



**IEMA ENGINEERING**

CIVIL, ENVIRONMENTAL & MEP ENGINEERS

# Company Profile



**IEMA ENGINEERING**

CIVIL, ENVIRONMENTAL & MEP ENGINEERS

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# Introduction

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**IEMA Engineering** is a team of **Professionals** providing a wide range of services in **Engineering, Project Management** and allied Services.

The group has an extended network of services, offered both, nationally and internationally.

In addition to their education in reputed **Pakistani** universities the professionals at **IEMA Engineering** have specialized training to their credit. As relevant professional expertises are required on such jobs, associates of **IEMA Engineering** do also put in their expertises. Our trained and qualified professionals include **Architects, Planners, Engineers, Designers** and **Project Managers**. Our associate consultants are highly valued experts in their respective fields of specialization.

Our satisfied clients belong to both public and private sector. These include **Multinationals, Public and Private Limited Companies**, and few **Government Organizations** including Forces. We have successfully served these **Clients**.

Our endeavour is to give each client and every project a high level of professional attention that meets or exceeds their expectations.

**IEMA Engineering** believes in building strong professional relationships at all levels of its operation. It believes in team work and combines together all expertise while focussing on specific needs of its valued clients. It has thus developed association with a number of professional firms having valued track record in their respective fields of interest.

**IEMA Engineering** is based at **Karachi** with **associate offices** at Karachi, Lahore, Islamabad, Sargodha etc. as it has undertaken projects all over Pakistan.

**IEMA Engineering** understands the key factors involved in any building system and design our services to be functional, economical and inspirational. Making sure that our services fully meet the needs not only of clients and users but also of time and current market trends, we design our MEP solutions that are 100% supportive of the building's purpose. It has a very systematic approach for each of its project, which is always supported by high calibre project management. Its approach varies from the innovative designing to technical documentation and from the sensitive community planning to larger dynamic **Urban and Rural** development.



**IEMA Engineering** offers wide range of services in the field of design, planning and project management. The area of operation includes **R**oad networks, **I**ndustries, **H**ousing, **C**orporate buildings, **R**ecreational **F**acilities, **I**nstitutional buildings, **H**ealth facilities etc.

The group's endeavour has always been to maintain high standards and excellence in the services rendered. To keep pace with the technology available it employs latest software and equipment.



# Scope of Services

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**IEMA Engineering** offers specialized services in multi-disciplines of Engineering as enlisted below:

## **Designing Scope:**

- Concept Design
- Schematic Design
- Detailed Design
- Construction Design

## **Technical Studies & Reports**

This design brief outlines all the Mechanical, Electrical & Plumbing design parameters, system recommendation and suggests the extent of provision of the project under consideration. This report is based on the data received to date

This design brief serves as a statement of what is being designed for inclusion within the MEP contract. This document will serve as a reference for the client and other design team members and it is from this basic document that the designs and technical specification shall be developed for tendering and construction. In addition to our direct engineering services, IEMA Engineering also provides vetting, review and value engineering services on others' designs with the help of our virtuoso engineers. It is IEMA Engineering multi-disciplinary approach that makes it the consultancy of first choice.

- Pre-Design Studies
- Feasibility Studies
- Design Briefs
- Equipment Testing Reports
- Safety Inspections & Reports
- Facility Audits
- Policy & Procedure Audits
- Design Vetting, Review and Report



## **Project Documentation**

- Specification's Development
- Project Qualification / BOQ
- Tender/ Bid Documentation
- Special/ General Terms & Conditions
- Bid Invitation
- Prequalification of Contracting Firm

## **Engineering Estimations & Evaluations**

Our value engineering services are directed at analyzing designed building features, systems, equipment, and material selections for the purpose of achieving essential functions at the lowest life cycle cost consistent with required performance, quality, reliability, and safety. Our integrated, holistic approach helps to reduce running costs without impacting on clients' aspirations and offers alternative design solutions to optimize the expected cost/worth ratio of projects at completion. We create and promote ideas for maintaining or enhancing results while reducing life cycle costs.

- Budgetary Estimation
- Bid Evaluations & Recommendations On site/Factory Testing
- Commercial & Technical Negotiations Utility Services Co-ordination
- Variation Reports
- Progress Payment Evaluation

## **Construction Management**

- Construction Scheduling
- Progress Tracking
- Quality Assurance
- Site Inspections
- On site/Factory Testing
- Client / Contractor's Coordination
- Utility Services Co-ordination
- Material selection
- Material Procurement Engineering Services
- Top or Detailed Supervision

All the above services provided are not limited to the following:



- Multi-storeyed Shopping Centres, Plazas, Residential Apartments and Complexes
- Hotels & Recreation facilities.
- Industries Development
- Public Buildings
- Health facilities
- Government and Semi Government Projects
- Commercial Schemes and Town Houses
- Resorts and Farm Houses
- Residential Bungalows



## Disciplines Offered by IEMA Engineering



**MECHANICAL**



**FUEL-GAS  
MANAGEMENT**



**FIRE SUPPRESSION**



**VERTICAL  
TRANSPORTATION**



**ELECTRICAL**



**SECURITY**



**DATA &  
COMMUNICATION**



**LIFE SAFETY**



**ALTERNATE ENERGY**



**BUILDING  
MANAGEMENT  
SYSTEM**



**PUBLIC HEALTH**



**GREEN BUILDING**



**MED-INDUSTRIAL  
FACILITIES**



**TECHNICAL STUDIES**



**INFRASTRUCTURE  
PLANNING**



**BUILDING APPROVAL**







## MECHANICAL

- HVAC System
- VRF Air Conditioning System
- Packaged Units Air Conditioning System
- Unitary (Split) Air Conditioning System
- Hydronic Room Heating System
- Industrial Ventilation & Exhaust System
- Garbage Extraction System



## FUEL-GAS MANAGEMENT

- Natural Gas
- Synthetic Natural Gas
- Liquefied Petroleum Gas
- Liquefied Natural Gas
- Bulk Fuel Storage System
- Fuel Transfer System



## FIRE SUPPRESSION

- Fire Sprinkler System
- Fire Suppression Gas System
- Water Spray and Mist System
- Fire Fighting Stand Pipes, hydrants and Hose System



## VERTICAL TRANSPORTATION

- Elevators
- Escalators
- Travellators
- Dumb Waiters





## ELECTRICAL

- General Electrification with Distribution System
- Instrumentation and Control
- Emergency Power Generation System
- Emergency Lighting
- Building Earthing & Grounding System
- Lightning Protection System
- UPS Solutions
- External, HV, LV , Electrical Power Distribution



## SECURITY

- CCTV Surveillance System
- Perimeter E-Fencing
- Surveillance / Search Lighting
- Anti-Theft System
- Speed Gates
- Walkthrough Gates
- Scanners
- Automatic Vehicle Barrier
- Vehicle Scanning System
- Electronic Door Lock



## DATA & COMMUNICATION

- Data Centre Design
- IT Infrastructure System (Fiber Optic)
- Networking System
- Visitor Intercom System
- Public Address & Conference System
- Central Music System
- Nurse Call System / Paging System / Queue Management System
- CATV/MATV/Cable Antenna System
- DAS - Distributed Antenna System





## LIFE SAFETY

- Fire Detection System
- Heat/ Gas Detection System
- Flame Detection System
- Automatic Smoke Control and Stair Well Pressurization System
- Fire and Emergency Evacuation Plan



## ALTERNATE ENERGY

- Photo Voltaic Solar System
- Feasibility Studies for:
  - Wind Energy
  - Geothermal Energy
  - Tidal Energy
  - Biomass Energy
  - Nuclear Energy



## BUILDING MANAGEMENT SYSTEM

- Building Management Unit
- Parking Management System
- Smart Metering and Monitoring





## PUBLIC HEALTH

- Gravitational and Pneumatic Water Distribution System
- Irrigation System
- Drainage & Sewerage System
- Sub-Soil Drainage System
- Waste Water Treatment Plant
- Rain Water Harvesting
- Solid Waste Management of Industrial and Municipal Waste
- Hospital Waste Management
- Grey Water Recycling
- Reverse Osmosis Water Filtration Plant
- Water Parks
- Swimming Pools



## GREEN BUILDING

- Energy Efficient Building Design
- Water Efficient Building Design
- Highly Efficient Material Selection
- Environmental Quality Enhancement
- Operations and Maintenance Optimization
- Waste Reduction



## MED-INDUSTRIAL FACILITIES

- Compressed Air
- Deionized Water
- Oxygen Supply
- Nitrogen Supply
- Vacuum Supply
- Industrial Waste Management
- Hospital Waste Management





## TECHNICAL STUDIES

- Energy Audit
- Facility Audits
- Equipment Testing and Safety Inspections
- Design Vetting and Bid Evaluations

### Environmental Studies

- EIA (Environmental Impact Assessment)
- IEE (Initial Environmental Examination)
- ESMF (Envir. and Social Management Framework)
- ESMP (Envir. and Social Management Plan)
- Environmental Monitoring and Control
- Risk and Hazards Assessment
- Occupational Health & Safety
- BBS (Behaviour Based Safety)



## INFRASTRUCTURE PLANNING

- Road and Highways
- Power Distribution Network
- Street Lighting
- Communication Infrastructure
- Sewerage Infrastructure
- Water Supply and Distribution Infrastructure
- Storm and Surface Drainage Infrastructure



## BUILDING APPROVAL

- SBCA - Sindh Building Control Authority
- KDA - Karachi Development Authority
- Bahria Town - Pakistan
- RDA – Rawalpindi Development Authority
- CDA - Capital Development Authority
- CBC - Cantonment Board Clifton
- LDA - Lahore Development Authority
- SEPA - Sindh Environmental Protection Agency and others



## CEO Experience

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**Name** : **SAFDER HUSSAIN MOVER**

**Nationality** : Pakistani

**N.I.C No.** : 42201-0269347-7

**NTN No.** : 0901368-7

**Profession Specialisation** : Electrical & Communication Engineering

**Registration: Pakistan Engineering Council** : ELECT/9472

**Affiliation with Professional Institutions** : Member Institution of Engineer (Pakistan)  
: Member Pakistan Engineering Council  
: Member Institution of Electrical & Electronics Engineers  
: Member American Society of Plumbing Engineers  
: Member Fire Protection Association of Pakistan

**Permanent Address** : B-58 Block 5 Gulshan-e-Iqbal Karachi, Pakistan

**Telephone** : 0092 - 21 – 34960905  
**Fax** : 0092 - 21- 34834627  
**Cell phone** : 0092 - 300 3340422, 0092-322 2017797  
**E-Mail** : safder@iema.info / mail@iema.info

**Education**

**Name of Institution** : Year Degree  
**N.E.D University Karachi** : 1986 B.E Electrical Engineering.

**Experience Of Engineering Designing And Planning** : 25 YEARS

**I. Consulting Firm** IEMA ENGINEERING  
**Title Position** CEO  
**Location of Assignment** Karachi  
**Period of Assignment** 1992 to Date

### Activities

- Designing and Planning of Electrical, Communication, Plumbing/ Sanitation and H.V.A.C.



We have worked on the following number of projects so far

**Designing and Planning:**

84	Multi-storeyed Shopping Centres and Plazas
68	Multi-storeyed Residential Apartments and complexes
57	Public Buildings (Hotels, Institutes etc)
36	Industrial Projects
32	Residential Bungalows above 1500 Sq. Yds
203	Residential Bungalows below 1000 Sq. Yds
23	Projects for Government and Semi government
09	Commercial and Housing Schemes upto 500 Acres
19	Town Houses upto 30 Acres
15	Resorts and Farm Houses upto 200 Acres
02	CNG Stations

**Executions and Supervision:**

36	Multi-storeyed Shopping Centres and Plazas
34	Multi-storeyed Residential Apartments and complexes
27	Public Buildings (Hotels, Institutes etc)
16	Industrial Projects
21	Residential Bungalows above 2000 Sq. Yds
164	Residential Bungalows below 1000 Sq. Yds
19	Projects for Government and Semi government
17	Town Houses upto 30 Acres
14	Resorts and Farm Houses upto 200 Acres
02	CNG Stations

<b>II. Consulting Firm</b>	: Progressive Planners
<b>Title of Position</b>	: Senior Design Engineer
<b>Location of Assignment</b>	: Karachi, Pakistan
<b>Period of Assignment</b>	: 1989 to 1992

**Activities**

- Responsible for checking and approving Electrical Drawings as well as the supervision of the Construction of all Electrical Engineering Projects including High rise Buildings and Isolated Power Supplies with Electrical Sub-Stations.

Redesigning of State Life Building #1 and Building #2  
Extension of Beach Luxury Hotel and Avari Hotel  
Renovations and Extensions of Custom House Karachi  
Fly Over Bridge & Under Pass of Karimabad, Karachi. (Design Proposal)

<b>III. Name of Employing Agency</b>	SASI BUILDER & DEVELOPERS
<b>Title of Position</b>	Engineer Design & Execution Electrical & Mechanical
<b>Location of Assignment</b>	Karachi
<b>Period of Assignment</b>	1986 to 1989

**Activities**

Responsibilities of designs & supervise of all the projects of SASI Builder & Developers.





## Experience Summary

EMPLOYER	DESIGNATION	TENURE
IEMA Engineering	MEP Design Coordinator	Nov 2019 to date
NET - RWTH Aachen University	Research Assistant	Mar 2019 to Oct 2019
IEMA Engineering	Mechanical Design Engineer	Mar 2016 to 2017
Consultants Group	Mechanical Design Engineer	June 2015–Mar 2016
FND (Pvt.) Ltd, Consulting Engineers	Trainee HVAC Design Engineer	July 2014–Aug 2014
IEMA Engineering	Trainee Mech. Design Engineer	Aug 2013-Oct 2015

## Education

M.Sc. N. Applications | N. Energy and Technologies

**FH Aachen - University of Applied Sciences, Jülich, Germany (2017- 2019)**

Nuclear Application is a program in which the students acquire wide-ranging, integrated knowledge and understanding of the scientific and technical fundamentals of nuclear science and technology.  
Thesis: “Experimental and Theoretical Validation of Nuclear Data and Physical Models using different Monte Carlo Codes”

In the framework of design and development of compact accelerator driven high brilliance neutron sources (HBS) - a project of Jülich Centre for Neutron Science (JCNS), Forschungszentrum Jülich, experimental and theoretical validations of Monte Carlo simulation codes were required in order to determine the accuracies of physical models and data libraries employed by these MC codes for solving complex particle interaction and transport problems.

### **B.E. Energy Engineering**

**Hamdard University, Karachi, Pakistan (2011 - 2015)**

Energy Engineering is a fused program of mechanical and electrical engineering, focusing on the energy efficiency and conservation based on the optimization techniques of thermodynamics and fluid mechanics, while blending material engineering and machine mechanics in it. Energy services, facility management, plant engineering, environmental compliance and alternative energy technologies are also studied.  
Final Year Project: “Designing and Fabrication of Subsonic Open Cycle Wind Tunnel”

A Subsonic Open Cycle Wind Tunnel is a testing machine, a tool used in Aerodynamic and wind energy research to study the effects of Aerodynamics forces on the bodies placed in the airflow. This wind tunnel has been designed and developed for use in a laboratory setting for research and teaching purposes.

A-Levels (CIE)

**Summit Educational System (2009 - 2011)**

**Subjects: Mathematics, Physics & Chemistry**





## Professional Training Courses and Activities

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- Participated in an intensive course “Management of Radioactive Waste – MARWAS 2017” organized in the framework of a Cherne activity in UHasselt, Belgium from 27th Nov – 1st Dec 2017
- Participated in one week training course “Radiation Protection – Basics and Applications (RaBPA) from 19th – 23rd February 2018 hosted by Forshungszentrum Julich and CONCERT.
- Participated in a lab course “Reactor Physics at VR-1 Reactor” Czech Technical University in Prague from 14th -17th May 2018.
- Presented work “Comparative Study of GEANT4, MCNP and FLUKA” at JCNS Conference, FZJ, Germany on Jan 24, 2019.
- Presented work “Experimental Validation of Physical Model and Data Libraries” at JCNS Meeting, FZJ, Germany on May 9, 2019.
- Attended Energy Conference Roadmap to the Future on May 15-16, 2012, by ASHRAE, Karachi.
- Attended Technical Seminar on Indoor Air Quality on Feb 28, 2012, by ASHRAE, Karachi.
- Attended HSE Management Course at Fire Protection Association of Pakistan

### Excursions (Nuclear Facilities – Energy & Mechanical Division)

Have visited various nuclear facilities including research reactors, power plants, hot cells, interim nuclear fuel storage sites, underground fuel depository lab, accelerators, etc.

- Paul Scherrer Institute, Switzerland
- BelgoProcess Waste Management, Belgium
- Leibstadt Nuclear Power Plant, Switzerland
- ZWILAG interim storage, Switzerland
- HADES underground laboratory for nuclear waste research, Belgium
- ÚJV Řež, as, Czech
- FRJ-2, Hot Cells and other facilities, FZJ, Germany
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### Extracurricular Activities

- Delivered a talk on “Integration of MEP Systems in Architectural Design” at Dawood University of Engineering and Technology, in Nov 2016.
- Hosted Hamdard University Model United Nation '14 as Manager Publication.
- Participated in 7th PowerGen & Energy Forum 2014 at Marriot Hotel, Karachi.
- Participated in 5th Power Generation Conference 2012 at Marriott Hotel, Karachi.
- Participated in 1st Youth National Energy Conference by Youth Affairs Department Government of Sindh at Hotel Regent Plaza, Karachi.

### Training of Professional Software:

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| • HVAC Design Software               | HAP (Hourly                      |
| • Fluid Modeling Software            | Analysis Program)                |
| • Computational Fluid Dynamics       | EPANET                           |
| • Nuclear Simulation Codes           | Solid Works                      |
| • CAD software                       | FLUKA, MCNP-5, MultiDif, SOTRAN, |
| • Lighting Design Software           | SUSAN,RADDOSE AutoCAD 2018,      |
| • Lightning Protection Software      | AutoCAD MEP                      |
| • Circuit Design Simulation Software | DiaLux Strike Risk               |
| • Other Languages                    | LabVIEW, Simaris                 |
|                                      | HTML/PHP                         |



## **Employment History:**

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Research Assistant | Institute of Nuclear Engineering and Technology Transfer

**RWTH Aachen University, Germany**

**Mar 2019 to Oct 2019**

Engaged in various nuclear simulations and comparative studies, theoretical and experimental benchmarking, evaluation of nuclear data and physical models and MCNP-FLUKA code validation for the realization of a Neutron Source which complements the larger international facilities such as the future European Spallation Source ESS.

**Mechanical Design Engineer | IEMA Engineering**

**Mar 2016 to 2017**

Engaged in Planning, Designing and preparation of Tender, coordinating clients' requirements and engaging team to meet deadlines for various MEP Services including:

### **Mechanical & Plumbing:**

- Fire Fighting
- Fire Suppression Systems
- Hydronic Room Heating System
- Central Air Conditioning and Ventilation System Coordination
- Hydraulic Analysis for firefighting and water supply lines
- Integrated Water Distribution System
- Soil & Waste Drainage, Building's rain water disposal
- Storm Water/ Surface Drainage of Town Schemes
- Recycling of Rain Water
- Septic Tanks & Soak Pits design sizing
- Waste Water Treatment Plant, Reverse Osmosis Treatment Plants design coordination
- Diesel and Natural Gas pipe sizing.
- Swimming Pools Equipment selection, planning and design

Major Projects: 500-acres Gwadar Export Processing Zone, 1600-acres Jinnah Industrial Park, 1000 acres Bin Qasim Industrial Park, 84-acre International Port City, 32 Stories Metro Twin Tower-Karachi, 18 Stories Lotus Lake Tower Bahria Town-Islamabad, The Centrium Bahria Enclave-Islamabad, Karachi Chamber of Commerce, 4-Star Emerald Hotel and Mall-Hyderabad, Greenstar Office in Ocean Mall- Karachi, etc.

**Mechanical Design Engineer | Consultants Group**

**June 2015 to Mar 2016**

Preparing various proposals on Mechanical and Plumbing Systems for infrastructural and high-rise building works, including Water Supply Distribution Network, Waste Water Treatment, Water Purification, Irrigation System and Designing of Centralized Synthetic Natural Gas System.

Major Projects: Revival of Saddar, Pakistan Chowk and Adjoining Areas of Old Town Karachi funded by World Bank, 30-acres Fazaia Housing Scheme Site-I, 500 Acres Gaddani Shipbreaking and Recycling Industries



**Trainee HVAC Design Engineer | FND (Pvt.) Ltd, Consulting Engineers**

**July 2014 to Aug 2014**

Responsible for the Designing and Planning of HVAC System and Fire Fighting of an Office Building under the supervision of Design Engineer as per the ASHRAE Std. and standard practices.

**Trainee Mechanical Design Engineer | IEMA Engineering**

**April 2012 to Dec 2013**

Engaged in learning basics of mechanical design work under the supervision of senior designers for various system designing and planning of building and infrastructure works.

Major Projects: La Paraiso-Emaar, Canyon Views Shopping Complex-Emaar, District Head Quarter Hospital Complex (Khairpur, Shikarpur, Mithi, Dadu).

### **Practicing Codes and Standards:**

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- ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers
- NFPA National Fire Protection Association
- NEQS National Environmental Quality Standards
- ASPE American Society of Plumbing Engineering

### **Professional Memberships**

<b>SOCIETY/INSTITUTION</b>	
•	Pakistan Engineering Council
•	Fire Protection Association of Pakistan

### **Personal Information**

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Father'sName	Safder Hussain Mover	Date of birth	May 26, 1991
Marital Status	Single	Passport #	AA0622451
Nationality	Pakistani	Religion	Islam

### **References**

Available on request



**ATHER HUSSAIN MOVER**

1.	<b>Proposed Position:</b>	<b>WASH and Environmental Consultant</b>		
2.	<b>Name of Firm:</b>	Not Applicable		
3.	<b>Name of Expert:</b>	<b>Engr. Ather Hussain Mover, A.M. ASCE, P.E. PEC</b>		
4.	<b>Current Residential Address:</b>	B-58 Block No.5 Gulshan-e-Iqbal Karachi Sindh Pakistan <b>Telephone No:</b> +92 321 2452690 <b>Fax No:</b> Nil <b>E-Mail Address:</b> <a href="mailto:athermover@gmail.com">athermover@gmail.com</a>		
5.	<b>Date of Birth:</b>	27 <sup>th</sup> Feb 1988	<b>Citizenship:</b>	Pakistani
6.	<b>Education :</b>	<ul style="list-style-type: none"> <li>• <b>Masters</b> (Master in Environmental Engineering) from NED University (2012) with <b>3.93CGPA</b></li> <li>• <b>Bachelors</b> (BE Civil Engineering) from from NED University (2010) in 1st Division</li> </ul>		
7.	<b>Membership of Prof: Associations:</b>	<ul style="list-style-type: none"> <li>• Environmental Institute- ASCE USA 920045</li> <li>• WASH Collaborative Council Switzerland</li> <li>• Pakistan Engineering Council (PEC) PAK CIVIL/30748</li> <li>• Institution of Engineers Pakistan (IEP) PAK M-17044/KAR-1640</li> <li>• Institution of Civil Engineers (ICE) UK 653296721</li> </ul>		
8.	<b>Other Training:</b>	<ul style="list-style-type: none"> <li>• Attended 1st Pakistan-Turkey Bilateral Workshop on Municipal Services Management conducted by NUST &amp; TIKa at Islamabad</li> <li>• Attended 2<sup>nd</sup> Pakistan Urban Forum conducted by Urban Unit Punjab/ Sindh</li> <li>• Participated in Sindh Water &amp; Sanitation Seminar conducted by World Bank</li> <li>• Attended 4th Seminar on Urban &amp; Regional Planning at NED University</li> </ul>		
9.	<b>Countries of Work Experience</b>	<b>National Work Experience:</b> <ul style="list-style-type: none"> <li>• Pakistan – [Since 2010 – Full Time]</li> </ul>		
		<b>Language</b>	<b>Reading</b>	<b>Speaking</b>
		1. English	Good	Good
		2. Urdu	Good	Good
		<b>Modeling Software</b>	<b>Office Tools</b>	<b>Graphical Language</b>
		EPANET	MS Office	AutoCAD
		WaterCAD	MS Access	ArcGIS
				<b>Writing</b>
				Good
				Good
				<b>Others</b>
				SewerGems
				FlowMASTER

**12. Service Record:**

<b>No. 01</b>	From:	Aug 2015	To:	To Date
Employer:	Project:	Assigned to teach various Masters level courses at Department of Environmental Engineering, NED University at Masters of. Engineering (M.Engg) and Masters in Environmental management (MEM) program Evening/Weekend. Also assigned to teach B.E courses at Civil Engineering Depart.		
Position Held:	<b>Visiting Faculty</b>			
<b>No. 02</b>	From:	Jan 2018	To:	To Date



Employer:	Project:	A World Bank funded project; 'Sindh Enhancing Response to Reduce Stunting Project' <ul style="list-style-type: none"> <li>• Implementation of WASH projects in 23 Districts of Sindh under Accelerated Action Plan</li> <li>• Implementation of Environment safeguard instruments, Carryout training programs</li> <li>• Preparation and monitoring of ESMPs/VLD and other safeguards documents for various sector.</li> </ul>
Position Held:	<b>Environment Safeguards Specialist</b>	

<b>No. 03</b>	From:	Sep 2017	To:	Jan 2018
Employer:	Project:	Engaged as a team leader in the following projects: <i>Sindh Municipal Finance Study Project, Worked as Water &amp; Sanitation Specilaist Wastewater Treatment Plant for Mazar e Quaid. Worked as Team Leader Behaviour Based Safety Project for a Multinational firm</i>		
Position Held:	<b>Environmental &amp; WASH Consultant</b>			

<b>No. 04</b>	From:	October 2015	To:	August 2017
Employer:	Project:	An <b>ADB funded</b> US \$400 Million project; 'Sindh Cities Improvement Program' <ul style="list-style-type: none"> <li>• Prepration for tranches of the Investment Program, undertaking various Water &amp; Sanitation studies (Base Line Surveys, ESMF studies etc)</li> <li>• Water Supply and Sanitation improvement works</li> </ul>		
Position Held:	<b>Municipal Services Specialist (Water, Wastewater &amp; Solid Waste Management)</b>			

<b>No. 05</b>	From:	August 2013	To:	Oct 2015
Employer:	Project:	Preparation of PC-1/ Feasibility Studies for various public sector development projects		
Position Held:	<b>Assistant Executive Engineer</b> , Pakistan Public Works Department, Ministry of Housing & Works, Govt. Of Pakistan			

<b>No. 06</b>	From:	August 2013	To:	Oct 2015
Employer:	Project:	<ul style="list-style-type: none"> <li>• A <b>World Bank funded</b> project; Construction of Student Hostel and Residential Area at Balochistan University of Information Technology and Management Sciences; Involved in external validation of Environmental and social management plan (ESMP) under Tertiary Education Support Program (TESP).</li> <li>• A <b>World Bank funded</b> project; Construction works at Dow University of Health &amp; Sciences (OJHA Campus); Involved in third party validation of ESMP under TESP.</li> <li>• A <b>USAID funded project</b>; Preparation of Environmental and Social Review Report for Center of Construction of Advance Studies-Water at Mehran University, Jamshoro.</li> <li>• Monitoring and Technical/Environmental &amp; Social supervision of Construction work of USAID small grant project (<b>NRSP-SGAFP</b>), <b>IUCN</b></li> </ul>		
Position Held:	<b>Environmental Consultant (Part Time)</b>			

<b>No. 07</b>	From:	Jan 2012	To:	Aug 2013
Employer:	Project:	An ADB funded US \$400 Million project; 'Sindh Cities Improvement Program'		
Position Held:	<b>Engineering Executive/ Acting Municipal Services Specialist</b>			



<b>No. 08</b>	From:	Jan 2007	To:	Dec 2011
Employer:	Project:	Various Multistory Building, Town Houses, External Development Scheme(Water-Sanitation Works)		
Position Held:	<b>Design Engineer (WASH)</b>			

### 13 Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned

<b>Name of project:</b>	<b>A World Bank funded US \$63 Million project; 'Sindh Enhancing Response to Reduce Stunting Project'</b>
<b>Year:</b>	2018 -2019
<b>Location:</b>	• Sindh, Pakistan
<b>Client:</b>	Govt of Sindh
<b>Main project features:</b>	<ul style="list-style-type: none"> <li>• Multi-Sectoral Interventions to improve nutrition status and reduce stunting</li> <li>• Sectors included WASH, Livestock, Fisheries etc.</li> <li>• Nutrition Specific and Nutrition Sensitive interventions</li> <li>• DLIs based Project</li> </ul>
<b>Position held</b>	<b>Environmental Safeguards Specialist</b>

#### Activities performed:

- To deal with environmental aspects of the WASH projects and provide feedback to the Coordinator to the Chief Minister Sindh for Nutrition (Nutrition Coordinator) on implementation of environmental action plan under the activities of the project.
- Support in compliance of the credit conditions and covenants pertaining to Environmental Safeguards.
- Update in Implementation of Environmental aspects of the project.
- Implementation of all aspects identified in environmental and social management plan of ESMF, including environmental and social screening and filling the screening checklists for WASH and Fisheries sub-project to be undertaken under AAP.
- Conduct/manage ESMF trainings for the Technical Support Partners (TSP), personnel and Districts ESFP(s) in accordance with the Training Plan given in ESMF.
- Supervising and supporting Technical Support Partners (TSP) in achieving their responsibilities as outlined in the ESMF and subsequent ESMPs, VLDs and Checklists.
- Carrying out frequent field visits and conduct monitoring for effective ESMF implementation as well as IPMP implementation.
- Organize and conduct the trainings on ESMF and ESMP compliances as proposed in mitigation plan.
- Responding to environmental incidents as required
- Ensure the HSE compliance onsite by the civil works carried out by the other units.
- Review and revision of documents and ensuring timely delivery of outputs as agreed between The World Bank and the project.
- As and when required contribute to the ongoing activities of the environmental safeguard unit.
- Preparing quarterly progress reports (ESMF Compliance) for submission to the World Bank.
- Prepare final progress report of the ESMF and submit to the World Bank.
- Assist the Nutrition Coordinator in routine office matter when require.

<b>Name of project:</b>	<b>An ADB funded Study project; 'Sindh Municipal Finance Study Project'</b>
<b>Year:</b>	2017 till to 2018
<b>Location:</b>	• Sindh, Pakistan
<b>Client:</b>	Govt of Sindh
<b>Main project features:</b>	<ul style="list-style-type: none"> <li>• Water &amp; Sanitation Infrastructure Existing Situation Analysis of TMA's MC's</li> <li>• Cost Estimation for improvement works on Water Supply, Wastewater and SWM.</li> <li>• Tariff Assessment and future recommendations</li> </ul>
<b>Position held</b>	<b>Municipal Services Specialist (Water, Wastewater &amp; SWM)</b>



**Activities performed:**

- To Study and analysis of Present and Potential capacity of the existing infrastructure of 30 Municipal Committees and resources of the Municipalities
- Examine and identify major constraints that could influence the overall performance of the Municipalities in the provision of Service Delivery
- Analysis of performance of Municipalities in the provision of Service Delivery
- Assist team leader in Carrying out detailed SWOT Analysis

<b>Name of project:</b>	<b>An ADB funded US \$400 Million project; 'Sindh Cities Improvement Program</b>
<b>Year:</b>	2015 till to 2017
<b>Location:</b>	<ul style="list-style-type: none"> <li>• Northern Sindh, Pakistan</li> <li>• Central Sindh, Pakistan</li> </ul>
<b>Client:</b>	Govt of Sindh
<b>Main project features:</b>	<ul style="list-style-type: none"> <li>• Urban Planning on Institutional Development, and Program Implementation Support</li> <li>• Water Supply and Wastewater Management Improvements</li> <li>• Solid Waste Management Improvements</li> <li>• Operational and Transition Support Funding</li> </ul>
<b>Position held</b>	<b>Municipal Services Specialist (Water and Wastewater)</b>

**Activities performed:**

- Review all program documents: assist the SCIP to prepare Documents and implementation the program
- Assist in Planning, Reviewing Environmental Safeguard documents (IEE/EIA, EMP etc.) and Social Safeguard Documents (LARF, LARP, etc. ) feasibility studies, and monitoring WASH sub-projects.
- Help Identify Potential sites for land fill sites and waste water treatment plants.
- Arrange consultative workshops with TMAs to identify future WASH sub-project.
- Review progress Urban Services Corporation(s) against business and capital investment plans.
- Coordinate with regulatory authorities for the smooth SCIP implementation.
- Other tasks in municipal planning and development.
- Assists mapping of municipal services infrastructure
- Help develop integrated management information system for municipal services.

<b>Name of project:</b>	<b>Monitoring and Technical/Environmental &amp; Social supervision of Construction work of USAID small grant project (NRSP-SGAFP)</b>
<b>Year:</b>	2014 to 2015
<b>Location:</b>	Sindh Pakistan
<b>Client:</b>	International Union for Conservation of Nature and Natural Resources (IUCN)
<b>Main project features:</b>	The aim of this project is to promote integrated coastal management while addressing the factors that contribute to livelihood vulnerability by imparting environmental education in schools, conserving coastal biodiversity resources, promoting eco-tourism and building capacity in coastal communities
<b>Position held</b>	<b>Environmental Consultant</b>

**Activities performed:**

- Provide technical support in identification of construction site.
- Carry out environmental and social assessment of the site.
- Support in preparation of tender and bidding documents as per standard engineering practices.
- Assist IUCN in the tendering process.
- Be part of the review committee in selection of the potential contractor/construction company.
- Top supervision and regular monitoring of all construction work(watch tower in the mangrove, walk way, 2 wooden canopy picnic shades, hut/tourist information Centre, small landing jetty and landscaping around the information Centre) as per the design, drawings and specifications approved by USAID.
- Conduct regular visits to the construction site during the project execution/construction period and highlight any shortcomings or construction related issues and provide constant guidance to the contractor firm for their rectification if necessary.



<b>Name of project:</b>	<b>A USAID funded project; Construction of Center of Advance Studies-Water at Mehran University, Jamshoro</b>
<b>Year:</b>	2014 to 2015
<b>Location:</b>	Sindh Province, Sindh Province Pakistan
<b>Client:</b>	HEC
<b>Main project features:</b>	Preliminary Site aasement of the construction of center of advance studies- water at MUET, environmental and social asesment and preparation of Environmental and Social review report
<b>Position held</b>	<b>Environmental Engineer</b>
<b>Activities performed:</b>	
Carried out the assessment of information as required for environmental and social monitoring, inspection of the project site where Center of Advance Studies-Water will be built and the project area of MUET and the preparation of Environmental and Social Review Report.	
<b>Name of project:</b>	<b>A World Bank funded project; Tertiary Education Support Program</b>
<b>Year:</b>	2013 to 2014
<b>Location:</b>	Balochistan Province, Sindh Province Pakistan
<b>Client:</b>	HEC
<b>Main project features:</b>	Vettiing of ESMP of Construction of Student Hostel and Residential Area at Balochistan University of Information Technology and Management Sciences and Dow University of Health & Sciences (OJHA Campus), Karachi
<b>Position held</b>	<b>Environmental Engineer</b>
<b>Name of project:</b>	<b>A World Bank funded project; Tertiary Education Support Program</b>
<b>Year:</b>	<b>2013 to 2014</b>
<b>Location:</b>	<b>Balochistan Province, Sindh Province Pakistan</b>
<b>Client:</b>	<b>HEC</b>
<b>Main project features:</b>	<b>Vettiing of ESMP of Construction of Student Hostel and Residential Area at Balochistan University of Information Technology and Management Sciences and Dow University of Health &amp; Sciences (OJHA Campus), Karachi</b>
<b>Position held</b>	<b>Environmental Engineer</b>
<b>Name of project:</b>	<b>An ADB funded US \$400 Million project; 'Sindh Cities Improvement Program</b>
<b>Year:</b>	<b>2012 till to2013</b>
<b>Location:</b>	<ul style="list-style-type: none"> <li>• Northern Sindh, Pakistan</li> <li>• Central Sindh, Pakistan</li> </ul>
<b>Client:</b>	<b>Govt of Sindh</b>
<b>Main project features:</b>	<ul style="list-style-type: none"> <li>• Urban Planning on Institutional Development, and Program Implementation Support</li> <li>• Water Supply and Wastewater Management Improvements &amp; Solid Waste Management</li> </ul>
<b>Position held</b>	<b>Engineering Executive/ Acting Municipal Services Specialist</b>
<b>Activities performed:</b>	





- Liaison with Consultants to carry out various studies (WSS Master Plans development, Feasibility Studies, Engineering design reports, Environmental and Social Safeguard documents; RAP, LARF, LARP etc.) for all towns of Northern and Central Cluster Sindh.
- Coordinate with Central Cluster TMAs and Public Health Engineering Department for the acquisition of Water Supply, Wastewater Management, Solid Waste Management data and existing service maps.
- Reviewing Initial Environmental Examination and Social Safeguard report (LARF, LARP for various sub projects
- Area Assessment for Water Treatment Plant (WTP) and Wastewater Treatment Plant (WWTP) for all the cities of Northern and Central Cluster Sindh
- Coordinate with Central Cluster TMAs and Public Health Engineering Department for the acquisition of Water Supply, Wastewater Management, Solid Waste Management data and existing service maps.



## **Names of Few Town Houses, Health Centres, Resorts and Commercial Schemes** (consulted by IEMA ENGINEERING):

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➤ Sohni resorts, Karachi	(Year 1998)	(58 acres)
➤ Education department, Iraq	(Year 2001)	(30 acres)
➤ Cecil Hotel , Murree	(Year 2002)	(42 acres)
➤ Pakistan Air Force golf club, Karachi	(Year 2002)	(140 acres)
➤ New world city, Gawadar (Submission)	(Year 2003)	(500 acres)
➤ Muscat Centre, Gawadar	(Year 2004)	(30 acres)
➤ Bell-Air Luxury Resorts, Super Highway	(Year 2005)	(40 acres)
➤ Export Processing Zone for Fruits and Vegetable market , Super Highway	(Year 2005)	(170 acres)
➤ Qadri Welfare Trust, Karachi	(Year 2005)	(05 acres)
➤ Pakistan Naval Academy, Manora	(Year 2006)	(38 acres)
➤ Country Garrison Golf Club, Malir	(Year 2006)	(180 acres)
➤ Green acres, Gharo Sindh	(Year 2007)	(200 acres)
➤ Shahzada Farm House , Gharo Sindh	(Year 2007)	(110 acres)
➤ Super Farm House	(Year 2007)	(40 acres)
➤ Acacia Golf Club (Co-ordination)	(Year 2007)	(190 acres)
➤ Gambat Institute of Medical Sciences	(Year 2007)	(40 acres)
➤ Saadi Town (Redesigning of Water Supply & maintenance of sewerage lines)	(Year 2007)	(300 acres)
➤ New Town, Gwader	(Year 2008)	(1976 acres)
➤ PHA Mono Goth	(Year 2008)	(05 acres)
➤ PHA Kemari Town	(Year 2008)	(18 acres)
➤ VIP Housing Society	(Year 2008)	(140 acres)
➤ Asfahan Town (Proposal)	(Year 2008)	(30 acres)
➤ Singhar Housing Scheme	(Year 2009)	(3000 acres)
➤ Noman Royal Villas	(Year 2010)	(30 acres)
➤ Noman Royal City (64 acres)	(Year 2010)	



➤ Mehran Garden	(Year 2010)	(31 acres)
➤ Abdullah Heaven	(Year 2010)	(9 acres)
➤ DHQ Hospital Complex, Khairpur	(Year 2012)	(18 acres)
➤ DHQ Hospital Complex, Dadu	(Year 2013)	(15 acres)
➤ DHQ Hospital Complex, Mirpurkhas	(Year 2013)	(14 acres)
➤ DHQ Hospital Complex, Badin	(Year 2013)	(34.5 acres)
➤ DHQ Hospital Complex, Shikarpur	(Year 2013)	(13 acres)
➤ DHQ Hospital Complex, Mithi	(Year 2013)	(07 acres)
➤ DHQ Hospital Complex, Jacobabad	(Year 2013)	(20 acres)
➤ DHQ Hospital Complex, Thatta	(Year 2013)	(27 acres)
➤ DHQ Hospital Complex, Ghotki	(Year 2013)	(15 acres)
➤ DHQ Hospital Complex, Nowsheroferoz	(Year 2013)	(08 acres)
➤ DHQ Hospital Complex, Sanghar	(Year 2013)	(29 acres)
➤ Mirpurkhas Charity Hospital (G+2)	(Year 2013)	
➤ Bhambhore dairy village & processing (Waste Water Treatment Plant)	(Year 2013)	(1300 acres)
➤ King Cottages, University Road Karachi	(Year 2013)	(6.5 acres)
➤ Gulshan-e-Ellahi on Survey no. 2, 3, 4, 5, 10, 11, 12 & N.C. NO. 1, DEH Thoming, Tappo Songal, Dist. Karachi	(Year 2013)	(257 acres)
➤ Sohail Memon Heaven, Karachi	(Year 2013)	(19 acres)
➤ Hub Choki Housing Near	(Year 2014)	(78acres)
➤ Gadani Ship Breaking and Recycling Industries	(Year 2014)	(500acres)
➤ Gwader Industrial Estate Development Authority	(Year 2015)	(1000acres)
➤ Gwader Export Processing Zone	(Year 2015)	(500acres)
➤ Badin Housing scheme (18acres)	(Year 2015)	



- **Fazaia Housing Scheme Site-1** (In Process)
- **Pakistan Chowk** (In Process)
- **Bin Qasim Industrial Park** (Year 2019)
- **Effluent treatment plant for Uniliver Karachi** (Year 2019)
- **Effluent treatment plant for Uniliver Karachi** (Year 2019)
- **Aligarh M.U.O.B.C.H.S.** (In Hand)
- **Gandhara E.C.H.S.** (In Hand)



## **Names of Few High Rise Buildings**

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(Consulted by IEMA ENGINEERING):

- **Universal Complex, Quetta** (Year 1995)
- **Anum Empire** (Year 1996)
- **Glass Tower** (Year 1999)
- **Mateen Shopping Galaxy** (Year 2000)
- **Arcadia Shopping Mall** (Year 2000)
- **Urban Paradise, F.B. Area** (Year 2001)
- **Hyderi Shopping Galeria** (Year 2001)
- **Karachi International Container Terminal** (Year 2002)
- **Samama Shopping Centre, Karachi** (Year 2002)
- **Anum Trade Centre** (Year 2002)
- **City Centre, Rawalpindi** (Year 2002)
- **Jinnah Complex, M.A. Jinnah Road** (Year 2002)
- **Mateen Centre, Tariq Road** (Year 2002)
- **Mid Town (Design Only)** (Year 2003)
- **Ghaziani Shopping Mall , Off M.A. Jinnah Road** (Year 2003)
- **Al Mustafa Valley Apatmets , Islamabad** (Year 2004)
- **Sun City, Khalid Bin Walid Road** (Year 2006)
- **Arif Luxria, University Road** (Year 2006)
- **White Palace, Khalid bin Walid Road** (Year 2006)
- **Elite Shopping Mall, Gulshan-e-Iqbal** (Year 2006)
- **Defence Regency, Shaheed-e-Millat Express Way** (Year 2006)  
(20 storied)
- **BRR , Saddar I.I Chundrigar road Karachi** (Year 2007)  
(20 storied Head Office)



<b>Centaur Hotel, Lahore (37 storied, joint Venture)</b>	<b>(Year 2007)</b>
➤ <b>Sum Sum Towers, Gulshan-e-Maymar Karachi</b>	<b>(Year 2007)</b>
➤ <b>Mateen Heaven, North Karachi</b>	<b>(Year 2007)</b>
➤ <b>Jofa Tower , Main University Road Karachi</b>	<b>(Year 2007)</b>
➤ <b>Arabian Ranches, Sukker</b>	<b>(Year 2007)</b>
➤ <b>Bridge View, Sukker</b>	<b>(Year 2007)</b>
➤ <b>Jumerah Shopping Mall, Main Tariq Road Karachi</b>	<b>(Year 2007)</b>
➤ <b>Creek View, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Creek Terraces, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Al Habib Tower</b>	
➤ <b>Diamond Residency, Off Shaheed-e-Millat Express Way Karachi</b>	<b>(Year 2008)</b>
➤ <b>Falak Heaven, Hyderabad</b>	<b>(Year 2008)</b>
➤ <b>Mehran River View, Hyderabad</b>	<b>(Year 2008)</b>
➤ <b>Rupali Twin Towers, Gulshan-e-Maymar Karachi</b>	<b>(Year 2008)</b>
➤ <b>Sohera Towers, Gulshan-e-Maymar Karachi</b>	<b>(Year 2008)</b>
➤ <b>Hussain Tower, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Alfa Towers, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Mustafa Towers, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Elite Comforts, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Fatima Ali Towers, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Samama Shopping Mall and Arena, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Corporate City, Karachi (20 storied Office Building)</b>	<b>(Year 2008)</b>
➤ <b>Shaes Residency, Karachi</b>	<b>(Year 2008)</b>
➤ <b>Rainbow Twin Towers, Karachi</b>	<b>(Year 2008)</b>



- **Hyderi Tower, Karachi** (Year 2008)
- **Rabia Enclave, Karachi** (Year 2008)
- **Sanober Twin Towers, Karachi** (Year 2008)
- **Palm Residency I, Karachi** (Year 2008)
- **Palm Residency II, Karachi** (Year 2009)
- **Noman Residencia, Karachi  
(18 storied Office Building)** (Year 2009)
- **Epla Office Building, Karachi** (Year 2009)
- **Glamour Tower, Karachi** (Year 2009)
- **Hayat-ul-Islam , Karachi** (Year 2009)
- **Alfa North View, Karachi** (Year 2009)
- **City center, Larkana** (Year 2009)
- **Tulip Towers, Karachi** (Year 2009)
- **Sohni Serenity Apartment, Karachi** (Year 2009)
- **Al Haseeb Tower, Karachi** (Year 2009)
- **Abdullah Palace, Hyderabad** (Year 2009)
- **Abdullah Arcade, Hyderabad** (Year 2009)
- **Abdullah Terrace, Hyderabad  
(Testing)** (Year 2009)
- **Abdullah Pride, Hyderabad  
(Testing)** (Year 2009)
- **Abdullah Corner, Hyderabad  
(Testing)** (Year 2009)
- **Jasarat House Head Office, Karachi** (Year 2009)
- **Dildar Residency, Karachi** (Year 2010)
- **Fortune Residency, Islamabad** (Year 2010)
- **Gilani Tower, Karachi** (Year 2010)



- **Lubaba Residency, Karachi** (Year 2010)
- **Indus Ranches, Hyderabad** (Year 2011)
- **Royal Residency, Karachi** (Year 2011)
- **Plot A-8, Latifabad Hyderabad** (Year 2013)
- **Shifa Heaven, Hyderabad** (Year 2013)
- **Burj View, North Nazimabad** (Year 2013)
- **Rufi Shopping Mall** (Year 2013)  
(Storm Water Designing)
- **H-Square Office Building, Karachi** (Year 2013)
- **Plot # 09, Block No.3, Overseas C.H.S.LTD, Karachi** (Year 2013)
- **Defence Tower, Islamabad** (Year 2013)  
(21 storied)
- **Silver Sand, Clifton Karachi** (Year 2013)
- **Gold Tower, Saddar Karachi** (Year 2013)
- **Fatima Tower, Hyderabad** (Year 2013)
- **Kings Tower, Gulistan-e-Jauhar Karachi** (Year 2013)
- **Shangrila, Shaheed-e-Millat Karachi** (Year 2013)
- **Gold Line Destiny, North Karachi** (Year 2013)
- **Pioneer Tower, Karachi** (Year 2013)
- **Bridge City, Sukkur** (Year 2013)
- **Rainbow Classic** (Year 2014)
- **Serai Quarter, Karachi** (Year 2014)
- **Gold Front , Main Rashid Minhas Road Karachi** (Year 2014)
- **Shanzil Golf Residency** (Year 2014)
- **Zam Zam Heights** (Year 2014)
- **Haiqa tower** (Year 2014)





- **White City Mall, Hyderabad** (Year 2014)
- **Gold Sapphire, Karachi** (Year 2014)
- **Cant View, Malir** (Year 2014)
- **Defence Resd, DHA Islamabad block – 14** (Year 2014)
- **Chapal Courtyard, Safoora goth** (Year 2014)
- **King Classic, Gulistan –e-Jauhar** (Year 2014)
- **Gold Line Residency, Gulistan –e- Jauhar** (Year 2014)
- **Spring Comforts, Islamabad** (Year 2014)
- **Metro Shopping Mall,Hyderabad** (Year 2015)
- **Dolphin Tower,Sukkur** (Year 2015)
- **Al-Rehman Residency , Karachi** (Year 2015)
- **Emaan Blessing, Karachi** (Year 2015)
- **shopping Mall Saddar, Karachi** (Year 2015)
- **Waseem Plaza, Rawalpindi** (Year 2015)
- **Faheem Nazimabad(B+GF+1<sup>ST</sup> TO 9<sup>TH</sup> floor)** (Year 2015)
- **Dr. Talaha sukkur** (Year 2015)
- **King's presidency ,Karachi** (Year 2015)
- **Patel Industrial Estate** (Year 2015)
- **Mr Haneef (Park view)** (Year 2015)
- **Hotel apt Islamabad** (Year 2015)
- **Maternity ward security & partners** (Year 2015)
- **Aziz tower** (Year 2015)
- **Commander height(commander zakir)** (Year 2015)
- **Callet** (Year 2015)
- **Samama plot N 20 Islamabad** (Year 2015)



- **Burjul Imran** (Year 2016)
- **Meridian, Hyd** (Year 2016)
- **Saaf pani** (Year 2016)
- **Gold line Defense tower** (Year 2016)
- **Pinstech complex** (Year 2016)
- **Mr Akther(DSP)** (Year 2016)
- **Rayyan Residency Islamabad** (Year 2016)
- **Hafiz Saeed Bung (DHA) B+G+1(100sq yds plot)** (Year 2016)
- **Hotel apt Islamabad** (Year 2016)
- **Aziz tower (plot #sb34** (Year 2016)
- **Commander height(commander Zakir)** (Year 2016)
- **Samama plot no 20 Islamabad** (Year 2016)
- **Burjul Imran(plot commercial B/2 Sector 40** (Year 2016)
- **Plot no C14 Block -17 Scheme #16 FB area** (Year 2016)
- **Kamran Tesori (javeed Qureshi)** (Year 2016)
- **Plot no B/1.KCHS Union Block 3 (Ali Albari)** (Year 2016)
- **Shopping Mall (Lahore)** (Year 2016)
- **Metro Twin Tower** (Year 2016)
- **Akbar Arcade** (Year 2016)
- **Plot no 48c 5650** (Year 2016)
- **Imperial Residency** (Year 2016)
- **Defence Block 20 Islamabad** (Year 2016)
- **Custom Residency at Karsaz** (Year 2016)
- **Park Vista, Bahria Town, Karachi** (Year 2018)
- **Batool Hospital** (Year 2018)



- **Fasahat shopping mall Islamabad** (Year 2018)
- **Rabi Gold Hyderabad** (Year 2018)
- **Biztek University** (Year 2018)
- **Murtaza's Haseen Grand Villa** (Year 2018)
- **Centrium Mall Islamabad** (Year 2018)
- **Lotus Lake Towers** (Year 2019)
- **Sidra Twin Tower** (Year 2019)
- **Sidra Capital** (Year 2019)
- **Gold Line Royal Apartment** (Year 2019)
- **Sois Life Sciences Pharmacy** (Year 2019)
- **OPAL 225**



## **Few Well-Known Projects**

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(Consulted by IEMA ENGINEERING):

- **Karachi University (Mass Communication & HEJ Dept.)** (Year 1998)
- **Creek Club (Carlton Hotel)** (Year 1998)
- **NADRA Office** (Year 1999)
- **N.H.A (Head Office) (Drig Road Karachi, Quetta)** (Year 2002)
- **P.A.F Club/School** (Year 2003)
- **Dewan Motors** (Year 2005)
- **Lucky Cement Factory(Laboratory)** (Year 2005)
- **Tapal Tea Factories (Karachi, Hyderabad, Multan etc.)** (Year 2006)
- **Mazar-e-Quaid-e-Azam (Audio Visual Room)** (Year 2006)
- **Bungalow of Artist Moin Akhtar** (Year 2006)
- **I. T. Tower (Karachi) (45 storied As a MEP Adviser)** (Year 2007)
- **Bungalow of Aqeel Karim Dhedi** (Year 2007)
- **Dow University of Health and Sciences** (Year 2008)
- **Personnel Barrack American Embassy (Quetta)** (Year 2008)
- **SUPARCO (Extended Buildings & Power House)** (Year 2008)
- **Fatmid Foundation** (Year 2008)
- **New Islamabad Airport (Vetting of MEP Dwgs.)** (Year 2008)
- **Civil Aviation Authority (Control Room)** (Year 2009)
- **Pakistan Security Printing Corporation** (Year 2009)
- **Balochistan University Of Information Technology, Engineering & Management Sciences** (Year 2009)
- **NEW Compound for American Consulate (Waste Water & Irrigation Treatment)** (Year 2009)
- **Canyon View Shopping Complex, Islamabad Emaar** (Year 2009)



- **KAPCO (Kot Addu Power Company Limited)  
(Power Distribution Panels)** (Year 2010)
- **MCB Branches(Mehran, Hyderi, Kandiyari)  
Call Centre & Warehouse** (Year 2011)
- **Mock Airport Training Centre, Islamabad** (Year 2011)
- **Bungalow of SSP CID Chaudry M. Aslam  
(Retendering)** (Year 2011)
- **Auditorium Khursheed Memorial Hall, Azizabad** (Year 2011)
- **NICVD (ICU) & Kitchen** (Year 2011)
- **First Women Bank, Clifton Branch** (Year 2012)
- **First Women Bank, Training Center** (Year 2012)
- **MCB Shershah Branch** (Year 2012)
- **Health And Nutrition Development Society (HANDS)  
Office Buildings, Hala, Hyderabad, Mirpurkhas,  
Badin, Umer Kot, Sanghar)** (Year 2013)
- **Rangers Training Centre, Karachi  
20 kw Solar Power System for Special Children School** (Year 2013)
- **Emaar's DHA Islamabad limited  
La Paraiso at Canyon Views Development** (Year 2013)
- **MK Textiles Factory** (Year 2013)
- **Guru Mangal Ashram,Taluka Thana Bula Khan,  
District Jamshor Provision of 50 KVA Solar Power Grid** (Year 2013)
- **Emaar's Canyon Heights, Islamabad** (Year 2013)
- **New Town Housing Project, Gawadar** (Year 2013)
- **Hospital Plot SD – 09, Nazimabad** (Year 2014)
- **Cardiac Hospital, Tando M.Khan** (Year 2014)
- **NTDC, Jamshoro** (Year 2014)
- **Indus Medical Collage hospital, Tando M Khan** (Year 2014)
- **Girls Hostel Gambat** (Year 2014)



- **Sanger Guest House** (Year 2014)
- **Rawal Villa, interior sindh** (Year 2014)
- **Chase-Up ,Clifton** (Year 2015)
- **Al Khidmat's Islamic Center Aghosh** (Year 2015)
- **Captain shehriyar Bungalow** (Year 2015)
- **Ameen Ulla Bungalow** (Year 2015)
- **Ameen Bungalow** (Year 2015)
- **Anwer mateen (Bungalow 1000 sqyd)** (Year 2015)
- **China Power Hub Generation company(C.P.H.G.C)** (Year 2017)
- **Hub Industrial Area (2.7 Acre )** (Year 2017)
- **Mall One Hyderabad** (Year 2017)
- **Bank AL HABIB Latifabad** (Year 2017)
- **Office of DC Secretariat, Gwadar** (Year 2018)
- **Office of Greenstar, Ocean Mall** (Year 2018)
- **Empress Market Saddar** (Year 2016)
- **Naval Housing Society, Mauripur** (Year 2019)
- **KIA Showroom** (Year 2019)
- **Pakistan Naval Welfare Housing Society, Bin Qasim** (Year 2020)
- **Rehabilitation of PIA, PTC, Karachi** (Year 2020)



## **Few Miscellaneous Projects**

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(Consulted by IEMA ENGINEERING):

- **Millennium Shopping Mall** (Year 2001)  
(Sewerage & Septic Tanks only)
- **Pakistan Welfare Association** (Year 2008)
- **Allied Medical Supplies** (Year 2008)
- **Karachi Play House, Karachi** (Year 2009)
- **Army public school, Malir cant** (Year 2009)
- **Mall Square, Karachi** (Year 2010)
- **Agriauto Industries Ltd, Hub-Balochistan** (Year 2011)
- **Kharadar General Hospital** (Year 2012)
- **Sigma Pharmacy International (Pvt) Ltd** (Year 2012)
- **Sindh Industrial Trading Estate Ltd. Nooriabad** (Year 2012)
- **Bungalow on Plot C-05 Navy Housing Scheme, Karachi** (Year 2012)
- **Dinners Ocean, Ocean Tower, Karachi** (Year 2012)
- **Gelato Affair, Ocean Tower, Karachi** (Year 2012)
- **Time Zone, Ocean Tower, Karachi** (Year 2012)
- **Perfume Gallery, Ocean Tower, Karachi** (Year 2012)
- **Ego, Ocean Tower, Karachi** (Year 2012)
- **Krude, Ocean Tower, Karachi** (Year 2012)
- **Warehouse # W3/13 North Western Industrial Zone, Port Qasim Authority, Karachi** (Year 2013)
- **Proposal for Office Blocks in Balochistan 3 kw & 4 kw Solar Power Electric Panel** (Year 2013)
- **Proposal for Nooriabad NGO 1 kw & 3 kw Solar Power Electric Panel** (Year 2013)
- **NICVD AC Plant** (Year 2014)



- **Thana Bulla Khan (solar Panel)** (In Hand)
- **Plot No.64 & 90, Jamshed road Karachi** (In Hand)
- **Agriauto Warehouse** (Year 2015)
- **Rafay Laboratory** (Year 2015)
- **Rainbow Sweet Homes, Karachi** (Year 2016)
- **Ocean Tower** (Year 2016)
- **Patel Hospital** (In Hand)





# Environmental and Social Studies Projects

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## 1. Environmental Impact Assessment (EIA) of Provision of Incinerators (Procurement, Installation, Commissioning & Operations) In Different Hospitals of Sindh, 2019; (In Association with Lead Consultant PPI, Islamabad)



Conducted EIA Study of the installation of eight 100 kg/hr incinerators at eight different hospitals of Sindh namely:

- a. Jinnah Postgraduate Medical Centre (JPMC), Karachi
- b. Dr Ruth Pfau Civil Hospital Karachi
- c. Sindh Government Lyari General Hospital Karachi
- d. National Institute of Child Health (NICH) Karachi
- e. Liaquat University Hospital Jamshoro,
- f. Ghulam Muhammad Mahar Medical College Hospital Sukkur,
- g. Chandka Medical College Hospital Larkana,
- h. People Medical College Hospital Shaheed Benazirabad.

## 2. Sindh Municipal Finance Assessment Study Project, 2018. (In Association with Lead Consultant ANA, Karachi)



- a. Services included but not limited to:
- b. To Study and analysis of Present and Potential capacity of the existing infrastructure of 30 Municipal Committees and resources of the Municipalities of Sindh,
- c. Examine and identify major constraints that could influence the overall performance of the Municipalities in the provision of Service Delivery,
- d. Analysis of performance of Municipalities in the provision of Service Delivery,
- e. Carrying out detailed SWOT Analysis of Water & Sanitation Infrastructure  
Existing Situation Analysis of TMA's MC's,
- f. Cost Estimation for improvement works on Water Supply, Wastewater and SWM,
- g. Tariff Assessment and future recommendations



**3. Monitoring and Technical, Environmental & Social supervision of Construction work of USAID small grant project (NRSP- SGAFP), IUCN ,2017**



The aim of this project is to promote integrated coastal management while addressing the factors that contribute to livelihood vulnerability by imparting environmental education in schools, conserving coastal biodiversity resources, promoting eco-tourism and building capacity in coastal communities. Service included but not limited to:

- a. Provide technical support in identification of construction site.
- b. Carry out environmental and social assessment of the site.
- c. Support in preparation of tender and bidding documents as per standard engineering practices.
- d. Assist IUCN in the tendering process.
- e. Be part of the review committee in selection of the potential contractor/construction company.
- f. Top supervision and regular monitoring of all construction work(watch tower in the mangrove, walk way, 2 wooden canopy picnic shades, hut/tourist information Centre, small landing jetty and landscaping around the information Centre) as per the design, drawings and specifications approved by USAID.
- g. Conduct regular visits to the construction site during the project execution/construction period and highlight any shortcomings or construction related issues and provide constant guidance to the contractor firm for their rectification if necessary.

**4. Planning & Designing of Wastewater Treatment Plant for Mazar e Quaid, 2018 (In Association with Lead Consultant ANA, Karachi)**



Preparation of PC-1 for the works including Influent, Main STP, Effluent, clear water tanks including planning, designing, site assessment and preparation of BoQs and Engineering Estimate based on PAK PWD Schedule of rates.

**5. Behaviour Based Safety Project for a Multinational firm, 2018 (In Association with Lead Consultant Dr. Mirza Munir, Musqat)**



6. A World Bank funded project; Construction of Student Hostel and Residential Area at Balochistan University of Information Technology and Management

**Sciences, 2015** (In Association with Lead Consultant PPI, Islamabad)



- a. External validation of Environmental and social management plan (ESMP) under Tertiary Education Support Program (TESP),
- b. Carried out detailed assessment of the overall implementation status of Environmental and social management plan (ESMP) under Tertiary Education Support Program (TESP) of HEC by analyzing the Checklist/Monitoring Proformas submitted by the universities/HEIs and through field visits of the construction works.

7. **A World Bank funded project; Construction works at Dow University of Health & Sciences, 2015**

**(OJHA Campus)** (In Association with Lead Consultant PPI, Islamabad)



- a. External validation of Environmental and social management plan (ESMP) under Tertiary Education Support Program (TESP),
- b. Carried out detailed assessment of the overall implementation status of Environmental and social management plan (ESMP) under Tertiary Education Support Program (TESP) of HEC by analyzing the Checklist/Monitoring Proformas submitted by the universities/HEIs and through field visits of the construction works.

8. A USAID funded project; Preparation of Environmental and Social Review Report for Center of Construction of Advance Studies-Water at Mehran University,

**Jamshoro, 2014.** (In Association with Lead Consultant PPI, Islamabad)



- a. Preliminary Site assessment of the construction of center of advance studies- water at MUET, environmental and social assessment and preparation of Environmental and Social review report



## Our Technical Team

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<b>NAME</b>	<b>DESIGNATION</b>
➤ <b>SAFDER HUSSAIN MOVER</b>	<b>CHEIF EXECUTIVE OFFICER</b> PE, FIEEE, FPAP, IEP, MASPE-USA
➤ <b>UMER HUSSAIN MOVER</b>	<b>DESIGN MANAGER</b> B.E Energy Engineering M.Sc. N. Energy and Technologies Fire Fighting (Mem, FPAP, IEEE)
➤ <b>ATHER HUSSAIN MOVER</b>	<b>WATER &amp; WASTE WATER SPECIALIST</b> B.E Civil PGD (Water & Waste Water) PGD (SWM) M.E Environmental Engineering
➤ <b>ZAFAR KHANZADA</b>	<b>CIVIL PROJECT INCHARGE</b>
➤ <b>SABIHA ANSARI</b>	<b>SENIOR ARCHITECT</b> B.ARCH
➤ <b>SANA AKRAM</b>	<b>SENIOR OFFICE CO-ORDINATOR</b> Associate Engineer
➤ <b>FAIZAN ALI</b>	<b>MEP CO-ORDINATOR</b> B.S Electrical
➤ <b>SHEHBAZ TARIQ</b>	<b>SENIOR DESIGN ENGINEER</b> B.E Electrical Engineer, M.E Project Management
➤ <b>FASIH AHMED</b>	<b>JR. DESIGN ENGINEER</b> B.S Electronic Engineer
➤ <b>MUHAMMAD ABDUL REHMAN</b>	<b>ELECTRICAL DESIGN ENGINEER</b> B.E Electrical Engineer M.S Electronics Engineer
➤ <b>SAJIDA QAYYUM</b>	<b>MECHENICAL DESIGN ENGINEER</b> B.E Mechanical
➤ <b>MUHAMMAD KASHIF</b>	<b>HVAC ENGINEER</b>



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# **PORTFOLIO**

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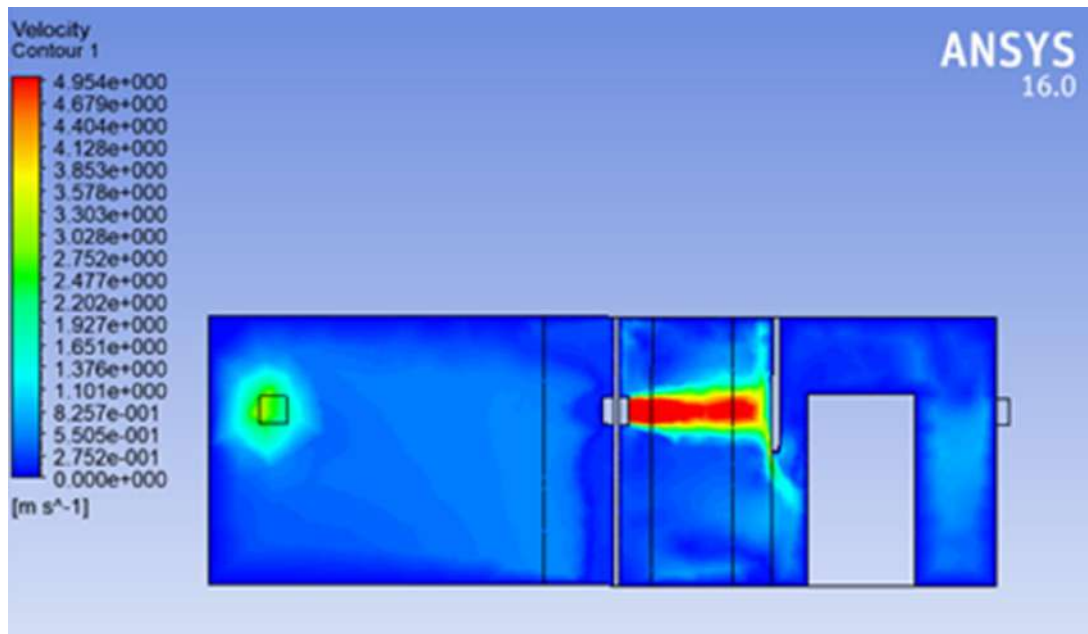
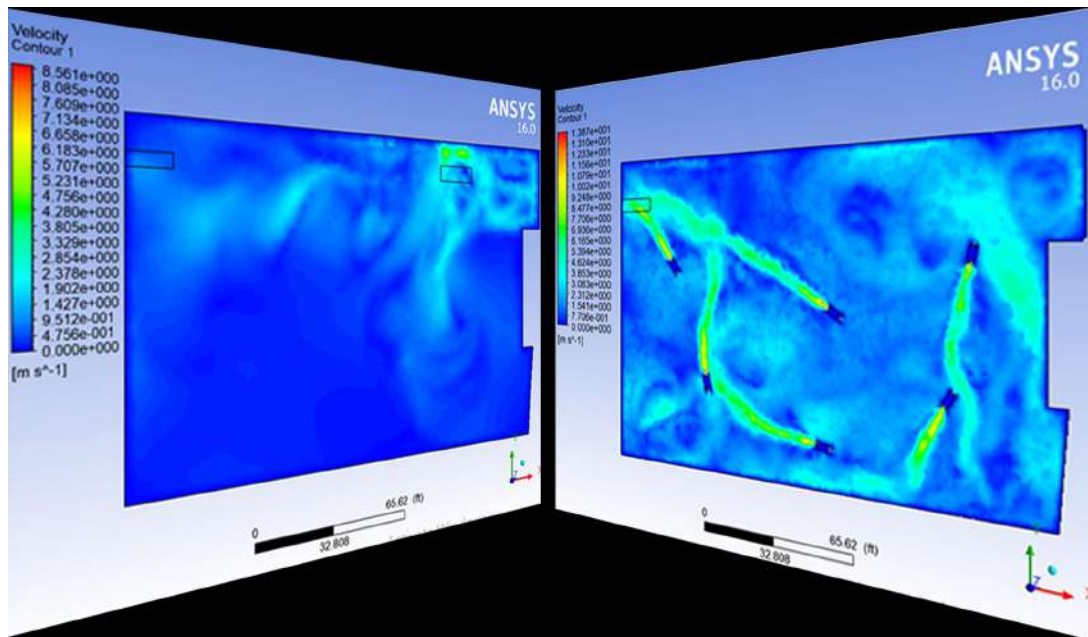
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# SIMULATIONS

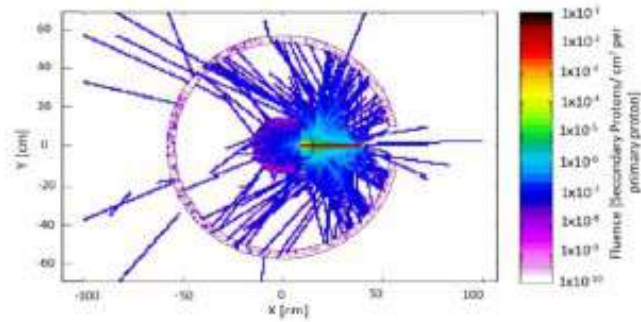
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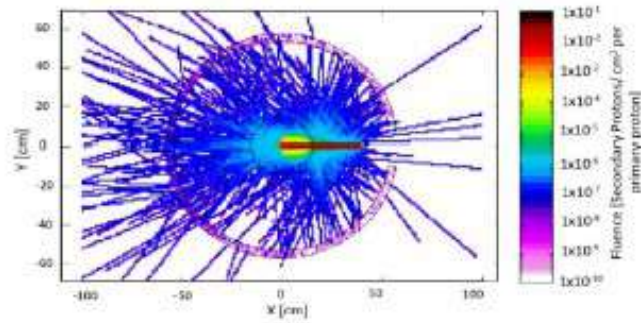
## Computational Fluid Dynamics:



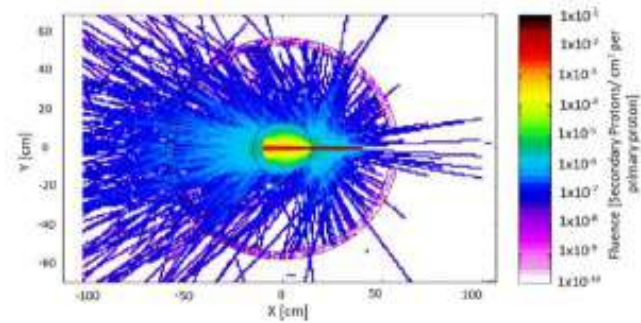
## FLUKA Simulations:



(a) Spatial distribution of the secondary proton fluence with 90 MeV primary proton



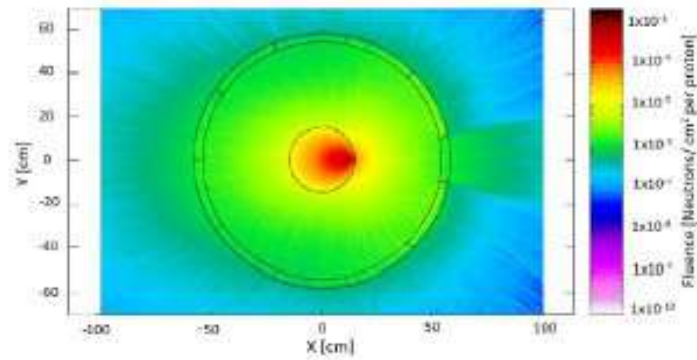
(b) Spatial distribution of the secondary proton fluence with 160 MeV primary proton



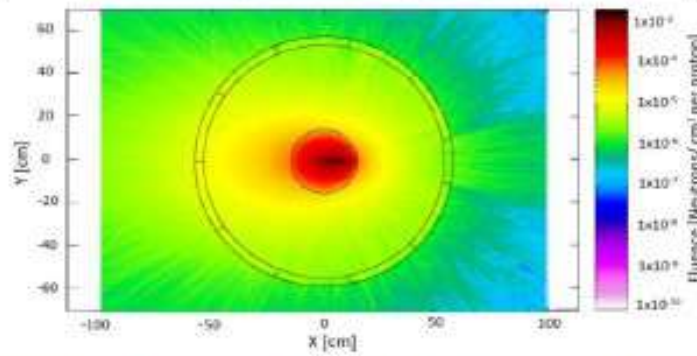
(c) Spatial distribution of the secondary proton fluence with 210 MeV primary proton



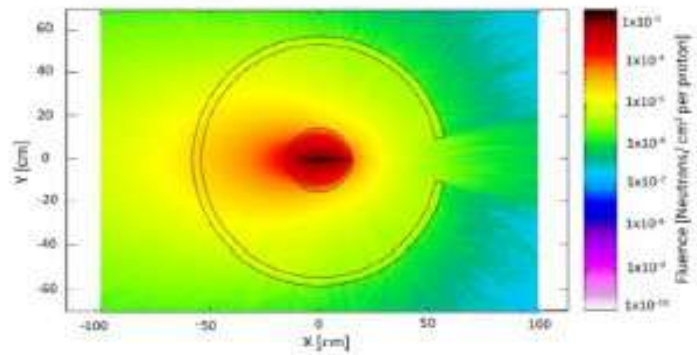




*(a) Spatial distribution of the neutron fluence with 90 MeV proton*

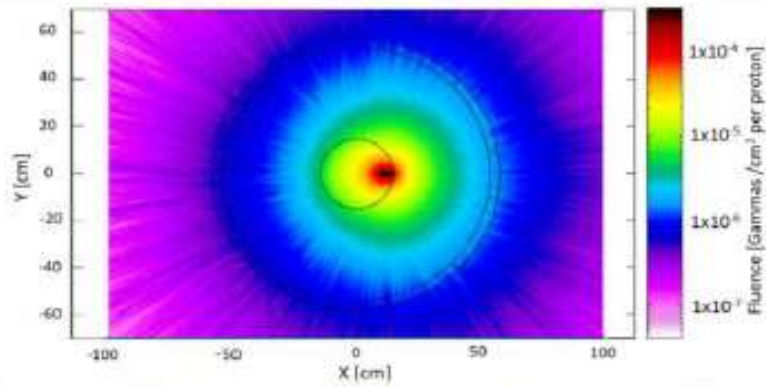


*(b) Spatial distribution of the neutron fluence with 160 MeV proton*

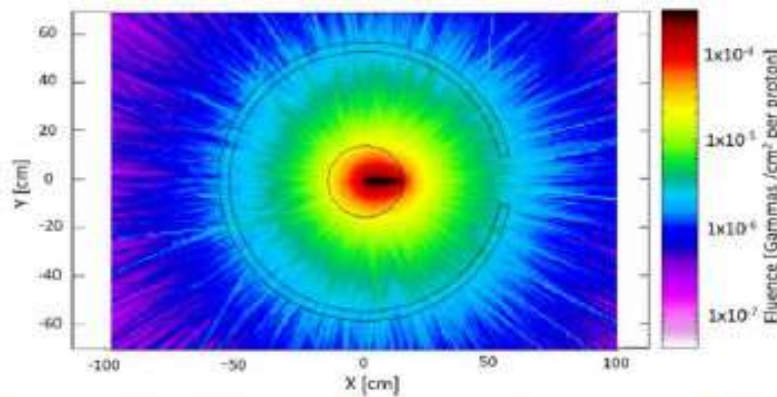


*(c) Spatial distribution of the neutron fluence with 210 MeV proton*

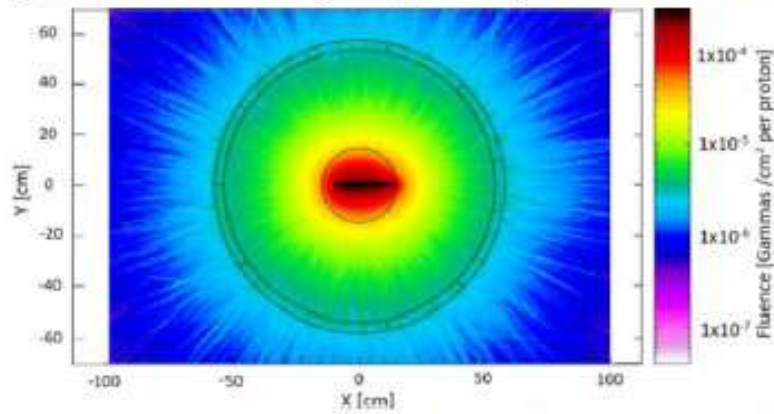




(a) Spatial distribution of the photon fluence with 90 MeV proton

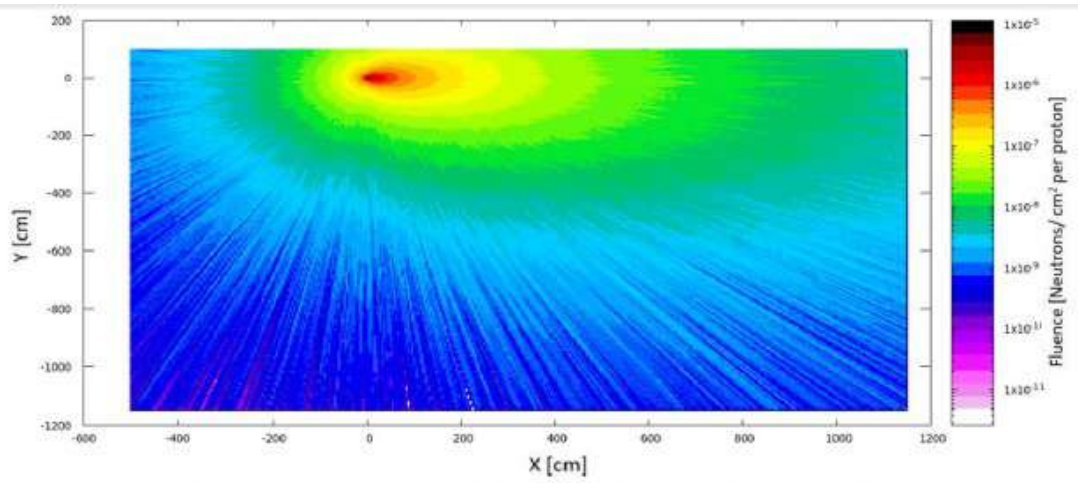


(b) Spatial distribution of the photon fluence with 160 MeV proton

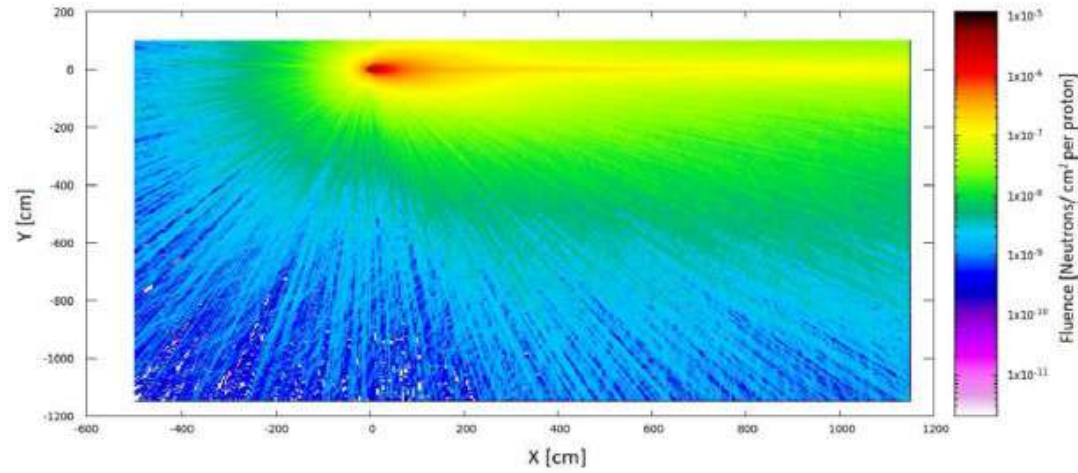


(c) Spatial distribution of the photon fluence with 210 MeV proton



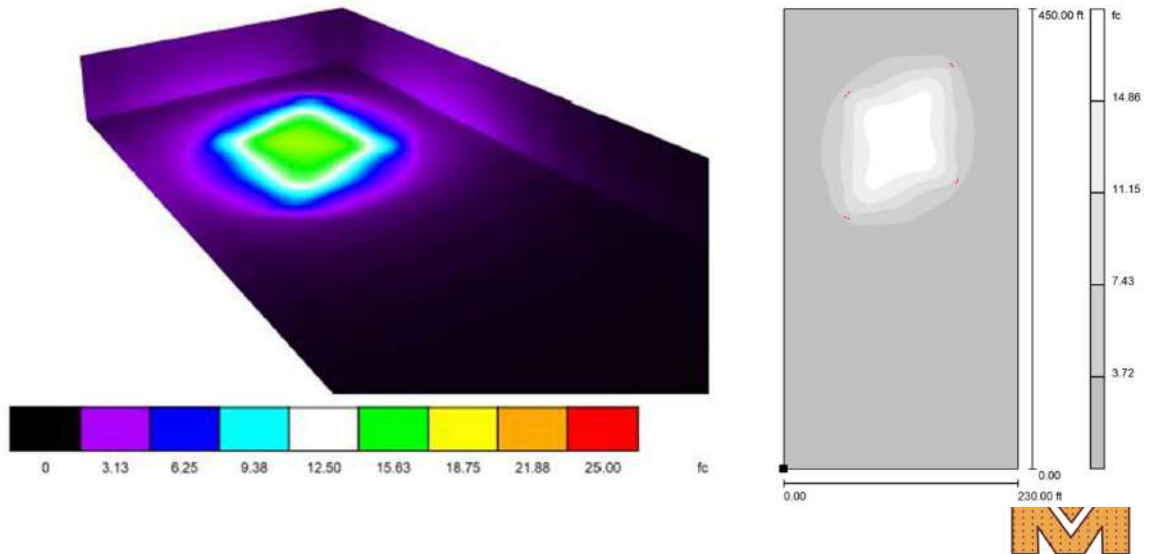


a) Spatial distribution of neutron fluence in vacuum



b) Spatial distribution of neutron fluence in air

**Lighting Simulations:**



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# VISUALIZATIONS

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**IEMA CONSULTANTS**  
ELECTRICAL MECHANICAL CONSULTANTS



IEMA ENGINEERING













**IEMA CONSULTANTS**  
ELECTRO MECHANICAL CONSULTANTS



IEMA ENGINEERING

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# CERTIFICATIONS

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# PAKISTAN ENGINEERING COUNCIL

Registration No: **CONSULT/1637**

Date of Registration: **16-01-2014**



Serial No  
PEC-4A **13198**

## CERTIFICATE OF REGISTRATION OF PAKISTANI CONSULTING ENGINEER

(UNDER PAKISTAN ENGINEERING COUNCIL ACT 1976)

This is to certify that M/s IEMA ENGINEERING Address B-58, BLOCK-5, GULSHAN-E-IQBAL, KARACHI have been registered as Consulting Engineers at Serial No CONSULT/1637 of the Register of Pakistan Engineering Council with following particulars:-

Type of Ownership (021,022,023,024) **(SOLE PROPRIETOR)(ENGR. SAFDAR HUSSAIN, ELECT/9472)**

Field of Specialization

(Project-profile Code Nos.) **1201,1203(i)(ii),1204(i)(iii),1210,1220,1226,1232(ii),1234(iii),1235. (NINE ONLY)**  
**(FOR ELECT, CIVIL, MECH & ENERGY ENGG WORKS ONLY)**

Date of Issue:  
**09/01/2020**



  
Registrar  
Pakistan Engineering Council,  
Islamabad

**Note:**

1. This Certificate of Registration shall expire on **30th June 2022** and will be renewed on payment of the required fee before **31st July, 2022**.
2. Description of project profile codes is shown on reverse.





# American Society of Plumbing Engineers

This is to certify that

**Mr. Safder Hussain Mover, P.E., G.E.**

**Full Member**

is entitled to all rights and privileges of such membership.



  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Vice President, Membership



# CERTIFICATE OF MEMBERSHIP

THIS CERTIFIES THAT

Ather Mover

IS A RECOGNIZED MEMBER

OF

THE AMERICAN CONCRETE INSTITUTE

THROUGH

Anne M. Ellis

---

PRESIDENT



American Concrete Institute®  
*Advancing concrete knowledge*

Ronald G. Burg

---

EXECUTIVE VICE PRESIDENT



# SGS

Certificate 54760897 / 147938290

CQI / IRCA 256127

## Ather Hussain Mover



has been awarded a Certificate of Achievement for

### ISO 45001:2018 Occupational Health and Safety Management Systems Auditor / Lead Auditor Training Course

by passing the written examination and continuous assessment

Held at

**Pakistan**

Completed on

**13 April 2020 - 17 April 2020**

This course meets the formal training requirements for individuals seeking certification under the IRCA Auditor Certification Scheme and for this purpose is valid for five years from the date of completion



Course Number 1910 - PR 357

Certificated by the International Register of Certificated Auditors (IRCA)



Heather Crick  
UK Business Manager

Amanda Mangan  
Global Training Manager

Issued by SGS United Kingdom Ltd. Registered in England No 1193985  
Registered Office SGS United Kingdom Ltd. Rossmore Business Park  
Ellesmere Port, Cheshire, CH65 3EN  
SGS United Kingdom Ltd, Certification and Business Enhancement  
SGS House, 217-221 London Road, Camberley, Surrey, GU15 3EY  
t +44(0) 1276 697 777 f +44(0) 1276 697 696 www.sgs.com



IEMA ENGINEERING



# ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

By action of the Board of Direction

**Ather Hussain Mover, P.E., M.ASCE**

has been elected

**Member**

who is entitled to all the privileges granted by the Constitution of the Society, an organization for the advancement of professional knowledge and the improvement of civil engineering.

*K.N. Gunalan*  
K.N. Gunalan, Ph.D., P.E., D.G.E., F.ASCE  
ASCE President 2020

May, 2020



*Thomas W. Smith III*  
Thomas W. Smith III, ENV SP, CAE, F.ASCE  
Executive Director



S. No. 496



**NED University of Engineering and Technology, Karachi**  
**NED-ACADEMY**  
**Centre for Continuing Engineering Education (CCEE)**

**CCEE**

**POSTGRADUATE CERTIFICATE OF PARTICIPATION**

This is to certify that Mr. / Ms. Ather Hussain Mover

Son / Daughter of Umer Hussain Mover has successfully

completed the course: EN-504 Advanced Waste Water Treatment Engineering and Design

held in the Department of Environmental Engineering

from January 2011 to June 2011.

**Director CCEE**

**Director General  
(NED Academy)**



Certificate 54668552 / 147929336

CQI / IRCA 256127

**SGS**

**Ather Hussain Mover**

has attended the

**ISO 14001:2015 - Environmental  
Management Systems Auditor/Lead  
Auditor Training Course**

Held at

**VILT**

Completed on

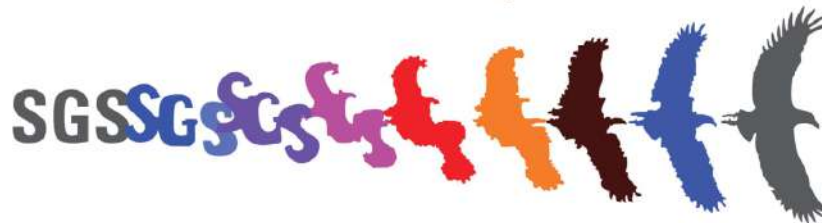
**27 April 2020 - 1 May 2020**



Heather Crick  
UK Business Manager

Amanda Mangan  
Global Training Manager

Issued by SGS United Kingdom Ltd. Registered in England No 1193985  
Registered Office SGS United Kingdom Ltd. Rossmore Business Park  
Ellesmere Port, Cheshire, CH65 3EN  
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SGS House, 217-221 London Road, Camberley, Surrey, GU15 3EY  
t +44(0) 1276 697 777 f +44(0) 1276 697 696 [www.sgs.com](http://www.sgs.com)





# CERTIFICATE of MEMBERSHIP

THIS DOCUMENT CERTIFIES THAT

**ATHER HUSSAIN MOVER**

IS A MEMBER IN GOOD STANDING OF

**THE WATER SUPPLY AND SANITATION  
COLLABORATIVE COUNCIL**

A handwritten signature in blue ink, appearing to read 'Rolf Luyendijk', is written over a light blue horizontal line.

**Mr. Rolf Luyendijk**  
Executive Director, WSSCC

A red, scalloped-edge seal containing the date 'JAN 14 2019' in a bold, sans-serif font, positioned in the bottom right corner of the certificate.



# Certificate of Training



This is to certify that  
*Umer Hussain Mover*

has attended an introductory  
**HSE Management Course**

on 7th March 2009 at FPAP

**FIRE PROTECTION ASSOCIATION OF PAKISTAN**



  
Program Director

  
Training Coordinator

20096699

Mar-07-2009

FPAP is a voluntary and non-profit organization for promoting fire protection awareness and advancement  
E-mail : [info@fpap.org.pk](mailto:info@fpap.org.pk) Website : [www.fpap.org.pk](http://www.fpap.org.pk)

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PAKISTAN CHAPTER

## *Certificate of Attendance*

*This certifies that Umer Mover has attended  
Energy Conference  
Roadmap for the Future!!!  
At Pearl Continental Hotel, Karachi  
held on May 15<sup>th</sup> & 16<sup>th</sup>, 2012*

*[Signature]*  
Secretary

*[Signature]*  
President

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PAKISTAN CHAPTER

## *Certificate of Attendance*

*This certifies that Umer Hussain Mover has attended  
Technical Seminar on Indoor Air Quality  
3 PDHs/LUs or 0.3CEUs  
At Pearl Continental Hotel, Karachi  
held on February 28, 2012*

*[Signature]*  
Secretary

*[Signature]*  
President

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