale Dhajji Walls (Wooden Braced Frame with Stone Infill) under Quasi-Static Loading” 9th US National & 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, Paper No. 1537
  5. Qaisar Ali, Akhtar Naeem, **Mohammad Ashraf**, Bashir Alam, Shahzad Rehman, Mohammad Fahim, Mohammad Awais, 2010, “Shake Table Test on Stone Masonry Model”, 9th US National & 10th Canadian Conference on Earthquake Engineering, Toronto, Canada, Paper No. 1414
  6. Syed Muhammad Ali, Akhtar Naeem, **Mohammad Ashraf**, et al. 2006. “Performance of Engineered and Non-engineered Structures in Northern Pakistan and Kashmir due to October 8, 2005 Earthquake”, 100th Anniversary Earthquake Conference, EERI, USA
  7. Amjad Naseer, Akhtar Naeem Khan, **Mohammad Ashraf**, Khan Shahzada, 2009. “Sustainable and Earthquake Resistant Buildings: A Pakistani Perspective” International Disaster Mitigation Conference-2009, Barhagali, Pakistan, Page 121-128
  8. Khan Shahzada, Akhtar Naeem Khan, Amjad Naseer, **Mohammad Ashraf**, Azmat Ullah, 2009, “Sustainable Buildings in Dera Ismail Khan and Adjoining Areas: An Experimental Study” International Disaster Mitigation Conference-2009, Barhagali, Pakistan, Page 141-152
  9. **Mohammad Ashraf**, Akhtar Naeem Khan, Amjad Naseer, Khan Shahzada, 2010. “An Analytical Model for the Seismic Performance Evaluation of Unreinforced Masonry Building Reinforced with Wire Mesh”, The 13th Japan Earthquake Engineering Symposium, 2010. Tsukuba Japan, Page 4099-4105
  10. Khan Shahzada, Akhtar Naeem Khan, Amr Elnashai, Amjad Naseer, **M. Ashraf**, M. Javed and Giulio Martire, 2010. “Dynamic Response of Confined Brick Masonry Building”, The 13th Japan Earthquake Engineering Conference, 2010. Tsukuba Japan, Page 3958-3965
  11. Yasir Irfan Badrashi, Qaisar Ali, **Mohammad Ashraf**, 2010. “Reinforced Concrete Buildings in Pakistan”, World Housing Encyclopedia, Report No. 159. Earthquake Engineering Research Institute.
  12. Fawad Bilal, Muhammad Yousaf Anwar, Amjad Naseer, **Mohammad Ashraf** and Jawad Khan, 2012. “Rehabilitation of Damaged Civil Infrastructure Using Advanced Materials” International Bhurban Conference on Applied Science and Technology, Islamabad, January 19-12, 2012
  13. Muhammad Ibrar, Amjad Naseer, **Mohammad Ashraf**, Syed Farasat Ali Shah, Muhammad Sajid Khattak, 2012. “Effect of Reinforcement Ratio of Confining Element on the Performance of Confined Masonry walls”, International Conference on “Advanced Concrete Technology & Its Applications-(ACTA-2012), Nov 6-7, 2012
  14. Nouman Khattak, Mohammad Adil, **Mohammad Ashraf**, Naveed Saeed, Bashir Ahmad, Pervez Saeed, 2014. “Bending Behaviour of Reinforced Concrete Sandwich Panels” EUROSTEEL, 2014, September 10-12, Naples Italy
  15. H.U. Sajid, **M. Ashraf**, S.H. Sajid, S. Saeed and I. Azim, 2016. “Effect of vertical stresses on lateral in-plane response of brick masonry walls”
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**CONFERENCE/SEMINAR  
WORKSHOP ATTENDED**

1. 9th US National & 10<sup>th</sup> Canadian Conference on Earthquake Engineering, Toronto, Canada (2010)
2. International Disaster Mitigation Conference-2009, Barhagali, Pakistan (2009)
3. International conference on Seismology, Structures, codes and Disaster Mitigation. Islamabad November 18-19, 2005
4. International workshop on “Use of Seismic Hazard Analysis in Engineering Design” Islamabad August 24-25 2008 under International Collaborative Research Project between NWFP UET Peshawar and UIUC USA
5. 11th Annual Structural Engineering Conference on April 08, 2010 at University of Illinois at Urbana Champaign
6. A Training Workshop on “Proposal Writing for Research Grant” organized by PASTIC/PSF and UET Peshawar, 16<sup>th</sup> February 2012
7. International Seminar on “Fire Resistance and Safety of Buildings in Pakistan” Organized by UET Peshawar and Old Dominion University , Norfolk, , USA, 18<sup>th</sup> June 2005
8. One day Seminar on “Load and Resistance Factor Design (LRFD) in Geotechnical Engineering” UET Texila, July 04, 2005
9. One Week Workshop on “Computer Aided Analysis and Design of Structures” by ACECOMS AIT Thailand, April 07, 2005

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**COMPUTER LITERACY**

Structural Analysis Program, SAP2000, Etab, Extreme Loading Software (ELS), Auto CAD, Micro Soft Word, Excel, Power Point, Matlab, etc

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Dr. Mohammad Ashraf  
Associate Professor,  
Department of Civil Engineering,  
UET Peshawar



# Beenish Saleh (PMP)<sup>®</sup>

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[beenishsaleh@gmail.com](mailto:beenishsaleh@gmail.com)

Address House No: 02, Street No:03,  
G-13/3, Islamabad

Phone 0345-5909232

## Summary

I have 19 years of Professional Experience in the field of Project Management/ Civil Engineering/ Structural Design in Construction Industry. 9 years' experience of working on donor funded Programs for implementation of Infrastructure projects. I am a certified Project Management Professional and have successfully managed one of FCDO's largest infrastructure development Programme.

## Experience

### Manager Engineering & Operations Islamabad Dr Qaisar Ali Associates

January 2022-current



I develop and execute strategies for business development, identify opportunities and secure sound business deals for the company. I oversee operational activities of the branch office and as technical lead, coordinate with the clients to resolve any technical issues on site for ongoing projects. Drafting both technical and financial proposals to help develop the value proposition and articulate the win themes and solution narrative.

### Senior Project Manager-KP & Punjab

IMC Worldwide-Humqadam Programme

January 2019- October2021



- Project & Contracts Management
- Programme Management
- The Team
- Quality Assurance & Control

The Programme comprises of construction of additional facilities in **1389** schools across **16 districts in Punjab and 9 districts in KP**. Currently working as Senior Project Manager-KP & Punjab for 500 active/under construction schools, I am leading one of the largest Infrastructure Programme funded by FCDO, with total Programme **budget of 113M £** and have managed and administered over **50 construction contracts**.

I monitor the contract progress that it is following the submitted construction schedule and proactive monitoring in conjunction with the District teams and Chief Engineers the required quality of the work. The position also requires the timely processing of all payments, Mobilization, Interim accounts, retention and analysis of any contractor's claims.

The position requires day to day interaction with the **donor- FCDO**, third party construction inspection Consultants **TPVI** & interaction with government education department.

Being lead in infrastructure department, I have a team of 3 Construction supervision Managers, 9 Senior District engineers and 35 District Engineers in field. 2 Assistant Project Managers, 3 Project officers and 3 people in design team at head office. **In total I am leading a team of 55 people in field and head office.**

As senior Project Manager, I supported the QA/QC team by ensuring compliance to standards and procedures. This involved monitoring and evaluation to determine quality in relation to established standards, ensuring the prevention of problems through the continuous improvement of processes and site supervision. Support the ongoing activities to achieve the highest possible quality. My duties involved responding to the internal and external auditors and implementation of improved processes and procedures through lessons learned.

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## Senior Structural Engineer

IMC Worldwide-Humqadam Programme



July-2015 – December-2018

During my work as Senior Structural Engineer at IMC Worldwide UK based International **Consulting firm, I have supervised design for 1040 schools in Punjab & 349 schools in KP.** I led structural department with a team of 8 members.

As Senior Structural Engineer, I managed:

- Construction supervision, structural designing and monitoring.
- Providing advice and technical support on all construction related activities.
- Provide informative, timely and effectively presented written reports/numerical data as required.
- Providing Technical assistance to procurement department for Tender documentation and Bid analysis.
- Managing 06 Design Consultants (out sourced) at a time for timely reception of drawings/designs.
- Verification of Invoices from Design consultants and keeping track of the contract value.

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## Construction Manager

Gibraltar Engineering Services



January-2011 - July-2015

I am mother of two wonderful daughters and family is very important in my life. I took time out from routine job to look after my daughters when they were young but made the most out of my stay at home experience by also working as an Entrepreneur. I worked as a Construction Manager in my own company and led the team of skilled labour to execute turnkey housing projects. In this role, I managed to oversee construction projects from conception to completion, coordinating with construction workers, sub-contractors and the client, reviewing work progress on daily basis, mitigating and resolving any site based technical issues. Last but not the least, ensuring quality standards and doing this all on a flexible time schedule that allowed me to work and take care of my family at the same time.

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## Senior Engineer

National Engineering Services Pakistan

February-2007 - October-2010



Subsequent to devastating Earthquake of 2005 in Pakistan, International Donors & NGOs offered their services for the reconstruction work in earthquake hit areas. **Donors of over 140 countries** were involved. **As Senior Vetting Engineer**, I was assigned the task of reviewing design calculations & drawings forwarded by these donors/financing agencies as per latest prevailing codes in Pakistan and **to standardize the construction practice** by strict implementation of these codes.

**A total of 950 projects** were submitted. These include Schools, Colleges, Basic Health Units, Hospitals, Residential Units, Mosques, Shopping centers and Shelters etc.

I was also involved in the **In-House vetting** of structural drawings for the ongoing NESPAK ER division projects.

In this role, I was also involved and actively took part in the **research & development** of new types of construction technologies such as **SCIPs, YTONG, and Light gauge steel structures** etc.

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## Structural Design Engineer

Arif Consulting Engineers Islamabad



January-2006 - January-2007

Structural designing of multistoried commercial and educational buildings. Verifying structural stability of existing building by means of provided drawings & site visits for the provision of additional storey & later on designing of the same for a number of plazas in Islamabad.

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## Junior Engineer

Engineering Project Consultants

Islamabad

October-2002 - December-2005

Structural analysis and remedial design for the existing commercial buildings to make it safe against any structural failure. I have done structural assessment of **10 multi storied buildings**.

Structural Designing of number of Commercial and Residential flats. Preparation of feasibility report for almost 100 buildings to verifying structural stability by means of provided drawings & site visits for the erection of 20-30M towers & other telecom accessories at the roof top. Vetting of multi-storied residential and commercial projects.

Documentation and Report Writing of projects.

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## Education



### Bachelor of Civil Engineering

Graduated with Honors (81%)

University of Engineering & Technology

Taxila 2002

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## Skills

Proficient in use of software like **ETABS, STAAD, SAFE, Auto CAD**. Design of **Concrete, Steel & Masonry structures**. **Retrofitting designs** for structures, **Project and Contract Management, Contract preparation, Negotiation, Tendering and Award procedures**.

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## Projects

Detailed list of projects will be furnished if required.

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## Certifications & Courses

Certified Project Management Professional (PMP)®

Diploma in Project Management- Pakistan Institute of Management 2018

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## Reference

Zafran Khan Team Leader IMC Worldwide Humqadam SCRP Tel: 03495219159 Email: <a href="mailto:zafrans@gmail.com">zafrans@gmail.com</a>	Dr Abdul Hafiz Sheikh Managing Director Engineering Project Consultants Tel: 051-221841-42 Email: <a href="mailto:hafeezshaikh55@yahoo.com">hafeezshaikh55@yahoo.com</a>
Tahir Shamshad Ex. Vice President NESPAK Chief of Party CDM Smith Tel: 92 300854 3683 Email: <a href="mailto:Tahirshamshad@gmail.com">Tahirshamshad@gmail.com</a>	Dr Qaiser Ali Khan Pro Vice Chancellor UET Peshawar Tel: 0333-9194676 Email: <a href="mailto:drqaisarali@uetpeshawar.edu.pk">drqaisarali@uetpeshawar.edu.pk</a>

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# Naveed Ahmad

Civil/Structural Engineer

Registered: Pakistan and USA

## PROFILE

Naveed has ample practical work exposure in structural design and construction complimented by a strong academic background. The theoretical understanding acquired through cutting-edge experimental and numerical researches performed on structures motivated him to propose cost-effective innovative design solutions that meets the essential requirements of applicable codes and standards, and yet economical.

## CAREER

STRUCTURAL DESIGN ENGINEER 2012-2021  
Qaisar Ali Associates

Naveed was relied upon for preparing proposals/expressions of interests, modelling, analysis and design of structures (buildings and bridges) in accordance to the latest codes and standards, supervising and training project employees, top supervision of constructions, report writing/review, project progress meetings and presentations, and research publications.

ACADEMIC POSITIONS 2012-2021  
Department of Civil Engineering, UET Peshawar

Naveed performed numerous teaching/research and development duties in the Department of Civil Engineering. Such as teaching basic engineering courses like mechanics of materials, structural analysis and design to undergraduate students and advanced courses focusing on seismic design, nonlinear analysis and performance-based assessment to postgraduate students. He has extensive experience in experimental testing of structures for extreme lateral loads like earthquakes and has experience of working on different materials i.e. masonry, concrete, wood, and structural steel, and both engineered and non-engineered constructions. He is fond of writing and has published more than 100 research articles in well-reputed journals and international conferences. He has 03 books to his credit. He is the recipient of HEC outstanding research award for best paper.

## ACADEMIC

Postdoc	Stanford University, USA	2021-2022
PhD	ROSE School, ITALY	2008-2011
MSc	ROSE School, ITALY	2006-2008
BSc	UET Peshawar, PAKISTAN	2000-2005

## MAJORS

Civil Engineering  
Structural Engineering  
Earthquake Engineering  
Engineering Seismology

## CONTACT



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<https://www.facebook.com/ANaveed01/>



[www.linkedin.com/in/ANaveed01](http://www.linkedin.com/in/ANaveed01)

## SKILLS

### PROFESSIONAL

- Advanced finite element analysis
- Linear and non-linear modelling of structures
- Static pushover and seismic response history analysis
- Performance-based evaluation and design of retrofitting schemes
- Experimental quasi-static cyclic and shaking-table testing of structures
- Low-cost and advanced isolation and damping devices
- Seismic risk assessment and loss estimation

### COMPUTER PROGRAMS, TOOLS AND PACKAGES

- MS Office, Windows, Apple/Mac OS
- Matlab, Mathcad
- ABAQUS, CSI SAP2000, CSI ETABS, CSI SAFE, CSI Bridge, CSI Perform 3D, CSI Programs, AutoCAD
- OpenSees, SeismoStruct, Ruaumoko, SeismoSoft Tools
- OpenSHA, CRISIS, DeepSoil, OpenQuake

### CODES AND STANDARDS

- UBC-85, UBC-97, IBC-2016 & 2021, SEI/ASCE-07
- ACI 318, ACI 530, LRFD ANSI/AISC 341, 358, 360, NDS
- ASCE 31, ASCE 41

## LANGUAGES

English, Urdu, Pushto, Hindi

## COUNTRY EXPERIENCE

USA, Ireland, China, France, Italy, Germany, Macedonia, Thailand, Nepal, Sri Lanka, Maldives

# Sikandar Sajid, Ph.D.

► Address: DQA Associates, FF27, Liberty Mall, Peshawar, PK ► Email: [shsajid1@gmail.com](mailto:shsajid1@gmail.com)

## Education

Ph.D. in Civil Engineering and Applied Mechanics, McGill University, Montreal, Canada

Expertise: Structural health monitoring, condition assessment of structures, Non-destructive testing, pile integrity testing, risk analysis, statistical analysis for quality control and quality assurance, digital twins of infrastructure.

## Professional Affiliations

- Voting member of ASTM International and sitting on ASTM C.09 committee (Committee for the Nondestructive testing of concrete).
- Pakistan Engineering Council.
- American Concrete Institute.

## Conference Presentations/ Proceedings

- **Sajid S.** and L. Chouinard., "Local Defect Detection Using Non-Contact Sensing Devices for Structural Response Monitoring", SHMII-11: 11th International Conference on Structural Health Monitoring of Intelligent Infrastructure, August 2022, Montreal, Canada.
- **Sajid S.** Chouinard L., "Multiscale Condition Assessment of Concrete Plates with Impulse-response Test", ASCE Engineering Mechanics Institute Conference, John Hopkins University, Baltimore, United States.
- **Sajid S.** and L. Chouinard., "Probabilistic Nondestructive Testing based Quality Control of Concrete Masonry Units", American Concrete Institute Fall 2019 Convention, Cincinnati, Ohio, United States.
- **Sajid S.** and L. Chouinard., "Robustness of Resonant Frequency Test for Strength Estimation of Concrete", Engineering Mechanics Institute 2018 Conference 29<sup>th</sup> May 2018 – 2<sup>nd</sup> June 2018, Massachusetts Institute of Technology, Cambridge, USA
- **Sajid S.** and Chouinard L., "Reliability of Resonant Frequency Test for Strength Estimation of Concrete Using Probabilistic Methods", International Workshop on Structural Health Monitoring, September 11-13, 2017 Stanford University, California, USA
- **Sajid S.** and Chouinard L., "Quality Control in Small Scale Concrete Masonry Production Through Nondestructive Testing", NDT in Canada 2017 Conference, June 6-8, 2017 Quebec City, Quebec - Canada
- **Sajid S.**, & et al., "Using Nondestructive Test for In-situ Strength Evaluation of Concrete Masonry Units", Proceedings of American Society for Nondestructive Testing 24<sup>th</sup> Research Symposium 16-19 March, page 98-104, 2015, Anaheim, California, USA

## Journal Articles

- **Sajid S.**, Chouinard L., Carino N., "Condition assessment of concrete plates using impulse-response test with affinity propagation and homoscedasticity", Mechanical Systems and Signal Processing, Vol. 178, 2022.
- **Sajid S.**, Taras A., Chouinard L., "Defect Detection in Concrete Plates with Impulse-response Test and Statistical Pattern Recognition", Mechanical Systems and Signal Processing, Vol. 161. 2022.
- **Sajid S.** Chouinard L., Frederic L., & et al. "Reliability Analysis of Bridges for Autonomous Truck Platoons", Transportation Research Record, 2022.

- ▶ **Sajid S.**, Chouinard L., Taras A., “Developing a New Understanding of Impulse-response Test for Defect Detection in Concrete Plates”, ASCE Journal of Engineering Mechanics, Vol 148(1), 2022.
- ▶ **Sajid S.** and Chouinard L., “Robustness of Resonant Frequency Test for Strength Estimation of Concrete”, Journal of Advances in Civil Engineering Materials (ASTM International), 8 (2019) 451-462.
- ▶ **Sajid S.** and Chouinard L., “Impulse Response Test for Condition Assessment of Concrete: A Review”, Journal of Construction and Building Materials, 211 (2019) 317-328.
- ▶ **Sajid S.**, Ali S., Carino N., Chouinard L., & et al. "Strength Estimation of Concrete Masonry Units Using Stress-Wave Methods", Journal of Construction and Building Materials, 163 (2018), pp 518-528.
- ▶ Sajid H., Ashraf M., Ali Q., **Sajid S.**, “Effects of Vertical Stresses and Flanges on Seismic Behavior of Unreinforced Brick Masonry”, Engineering Structures 155 (2018) pp. 394-409.
- ▶ Salman S., & et al., **Sajid S.**, “Cost And Performance Optimization of Precast Post Tensioned Pre-Stressed Girder Bridge Superstructures,” Journal of Engineering and Applied Sciences, Vol 23(2), 2015.
- ▶ **Sajid S.**, & et al., " Nondestructive Testing for In-place Strength Estimation of Concrete Masonry Units", INSIGHT – Nondestructive Testing and Condition Monitoring Journal of British Institute of NDT, Vol. 58, Number 3, March 2016, pp. 152-156(5)

## Field Experience

- ▶ Pile Integrity Testing of Daraaj Tower, Islamabad.
- ▶ Research Intern in Parsons Corporation, USA.
- ▶ Nondestructive Testing based quality control of precast concrete structures in Boisclair and Tfiles Inc. Canada.
- ▶ Assisted in static load test of U-tub girder for installation in Orange Line Metro Project, Lahore, Pakistan.
- ▶ Performed nondestructive strength evaluation of concrete in an RC building located in high seismic zone to confirm material and structural compliance of the building with the building code.
- ▶ Research Assistant in Earthquake Engineering Center, University of Engineering and Technology, Peshawar – Pakistan, to perform seismic qualification tests using Shake table.

## Professional References

Prof. Luc Chouinard, Professor, Civil Engineering and Applied Mechanics, McGill University, Montreal – Canada ([luc.chouinard@mcgill.ca](mailto:luc.chouinard@mcgill.ca)).

Prof. Dr. Qaisar Ali, Meritorious Professor, Civil Engineering, University of Engineering & Technology, Peshawar, Pakistan ([drqaisarali@uetpeshawar.edu.pk](mailto:drqaisarali@uetpeshawar.edu.pk)).

Dr. Nicholas Carino, Concrete Technology Consultant, Cleveland, Ohio, United States ([ncarino@roadrunner.com](mailto:ncarino@roadrunner.com)).

# Engr. Fayyaz-Ur-Rahman

Dr. Qaisar Ali Associates, House # P-9, University Campus, University of Peshawar  
+92-334-8424398, enginrfayyaz@gmail.com

## CAREER OBJECTIVE

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To contribute my professional skills as a team player to an esteemed organization with an ever learning and dynamic aptitude serving for self-actualization's prestige.

## EDUCATION

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- **Doctor of philosophy in Civil Engineering**, (In progress)  
**Specialization: Structural Engineering**  
University of Engineering & Technology Peshawar, Pakistan  
**Topic: Seismic collapse assessment of infill walls in reinforced concrete building**
- **Master of Science in Civil Engineering**, (CGPA: 3.73/4.00)  
**Specialization: Structural Engineering**  
University of Engineering & Technology Peshawar, Pakistan (2013-2017)  
**Thesis: Effects of infill wall modelling on design of reinforced concrete buildings**
- **Bachelor of Science in Civil Engineering**, (CGPA: 2.93/4.00)  
University of Engineering & Technology Peshawar, Pakistan (2012)  
**Thesis: To evaluate the mechanical properties of fiber reinforced concrete**

## PROFESSIONAL EXPERIENCE

---

**March 2014 – Till Date:** Design Engineer, **Dr. Qaisar Ali Associates**, Peshawar, Pakistan

### Responsibilities:

- Preparation of finite element models of structures using ETABS, SAP2000 and SAFE
- Structural design, vetting & retrofitting of Reinforced Concrete Buildings and Steel Trusses
- Structural analysis and design of bridges
- Supervision of draftsmen in preparation of structural drawings
- Site visits and meetings with clients and architects regarding various aspects of design projects

### Major Projects:

Completed the structural design, vetting & retrofitting of more than hundred and fifty projects under the supervision of Dr Qaisar Ali. Some of the major projects are given below:

### Design projects

- Structural Design and Detailing of 20 story Dominion Mall, Islamabad (G+15 story with 4 basements).
- Structural Design and Detailing of 17 story Diamond Mall, Peshawar (G+13 story with 3 basements).



- Structural Design and Detailing of 15 story Prime Tower building with piled raft foundation, Peshawar (G+12 story with 2 basements).
- Structural Design and Detailing of 13 story Agfa Heights, Islamabad (G+10 story with 2 basements).
- Structural Design and Detailing of 12 story Town height, Peshawar (G+9 story with 2 basements).
- Structural Design and Detailing of 10 story City Cloth Center, Peshawar (G+7 story with 2 basements).
- Structural Design and Detailing of 10 story Town Prime Apartments, Peshawar (G+7 story with 2 basements).
- Structural Design and Detailing of 14 story Life Care Hospital, Peshawar (G+10 story with 4 basements).
- Structural Design and Detailing of 100 ft Dome at Jamia Haqqania Masjid.
- Structural Design and Detailing of “Standardization of Education and Health facilities in KPK”
- Structural Design and Detailing of “FC buildings with RCC sloping slabs”.
- Structural Design and Detailing of Five Star Hotel with pile foundation, Malam Jaba (G+5 story with 2 basements).
- Structural Design and Detailing of various offices, schools with steel plane trusses, Gymnasiums with steel space trusses, Sheet Piles, Minarets & Mosques.

#### Design retrofitting projects

- Structural capacity assessment and retrofitting of more than 400 IMC schools.
- Structural design retrofitting of Five Star Hotel, Malam Jabba.
- Structural design retrofitting of Five story commercial building, Islamabad.
- Structural design retrofitting of Five story Bahria enclave school building, Islamabad.
- Structural design retrofitting of Five story Bahria enclave hospital building, Islamabad.
- Structural capacity assessment of Five story judicial complex building, DI Khan KPK.
- Structural design retrofitting of Two story Cantt hospital building, Peshawar.

#### Design vetting projects

- Structural design vetting of North-West Hospital Complex, Peshawar (15 story).
- Structural design vetting of Marina heights commercial building, Peshawar (10 story).
- Structural design vetting of steel trusses in Kohat Sports Complex.

### **KEY SKILLS**

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- Well-versed with finite element packages like **SAP2000, ETABS, SAFE, MIDAS** and **Siesmosttruct**.
- Preparation of design and research reports.
- Good communication and writing skills.

### **LANGUAGES**

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- English
- Urdu
- Pashto

### **PUBLICATIONS**

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Fayyaz-ur-rahman., and Qaisar Ali, (2016), “Comparing structural design of infilled frames with bare frame for Seismic Zone 2B”, *3rd Conference on Sustainability in Process Industry (SPI 2016) 19-20th October 2016, UET Peshawar*

Fayyaz-ur-rahman et al, (2019), “Fuzzy logic model for investigating the effect of steel fibers on mechanical properties of concrete” SN Applied Sciences, 3<sup>rd</sup> September 2019.

## REFERENCES

---

**1. Dr. Qaisar Ali**

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+92-3339194676  
[drqaisarali@uetpeshawar.edu.pk](mailto:drqaisarali@uetpeshawar.edu.pk)

**2. Dr. Naveed Ahmad**

Assistant Professor  
Earthquake Engineering Centre  
UET Peshawar  
+92-3340592787  
[naveed.ahmad@uetpeshawar.edu.pk](mailto:naveed.ahmad@uetpeshawar.edu.pk)

# Engr. Muhammad Hamid

Dr. Qaisar Ali Associates, House # P-9, University Campus, University of Peshawar  
+92-315-9442036, engrhamid.civ@uetpeshawar.edu.pk



## CAREER OBJECTIVE

To contribute my professional skills as a team player to an esteemed organization with an ever learning and dynamic aptitude serving for self-actualization's prestige.

## EDUCATION

- **Doctor of Philosophy in Civil Engineering**  
University of Engineering & Technology Peshawar, Pakistan (Enrolled Spring 2021)
- **Master of Science in Civil Engineering**, (CGPA: 3.67/4.00)  
**Specialization: Structural Engineering**  
University of Engineering & Technology Peshawar, Pakistan (2016-2020)  
**Thesis: Mitigation of Seismic Pounding in RC Frame Buildings Using Viscous Passive Dampers**
- **Bachelor of Science in Civil Engineering**, (CGPA: 3.17/4.00)  
University of Engineering & Technology Peshawar, Pakistan (2015)  
**Thesis: Optimization of floor systems in Reinforced Concrete Frame Structures**

## PROFESSIONAL EXPERIENCE

**January 2016 – Till Date:** Design Engineer, **Dr. Qaisar Ali Associates**, Peshawar, Pakistan

### Responsibilities:

- Preparation of finite element models of structures using ETABS, SAP2000 and SAFE
- Structural design, vetting & retrofitting of Reinforced Concrete Buildings
- Supervision of draftsmen in preparation of structural drawings
- Site visits and meetings with clients and architects regarding various aspects of design projects

### Major Projects:

I have completed the Structural design, Vetting & Retrofitting of more than **eighty** reinforced concrete buildings under the supervision of Dr Qaisar Ali. Major ones are listed below:

### Design projects

- Structural Analysis, Design and Detailing of **Marina heights**, Peshawar (G+9 story with 2 basements).
- Structural Analysis, Design and Detailing of **University Tower**, Peshawar (G+10 story with 2 basements).
- Structural Analysis, Design and Detailing of **Dominion Mall and Apartments**, Islamabad (G+16 story with 4 basements).
- Structural Analysis, Design and Detailing of **Victoria Heights**, Peshawar (G+10 story with 4 basements).
- Structural Analysis, Design and Detailing of 80 ft Dome at **Jamia Hassan** Masjid at Charsadda.
- Structural Analysis, Design and Detailing of “**Standardization of Schools and Degree colleges in KPK**”.
- Structural Analysis, Design and Detailing of “**U.E.T Swat buildings**”.
- Structural Analysis, Design and Detailing of **Icon Mall** at Ring Road, Peshawar (G+9 story with 2 basements).
- Structural Analysis, Design and Detailing of **Mushtaq Arcade** at Ring Road, Peshawar (G+10 story with 2 basements).
- Structural Analysis, Design and Detailing of **Al-Hamd Tower** at Ramdas, Peshawar (G+9 story with 2 basements).
- Structural Analysis, Design and Detailing of **Prime Tower** at Warsak Road, Peshawar (G+12 story with 2 basements).
- Structural Analysis, Design and Detailing of **Safe Mall** at University Road Peshawar (G+15 story with 4 basements).
- Structural Analysis, Design and Detailing of **Diamond Mall** at Ring Road Peshawar (G+12 story with 4 basements).
- Structural Analysis, Design and Detailing of **Grand Mall** at Saddar, Peshawar (G+9 story with 2 basements).
- Structural Analysis, Design and Detailing of **Century Mall** at Ring Road Peshawar (G+9 story with 2 basements).
- Structural Analysis, Design and Detailing of **Muhammad Hospital** at Ring Road, Peshawar (G+13 story with 3 basements).
- Structural Analysis, Design and Detailing of **Jehanzeb College** at Swat (G+3 story).
- Structural Analysis, Design and Detailing of **Mushtaq Arcade** at Ring Road Peshawar (G+10 story with 2 basements).
- Structural Analysis, Design and Detailing of various **offices, schools** with steel **plane trusses**, Gymnasiums with steel **space trusses**, Sheet Piles, Minarets & Mosques.



### **Design Retrofitting projects**

- Structural design retrofitting of the existing building of Bank of Khyber, Hayatabad Peshawar.
- Structural design retrofitting of Box Park commercial plaza at Bahria, Islamabad.
- Structural design retrofitting of Sami Tower at Ring Road, Peshawar.
- Peshawar General Hospital, Hayatabad Peshawar (14 storey).

### **Design Vetting projects**

- Structural design vetting of Marina Heights, Peshawar (10 story).
- Peshawar General Hospital, Hayatabad Peshawar (14 storey).
- Muhammad Hospital, Ring Road, Peshawar (17 storey).

**August 2016 –February 2019:** Teaching Assistant, **Dr. Qaisar Ali**, U.E.T Peshawar, Pakistan

### **KEY SKILLS**

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- Well-versed with finite element packages like **SAP2000, ETABS & SAFE**.
- Preparation of design and research reports.
- Good communication and writing skills.
- MS Office, Windows 7, 8 & 10.
- Hafiz-e-Quran.
- Tajweed-Ul-Quran (Dar Ul Qurra, Namak Mandi Peshawar).

### **PROFESSIONAL MEMBERSHIP/ LEADERSHIP POSITION**

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- Member of Pakistan Engineering Council as a Professional Engineer (Reg.# Civil/39986)
- Member of American Concrete institute (Member ID-1374257)
- Member of American Society of Civil Engineers (Member ID-10744365)
- Member of American Society for Testing and Materials (Member ID-1935490)

### **LANGUAGES**

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- English
- Urdu
- Pashto

### **PUBLICATIONS**

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1. Muhammad Hamid, Fayyaz Ur Rahman & Qaisar Ali (2021) "Effects of pounding on the behavior of reinforced concrete frame structures in seismic zone 2B". *Kuwait Journal of Engineering and Research*.  
<https://doi.org/10.36909/jer.11029>

2. Muhammad Hamid et al. (2021), “Optimization of reinforced concrete floor systems”, *Proceedings of the 1st International Conference on Recent Advances in Civil and Earthquake Engineering*, 8th October, 2021, Peshawar, Pakistan, pages 358-360. <https://sites.google.com/uetpeshawar.edu.pk/iccee21/conference-proceedings>

## REFERENCES

---

**1. Dr. Qaisar Ali**

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Department of Civil Engineering  
UET Peshawar  
+92-3339194676  
[drqaisarali@uetpeshawar.edu.pk](mailto:drqaisarali@uetpeshawar.edu.pk)

**2. Dr. Muhammad Ashraf**

Professor  
Department of Civil Engineering  
UET Peshawar  
+92-3349187041  
[engineerashraf@yahoo.com](mailto:engineerashraf@yahoo.com)

**3. Dr. Khan Shahzada**

Professor  
Department of Civil Engineering  
UET Peshawar  
+92-3339217623  
[khanshahzada@uetpeshawar.edu.pk](mailto:khanshahzada@uetpeshawar.edu.pk)

**4. Dr. Naveed Ahmad**

Professor (Associate)  
Department of Civil Engineering  
UET Peshawar  
+92-3340592787  
[naveed.ahmad@uetpeshawar.edu.pk](mailto:naveed.ahmad@uetpeshawar.edu.pk)

# Aamir Raza, PE

- ▶ Address: House P9 (DQA), University Campus, Peshawar, Pakistan
- ▶ Cell # 0092 301 8802893
- ▶ Email: amirraza@uetpeshawar.edu.pk

## Summary

I am a Civil Engineer with Masters in Civil/Structural Engineering. I have 7 years of professional experience in the field of Civil Engineering. My areas of work include project management, report writing, structural analysis and design, and geotechnical design.

## Education

Ph.D. Civil Engineering	University of Engineering and Technology, Peshawar - Pakistan <b>Major: Structural Engineering</b>	Enrolled 2022
M.Sc. Civil Engineering	University of Engineering and Technology, Peshawar - Pakistan <b>Major: Structural Engineering</b>	2022
B.Sc. Engineering	University of Engineering and Technology, Peshawar - Pakistan <b>Major: Civil Engineering</b>	2015

## Professional Experience

- ▶ **Senior Engineer at Dr. Qaisar Ali Associates (DQA) (Oct 2019 – till date)**
  - Working as Senior Engineer/ Project Coordinator at Dr. Qaisar Ali Associates, Peshawar. My duties include, but are not limited to the following,
    - Project planning and management
    - Coordination between clients and DQA staff
    - Technical report writing
    - Analysis and design of earth retaining structures including; anchored piles, braced piles, retaining walls and gabion walls.
    - Design of pile foundation
    - Writing and reviewing structural health assessment reports of buildings
    - Designing retrofit schemes for school buildings
    - Managing site staff
    - Developing report templates
  - As a project manager at DQA, I oversaw the "Rapid Visual Screening" project, which involved screening 1300 schools in KP and Punjab for potential seismic hazards. The schools were built as part of the Humqadam School Construction and Rehabilitation Program (Humqadam-SCRP), a project led by International Management Consultants (IMC, a management consulting firm based

in the United Kingdom) and funded by the Department for International Development (DFID, UK government department).

▶ **Visiting lecturer at University of Engineering and Technology Peshawar (Feb 2020 – Aug 2022)**

- Taught Geotechnical Engineering lab course to undergraduate classes.

▶ **Junior Engineer (Nov 2016 – Apr 2019)**

- Worked as Junior Engineer at BAK Consulting Engineers, Peshawar. Duties and tasks performed at BAK included the following;
  - Preparing PC-I and monthly progress reports
  - Feasibility study and detail design of Jabba Dam – drinking water supply dam in District Khyber of KP
  - Land acquisition survey of Jabba dam project
  - Seepage and stability analysis of small earthen dams
  - Reconnaissance survey of Artistic-2 hydropower project (50 MW) on Ushu river at Kalam
  - Energy calculations of Matalin hydropower project (84 MW) and Artistic-2 hydropower project (50 MW)
  - Hydrological/water availability studies of Artistic-2 hydropower project
  - Structural analysis and design of buildings
  - Reviewing survey and progress reports
  - Worked on different components of Barran Dam – Bannu, Jabba Dam – Khyber, Matiltan HPP – Kalam, Artistic-1 HPP – Dir, Artistic-2 HPP – Kalam

▶ **Teaching Assistant (Feb 2016 – Jun 2018)**

- Teaching Assistant for the course on “**Design of Steel Structures**” and “**Structural Dynamics and Earthquake Engineering**” in the Civil Engineering Department, UET Peshawar.

## Research Publications

- ▶ ***Comparison of voided and solid reinforced concrete slabs***, 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE 2021), October 08, 2021.
- ▶ ***VBA code for modeling and analyzing voided and solid RC slabs in SAP2000***, 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE 2021), October 08, 2021.
- ▶ ***Seismic performance assessment of code non-compliant RC frame Structure***, 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE 2021), October 08, 2021.
- ▶ M.Sc. thesis: “**Investigating Flexural Capacity of Voids in Concrete Slabs.**”
- ▶ Final year project thesis (B.Sc.): “**Seamless Analysis, Design, Drafting and Estimation of Reinforced Concrete Buildings.**”

## Computer Skills

**Software Products:** MS Word, MS Excel, MS Access, SAP2000, ETABS, Geo5, GeoStudio, HEC RAS.

**Programming Languages:** Excel VBA



## Professional Membership

- ▶ Member of Pakistan Engineering Council (lic.# Civil/40303)
- ▶ Student member ASCE
- ▶ Student member ASTM

## Interests

- ▶ Structural Engineering ▶ Reinforced Concrete Design ▶ Hydropower Engineering

## Languages

- ▶ Pashto ▶ Urdu ▶ English

## References

- ▶ Prof. Dr. Qaisar Ali  
Pro Vice Chancellor/ Dean CAME,  
University of Engineering and Technology, Peshawar.  
Email: drqaisarali@uetpeshawar.edu.pk
- ▶ Prof. Dr. Muhammad Ashraf  
Professor, Civil Engineering Department,  
University of Engineering and Technology, Peshawar.  
Email: engineerashraf@yahoo.com

## CURRICULUM VITAE

Name **Engr. Sami Ullah** Age 27 years  
 Res. Address House P9, University Campus, Peshawar Cell No. 0312 4040381  
 Birth Date 20/03/1995 Nationality Pakistani CNIC No. 16101-8833193-3  
 Registered / Professional Engineer Registration No. Civil/52013

<b><u>EDUCATION: -</u></b>	
<b><u>Bachelors</u></b>	
NAME OF UNIVERSITY	<u>UET, Peshawar*</u>
PERIOD	<u>2014-2018</u>
DEGREE / QUALIFICATION RECEIVED	<u>B.Sc. Civil Engineering</u>
<b><u>Masters</u></b>	
NAME OF UNIVERSITY	<u>UET, Peshawar</u>
PERIOD	<u>2020- Till Date</u>
DEGREE / QUALIFICATION RECEIVED	<u>M.Sc. Civil Engineering</u>

\* University of Engineering and Technology Peshawar.

**EMPLOYMENT RECORD**

(AFTER PROFESSIONAL QUALIFICATIONS)

<b>Name and Address of Organization</b>	<b>Inclusive Date From-To</b>	<b>Type of Organization</b>	<b>Designation/ Position</b>	<b>Length of Service (Years)</b>
Dr. Qaisar Ali Associates (DQA), Peshawar	2018–till present date	Private Consultancy	Junior Design Engineer	4

DETAIL OF BUILDING PROJECTS, DESIGNED

<b>S.No.</b>	<b>Project</b>	<b>No. of Storeys</b>	<b>Covered Area (sft)</b>	<b>Address</b>	<b>Firm/ Employer</b>
1	Daraaj Tower	17	600,000	Faisal Town, Isb	DQA
2	Foundation University	6	550,000	Rawalpindi	DQA
3	Oak Vista	9	100,000	Muree	DQA
4	Town Vista	16	344,000	Peshawar	DQA
5	Sunmarc Heights	12	146,000	Peshawar	DQA
6	Glorious Mall & Apartments	14	456,000	Peshawar	DQA
7	Metropolitan Mall	14	495,000	Peshawar	DQA
8	Skyline Tower	12	60,000	New Blue Area, Isb	DQA
9	Noble Health Care Center	12	470,000	Peshawar	DQA
10	D-Mall	19	280,000	Peshawar	DQA
11	TDC at AUP	3	245,000	Peshawar	DQA

# Obaid Ullah Mir

Registered Engineer (Civil)

PEC Reg. No.: Civil/51231

Cell No. 0315-9568117

E-Mail. [Obaid.khan710@gmail.com](mailto:Obaid.khan710@gmail.com)

Location:

House CA-23, University Campus, Peshawar.



## Key Experiences

**Dr. Qaisar Ali Associates (DQA)**

2019 – Present

Projects:

- **IMC Worldwide**  
Seismic structural health assessment by performing In-situ shear strength test of masonry, Numerical Assessment using FEM and by Analytical Non-linear Pushover Analysis.
- **Rapid Visual screening of several school buildings in KP and Punjab.**
- **Structural Design of 4 storey 4 types of RC Framed Structure, Allama Iqbal Open University, Islamabad**

## Computer Skills

**Computer programming and packages**

MICROSOFT OFFICE, WINDOW

**Structural Analysis and Design Software's**

SAP2000, ETABS, SAFE, AutoCAD

**Project Planning and Scheduling Software's**

MS Project, Primavera P6

## Languages

English

Urdu

Pashto

## Education

MSc in Earthquake Engineering

**UET Peshawar, Peshawar, PK.**

2021 – In Progress

## Career

Registered Engineer

**Pakistan Engineering Council, Islamabad.**

2018 – Present

Structural Design Engineer

**Dr. Qaisar Ali Associates**

Office Address: office # 1111 floor no 11 IST Tower  
Blue area Islamabad.

2018 – 2019

Assistant Supervisor Engineer

**Dr. Qaisar Ali Associates**

Office Address: office # 1111 floor no 11 IST Tower  
Blue area Islamabad.

2019 – 2021

Manager Business Development

**Dr. Qaisar Ali Associates**

Office Address: office # 1111 floor no 11 IST Tower  
Blue area Islamabad.

2021 – Present

## Reference

**Dr. Qaisar Ali**

CEO DQA,

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Email. [drqaisarali@uetpeshawar.edu.pk](mailto:drqaisarali@uetpeshawar.edu.pk)

**Dr. Naveed Ahmad**

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Civil Engg Department,

UET Peshawar, Peshawar, PK

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# Muhammad Ejaz Ahmad



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PEC Registration No: CIVIL/51229

Postal Address:

FF27-29, Liberty Mall, Opposite Airport  
Runway, University Road, Tehkal Peshawar

## Education

Degree Title	Institution	Year	CGPA/Marks
<b>M.Sc.</b> Structural Engineering	University of Engineering and Technology, Peshawar, KP, Pakistan	2020 - Present	In progress
<b>B.Sc.</b> Civil Engineering	University of Engineering and Technology, Peshawar, KP, Pakistan	2014 - 2018	3.07 / 4.00
<b>HSSC</b> Pre-Engineering	Board of Intermediate and Secondary Education Peshawar	2012 - 2014	855 / 1100
<b>SSC</b> Science	Board of Intermediate and Secondary Education Peshawar	2010 - 2012	852 / 1050

## Work Experience

**Dr. Qaisar Ali Associates**  
**Senior Engineer**

August 2021 – Present

My job description includes working on different design and assessment projects, field surveys and preparation of reports.

**MK Consultus Pakistan in collaboration with Currie & Brown UK Ltd**  
**Programme Intern**

April 2021 – June 2021

I was leading and delivering on the collection of the *Pakistan Disputes Survey 2021*.

**University of Engineering and Technology, Peshawar, KP, Pakistan**  
**Departmental Coordinator (UETP) (Part-time)**

Oct 2020 – April 2022

I was engaged in a World Bank-funded project between UETP and the Planning & Development Department (P&DD) of Govt. of KP. The main objective of this project is to introduce and implement BIM in the departments of P&DD and to make the AEC industry smarter.

**University of Engineering and Technology, Peshawar, KP, Pakistan**  
**Visiting Lecturer**

Feb 2020 – Nov 2020

I taught the theory and laboratory courses of “*Structural Analysis*” to the undergraduate students of the Department of Civil Engineering.

**University of Engineering and Technology, Peshawar, KP, Pakistan**  
**Reporting Officer (Part-time)**

Dec 2019 – Dec 2021

My job description was to prepare reports of the tests being conducted on civil engineering construction material at the “*Material Testing Laboratory*” of the Department of Civil Engineering.

**University of Engineering and Technology, Peshawar, KP, Pakistan**  
**Research Assistant (Part-time)**

Nov 2019 – Aug 2021

I assisted the researchers in various research projects at the “**Department of Civil Engineering**”, including:

- Performing basic tests on materials and quasistatic tests on prisms and wallets
- Analysing test data and technical reports writing
- Supervision of undergraduate Final Year Projects

**University of Engineering and Technology, Peshawar, KP, Pakistan**  
**Teaching Assistant (Part-time)**

**Feb 2019 – Aug 2021**

I assisted the professors in the courses of

- *Mechanics of Solids*
- *Structural Engineering Software Applications (SAP2000 & GeoStudio)*
- *Structural Analysis*
- *Engineering Mechanics*

**University of Engineering and Technology, Peshawar, KP, Pakistan**  
**Research Assistant (Part-time)**

**Aug 2018 – Feb 2019**

I assisted the researchers in numerous projects carried out at the **Earthquake Engineering Center**, starting in 2018 with an Asian Development Bank-funded project, **TA-8910 NEP: Experimental Verification of School Type Designs in Nepal**<sup>1</sup> have been involved in:

- Basic tests on materials and quasistatic tests on prisms and wallets
- Layout and Construction of Models
- Instrumentation of Models and Shaking Table Tests
- Test Data Analysis and Technical Reports Writing

**Peshawar Development Authority (PDA), Hayatabad, Peshawar, Pakistan**  
**Internee**

**June 2017 – Sep 2017**

I worked as a site supervisor (intern) in the construction of residential flats at **Lalazar Market Hayatabad**.

## Publications

1. Raza, A., **Ahmad, M. E.**, (2021). Comparison of Voided and Solid Reinforced Concrete Slabs. 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (p. 41-45).
2. Ullah, I., **Ahmad, M. E.**, Rahim, M. E., Pervez, S., Raza, A., & Ahmad, N. (2021). Seismic Performance Assessment of Code Non-Compliant RC Frame Structure. 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (p. 1-4).
3. Khan, F. Z., **Ahmad, M. E.**, Ahmad, N. (2021). Shake Table Testing of Confined Adobe Masonry Structures. **Earthquakes and Structures, 2021**.
4. **Ahmad, M. E.**, Khan, F. Z., Ahmad, N. (2020). Seismic Performance Assessment of Adobe Masonry Structures. **NED University Journal of Research – Structural Mechanics, 2020**.
5. Ullah, I., **Ahmad, M. E.**, Ahmad, N., Pervez, S., Abbas, S. Q. (2020). Ductility Factor of RC Frames with weak Beam-Column Joints. **NED University Journal of Research – Structural Mechanics, 2020**.
6. Rizwan, M., Ahmad, N., Akbar, J., Ilyas, B., Ali, A., **Ahmad, M. E.**, ... & Khan, M. A. Z. (2020). Global Seismic Fragility Functions for Low-Rise RC Frames with Construction Deficiencies. **Advances in Civil Engineering, 2020**.
7. **Ahmad, M. E.**, Ahmad, N., Pervez, S., Iqbal, A., Khan, A. Z., Rahim, M. E., ... & Khan, K. (2019). Seismic Performance Evaluation of Modern Bare and Masonry-Infilled RC SMRF Structures. **Advances in Civil Engineering, 2019**.

## Projects

1. Final Quality Assurance Inspection of 412 schools constructed by IMC  
Worldwide.  
Position: Project Manager **June 2021 – July 2021**

<sup>1</sup> [http://www.moepiu.gov.np/downloadfile/Final%20Report%20Revised%20%202022-05-19\\_1582865815.pdf](http://www.moepiu.gov.np/downloadfile/Final%20Report%20Revised%20%202022-05-19_1582865815.pdf)

- |   |                              |
|---|------------------------------|
| 2. Structural Health Assessment of <b>Peshawar General Hospital</b> , Hayatabad Peshawar<br>Position: <u>Assistant Structural Engineer</u>          | <b>Nov 2020</b>              |
| 3. <b>Computerization of Planning and Development Department of KPK</b><br>Position: <u>Departmental Coordinator – UETP</u>                         | <b>Oct 2020 – April 2022</b> |
| 4. Structural Design Vetting of <b>Dr. Mehwish Akhlaq Medical Center</b> , Dargai Dist. Malakand.<br>Position: <u>Assistant Structural Engineer</u> | <b>Sep 2019</b>              |
| 5. Structural and Architectural Design of <b>Farm Services Center</b> (Orakzai Agency) for FAO, UN.<br>Position: <u>Civil Engineer</u>              | <b>July 2019</b>             |
| 6. <b>TA-8910 NEP: Experimental Verification of School Type Designs in Nepal</b><br>Position: <u>Research Assistant</u>                             | <b>Aug 2018 – Feb 2018</b>   |

## Certificates and Training

1. Certificate for engaging as an **Organizer and Member Technical Committee** in 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (2.0 CPD)
2. Certificate for engaging as a **Conference Secretary** in 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (2.0 CPD)
3. Certificate for engaging as a **Webmaster** in 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (2.0 CPD)
4. Certificate for engaging as a **Reviewer** in 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (2.0 CPD)
5. Certificate for engaging as **Author** of Comparison of Voided and Solid Reinforced Concrete Slabs in 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (1.5 CPD)
6. Certificate for engaging as **Author** of Seismic Performance Assessment of Code Non-Compliant RC Frame Structure in 1st International Conference on Recent Advances in Civil and Earthquake Engineering (ICCEE-2021) (1.5 CPD)
7. Certificate of participation in **1st International Conference on Recent Advances in Civil and Earthquake Engineering** (ICCEE-2021) (0.5 CPD)
8. Certificate of completion for online course of **“Introduction to Engineering Mechanics by Prof. Wayne Whiteman”** of the Georgia Institute of Technology (2020)
9. Certificate of completion for online course of **“Understanding Research Methods by Dr. J. Simon Rofo and Dr. Yenn Lee”** of the University of London (2020)
10. Certificate of Appreciation for contributing to **“Renovation and Rehabilitation”** of the Department of Civil Engineering, UET Peshawar (2019)
11. Certificate of attending and completing **“Training of Trainers on Seismic Retrofitting and Strengthening Techniques”** (2019)

12. Presentation on “**Earthquake Emergency Assistance Project**” in Mobile Expo at Center for Disaster Preparedness and Management, University of Peshawar (2019)
13. Secured **86 percentage** in **Field Surveying Training** arranged in Abbottabad by the University of Engineering and Technology, Peshawar, KP, Pakistan (2018)
14. Certificate of participation in the workshop on “**Acing IELTS Exams**” at UET Peshawar (2018)
15. Certificate of merit for securing **A+ grade** in HSSC-I Annual Examination (2013)
16. Certificate of merit for securing **A1 grade** in SSC Annual Examination (2012)
17. Certificate of attending a “**short summer level English language course**” at **NUML** (2012)

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## Computer Skills

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### Computer Programming and Packages

- MS Office, MATLAB

### Structural Analysis and Design Software

- SAP2000, ETABs, SAFE, AutoCAD, Revit, SeismoSignal, SeismoStruct

### Project Management Software

- MS Project, Primavera P6

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## Languages

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Proficient in English, Urdu and Pashto.

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## References

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### Dr. Naveed Ahmad

Visiting Scholar (Stanford University, CA, USA)  
Associate Professor (Civil Engineering Department)  
University of Engineering and Technology, Peshawar, KP,  
Pakistan.

**Email:** [naveed.ahmad@uetpeshawar.edu.pk](mailto:naveed.ahmad@uetpeshawar.edu.pk)

**Phone:** +92-334-0592787

### Prof. Dr. Qaisar Ali

Pro-Vice-Chancellor  
Dean Faculty CAM Engg  
Professor (Department of Civil Engineering)  
CEO – Dr. Qaisar Ali Associates  
University of Engineering and Technology, Peshawar, KP,  
Pakistan.

**Email:** [drqaisarali@uetpeshawar.edu.pk](mailto:drqaisarali@uetpeshawar.edu.pk)

**Phone:** +92-333-9194676



# IRFAN ALI

**Nationality:** Pakistani

**Gender:** Male

**Age:** 27 years

**Cell:** +92-3329356909

**Email:** [engrirfanali3@gmail.com](mailto:engrirfanali3@gmail.com), [irfanali.ta@uetpeshawar.edu.pk](mailto:irfanali.ta@uetpeshawar.edu.pk)

**Postal Address:** FF-485 Deans Trade Centre Islamia Road Peshawar Catt

## EDUCATION

<i>Degree</i>	<i>Institute</i>	<i>GPA/Grade</i>	<i>Year</i>
M.Sc. Structural Engineering	UET Peshawar (Main Campus)	3.40	Last Semester
B.Sc. Civil Engineering	UET Peshawar (Main Campus)	3.39/4	2014-2018
High School/College	Islamia College Peshawar	A-1	2014
Secondary School/Matric	University Public School Peshawar	A-1	2012

## EMPLOYMENT RECORD

<i>Designation</i>	<i>Organization</i>	<i>Duration</i>
1. Structural Engineer	Dr Qaisar Ali Associates	July 2021- Till Date
2. Jr. Structural Engineer	Design Cell Department of Civil Engineering, UET Peshawar	Sep 2020- Jun 2021
3. Junior Structural Engineer	AfD Engineering and Management Consultants	Aug 2019 – Aug 2020
4. Trainee Engineer	NESPAK	Oct 2018 – July 2019

## WORK EXPERIENCE

Project Name	Position Held	Date	Employer
Design of 33 storeys Eclipses	Structural Engineer	July 2022	Dr. Qaisar Ali Associates
Design of 25 storeys Time Square	Structural Engineer	June 2022	Dr. Qaisar Ali Associates
Design of 21 storeys Lush Towers	Structural Engineer	May 2022	Dr. Qaisar Ali Associates
Design of 17 storeys Daraaj	Structural Engineer	May 2022	Dr. Qaisar Ali Associates
Design of 21 storeys Opal Mall	Structural Engineer	April 2022	Dr. Qaisar Ali Associates
Design of 18 storeys Pavilion Excutive	Structural Engineer	April 2022	Dr. Qaisar Ali Associates
Design of 15 storeys Avalon-1	Structural Engineer	Mar 2022	Dr. Qaisar Ali Associates
Design of 7 storeys Jumeirah Gold, Malam Jabba	Structural Engineer	Mar 2022	Dr. Qaisar Ali Associates
Design of 2 storeys City Center Swabi	Structural Engineer	Mar 2022	Dr. Qaisar Ali Associates
Design of 9 storeys Commercial Building	Structural Engineer	Feb 2022	Dr. Qaisar Ali Associates
Design of 22 storeys AFI Tower	Structural Engineer	Feb 2022	Dr. Qaisar Ali Associates
Design of 13 storeys Shimla Apartments (Building-02) Abbottabad with Structural Piles	Structural Engineer	Jan 2022	Dr. Qaisar Ali Associates
Design of 18 storeys Mumtaz Tower	Structural Engineer	Jan 2022	Dr. Qaisar Ali Associates
Design Kalam Apartments and cottages with Structural Piles	Structural Engineer	Dec 2021	Dr. Qaisar Ali Associates

Design of 19 storey Burj Rabbani at Peshawar	Structural Engineer	Dec 2021	Dr. Qaisar Ali Associates
Design of 7 storey Commercial Building at Peshawar	Structural Engineer	Nov 2021	Dr. Qaisar Ali Associates
Design of Structural Piles for Murree Luxury suites	Structural Engineer	Oct 2021	Dr. Qaisar Ali Associates
Design of Structural Piles for PC Hotel Hunza	Structural Engineer	Oct 2021	Dr. Qaisar Ali Associates
Design of 9 storeys Shimla Apartments Abbottabad with Structural Piles	Structural Engineer	Sep 2021	Dr. Qaisar Ali Associates
Design Review and foundation design of Human Slingshot at Malam Jabba Swat	Structural Engineer	Aug 2021	Dr. Qaisar Ali Associates
Design Review and foundation of Giant Swing at Malam Jabba Swat	Structural Engineer	Aug 2021	Dr. Qaisar Ali Associates
Design of 16 Storey I- Tower at DHA Peshawar	Structural Engineer	July 2021	Dr. Qaisar Ali Associates
Design of 9 Storey Dir Height at DHA Peshawar	Structural Engineer	July 2021	Dr. Qaisar Ali Associates
Design/Review and structural assessment of Double Storey Record Room at District Mansehra	Structural Engineer	March 2021	UET Design cell
Design of Double Storey Record Room at District Mansehra	Structural Engineer	Feb 2021	UET Design cell
Refurbishment / Review of building for Establishment of Shangla Sub-Campus, University of Swat	Structural Engineer	Nov 2020	UET Design cell
Structural Design of Cadet College at Bannu	Structural Engineer	Jan 2020	AfD Consultants
Construction Supervision of Liaqat Memorial Hospital Kohat	Assistant Engineer	Dec 2019	AfD Consultants
PROVISION OF NEW Markets, Infrastructure			

Establishment Under 138-USA	Support Engineer	Sep 2019	AfD Consultants
Establishment of Peshawar Zoo	Trainee Engineer	Oct 2018 to Jul 2019	NESPAK

## OTHER PROJECTS

Project	Position	Date	Client
Analysis and design of Parking Steel Shed	Structural Engineer	Feb 2019	Private
Structural Designing of 2 Storeys Residential Building, Sufaid Dheri Peshawar	Structural Engineer	March 2019	Private
Analysis and Design of 4 Seasons Mart, Uni Town Peshawar	Structural Engineer	March 2019	Private
Design Review of footings for 4 Storeys residential building at Peshawar	Structural Engineer	Sep 2019	Private
Structural Design of OH Water Tank	Structural Engineer	Oct 2019	Private
Structural Designing of 3 Storeys Residential Building, Hayatabad Peshawar	Structural Engineer	Jan 2020	Private
Design Review of a Majid, Charsada	Structural Engineer	Jan 2020	Private
Design of Raft Foundation for 5 storey Commercial Building	Structural Engineer	Feb 2020	Private
Design of 3 storeys Confined Brick Masonry Residential Building, Sufaid Dheri	Structural Engineer	March 2020	Private
Design/Review of 3 Storey Residential Building at Charsada	Structural Engineer	March 2021	Private
Design/Review of 3 Storey Residential Building at DHA Peshawar	Structural Engineer	April 2021	Private
Design of 3 Storey Residential Building at Regi Model Town Peshawar	Structural Engineer	April 2021	Private
Design of 3 storey Residential Building	Structural Engineer	Feb 2022	Private

## PROFESSIONAL SKILLS

1. Structural Designing

2. Contract Documentation

3. Office Management



## PROFESSIONAL SOFTWARES

AUTOCAD

SAP 2000

ETABS

SAFE

REVIT

## PUBLICATION(s)

- Muhammad Raheel, Rawid Khan, Arsalaan Khan, Muhammad Taimur Khan, Irfan Ali, Bashir Alam and Behram Wali [2018] “Impact of Axle Overload, Asphalt Pavement Thickness and Subgrade Modulus on Load Equivalency Factor Using Modified ESALS Equation” Cogent Engineering. [doi.org/10.1080/23311916.2018.152804](https://doi.org/10.1080/23311916.2018.152804)
- Imad Said, Dr Qazi Samiullah, Inam Ullah, Naveed Mehmood, Irfan Ali [2020] “Seismic Performance Evaluation of In-Filled RC Frame Structure with and Without Separator Medium between Walls and Frame Components” <https://www.irjet.net/archives/V7/i7/IRJET-V7I7826.pdf>

## LANGUAGES

<i>LANGUAGE</i>	<i>SPEAKING</i>	<i>WRITING</i>	<i>READING</i>
<b>ENGLISH</b>	Good	Excellent	Excellent
<b>URDU</b>	Excellent	Excellent	Excellent
<b>PASHTU</b>	Excellent	Good	Good

## REFERENCES

- **Dr Qaisar Ali**  
CEO, Dr. Qaisar Ali Associates  
Dean CAM UET Peshawar  
**Email:** [naveed.ahmad@uetpeshawar.edu.pk](mailto:naveed.ahmad@uetpeshawar.edu.pk)
- **Dr Naveed Ahmed**  
Associate Professor, Civil Dep, UET Peshawar  
**Email:** [naveed.ahmad@uetpeshawar.edu.pk](mailto:naveed.ahmad@uetpeshawar.edu.pk)

# Engr. Waleed Hassan

Registered PEC Engineer (Civil/51188)



## OBJECTIVE

- I have adequate experience in building and small structures design and have a better command of various American / International design codes and specifications. i.e. ACI, ASTM, UBC-97, IBC, AISC, EUROCODE-2.
- Well experienced and have expertise in using design software like ETABS, SAFE, SAP2000, STAADPRO, Autodesk CAD, Microsoft Office, Primavera P6, and QGIS.

## EXPERIENCE

Junior Structure Engineer	Various High-Rise Building projects located in Peshawar - Islamabad	2 months – Continuing	Building structure design assistance, Drawings verification, Vetting, Drafting, Quantity Estimation
Site Engineer / Assistant Engineer (KARCON PVT LTD)	Rehabilitation of Existing Carriageway (N-55) Dara Adam Khel to Peshawar 34.35km (Highway Project)	2 Years	Structure works In-charge, Daily Progress Report, Monthly Progress Report, Work Schedule Preparation, Design Proposals, Site works Verification, Quantity Surveying
Assistant Site engineer at (SKB Engineering)	Construction of Provincial NADRA HQ Phase V Hayatabad	1 Year	Works Verification, Quantity Surveying, Supervision.
Project Engineer at UET PESHAWAR (Final Year Project)	Construction of 3 story RCC $\frac{1}{4}$ Reduced scale Strength Model	5 Months	Planning, Designing, Construction supervision, Technical Report Writing

## EDUCATIONAL CREDENTIALS

Earthquake/Structural Engineering (M.Sc.)	University of engineering and technology, Peshawar	In Progress
Civil Engineering (B.Sc.)	University of engineering and technology, Peshawar	Graduation: 2018 GPA : 3.14
Pre-Engineering (F. Sc)	Edwards College Peshawar	Passed: 2014
Matric (School)	St Francis high school, Peshawar	Passed: 2012

## SKILLS.

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### SOFTWARE:

- ETABS/SAP/SAFE
- STAADPRO
- Autodesk  
(AutoCAD/ Revit)
- PRIMAVERA P6
- MICROSOFT OFFICE (Word, Excel,  
PowerPoint, Project)
- QGIS

### ABOUT ME:

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**DOB:** 23 March 1996 (Peshawar)

**Current Address:** DHA Peshawar, Sector-B, Blvd-1, House 216, Nasir Bagh Road – Peshawar

**Permanent Address:** P.O box Sardheri Barokhel, Charsadda KPK

**Nationality:** Pakistani

**Contact:** 0332 – 9080519, 0344-8972428

**Email:** [Waleedhasy@gmail.com](mailto:Waleedhasy@gmail.com)

### REFERENCES:

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Can be produced upon request

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## Engr. Asim Hassan (CV)

### (BSc in Civil Engineering)

#### GENERAL INFORMATION

Name: Asim Hassan

Qualification: BSc. from University of Engineering and Technology,  
Peshawar (2017-2021)

Experience: More than 2 years of working experience in architectural and  
structural design of RC residential and commercial buildings

Date of Birth: 05 March 1999

Contact: 0092 343 9043 963

Email: [17pwciv4771@uetpeshawar.edu.pk](mailto:17pwciv4771@uetpeshawar.edu.pk), [enr.asim343@gmail.com](mailto:enr.asim343@gmail.com)

Present Address: Malokra Chinar, Oghi, Mansehra, Khyber Pakhtunkhwa, Pakistan.



#### SHORT BIOGRAPHY

Mr. Asim received his bachelor's in civil engineering degree from University of Engineering & Technology Peshawar Pakistan in 2021. Mr. Asim completed his Intermediate education from swat board. All education and studies are in English.

#### EDUCATION

**Bachelor's in Civil Engineering** from University of Engineering & Technology Peshawar, Pakistan in session 2017-2021

**Faculty of Science in Pre-Engineering** from Government Degree College, Mingora, Swat in session 2015-2017

**Matriculation in Science** from Hira Model school Gulkada No. 2 , Mingora, Swat in session 2013-2015

#### PROFESSIONAL EXPERIENCE HISTORY

Name of Institute	Position	Duration
Dr. Qaisar Ali Associates, Peshawar, Pakistan	Junior Structural Design Engineer	February 2019 - Continued

#### INTERNSHIPS / SEMINARS ATTENDED

1. Mr. Asim worked as Internee at Dr. Qaisar Ali Associates, Peshawar (2019 - 2020)
2. Mr. Asim have been organizer in different social activities such as:  
Job Fair 2017, Orientation Ceremony 2017, ICE Inductions 2017, Seminar on Seismic Assessment and Retrofit Design of Existing Buildings: Art or Science (2017), Workshop on Career Planning (2017)



**PROFESSIONAL AFFILIATIONS / MEMBERSHIPS**

Mr. Asim has professional affiliation with Pakistan Engineering Council (PEC), with

1. Membership Number: CIVIL / 62734

**AWARDS / ACHIEVEMENTS**

1. Diya Pakistan Scholarship holder 2017 -2021
2. First position holder in Swat inter- schools' competition
3. Topper of Hira Model School, Gulkada, Swat.

**SOFTWARE SKILLS**

Mr. Asim has good understanding of the following softwares:

**FEA software:** SAP2000, ETABS, SAFE, Seismostruct and ABAQUAS

**CAD/BIM:** Autodesk Revit, Autodesk AutoCAD, Autodesk AutoCAD Architecture

**MATHS and STATISTICS:** MATLAB, MS Office (Excel, Word, PowerPoint), QGIS

**PROGRAMMING:** Visual Basic (MS Excel)

**PROFESSIONAL DESIGNS / FIELD PROJECTS****A) Structural Design Projects:**

S. No	Project Name	Location	Work Description
1	Town Vista (16 stories)	Peshawar	Modeled, analyzed, and designed.
2	Sun marc Heights (13 stories)	Peshawar	Modeled, analyzed, and designed.
3	Fuji foundation i. Artificial Limb Center ii. Nursing College iii. Nursing Hostel	Rawalpindi	Carried out detailed quantity estimation and optimization with different reinforcement detailing configurations.
4	Bagheecha Mall	Swabi	Modeled, and analyzed

**B) Architectural Design Projects:**

S. No	Project Name	Work Description
1	DC Office, Mansehra  i. DC Main Block ii. Block B iii. Masjid	1.Prepared detailed 3D architectural model in Autodesk Revit and carried out photo realistic rendering and made walkthrough animation in Lumion. 2.MEP work 3. Quantity estimation in Revit
2	Mudassir Khan Villa, Swabi	Carried out architectural design which Involved  <ul style="list-style-type: none"> <li>○ Space planning</li> <li>○ 2D Floor Plans, Elevations</li> <li>○ 3D Modeling</li> <li>○ Photo realistic rendering</li> <li>○ Walkthrough animation</li> <li>○ Quantity estimation</li> </ul>
3	Mr. Imran House, Sardaryab	
4	Mr. Waqar Ahmad House, Peshawar	
5	Mr. Izaz Ali House, Peshawar	
6	Mr. Ghulam House, Mansehra	
7	Mr. Raghbat Khan Apartments, Mansehra	
8	Inspector Muhammad Fayyaz House, Mansehra	
9	Mr. Saddam Gul House, Peshawar	
10	Dr. Hussain Ahmad Faizy House Kohistan	

**REFERENCES:****Prof. Dr. Qaisar Ali**

Dean, Faculty of Civil, Agricultural and Mining Engineering  
 Department of Civil Engineering, UET Peshawar, KP, Pakistan

Email: [drqaisarali@uetpeshawar.edu.pk](mailto:drqaisarali@uetpeshawar.edu.pk)

Contact: 0092-333-9194676

**Engr. Muhammad Israr Khan**

PhD Scholar at Northeastern University, China  
 Under the supervision of Prof. Dr. Shuhong Wang

Email: [1229524533@qq.com](mailto:1229524533@qq.com)




Contact / WeChat: 131 4980 81

**Any other details will be furnished on demand.**

# —○ SHAH FAISAL ○—

CIVIL ENGINEER

## CONTACT

 +92 317 1958735  
 +92 317 1958735  
 faisalkhttk88@gmail.com

## PROFILE

I am a young, fresh graduate and an enthusiastic candidate and I seek an opportunity which will help me to develop my skills and will utilize my knowledge in whatever areas of civil engineering. I would welcome and whole heartedly accept any position in the capacity of junior structural engineer, site supervisor, junior planning engineer and quantity surveyor. I would happily serve small to medium size engineering consultancies and construction companies as far as the work environment is cooperative, friendly and opportunistic.

## SKILLS

- CSI ETABS
- CSI SAP 2000
- AUTODESK AUTOCAD
- AUTODESK REVIT
- MICROSOFT OFFICE
- PYTHON 3.0

## EXPERIENCE

### Dr. Qaisar Ali Associates

September 2021- present

Office Address: office # 1111 floor #11 IST Tower Blue Area Islamabad

### Work Scope:

- STRUCTURAL MODELLING IN CSI SAP 2000, CSI ETABS
- QUANTITY ESTIMATION OF STEEL AND CONCRETE
- SITE VISITS OF DIFFERENT PROJECTS

## EDUCATION

### B.Sc. Civil Engineering

2017-2021

CGPA: 3.72/4.0

Institute: University of engineering & Technology, Peshawar

### M.Sc. Structural Engineering

In progress

Institute: University of Engineering & Technology Peshawar

## PROJECTS UNDERTAKEN:

- STANDARDIZATION OF GOVT. DEGREE COLLEGES IN KPK
- MUMTAZ TOWER PESHAWAR
- MODELLING OF CITY CENTRE SWABI IN AUTODESK REVIT
- OPAL MALL PESHAWAR
- USMAN MALL PESHAWAR
- ACADEMIC BLOCK UNIVERSITY OF SWAT
- RESCUE 1122 OFFICE IN BANKAD, KOHISTAN

## KNOWLEDGE OF DIFFERENT CODES:

MAAZ BIN SAJJAD

House # F-31, Ghazikot Township, Tehsil & Distt. Mansehra

✉ [maazbinsajjad12@gmail.com](mailto:maazbinsajjad12@gmail.com)    ☎ (+92) 3411918823    [in/maaz-bin-sajjad-3a3282204/](#)  
📧 [maazxeducet@hotmail.com](mailto:maazxeducet@hotmail.com)

Objective

Seeking a career that is challenging and interesting, and lets me work on the leading area of technology, job that gives me opportunity to learn, enhance and innovate my skills in conjunction with company goals and objective.

Education

<b>University of Engineering and Technology (UET)</b> Master of Science in Structure Engineering (Civil Engineering)	<b>Peshawar, Pakistan</b> 2021-Onward
<b>University of Engineering and Technology (UET)</b> Bachelor of Science in Civil Engineering <b>Achieved:</b> Grade A (CGPA=3.34/4.0) <b>Dissertation Project:</b> Bentonite Clay as a partial replacement of cement on Recycled Aggregate strength and durability. <b>Key subject areas:</b> Structure Analysis, Field Survey, Project Management, Reinforced concrete Design,Quantity Survey e.t.c	<b>Peshawar, Pakistan</b> 2016-2020
<b>Board of Intermediate and Secondary Education Abbottabad</b> Intermediate (Pre-Engineering) <b>Achieved:</b> Grade A1 (86% ,943/1100)	<b>Abbottabad, Pakistan</b> 2016
<b>Board of Intermediate and Secondary Education Abbottabad</b> Matriculation (Science) <b>Achieved:</b> Grade A1 (89.36% ,983/1100)	<b>Abbottabad, Pakistan</b> 2014

Work Experience

• Institution / Employer	Position Held	Job Period from	Job Period To
NESPAK	Internee Engineer	15-Jun-2018	15-Sep-2018
<b>Job Description</b> Site Inspection, Preparation of BOQs, Quantity Estimation and Drawing Review.			
• Institution / Employer	Position Held	Job Period from	Job Period To
Dynamic Engineering Solution	Site Supervision and Execution	07-Oct-2020	18-Oct-2020
<b>Job Description</b> Maintenance work e.g Replacement of doors and windows, Concrete Pavement of proposed Road andInstallation of Blocked Sewerage lines for Toilets Block.			
• Institution / Employer	Position Held	Job Period from	Job Period To
M/S Golra Builders	Internee Engineer	1-Jun-2020	5-Oct-2020
<b>Job Description</b> Site Supervision/Inspection, Layout, Preparation of IPCs and BOQs.			



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|-------------------------------|--|------------------------|----------------------|
| <b>Institution / Employer</b> | <b>Position Held</b>                   | <b>Job Period from</b> | <b>Job Period to</b> |
| DQA Associates                | Design Engineer<br>(Structural Design) | 20-Oct-2020            | Till Date            |
- Job Description**  
 Structural Modelling of Different Buildings on ETABS, SAFE and Sap 2000, Preparation of Structural Drawings on AutoCAD, currently working on;
  - Standardization of Health and Education Facilities in KPK according to seismic zones and different Bearing Capacities.
  - Rapid Visual Screening (RVS) of IMC Schools.
  - Providing Different Retrofitting Schemes for Schools in KPK and Punjab.
  - Site Inspection of Schools in FATA under UNDP.
  - Structural Modelling and Analysis of Different Building (Commercial Projects).
  - Structural Health Assessment of Building.

Academic Projects

**Bentonite Clay as a Partial Replacement of Cement on Recycled Aggregates Concrete Strength andDurability (FYP Research Base Project).**

- This research-based project is sponsored by Environmental Protection Agency (EPA) officials as it covers an important aspect of replacing cement to reduce the emission of CO<sub>2</sub> and to eliminate therampant construction waste issue,
- Hence by testing the concrete with replacement of cement and the use of Recycled aggregate, it comes out that the results were satisfactory, such that 25% replacement of bentonite clay with 50%recycled aggregate will yield higher durability satisfaction upon acid and alkali attack and with slightly decrease in compressive strength in normal condition.

**Effect of Silica extracted from Waste Material on the mechanical properties of mortar cube andConcrete Cylinder (In Progress)**

- Silica fume is an excellent admixture for concrete as it leads to better engineering properties. It willreduce thermal cracking caused by the heat of cement hydration; improve durability to attack by sulphate and acidic waters, and increase strength
- The rampant increase in the waste production i.e (Year 2020; 2.12 billion tons) lead the world to the vulnerable catastrophe thus to improve the life of human being it is essential to either reduce, recycleor reuse this waste in appropriate way to enhance human well-being.
- The studies have been taken out to check the characteristics of silica extracted from waste and now it is being tested against durability and strength to conclude the result

Certificate Awards and Achievements

- Registered Engineer with Pakistan Engineering Council (PEC No Allotted: CIVIL/58842)
- Certified Microsoft office specialist for Office Word 2013
- Doing Various Courses offered by Govt. of Pakistan to improve individual skills online on DigiSkills(Virtual University)
- Be a member of cultural society
- Participated and conducted in Sports event held at university.
- Real-State Marketing.
- Surveying And Levelling Course at UET Peshawar which include Topographic Survey, Contouring of land, Levelling, Road Profiling (Long and X-Section), Traversing.

Key Skills

Computer Skills

- Competent with Microsoft Word, Excel, PowerPoint, Outlook, Internet Explorer.
- Good command on Engineering Software’s: Primavera, QGIS, AutoCAD (2D and 3D), ETABS,SAFE, Geo-Studio, Sap2000, MATLAB (Programming Language).

**Communication skills**

- Excellent verbal, written and visual communication skills both in office environment and with external stakeholders

**References**

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Contact no +923359050150

**Prof. Dr Qaisar Ali**

Deans Faculty, UET Peshawar  
CEO, Dr Qaisar Ali Associates (Structural Designing)  
Contact no +92-333-9194676

**Engr. Waqar Ahmad**

AD Planning, MDA Mansehra.  
Contact no +923349234637

# DR. QAISAR ALI ASSOCIATES

Structural Design Specialists



## Flagship Projects

30+

Years of Experience

1000+

Completed Projects



**PC Hotel Malamjabba**

Covered Area: 1,80,000 sft



**Dominion Mall Rawalpindi**

Covered Area: 25,00,000 sft



**PC Hotel Attabad**

Covered Area: 1,30,000 sft



**Lush Towers, Peshawar**

Covered Area: 1,100,000 sft



**Eclipse Living Resort and Mall, Peshawar**

Covered Area: 1,700,000 sft

## Other Projects

1. Emporium, Islamabad
2. Daraaj Tower, Islamabad
3. Silk Mall, Rawalpindi
4. Asia Mobile Center, Rawalpindi
5. Oakridge Luxury Suits, Murree
6. Diamond Mall, Peshawar
7. Lifecare Hospital, Peshawar

## Contact Details

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