

PORTFOLIO

INTRODUCTION

INTRODUCTION

AA is an Architectural, Town Planning and Engineering Consulting firm registered in Lahore. The firm, formerly operating as ARIF TANVIR ASSOCIATES being established in 1985, is active since then in planning, design and execution of town planning, architectural, engineering, infra-structural development projects. The firm has professionals and sub-professional staff who are well qualified and experienced in architecture, structural, industrial, urban planning, infrastructure design including water supply, sewerage, roads, electrification, and other related project specialization including contracts, construction management and computer applications. We also specialize in preparation of contract documents, tender documents, bill of quantities and estimates. In addition to regular personnel **AA** has number of associates both local and foreign who are available for specialized services in the specific field of expertise, as and when required.

AA also provides consultancy services for Semi-Government/ autonomous bodies, Public and Private Organizations including. National Logistic Cell, Quetta Development Authority, Communication & works Department. Government of Balochistan. Sialkot Chamber of Commerce, Lahore Chamber of Commerce. In addition we have the privilege to provide specialized services for the design of Sheikh Khalifa Bin Zayed Hospital at Quetta, consisting of about 250 beds. The firm has also provided engineering services to international organizations such as COGELEX, ALSTHOM, France; EB-NERA Norway.

The firm has in-house computer setup of more than 12 computers all interconnected through Windows NT networking system including peripherals such as Ink-Jet plotters, and printers.

AA has grown from and maintains close liaison with the industry in Pakistan and is able to reflect and appreciate, due to similar circumstances the field point of view in the conception and planning of housing schemes, infrastructures development, industrial structures and commercial buildings in developing countries. Though conscious of the need to provide Clients with the most modern technology, AA aims to remain practical within the given circumstances. AA's key personnel have worked on large variety of projects, a wide cross-section of which reflects in their biodata's.

Having acquired practice related transfer of technologies they lead in innovation, planning a project, as the local circumstances required.

Staff for **AA** is qualified to handle the following engineering fields:

- **Master Planning, Town Planning & Urban Design**
- **Architecture, Environmental Design**
- **Civil Engineering**
 - i) Highways
 - ii) Bridges
 - iii) Hydraulics
 - iv) Structural Engineering
 - v) Industrial Buildings
- **Public Health Engineering**
- **Electrical Engineering**
- **HVAC Engineering**

ORGANIZATION

1. Name & Address:

Arif and Associates

A/1, Sea Breeze Homes
New Garden Town,
Lahore,
Pakistan.

Voice:

+92425835384
+92425833917
+92425869793

Fax :

+92425883418

E-Mail Address

arifasso@worldcall.net.pk

2. Field of Specialization:

Site Investigation & Surveys

Master Planning, Town Planning & Urban Design

Structural Engineering

Highway & Bridge Engineering

Architectural and Interior Designs

Electrical Engineering

Feasibility Studies

Contract Preparation and Tender Documents

Quantity Surveying and Cost Evaluation

3. Organisations:

a) Chief Executive

1. Arif Husain
B.Sc. (Civil Engineering) 1975
MIE (Pak)
PEC Regd. No. CIV-526

b) Engineers & Architect:

1. Engr. Arif Husain, experience 31 years
PEC Regd. No. CIV-526
2. Engr. Manzoorul Latif experience 47 years
B.Sc. Engineering 1956-59
D.I.C.(Postgraduate Diploma
Imperial College, London) 1966-67
PEC Regd. No.CIV-5325
4. Engr. M. Shahid Siddique experience 6 years
PEC Regd. No. CIV/23123
5. Engr. Muhammad Asif experience 5 years
PEC Regd. No. CIV/22005
4. Engr. Hafiz Irfan Mughal experience 2 years
5. Engr. Saadia Mian Arshad Junior Engineer
6. Engr. Furqana Masood Junior Engineer
7. Architect Farrukh Majeed experience 8 years
PCATP No. A-932-06

c) Engineers: Public Health & Sanitation

1. Engr. Mohammed Khalid experience 28 years
PEC Regd. No. CIV-14101
2. Engr. Imran Yasin M/s Jers experience 16 years
PEC Regd No.MECH 6997

d) Engineers: Electrical & Mechanical Engineers

Maqsood Ahmad experience 28 years
(M/s International Engineers
Chartered Electirical Engr.
A.M.I.E.E. (UK)
PEC Regd. No.ELECT-19283

e) Engineers: Dams & Hydraulic Structures

Dr. Iqbal Ali experience 43 years
Associate Consultant to Arif & Associates
Ph. D. Civil Engineering University of Leeds, U.K. (1969)
M. Tech. Water Power Engineering; Indian Institute of
Technology, Kharaghpur, India (1960)

B.E. (Hon's) Civil Engineering: University of Jabalpur, India (1958)

P.G.C Airport Planning: SEATO Graduate School of Engineering (Now AIT) Bangkok (1962)

P.G.C Environmental Impact Assessment, University of Aberdeen (1994)

f) Quantity Surveyors, Cost Estimators & Construction Sup.

1. Mansoor Ahmad, Associate Engr. experience 11 years.
2. Mohammad Anwar, Associate Engr. experience 13 years.

g) Surveyors

1. Asghar Ali & Surveying Associates
2. M/s Kwick Surveyors

h) Pakistan Engg. Council Registration

CONSULT - 451

i) Firms year of Establishment Jan. 1985

LIST OF PROJECTS IN HAND

LIST OF PROJECTS (In hand)

| SR. NO. | PROJECT |
|------------|--|
| 1. | Jamshed Building at Lahore 12 Storeyed |
| 2. | Sitara Shopping Mall, Faisalabad 10 Storeyed |
| 3. | Factory for Fedglobe (Pvt.) Ltd. Sunder Industrial Estate, Lahore |
| 4. | Factory for Fedglobe (Pvt.) Ltd. at Multan |
| 5. | Pak Turk Int. School & Colleges at Lahore |
| 6. | Pak Turk Int. School & Colleges at Islamabad |
| 7. | Pak Turk Int. School & Colleges at Peshawar |
| 8. | Master Stitching Mill |
| 9. | Hotel for Lakh Group, Gulberg Lahore 10 Storeyed |
| 10. | Aligargh School at Multan Road, Lahore |
| 11. | NAB Punjab Complex, Lahore |
| 12. | Olypmia Building at Gulberg, Lahore |

**LIST OF PROJECTS COMPLETED
DURING LAST 5 YEARS**

PROJECT DESIGNED DURING LAST 5 YEARS

| SR. NO. | PROJECT | COST OF PROJECT IN MILLIONS | DATE OF COMPLETION | SCOPE OF WORK |
|---------|---|-----------------------------|--------------------|---|
| 1 | Leather Products Institute, Sialkot | 13 | 2000 | Architectural, structure electrical & mechanical design work. |
| 2 | Factory for Ledwer Sports, Sialkot | 8.6 | 2000 | Architectural, structure electrical & mechanical design work. |
| 3 | Kohinoor Textile Mills, Extension | 85 | 2000 | Structure design cost estimation and tender documents. |
| 4 | Mehmil Heights, 11 Storeyed Office building, Gulberg, Lahore (5 storeys constructed). | 35 | 2001 | Structure design cost estimation and tender documents. |
| 5 | McDonald's at Allama Iqbal Town, Lahore | 30 | 2001 | Structure design cost estimation and tender documents. |
| 6 | McDonald's Neela Gumbad, Lahore. | 11 | 2001 | Structure design cost estimation and tender documents. |
| 7 | Ejaz Textile Mills Extension ___ Structural Design | 30.0 | 2001 | Structure design cost estimation and tender documents. |
| 8 | Mosque at Rahim Yar Khan, for 250 people | 75 | 2001 | Architectural, structure electrical & mechanical design work. |
| 9 | Office building for Pakistaan Gloves Association at Sialkot | 9.3 | 2002 | Architectural, structure electrical & mechanical design work. |
| 10. | Bank Alfalah Shahdin Manzil, Lahore. | 45 | 2003 | Structure design cost estimation and tender documents. |
| 11. | Army Detached Housing Project Islamabad | 350 | 2003 | Structure design cost estimation and tender documents. |
| 12. | Residential Colony for Sheikh Khalifa Bin Zayed Hospital | 265 | 2003 | Structure design cost estimation and tender documents. |

| SR. NO. | PROJECT | COST OF PROJECT IN MILLIONS | DATE OF COMPLETION | SCOPE OF WORK |
|----------------|---|------------------------------------|---------------------------|--|
| 13 | Sheikh Zayed International School Islamabad | 155 | 2002 | Structure design cost estimation and tender documents. |
| 14 | Housing Colony, Sheikh Khalifa-bin-Zayed, Medical Complex, Quetta | 180 | 2003 | Structure design cost estimation and tender documents. |
| 15 | PCB National Cricket Academy Gaddafi Stadium Complex Lahore | 60 | 2003 | Structure design cost estimation and tender documents. |
| 16 | Ashrafi National School, Sheikhpura – Structural Design Phase I | 20 | 2003 | Structure design cost estimation and tender documents. |
| 17 | Eden Avenue Extension | 300 | 2003 | Structure design cost estimation and tender documents. |
| 18 | Bismillah Textile Mills, Faisalabad | 150 | 2003 | Structure design cost estimation and tender documents. |
| 19 | Abdul Latif Textiles, Manga Mandi, Lahore | 180 | 2003 | Structure design cost estimation and tender documents. |
| 20 | D.S. Textiles, Sheikhpura Road | 70 | 2003 | Structure design cost estimation and tender documents. |
| 21 | Master Planning and Infrastructural Design of Commercial Complex WAPDA Town Block D-2, Lahore | 20 | 2004 | Structure design cost estimation and tender documents. |
| 22 | HONDA City Sales Workshop | 15 | 2004 | Structure design cost estimation and tender documents. |
| 23 | Ghazi Barotha 500 K.V. Sub-Station, Extension, Rewat | 25 | 2004 | Structure design cost estimation and tender documents. |
| 24 | Eden Defence Villas | 70 | 2004 | Structure design cost estimation and tender documents. |
| 25 | Eden Canal Villas | 150 | 2004 | Structure design cost estimation and tender documents. |

| SR. NO. | PROJECT | COST OF PROJECT IN MILLIONS | DATE OF COMPLETION | SCOPE OF WORK |
|----------------|---|------------------------------------|---------------------------|--|
| 26 | Eden City – Infrastructure Design | 20 | 2004 | Structure design cost estimation and tender documents. |
| 27 | Tivoli Towers, Upper Mall, 11 Storeys | 150 | 2004 | Structure design cost estimation and tender documents. |
| 28 | Nishat Weaving, Ferozpur Road, Lahore | 200 | 2004 | Structure design cost estimation and tender documents. |
| 29 | Hira Textile Mills | 60 | 2004 | Structure design cost estimation and tender documents. |
| 30 | Bank Al-Habib, Lahore, 8 Storeys | | 2004 | Project deferred by client after submission of complete structural drawings. |
| 31 | Breeze’ e Allama Iqbal Town, Lahore | | 2004 | Structure design cost estimation and tender documents. |
| 32 | Union Bank Ltd. Johar Town, Lahore. | | 2004 | Structure design cost estimation and tender documents. |
| 33 | Union Bank Ltd. Gulistan Johar, Karachi | | 2004 | Structure design cost estimation and tender documents. |
| 34 | Union Bank Ltd. Vehari | | 2004 | Structure design cost estimation and tender documents. |
| 35 | Warid Telecom, Sialkot | | 2004 | Structure design cost estimation and tender documents. |
| 36 | Crystal Mall Shopping Centre, Sattellite Town, Rawalpindi. | | 2004 | Structure design cost estimation and tender documents. |
| 37 | 6 Storeyed Apartment bldg. For Assad Ali Khan, Gulberg | | 2004 | Structure design cost estimation and tender documents. |
| 38 | Asian Chemicals, Muridke | | 2005 | Structure design cost estimation and tender documents. |
| 39 | Schlumberger, Islamabad | | 2005 | |
| 40 | Residential/Non Residential accommodation for northern area Scouts at Gilgit, Skardu & Chilas | | 2005 | |

| SR. NO. | PROJECT | COST OF PROJECT IN MILLIONS | DATE OF COMPLETION | SCOPE OF WORK |
|----------------|--|------------------------------------|---------------------------|----------------------|
| 41 | Cold Storage, Sargodha | | 2005 | |
| 42 | Azam Medicare | | 2005 | |
| 43 | Din Textile Mills Raiwind | | 2005 | |
| 44 | Olympia House 8 Storeyed office building, MM Alam Road | | 2005 | |
| 45 | Hotel Cheema, Gulberg-III, Lahore 10 storeyed | | 2005 | |
| 46 | Bridge over Lahore Canal Distribution | | 2005 | |
| 47 | Power Plants for Bilal Textile Mills at Faisalabad | | 2005 | |
| 48 | Union Bank Building, 9 Storeyed, Lahore Cantt. | | 2005 | |
| 49 | Warid Tower, Multan | | 2005 | |
| 50 | Warid Tower, Peshawar | | 2005 | |
| 51 | Bank Alfalah, Minerva Road, Faisalabad. | | 2005 | |
| 52 | Bank Alfalah, Peoples Colony, Faisalabad. | | 2005 | |
| 53 | Bank Alfalah, Susan Road, Faisalabad. | | 2005 | |
| 54 | Bank Alfalah Sialkot, Sargodha | | 2005 | |
| 55 | Interloop Spinning Mills | | 2005 | |
| 56 | Mosque for 500 persons at Royal Gardens, Lahore. | | 2005 | |
| 57 | Union Bank Shahrah Quaideen Karachi | | 2005 | |

| SR. NO. | PROJECT | COST OF PROJECT IN MILLIONS | DATE OF COMPLETION | SCOPE OF WORK |
|--------------------|--|--|-------------------------------|----------------------|
| 58 | Union Bank Building, University Road, Sargodha | | 2006 | |
| 59 | Union Bank Building, Gulistan Johar, Karachi | | 2006 | |
| 60 | Union Bank Building, Rawalpindi | | 2006 | |
| 61 | Media Com Business Centre, Susan Road, Faisalabad. | | 2006 | |

LIST OF PROJECTS COMPLETED

PROJECT DESIGNED DURING LAST 25 YEARS
BY ARIF AND ASSOCIATES
(Formerly ARIF TANVIR ASSOCIATES)

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|------------|---|--------------------------------------|-----------------------|
| 1 | 7-Storeyed Deans & Venus Plaza at Egerton Road, Lahore. | 20.2 | 1980 |
| 2 | Factory for International Ceramics Ltd., Muridke | 9.0 | 1980 |
| 3 | 5-Storeyed Wasim Centre at Chamberlain Road, Lahore | 6.0 | 1982 |
| 4 | Iqbal Stadium Phase-I, Faisalabad | 8.5 | 1982 |
| 5 | Factory for International Dinnerware Ltd. Muridke | 7.5 | 1984 |
| 6 | Shopping Centre, Ichra Bazar, Lahore | 3.1 | 1984 |
| 7 | Shah Cooking Oil, Extension, Lahore | 1.6 | 1984 |
| 8 | 750 Student Hostel, Engineering University, Peshawar | 3.8 | 1984 |
| 9 | G.T.S. Administration Building, Abbottabad | 3.5 | 1984 |
| 10 | Cold Storage for Punjab Seed Corporation Sahiwal | 6.1 | 1984 |
| 11 | Babar Plaza, Liberty Market, Lahore | 6.1 | 1985 |
| 12 | Duty Free Shop, Montgomery Road, Lahore | 3.4 | 1985 |
| 13 | Usman Centre, Dil Mohammad Road, Lahore | 2.7 | 1985 |
| 14 | Hill View Arcade, Shimla Pahari, Lahore | 4.1 | 1985 |
| 15 | Factory for Big Mak Foods, Lahore | 5.8 | 1985 |
| 16 | B & H Nut & Bolt Factory Sheikhupura Road, Lahore | 4.5 | 1985 |
| 17 | Factory for Punjab Cables Sheikhupura Road, Lahore | 8.5 | 1985 |

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|------------|---|--------------------------------------|-----------------------|
| 18 | V-Belt Factory, Sheikhupura Road, Lahore | 5.0 | 1985 |
| 19 | G.T.S. Workshop at Peshawar (Sheel Structure) | 5.85 | 1985 |
| 20 | Khazzan Commercial Building, Riyadh, Saudi-Arabia | 68.0 | 1985 |
| 21 | 4-Storeyed Girls Hostel, N.C.A. Lahore | 4.5 | 1986 |
| 22 | Nishan-e-Manzil Monument, Gujranwala Cant | 4.0 | 1986 |
| 23 | Zahur Textile Mills, Bhai Pheru | 6.0 | 1986 |
| 24 | Liberty Homes, Housing Scheme for Developers Group, Lahore | 6.4 | 1986 |
| 25 | Linkers Housing Scheme, Lahore | 3.3 | 1986 |
| 26 | Les Maisonette's Housing Scheme Gulberg, Lahore | 8.6 | 1986 |
| 27 | Woodwork Factory, for SABA Allied Industries Multan Road, Lahore | 2.5 | 1986 |
| 28 | Commercial Building at Sialkot | 8.0 | 1987 |
| 29 | Sialkot Dairies - UHT Milk Plant, Sialkot | 8.0 | 1987 |
| 30 | A.C. Monument Nowshera | 2.0 | 1987 |
| 31 | Aabpara Housing Scheme for Lahore Chamber of Commerce Employees Housing Society, Lahore | | 1987 |
| 32 | National Pipe Industries G.T. Road Gujranwala | 3.5 | 1987 |
| 33 | Hill View Hotel, Shimla Pahari, Lahore | 7.5 | 1987 |
| 34 | Ghazi Food Factory, Multan | 5.1 | 1987 |

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|------------|--|--------------------------------------|-----------------------|
| 35 | Multan Public School (Phase-I), Multan | 7.3 | 1987 |
| 36 | Karim Centre, Dil Muhammad Road, Lahore | 7.75 | 1988 |
| 37 | Imtiaz Centre, 7-Storeyed Commercial Project, Lahore | 12.3 | 1988 |
| 38 | Fawad Textile Mills, Bhai Pheru Lahore | 13.5 | 1988 |
| 39 | Multan Stadium Phase-I, Multan | 6.0 | 1988 |
| 40 | Extension of Sugar House for Pasrur Sugar Mills Limited. | | 1988 |
| 41 | National Hotel & Arcade Abbot Road, Lahore | 4.0 | 1988 |
| 42 | Tower Foundation, T&T Microwave System Peshawar, Quetta & Karachi. | | 1988 |
| 43 | Tower Foundation for WAPDA Load Dispatch Center (EB NERA Consortium) | | 1989 |
| 44 | Clinic for Dr. Javed Akram Gulberg, Lahore | | 1989 |
| 45 | Nigerian Embassy Designing of Embassy Building Ambassador Chancellery Area of 40,000 Sft. | 32.5 | 1988 |
| 46 | Naval Headquarters (Islamabad) Covered Area 65,000 Sft. | 25 | 1988 |
| 47 | New Secretariat Building of Dir State (Tameergran) | | |
| 48 | Hotel Islamabad, 80 Bed Hotel Covered area about 60,000 Sft. Preliminary Planning & Supervision. | 25 | |
| 49 | Qarshi Syrup Factory at Hattar Industrial Estate | 20 | 1989 |

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|------------|--|--------------------------------------|-----------------------|
| 50 | Azam Textile Mills, Bhai Pheru | 13.2 | 1989 |
| 51 | Saitex Textile Mills, Bhai Pheru | 9.6 | 1989 |
| 52 | 5 Storeyed ENT Block, Lady Reading Hospital, Peshawar (Architect: Nayyar Ali Dada) | 49.3 | 1989 |
| 53 | Garment Factory for Mrs. Mansha Kot Lakhpat, Lahore | 3.0 | 1989 |
| 54 | Khairun Nisa Trust Hospital, Lahore | 3.5 | 1989 |
| 55 | Queens Centre, Lahore | 10.8 | 1989 |
| 56 | 7-Storeyed Frontier Constabulary Building Peshawar (Architect: Wasif Ali Khan) | 30.0 | 1990 |
| 57 | United Sugar Mills, Sadiqabad (Extension of Mill House & Power House) | 4.0 | 1990 |
| 58 | GIS Stations - Load Dispatch, WAPDA | 8.0 | 1990 |
| 59 | Canal Cottages Muslim Town, Lahore | 15.5 | 1990 |
| 60 | Ayaz Textile Mills, Kasur | 18.7 | 1990 |
| 61 | Kronos Weaving Mills, Bhai Pheru | 4.0 | 1990 |
| 62 | UBL Office Building, Multan | 4.3 | 1991 |
| 63 | Factory for Amber Capacitors, Lahore | 5.5 | 1991 |
| 64 | Gulberg Heights (5-Storeyed Commercial Building) Gulberg, Lahore | 5.5 | 1991 |
| 65 | Sialkot Chamber of Commerce Building Sialkot | 12.2 | 1991 |
| 66 | Elahi Textile Mills Ext. Multan Road, Lahore | 12.5 | 1991 |

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|------------|--|--------------------------------------|-----------------------|
| 67 | UBL Office Building, Abbottabad | 8.5 | 1991 |
| 68 | Middle East Bank Gulberg, Lahore | 7.0 | 1992 |
| 69 | Azamabad Housing Scheme, Bhai Pheru | | 1992 |
| 70 | Naseer Plaza, Faisal Town, Lahore | 6.5 | 1992 |
| 71 | Five Bridges, Sibi - Rakhni Highway Balochistan | 10.4 | 1992 |
| 72 | Aysha Flour Mills - Khanpur (Distr, Rahim Yar Khan) | 4.0 | 1992 |
| 73 | Hamza Oil Mills, Sufi Soap Sheikhupura Road, Lahore | 7.0 | 1992 |
| 74 | Railway Employees Credit Bldg., Lahore | 8.5 | 1992 |
| 75 | Davis Hytes, Davis Road, Lahore | 6.0 | 1992 |
| 76 | Paharianwali Sugar Mills, Chiniot. | 65.0 | 1992 |
| 77 | Taj-2 Textile Mills, Bhai Pheru | 38.5 | |
| 78 | Eden Heights, 16 Storeyed Bldg., Lahore | 145.0 | |
| 79 | Chaman Chemicals, Bhai Pheru | 6.4 | |
| 80 | Chand Chemicals, Bhai Pheru | 3.5 | |
| 81 | Shimla Towers, Davis Road, Lahore | 7.5 | 1993 |
| 82 | 5-Storeyed Commercial Plaza in Faisal Town | 85 | 1993 |
| 83 | Kohinoor Genertek, Lahore | 32.3 | 1994 |
| 84 | Maple Leaf Electric Company, Mianwali | 26.5 | 1995 |
| 85 | Maple Leaf Electric Company, Rawalpindi | 24.5 | 1995 |
| 86 | Khawaja Textile Mills, Bhimber | 12.5 | 1995 |

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|---------|--|--------------------------------|-----------------------------|
| 87 | O.P.D Block Lady Reading Hospital, Peshawar | 18.15 | 1991 |
| 88 | 500 KV Grid Station Extension, Gatti. | 25.0 | 1996 |
| 89 | 500 KV Grid Station Extension, Guddu. | 30.0 | 1997 |
| 90 | Overhead Water Tank AWT Housing Scheme Raiwind | 3.5 | 1997 |
| 91 | Kach Harnai – Sanjawi Road, Balochistan | Estimated 300 | Construction to Commence |
| 92 | Tapal Tea Factory Raiwind Manga Road | 12 | 1997 |
| 93 | National Tower, Egerton Road, Lahore | 31 | 1997 |
| 94 | Transmission Extension and Reinforcement Project – WAPDA Contract No.1150-31 Extn. of Lahore, Gatti & Guddu 500 KV Substations | 19.10 | 1997 |
| 95 | Eden Tower, Gulberg – Lahore 14 Storeyed Office Building (Covered area 3,80,000 Sft.) | 266 | 1999 |
| 96 | Sheikh Khalifa Bin Zayed Hospital Quetta (Covered area 2,20,000 Sft.) | 400 | 1999 |
| 97 | 4 Residential Units for M/s Habib Rafiq at Gulberg-III, Lahore, Plot Area 9.5 Kanals (Covered area 42,000 Sft.) | 40 | 1999 |
| 98 | Transmission Extension & Reinforcement Project WAPDA Contract 150-35C - Addition of Auto Transformers Bank, 500 KV (ATB 3) at Guddu | 16 | 1999 |
| 99 | City Public School, Sialkot (Covered area 40,500 Sft.) | 15 | 1999 |
| 100 | 50 Bed Sawar Hospital, Sargodha | 12 | 1999 |
| 100A | Toll Plazas Lahore Islamabad Motorway 5No's | | 1998 |

| SR. NO. | PROJECT | COST OF CIVIL WORK IN MILLIONS | DATE OF COMPLETION |
|---------|---|--------------------------------|--------------------|
| 101 | Mehmil Heights, 11 Storeyed Office building, Gulberg, Lahore (5 storeys constructed). | 35 | 2001 |
| 102 | Office building for Pakistaan Gloves Association at Sialkot. | 9.3 | |
| 103 | McDonald's at Allama Iqbal Town, Lahore. _____ Stuctural Design | 30 | 2001 |
| 104 | McDonald's Neela Gumbad, Lahore. | 11 | 2001 |
| 105 | Leather Products Institute, Sialkot | 13 | 2000 |
| 106 | Factory for Ledwer Sports, Sialkot. | 8.6 | 2000 |
| 107 | Leather Products Institute, Sialkot | 13 | 2000 |
| 108 | Factory for Ledwer Sports, Sialkot | 8.6 | 2000 |
| 109 | Kohinoor Textile Mills, Extension | 85 | 2000 |
| 110 | Mehmil Heights, 11 Storeyed Office building, Gulberg, Lahore (5 storeys constructed). | 35 | 2001 |
| 111 | McDonald's at Allama Iqbal Town, Lahore | 30 | 2001 |
| 112 | McDonald's Neela Gumbad, Lahore. | 11 | 2001 |
| 113 | Ejaz Textile Mills Extension ____ Structural Design | 30.0 | 2001 |
| 114 | Mosque at Rahim Yar Khan, for 250 people | 75 | 2001 |
| 115 | Office building for Pakistaan Gloves Association at Sialkot | 9.3 | 2002 |
| 116 | Bank Alfalah Shahdin Manzil, Lahore. | 45 | 2003 |
| 117 | Army Detached Housing Project Islamabad | 350 | 2003 |
| 118 | Residential Colony for Sheikh Khalifa Bin Zayed Hospital | 265 | 2003 |
| 119 | Sheikh Zayed International School Islamabad | 155 | 2002 |

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|-----|---|-----|------|
| 120 | Housing Colony, Sheikh Khalifa-bin-Zayed, Medical Complex, Quetta | 180 | 2003 |
| 121 | PCB National Cricket Academy Gaddafi Stadium Complex Lahore | 60 | 2003 |
| 122 | Ashrafi National School, Sheikhpura – Structural Design Phase I | 20 | 2003 |
| 123 | Eden Avenue Extension | 300 | 2003 |
| 124 | Bismillah Textile Mills, Faisalabad | 150 | 2003 |
| 125 | Abdul Latif Textiles, Manga Mandi, Lahore | 180 | 2003 |
| 126 | D.S. Textiles, Sheikhpura Road | 70 | 2003 |
| 127 | Master Planning and Infrastructural Design of Commercial Complex WAPDA Town Block D-2, Lahore | 20 | 2004 |
| 128 | HONDA City Sales Workshop | 15 | 2004 |
| 129 | Ghazi Barotha 500 K.V. Sub-Station, Extension, Rewat | 25 | 2004 |
| 130 | Eden Defence Villas | 70 | 2004 |
| 131 | Eden Canal Villas | 150 | 2004 |
| 132 | Eden City – Infrastructure Design | 20 | 2004 |
| 133 | Tivoli Towers, Upper Mall, 11 Storeys | 150 | 2004 |
| 134 | Nishat Weaving, Ferozepur Road, Lahore | 200 | 2004 |
| 135 | Hira Textile Mills | 60 | 2004 |
| 136 | Bank Al-Habib, Lahore, 8 Storeys | | 2004 |
| 137 | Breeze'e Allama Iqbal Town, Lahore | | 2004 |
| 138 | Union Bank Ltd. Johar Town, Lahore. | | 2004 |
| 139 | Union Bank Ltd. Gulistan Johar, Karachi | | 2004 |
| 140 | Union Bank Ltd. Vehari | | 2004 |
| 141 | Warid Telecom, Sialkot | | 2004 |

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|-----|---|------|
| 142 | Crystal Mall Shopping Centre, Sattellite Town, Rawalpindi. | 2004 |
| 143 | 6 Storeyed Apartment bldg. For Assad Ali Khan, Gulberg | 2004 |
| 144 | Asian Chemicals, Muridke | 2005 |
| 145 | Schlumberger, Islamabad | 2005 |
| 146 | Residential/Non Residential accommodation for northern area Scouts at Gilgit, Skardu & Chilas | 2005 |
| 147 | Cold Storage, Sargodha | 2005 |
| 148 | Azam Medicare | 2005 |
| 149 | Din Textile Mills Raiwind | 2005 |
| 150 | Olympia House 8 Storeyed office building, MM Alam Road | 2005 |
| 151 | Hotel Cheema, Gulberg-III, Lahore 10 storeyed | 2005 |
| 152 | Bridge over Lahore Canal Distribution | 2005 |
| 153 | Power Plants for Bilal Textile Mills at Faisalabad | 2005 |
| 154 | Union Bank Building, 9 Storeyed, Lahore Cantt. | 2005 |
| 155 | Warid Tower, Multan | 2005 |
| 156 | Warid Tower, Peshawar | 2005 |
| 157 | Bank Alflah, Minerva Road, Faisalabad. | 2005 |
| 158 | Bank Alflah, Peoples Colony, Faisalabad. | 2005 |
| 159 | Bank Alflah, Susan Road, Faisalabad. | 2005 |
| 160 | Bank Alflah Sialkot, Sargodha | 2005 |
| 161 | Interloop Spinning Mills | 2005 |
| 162 | Mosque for 500 persons at Royal Gardens, Lahore. | 2005 |

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|-----|---|------|
| 163 | Union Bank Shahrah Quaideen Karachi | 2005 |
| 164 | Union Bank Building, University Road, Sargodha | 2006 |
| 165 | Union Bank Building, Gulistan Johar, Karachi | 2006 |
| 166 | Union Bank Building, Rawalpindi | 2006 |
| 167 | Media Com Business Centre, Susan Road, Faisalabad. | 2006 |

BIODATA'S

| | |
|--|---|
| Name | ARIF HUSAIN Chief Executive |
| Educational Qualifications | Bachelor of Science in Civil Engineering Graduation year: 1976 University of Engineering & Technology, Lahore Honours: Secured Seventh, Fifth & Fifth position in the Second, Third & final Examinations respectively. Also obtained distinctions in Design of Structures and Soil Mechanics. |
| Additional Courses & Certificates | Completed three major courses in Master's Programme at U.E.T. Lhr. A) Advanced Reinforced Concrete Design B)Advanced Structural Analysis(Matrix Analysis) C) Advanced Prestressed Concrete. Certificate in Fortran programming and computer applications, October 1978, U.E.T. Lahore. Short course in Electronic Data Processing: I.E. Lahore. |
| Memberships | M.I.E. (Pak) PEC Regd. No. CIV-526 |

EXPERIENCE

| | |
|---------------------------|--|
| July 2000 _ todate | As Chief Executive of Arif & Associates am responsible for the all the design works executed by the firm as reflected in list of Project completed and in the list of project in hand. |
| 1985 – July 2000 | As Chief Executive and Chief Engineer of Arif Tanvir Associates was responsible for all the engineering design works executed by the firm as reflected in list of Project completed and in the list of project in hand |
| 1981 - 1985 | As Senior Structural Engineer with Republic Engineering Corporation, Lahore. Major Design Works: (a) Lahore Hockey Stadium. (b) Grindlay's Bank, Lahore. |

- (c) Bata Factory at Maraka, Lahore.
Main productionhall was designed of reinforced concrete north light folded plate.
- (d) Factory for Samsonite-Zamrock, Sheikhpura Road.
- (e) Grain storage silos at Chichawatni and Khairpur.
- (f) Factory for Multan Chemical, Multan.
- (g) Glaxo Factory: Cephalexin / Steroid plant.
Fermentation Plant.
Administration Block.
- (h) 11 Nos. Bridges on Karachi Hyderabad dual carriageway for National Highway Board.
- (i) Grain storage godowns (Cylindrical shells at Kissan, Chinniot.

1979 - 1981

As Senior Structural Engineer with Industrial & Cement Engineers (INCEM), Lahore.

Major Design Works:

- (a) Kohat Cement Project
 - i. Raw Mill
 - ii. Cement Silos.
- (b) Thatta Cement Project
 - i. Cement Mill
 - ii. Chimney
 - iii. Lime-Sludge Transport Structure
 - iv. Rotary Kiln Piers

1977 - 1979

As Structural Engineer NESPAK Lahore

- (a) Kundian Nuclear Project NKC II
 - i. Main plant building worked on stress analysis and design of shear walls and other complex cell of the building.

- ii. Change-room building worked on stress & dynamic analysis and design of the building structure.
 - iii. Chimney Stack: using finite element method.
- (b) Karachi Steel Mills; Pump house building dynamic analysis of the building and study of inter-relation lag in frequencies of the vibrations imparted by the pumps and that of the pump-house building.

1976 - 1977

As Junior Structural Engineer with M/s. Progressive Consultants
Lahore

Major Design Works:

- (a) 8-storeyed extension of Karachi Television Station.
- (b) Indus Super Highway Project: Standardization of numbers bridges with respect to bridge spans, girder spans and detailed design and construction drawings of all the bridge sites.
- (c) Third IBRD Highway Project: worked on Cost-Benefit analysis of the proposed highway for feasibility studies.

Name **MANZOORUL LATIF**
Principal Engineer (Structural/Bridges)

Educational Qualifications Bachelor of Science in Civil Engineering (B.Sc. (Engg. Civil)
D.I.C. (Postgraduate Diploma of the Imperial College, London)

Memberships Registered Professional Engineers, Pakistan Engineering Council (CIV-5325)

EXPERIENCE

1996 to date

As Principal Engineer with Arif and Associates (formerly Arif Tanvir Associates) have been responsible for the following projects:

Major Projects

1. Audit House at Islamabad
2. Sheikh Khalifa Bin Zayed Medical Complex at Quetta
3. Tapal Tea (Pvt.) Limited Warehouse at Raiwind
4. Eden Tower 15 Story Commercial Plaza, Lahore
5. Bridge Over Canal at Sukh Chayan Gardens, Lahore.
6. Dubai Palace, Renovation works & New Majlis Building at Rahim Yar Khan.
7. Hotel Cheema at Gulberg Lahore.
8. Bank Alflah Shah Din Building, Lahore.

1974 - 1979

As Chief Structural Engineer with Abdul Aziz Farman Farmaian (AFFA), Tehran, Iran.

Responsible for Detail Design and Project Management, the following major projects:

Major Projects:

1. National Iranian Television Centre, Tehran.
2. Shahestan-E-Pahlavi, Iran.
3. Mehrabad International Airport - Extension, Iran. This includes bridges and underpasses.

4. Technical Training Center, Jeddah.
5. Electrical Transmission and Distribution Network, Yanbu.
6. Mina Hospital, Makkah.
7. H.E. the Minister's Office, Jeddah.
8. Central Warehouse (Medical Supplies), Jeddah
9. Desalination Plant, Jeddah
10. No. 6 Fuel Oil Pipeline, Jeddah.
11. Shihar Hospital, Taif.
12. Wasiya Water Supply Project, Saudi Arabia
13. Abbar and Zainy Headquarters, Jeddah
14. Abbar and Zainy Warehouses, Jeddah
15. Maternity Hospital, Jeddah
16. 3 - Hospital Project, AFIF/AFLAJ/ALKHARJ
17. Gizan Port Supplementary Building Project.
18. Fisheries Harbour Supplementary Works, Gizan
19. Chamber of Commerce, Yanbu
20. Multistory Car Parking And Commercial Complex, Dhahran.
21. Office Building, Yanbu

About 30+ years experience including Design and construction of Multistory RCC/Steel Structures, Industrial Structures, Bridges, Microwave Towers, Electrical substations, Airport Building, Airfields, Sports Stadia, Commercial Centres, Access Roads for Telecommunication Sites, Construction of Foundations for Heavy Industrial Complexes; Water Supply, Sewerage and Drainage Systems, Preparation of BOQ, Technical Specifications, Preparation and appraisal of Bid-Documents.

Computer Aided Engineering and Design using Standard Programs for Finite Element Structural Analysis, Network Analysis, and Technical Drawing. Programming with Fortran, Pascal, Basic and dBase-III. Use of Spread Sheet - 123.

Name: **ASIF HAMEED**
Structural Engineer

Education: *B.Sc from University of Engineering and Technology,
Lahore in 2001*

Membership *CIV – 22009*

EXPERIENCE

April 2004 to date As Sr. Structural Engineer with Arif and Associates and have been responsible for the following projects:

Major Projects

1. 26 Storey – Warid Tower, Thokar Niaz Bag, Lahore.
2. 14 Storey – Sitara Mall, Faisalabad
3. 8 Storey – Bank Alfalah Susan Road, Fsd.
4. 6 Storey – Bank Alfalah Peoples Colony, Fsd.
5. 6 Storey – Bank Alfalah Minerva Road, Fsd.
6. 6 Storey – MSC Warid Multan
7. 6 Storey – MSC Warid Peshawar
8. 6 Storey – Boys Hostel DHA, Lahore
9. 4 Storey – MSC Warid Faisalabad
10. 5 Storey – Commercial Buildings DHA, Lhr.
11. 4 Storey – PCSIR School Building, Lahore
12. 4 Storey – Union Bank Sargodha
13. 5 Storey – Bank Al-Habib Sialkot
14. 4 Storey – Bank Alfalah Abbotabad
15. 5 Storey – Bank Alfalah Sialkot
16. 4 Storey – Pak Turk School Lahore
17. 5 Storey – Patchi Building DHA, Lahore

18. 3 Storey – 3D Fedglobe Warehouse Sunder
19. Master Spinning Textile Unit
20. Master Stitching Textile Unit
21. Newage Power House, Lahore
22. Sunder Garments at Sunder
23. Interloop Dyeing Unit, Faisalabad
24. Mini Golf Club, Lahore
25. Eden Palace Villas (1 to 2 kanal Luxury houses)
26. Century Paper and Board Mills, Multan Road

Nov. 2001 to March, 2004

As Geotechnical Engineer with Kenrock Geotechnical Services.

Name **IRFAN MUGHAL**
Structural Engineer

Educational Qualifications Bachelor of Science in Civil Engineering Graduation year: Jan 2006
University of Engineering & Technology, Lahore.

Bachelor of Science in Mathematics & Physics in Year 2002,
From University of Punjab.

EXPERIENCE

July 2006 to date As Structural Engineer with Arif and Associates and has been responsible for the following projects:

Major Projects

1. 26-Storey – Warid Tower, Thokar Niaz Bag, Lahore.
2. 13-Storey Three Star Evacuee Trust Hotel Building at Maulana Ahmad Ali Road Lahore.
3. 15-Storey Office Building for Olympia Group at M M Alam Raod Lahore.
4. 6-Storey – Bank Alfalah G.T. Road Peshawar.
5. Pak-Turk Schools & Colleges at Hayatabad Road Peshawar.
6. Pak-Turk Schools & Colleges in Lahore.
7. 6-Storey Warehouse in Karachi.
8. Few other projects.

Name: **FARRUKH MAJEED**
Senior Architect

Key Qualifications

Data Collection, recommendation & analysis of client's requirements and site conditions. Concept Development, Conceptual Designs of Buildings, Preliminary Architectural design, and Master Planning.

Co-ordination & Preparation of Detailed Architectural Designs, Co-ordination with Civil, Electrical, Mechanical and HVAC, engineering specialties for allied facilities & utilities design.

Education

B-Arch from University of Engineering and Technology, Lahore in 1998

Membership

- Pakistan Council of Architects and Town Planners, Membership No. A-2021
- Institute of Architects of Pakistan, Membership No. A-932-06
- CDA Membership No. B-Arch-2(72)(639)/AE/2007

EXPERIENCE

Oct. 2006 to date

As Sr. Architect with Arif and Associates have been responsible for the following projects:

Major Projects

1. Pizza Hut at F-10 Islamabad
2. Pizza Hut at Garden Town, Lahore.
3. Pak Turk International Schools and Colleges at Lahore
4. Pak Turk International Schools and Colleges at Peshawar
5. Pak Turk International Schools and Colleges Islamabad.

Feb. 2003 to Sept. 06

As Sr. Architect with IN Consult (Pvt.) Limited and have been responsible for the following projects:

Major Projects

- Defence Degree College for Boys Sector-G, PhaseV, DHA Lahore.
- Gymnasium at Sector-G, PhaseV, DHA Lahore.
- Swimming Pool at Sector-G, PhaseV, DHA Lahore.
- CTC to DCE Conversion Project at Himont Chemicals, Lahore.
- Oil and Water Separator Installation at Hirra Farooq, Lahore.
- Oil and Water Separator Installation at Breeze Frost, Lahore.
- Pakistan Oilfields Limited, Waste Water Treatment Pilot Plant at Balkassar
- Proposed Layout of Pakistan School of Fashion Design, Lahore
- Proposed Layout of typical Fish Farm
- Proposal Layout for House of Ch.Akram, Lahore

Jan. 2002 to Dec. 2002

As Jr. Architect with KS and Associates and have been responsible for the following projects:

- Layout of Schlumberger Seaco Office at Saudi Pak Towers Blue Area Islamabad.
- Proposed Layout of United Bank Limited Nankana Sahib Branch.
- Computer Lab of Fatima Girls High School Lahore.
- Proposed Elevation for NEXLINX Gulberg, Lahore.
- House of Dr, Asif Sun Flower housing Scheme, Lahore.
- House of Mr.Fazal-ur-Rehman, Islamabad. (Renovation)
- House of Mrs, Ira Masood 11-B Warris Road, Lahore. (Renovation)
- House of Mr. Farrukh Latif Sector-s.169 Defence, Lahore.
- Proposed Layout of Standerd Chartered Bank Mall, Lahore.
- Customer Services Centre, Eden Heights Jail Road, Lahore.
- Metropolitan Bank Circular Road, Lahore.
- Proposal Habib Bank Plaza Chundrigar Road, Karachi.
- Proposed Layout for House of Abid Ashar, Lahore.
- Metropolitan Bank DHA, Lahore.
- Executive Lounge Workplace-21, Islamabad.
- House for Mrs. Zaman, Aziz Bhatti Road, Lahore. (Renovation)

- Plaza for Mrs.Zaman, Aziz Bhatti Road, Lahore.
- Interior for Hico Ice Cream New Airport, Lahore
- White Mosque Dabi bazaar, Lahore (Renovation)
- Office and Shoe Factory Timber Market, Lahore
- Proposal for Stitching Shop Shadman, Lahore

Sep. 2000 to Sept.2001

As Sr. Architect with Hashmi Associates and have been responsible for the following projects:

- Proposed planning for Valencia Housing Scheme, Lahore
- Proposed plan for Multipurpose Hall P.F.A, Lahore
- House Landscaping at Upper Mall, Lahore
- Elevation of Askari Flat, Lahore (Renovation)
- House for Mr. Shahzad Jamil Tajbagh Scheme, Lahore
- House for Mr. Joudat Ali Malik Rizwan Gardens, Lahore
- Dawn's Lifestyle Exhibition at Polo Ground Lahore
- Landscaping of Park at Chowinda
- Interior of software house PMA Plaza, Lahore
- Proposed Layout of CNG Station at Shahbagh, Lahore
- Proposed Layout of Ad Workshop at Ferozpur road, Lahore
- Assessment of Avon shoe factory near seven up, Lahore
- Renovation of House for Mr. Ehtisham at Riwarz garden, Lahore
- 3D Animation of Asia Heights Plaza, Gowadar
- 13x5 Acres five marla Housing Scheme at Jewani Road, Gawadar
- House for Mrs, Ghazala Yasmin Plot 26, Ghazi colony sandha road, Lahore
- Al-Azeem 21/2, 3 & 4 marla Apartments at Shadara, Lahore.
- 3D Model of Asia Heights Plaza, Gowadar
- Interior of Chughtai detal supply at 40/C Commercial Plaza, Cavalry ground Ext. Lahore
- Interior of Chughtai detal supply at Safanwala chowk, Lahore.

July 2000 to Aug. 2000

As Jr. Architect with Baber and Associates and have been responsible for the following projects:

- 3D & Animation for Fuji Foundation Badian Road, Lahore.

March 1999 to June 2000

As Sr. Architect with Architects Affiliation and have been responsible for the following projects:

- National Bank Peral Continental
- Survey of different Branches of HBL, Lahore
- Different Residences.
- Garment Shop Anarkali, Lahore
- Housing Scheme Ferozpur road, Lahore (Perspective)
- Marium Flats Ferozpur road, Lahore
- Marium Mosque Ferozpur road, Lahore

DR. IQBAL ALI

PERSONAL INFORMATION:

Residence: 64/2 Street 25, Kh-e-Badban Phase V, DHA, Karachi 75500
Office: 5-A S.M.C.H.S, Karachi.

Telephone (Res): 92-21-5854202, 5849253
(Off): 92-21-4550321-4, 4543944
(Fax): 92-21-4555251
E-mail: zclkhi@yahoo.com

Date of Birth: 01-01-1937

ACHIEVEMENTS IN BRIEF

- Established and developed Institute of Environmental Engineering and Research NED University Karachi 1988-1997, as founding **Director**.
- Established and developed Institute of Human Settlements and planning Sir Syed University of Engineering and Technology Karachi, 1997-98., as founding Director.
- Developed Department of Civil Engineering Sir Syed University of Engineering and Technology Karachi 1997-98.
- Started MS program at University of Engineering and Technology Lahore, 1965-75 and at King Fahad University of Petroleum and Minerals, Dharan, Saudi Arabia, 1975-1987.
- Participated in establishing PhD program in Civil Engineering at King Fahad University of Petroleum and Minerals, Dharan, Saudi Arabia, 1979-1987 (Member PhD Committee).
- Principal Investigator for 0.8 million Riyal, Waste Recycling Research Project at King Abdul Aziz City of Science and Technology, Riyadh, 1981-87.
- Principal Investigator for 0.65 million Riyal, Waste Water Reuse Research Project at King Fahad University of Petroleum and Minerals, Dharan, 1982-84.
- Member National Technical Committee on Water Resources nominated by President of Pakistan, November 2003.
- Member Expert Group on National Water Policy nominated by Pakistan Engineering Council March 2004.

- Chief Designer Rs. 60 billion Sehwan Barrage Complex, February 2003 to date.
 - Founding Editor-in-Chief of professional journal “Environmental News” of Institute of Environmental Engineering and Research”, 1993-1997.
 - Author of Four Books.
 - Research Publications:
 - Fifty six research papers published in national and international refereed professional journals and conference proceedings.
 - Twenty research reports, sponsored by national and international agencies.
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ACADEMIC QUALIFICATIONS:

1. **Ph. D.** Civil Engineering University of Leeds, U.K. (1969)
2. **M. Tech.** Water Power Engineering; Indian Institute of Technology, Kharaghpur, India (1960)
3. **B.E. (Hon’s)** Civil Engineering: University of Jabalpur, India (1958)
4. **P.G.C** Airport Planning: SEATO Graduate School of Engineering (Now AIT) Bangkok (1962)
5. **P.G.C** Environmental Impact Assessment, University of Aberdeen (1994)

PROFESSIONAL AFFILIATIONS:

1. Fellow, Institution of Engineers Pakistan.
2. Member, American Society of Civil Engineers.
3. Member, International Association of Environmental Impact Assessment, U.S.A.
4. Member Pakistan Engineering Council.
5. Member Pakistan Engineering Congress.

SUMMARY OF PROFESSIONAL EXPERIENCE

Environmental Sciences, Engineering and Management and Civil Engineering:

| <u>Period</u> | <u>Achievements</u> |
|--------------------------|--|
| 2003 – To date | <ul style="list-style-type: none">i) Member National Technical Committee on water Resources, Govt. of Pakistanii) Member Expert Group on National Water Policy Pakistan Engineering Counciliii) Chief Design Engineer Sehwan Barrage Complex on river Indus. A Rs. 60 billion project. |
| 2003 – To date | <p style="text-align: center;">Environmental Specialist Penal of Environmental Experts Shell Pakistan, Karachi.</p> |
| 2002- To Jan 2003 | <p>Environmental Consultant Lasmo Oil Pakistan Limited</p> <ul style="list-style-type: none">i) Manchar Block, Environmental Data Collection and Environmental Impact Assessment.ii) Hydro-Geological Study of Bhit Gas Filed, impact of Produced water re-injection.iii) Treatment & Reuse of Black water Kirthar, Base Camp.iv) Disposal of food and organic water, Kirthar Base Camp.v) Environmental Impact Assessment of Hallel Access Road.vi) Hydrological Impact on Bhit Jhangaro Road. |
| 2001-to date | <p>Environmental Consultant Mott Macdonald Pakistan</p> <ul style="list-style-type: none">i) Environmental Impact Assessment of “LAI Nala” Rawalpindi.ii) Right of way for River Soan in Bahria Town, Rawalpindi.iii) Environmental Impact Assessment of 274 Km long Right Bank Outfall Drain.iv) Purification of Major Lakes in Sindh for Sindh Environmental Perfection Agency. |
| 1998-2001 | <p>Environmental Specialists: National Drainage Program (World Bank Project), Pakistan Drainage Consultants (Sindh) Hyderabad</p> |

- i) Based on field visits, interviews and in consultation with water Quality, Agronomy and Engineering Design Experts completed Initial Environmental Scoping and Screening and Initial Environmental Impact Assessment reports for the fourteen drainage projects of National Drainage Program (Sindh) (World Bank Funded Project).
- ii) Framed TOR for Rs 1.5 million worth Hydraulic Survey for ISRIP for Sand Trap in Nara Canal and evaluated their reports, and carried out analysis of ISRIP's data.
- iii) As member of Experts Committee appointed by Govt. of Sindh prepared evaluation reports on Rs 280 million W70.WB1G Contract for Sand Trap Dredging work on Nara Canal.

1996-97

Director and Professor

Institute of Human Settlement & Environment and Chairman Department of Civil Engineering, Sir Syed University of Engineering and Technology Karachi

- i) Prepared Academic Regulations and Curriculum for Undergraduate studies in Civil Engineering and Postgraduate studies in Environmental studies and Planning.
- ii) Organized & Conducted Short course on 'Environmental Impact Assessment', for Engineers, Planners and Social Scientists.
- iii) Planned and prepared courses for Planners, Social Scientists, Engineers on "Land Utilization and Urban Planning.

1988-1996

Director and Professor

Institute of Environmental Engineering & Research, NED University Karachi.

Carried out a large number of field studies, self sponsored & student research projects at post graduate level.

- i. Ferro-cement lining for water courses (Rs. 0.3 million)
- ii. Treatment of Wastewater through Aquatic Plants. (Rs.11,50,000)
- iii. Air Pollution Studies of Karachi City (M.S Thesis).
- iv. Monitoring Marine Pollution of Karachi Coastal Waters (M.S Thesis).
- v. Environmental Impact Assessment of Kalabagh Dam (M.S. Thesis).
- vi. Solid Waste Management of Middle Income Localities. (M.S. Thesis).
- vii. Studies on Solid Waste Management of "Katchi Abadies of Sukkur" (for UNICEF, Rs 0.1. million).
- viii. Prepared Environmental Quality Standards for EPA Sindh (Rs 1.2 million).
- ix. Reuse of Wastewater for Eastern Province of Saudi Arabia, helped NESPAK to prepare the reports.
- x. Prepared and executed "Healthy Cities Project of W.H.O for Clifton Cantonment Board Karachi. A large number of short courses & Seminars were arranged for the officers of Civic Agencies.
- xi. "Promotion of Waste Recycling & Reuse in Developing Countries" sponsored by HABITAT 1991-92 (Rs 5 million –12 months)

- xii. Authored & Published “Irrigation & Hydraulic Structures” a treatise on theory and design of Pakistan’s Irrigation System (500 pages) (Rs. 0.2 million)
- xiii. Authored & Published “Basics in Water & Waste Waters” 75 page book (Rs. 25,000)
- xiv. As Consultant, “Engineering Associates”, completed projects in Forestry in Sindh and Earth Dam for Balochistan.

Only few important projects have been listed above to avoid a lengthy resume.

(Research and Teaching are in addition to the above achievements. Produced about 50 M.Sc. graduates in Environmental Engineering during this period).

1987-1988

Self Employed.

- i) Use of Drainage & Waste Water for Hydroponic System for Beatle Leaves

** Conducted 6 weeks courses on “Farm Management” for U.S Aid at Hyderabad and Sukkur for Engineers of Irrigation Department.*

1975-1987

Associate Professor

Water Resources & Environmental Division, King Fahd University of Petroleum & Mineral (KFUPM) Dhahran. Saudi Arabia.

- As member of the PhD committee start and monitored PhD program in the Civil Engineering Department.
- Taught courses in the undergraduate, graduate and PhD Programs.
- Principal Investigator & Co-Investigator:
 - i) “Sewage Utilization for Irrigation” (KFUPM Project 24 months 0.65 million Saudi Riyals) 1982-84
 - ii) Removal of Nitrogenous Compound in Compartmentalized Activated Sludge (KACST, Riyadh, Project S.R. 0.5 million 24 month 1981-83)”
 - iii) “Irrigation Methods with Wastewater and Feasibility of Drainage Water Reuse” (KACST, S.R. 0.3 million 3 years 1984-1987)
 - iv) “Feasibility of Wastewater Reuse in Hydroponic System” Students Project S.R. 10,000, 6 months)

1962-1975

Professor of Civil Engineering

University of Engineering and Technology Lahore

- Initiated Postgraduate programs in Water Resources Engineering.
- Initiated the program to establish the Centre of Excellence in Water Resources Engineering in 1975.
- Co-investigator for:
 - “A Study to Lay down Standard Specifications for Private Tubewells in Pakistan” (Sponsored by Planning Commission G.o.P Rs. 100,000/- 12 months) 1976.
- Principal Investigator for:
 - Model Studies on Storm Waster Drain for Karachi Steel Mills Project, 1976.

1961-1962

Design Engineer, A.C.E Ltd. Karachi

“Design of Storm Water Drainage System for Karachi” (K.D.A, 2- years, cost not known)

1959-1960

Junior Engineer

Gandhi Sagar Dam on Chambel River, (A 200 feet high concrete gravity dam)
Incharge Trash Rack Structures.

The list of publications consisting of Research Papers, Feasibility, Technical & Research Reports, etc is enclosed.

LIST OF PUBLICATIONS

I. PAPERS PUBLISHED IN REFEREED JOURNALS:

1. **Iqbal Ali, “Modern Scientific Discoveries in a Seventh Century Book”, AlBalagh International, Volume10, No.4, August 1999, Karachi, Pakistan.**
2. **Iqbal Ali & Waseem Akhtar “ Agricultural Re use of high Salinity Wastewater Through Drip Irrigation”, Proceedings 25th Annual Convention of Canadian Society of Civil Engineers, June 1997.**
3. Rauf. M., Akhtar W. and Iqbal Ali “Setting Characteristics if Karachi Tannery Wastes” Environmental News Vol. 4 No 1, Dec. 1996. Karachi.
4. Akhtar, Ali, Rauf, “Optimum Design of Sedimentation of tank based on settling characteristics of Karachi Tannery Waste” ----- Water Air, and Soil Pollution, Kluwer Academic Publishers Netherlands 1996.
5. Akhtar W, Iqbal Ali, Zaidi S. S. and Jilani Seema, “The State of Pollution Levels of Karachi Harbour and Adjoining Coastal Wasters” accepted for publication “Water Air and Soil Pollution”, Khuwer Academic Publishers, Netherlands, (1996).
6. Zaidi S.S. Akhtar W., Iqbal Ali “Assessment of organic Load in Karachi Coastal Water” “ Environmental News” Research Journal of IEER Karachi, Jan. Dec. 1995.
7. Akhtar W., Iqbal Ali, and Zaheer H., “Field Investigation on Characterisation and Management of Karachi Hospital Wastes”, “Environmental News” Research Journal of IEER, Karachi, Jan-Dec. 1995.
8. Akhtar W., Iqbal Ali, etal., “Recycling of Polyethylene Bags” “ Environmental News, “Research Journal of Institute of Environmental Engineering and Research Karachi, Jan. Dec. 1994.
9. Ziaur Rehman, S., and Iqbal Ali, “Sanitary Land Fill Area Requirements for Major Cities in Pakistan, “Environmental News”, Research Journal of IEER, Karachi, Jan. Dec. 1994.
10. Iqbal Ali, “Efficient Nitrogen Removal for Wastewater in Compartmentalised Activated Sludge Process” Int. Journal of Environment and Pollution London Vol., 4, No. 1, 1994.
11. Iqbal Ali & S. M. Ali “Solid Waste Recycling Through Informal Sections in Developing Countries”, The Journal of Resource Management, University of Pennsylvania Philadelphia vol.,. 21 No. 2, June 1993
12. Iqbal Ali and Mrs. S Jeelani “Study of Pollution Levels in the Coastal Waters of Karachi, Pakistan”, “Environmental News Research Journal of Institute of Environmental Engineering and research Karachi April 1993.
13. Iqbal Ali and Rehan Ahmed “Environmental Impact Assessment of Kalabagh Dam”, “Environmental News” Research Journal of Institute of Environmental Engineering and Research Karachi April 1993.

14. Waseem Akhtar, Iqbal Ali, Mansoor Ali and Asim Ali “A Sustainable Solid Waste Management Plan for Shanty Towns “Environmental New”” Research Journal of Institute of Environmental Engineering and Research Karachi January 1993.
15. Iqbal Ali, “Wastewater Criteria for Irrigation in Arid Regions”, Journal of Irrigation and Drainage”, American Society of Civil Engineers, May 1987.
16. Iqbal Ali, H. Khararjian and Munir Ahmed, “Viability of Microbial Mass in Compartmentalised Single Activated Sludge Process”, Water Research, London, July 1985.
17. Khararjian, H., and Iqbal Ali “Nitrogen Removal in Activated Sludge under varying Aerobic-Anaerobic Profiles”, Environmental Technology letter, London, April 1983.
18. Iqbal Ali, “Development of Ground Water Resources in Saudi Arabia”, Journal of Institution of Civil Engineers, London, November 1983.
19. Iqbal Ali, “Review of Technical Problems of Tarbela Dam”, Arabian Journal for Science and Engineering vol. 7211-219, Dhahran, July 1982.
20. Iqbal Ali, “Protecting Ground Water Potential the Saudi Arabian Experience”, National Development, 38-46, May 1982, Westport Connecticut, U.S.A.
21. Iqbal Ali, “Sediment Control” Journal of Hydraulics Division, ASCE, July 1975.
22. Fox, J. A. and Iqbal Ali, Discussion of “Flow Towards Gravity Well”, Journal of Institution of Civil Engineers, London, January 1969.
23. Fox, J. A. and Iqbal Ali, “Flow Towards Gravity Well”, Journal of Institution of Civil Engineers, London, August 1968.
24. Iqbal Ali and Zafar Sultan, “Studies in Design Consideration of Drainage Floor in Siphon-Aqueduct Against Subsoil Flow”, Pakistan Engineer, Vol., XVI, Institute of Engineers, Pakistan, 1964.
25. Banks R. A., and Iqbal Ali, “Absorption and Dispersion in Porous Media Flow”, Journal of Hydraulic Division, ASCE, Sept. 1964.

II. PAPERS PRESENTED AT CONFERENCES AND PUBLISHED IN REFEREED PROCEEDINGS:

- 1 Iqbal Ali and G. M. Abro, "Rights and Responsibilities of Lower Riparians of Kalabagh Dam on Indus" Proceedings of 68th Annual Session of Pakistan Engineering Congress, Lahore Jan 19, 2001.
- 2 Iqbal Ali, Siddqui P.A; Arif SN, Abro G.M: "Investigation on Eutrophication of Major Lakes in Sindh", 1st International Civil Engineering Congress, Karachi September 2000.
- 3 Iqbal Ali, Lutfi S. "Need for Rationalization of NEQS in Pakistan for sustainable Development 1st International Civil Engineering Congress, Institution of Engineers Pakistan Karachi September 2000.
- 4 Iqbal Ali & S.Lutfi, "Rationalization of Environmental Standards for Sustainable Development for ESCAP Region", International Conference on Technical Consultancy Development Program for Asia & Pacific, July 14– 16, 1999, Lahore, Pakistan.
- 5 Iqbal Ali & S.Lutfi, "Response of Saline Waste water Irrigation on Sand Bed Culture", Proceedings of the 24th WEDC Conference Loughborough University, December,1998.
- 6 Iqbal Ali "Agricultural Reuse of High Salinity Wastewater" Proceeding of the 8th International Conference on Rainwater Catchment Systems April 25-29th, 1997, Tehran 1997.
- 7 Iqbal Ali and S. Zia-ur-Rehaman "Environmental Considerations in High Rise Construction of Karachi" 38th Annual convention Institution of Engineers Pakistan Karachi, May 09-13, 1996.
- 8 Iqbal Ali and Waseem Akhtar "Monitoring of Pollution Levels in the Coastal Water of Karachi", National Seminar on Marine Pollution", Pakistan Navel College of Engineering, Karachi 28-29 January 1994.
- 9 Iqbal Ali, Kharajian, H. A., "Nitrogen Removal Optimization in Activated Sludge" 1994, ASCE National Conference of Environmental Engineering, Boulder, Colorado, U.S.A. July 11-13, 1994.
- 10 Ziaur Rehman and Iqbal Ali "Environmental Impact Assessment of Air Pollution a case study of Karachi", National Conference on Environmental Engineering, Jointly organised by ASCE and CSCE, Montreal, 14-16 July 1993.
- 11 Iqbal Ali "Environmental Engineering Education Problems and Prospects" 34th Annual Convention of Institute of Engineers Pakistan Karachi April 1993.
- 12 Iqbal Ali and Mansoor Ali "Solid Waste Recycling in Karachi through informal Sector", 34th Annual Convention of Institute of Engineers Pakistan Karachi April 1993.
- 13 Waseem Akhtar and Iqbal Ali "A Cost Effective and Sustainable Solid Waste Management for Shanty Towns in Pakistan " 18th WEDC International Conference, Khatmandu, August 29th September 3rd, 1992.

- 14 Iqbal Ali and Ms. S. Jilani “Low Cost Wastewater Treatment in Pakistan”, 18th WEDC International Conference, Katmandu, August 29, September 3rd, 1992.
- 15 Iqbal Ali and Ms. S. Jilani “Low Cost Wastewater Treatment Options for Reuse in Developing countries” 1st Bahrain International Conference on Pollution, Bahrain, February 24-26, 1992.
- 16 Iqbal Ali “Soil Response to Solid Waste Management in Katchi Abides (Shanty Towns)” 33rd Annual Convention of Institution of Engineers Lahore, January 25-28, 1992.
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- 25 Iqbal Ali, “Development of Groundwater Resources in Saudi Arabia”, Annual Convention, ASCE, New York, May 1981.
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III. RESEARCH REPORTS:

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IV. BOOKS AUTHORED:

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4. Environmental Impact Assessment – Techniques and Application (200 Pages) IEER, January 1996.
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V. JOURNALS:

Editor in Chief of “Environmental News” Research Journal of Institute of Environmental Engineering and Research, and yearly publication being published by the institute, 1996, Fourth year of publication.

VI. ARTICLES IN MAGAZINES AND NEWSPAPERS:

Thirty articles published covering various aspects of Environmental Pollution and Water Resources Engineering in Environmental Section of Daily “DAWN” and other popular magazines.

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11.1983 till to-date **Chief Executive International Engineers Lahore.**
 Established his own consultancy firm in November, 1983 to provide Design (Tender documents & Drawings) & Supervises of electrical Works of various types of Industries & Buildings. Over the years his firm has been associated as **“Electrical Consultant”** with Leading Architectural & consulting firms in Pakistan to provide consulting services for Electrical Works of their projects.

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04.1982 to 10.1983 **Senior electrical Engineer, Republic Engineering Corporation, Lahore.**
 Responsible directly to the Projects Director heading a team of one Design Engineer and seven draftsman. he was responsible for Design, Tender Documents, Supervision of Electrification works of various projects. The projects he handled were electrification works of Grindlays Bank Building at Bank Square Lahore, Bata Factory at Multan Road, Lahore & other works.

- 04.1979 to 03.1982 **Electrical Design Engineer, Republic Engineering Corporation, Lahore.**
Working under Senior Electrical engineer he controlled a team of seven Draftsman and he was responsible for design, supervision, preparation of tender documents of the electrification works of projects. Some of the important projects on which he worked were, LDA House, State Life Multi-Stories Building at Peshawar., Pakistan Arts Council Auditorium Lahore. PIA Building Lahore, and storage Godons for NLC at Various Cities.
- 05.1978 to 03.1979 **Engineer Face Ltd, Lahore.**
I was directly responsible to the Managing Director and controlled team of 2 junior engineers and 4 draftsman, my duties involved survey, grid station planning, HT, LT Design, cost estimates for feasibility study of district DADU ROHRI, KHAIR PUR & BAHAWALPUR.
- 10.1977 to 04.1978 **Designer Sir William Halcrow & Partners, London.**
Working under Project Manager he was responsible for preparing drawings and bill of quantities of various projects, Renovation of Hashmyte Place Jordon, Belawan Port Indonesia.
- 07.1977 to 10.1977 **Design/Draftsman Costain International Ltd London.**
Working under Engineering manager he was responsible for design preparing drawings of power cables, for extension in Al-AIN CEMENT WORKS, General and road lighting of Dubai Cement Works, Automatic Fire Fighting System for Oil Storage Tanks in Dubai.