

a) Name	Mushtaq & Bilal Consulting Engineers		
b) Country of Origin	Pakistan		
c) Year when established	1975		
d) Address Tel. No. Fax No. E-mail Website	304, Noor Estate, Sharae Faisal, Karachi - 75350, Pakistan (92-21) 3455-4153, 3455-4253, 34559433 (92-21) 3454-0704 mail@mushtaqandbilal.com.pk , www.mushtaqandbilal.com.pk		
e) Principals	Mushtaq H. Dawood	B. Sc. B. E. (Civil) M. E. (Structures) AIT, Bangkok	P. E. Pakistan
	M. Najam Bilal	B. E. (Civil) NED University Karachi.	P. E. Pakistan
	M. Anis Bilal	M. Sc. (Structures) NED University Karachi.	P. E. Pakistan
f) Particular Fields of Expertise	Structures:	Commercial/Residential Buildings Industrial Buildings & Plants Institutions Hospitals & Health Centers Hotels Ports & Marine works Sanitary Systems Recreation Facilities	
	Rehabilitation Works:	Structures, Bridges & Roads	
	Bridges:	Analysis & Design	
	Highways:	Planning, Design & Rehabilitation	

h) Brief history of the company:

Mushtaq & Bilal (M&B) formed in 1975 is a multi disciplinary engineering company, providing a comprehensive and complete line of engineering services, from conceptual design to construction management, to a variety of private and public sector clients.

After having successfully completed more than 5000 projects with a total constructed value of well over 4 billion, M & B is one of the leading consulting engineering companies in Pakistan, engaged in all types of construction from analysis and design of bridges to transportation planning for the township and developments. Consistently undertaking 150 to 200 Million Rupees worth of projects, annually, over the past several year M &B has not only established an impressive track record but has also established a tradition of excellence in engineering attested to by a long list of satisfied clients.

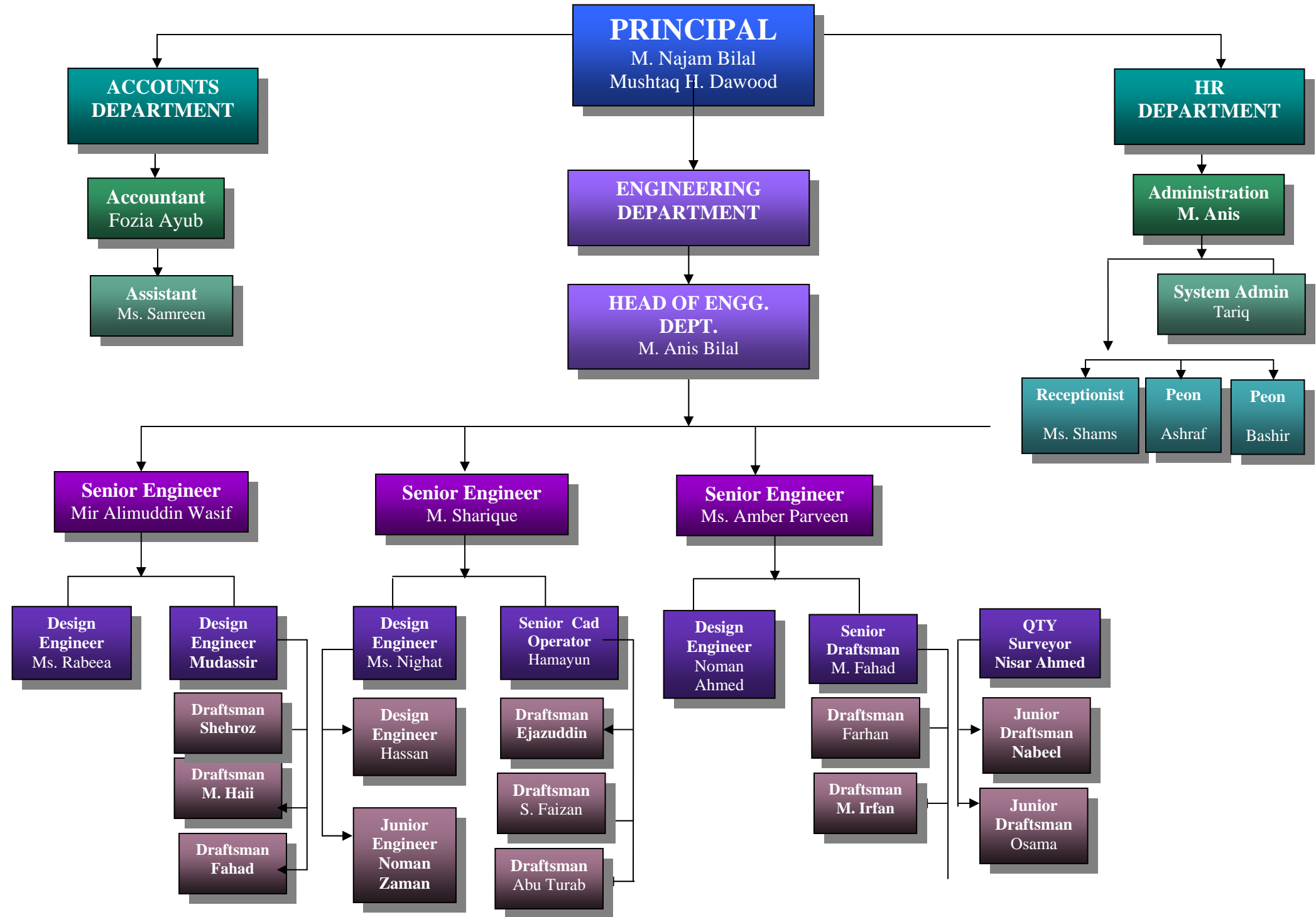
Soon after its inception in 1975, Mushtaq and Bilal was selected as the lead designer and consultant for Aga Khan Hospital and Medical University in Karachi, an over 1 million square feet medical complex and one of the most prestigious civil projects ever undertaken in Pakistan. Working in collaboration with US based architects and engineers; M&B carried out not only detailed structural analysis and design for the project, but also coordinated the work of various foreign and local consultants.

Since then, Mushtaq & Bilal individually and in conjunction with other consultants, as needed, has undertaken and successfully completed civil engineering projects including bridges, high rise buildings, marine structures, roads and highway, institutional structures and industrial facilities.

Over the years, the company has grown and evolved into a multi-disciplinary organization and the diversity of its staff and capabilities enables M&B to provide a customized service package, tailored to the specific needs of the clients, on a project-by-project basis.

Probably, even more than the variety of the projects undertaken, it is the diversity of the clients that M&B has served that has shaped the company into a complete engineering consulting concern. The client list compiled over the years includes federal and local governments, international developmental agencies, financial institutions, hospitals, private developer, hotel chains and a plethora of public agencies dealing with infrastructure development.

ORGANIZATIONAL HIEARCHY CHART



List of major Hi Rise projects by mushtaq and bilal

Our firm was established in 1975. Since then we have been providing structural engineering consultancy services for numerous important multistoried building projects not only in Pakistan but also in UAE, Oman, Turkmenistan, Kazakhstan, and Tajikistan & Kyrgyzstan & Iraq etc. Some of the projects of interest include the following:

HOSPITALS

- 18-Storeyed building for Sh. Khalifa Bin Zaid al Nahyan at Abu Dhabi,
- 721 bed Aga Khan Hospital, Karachi and its present major extension.
- 100 bed Behmani Hospital, Karachi, Pakistan
- Ziauddin Hospital at Clifton, Karachi.
- Ziauddin Hospital North Nazimabad, Karachi.
- Ziauddin Hospital Sukkur, Pakistan.
- Haji M. Hashim Memon Hospital, Hyderabad.

MULTI STORIES BUILDINGS

1. Mont Vista 28, storied building at Hyderi, Karachi Pakistan.
2. Under Construction Gulberg Green Complex at Islamabad having approx. covered Area of 1,680,000 sq. ft.
3. Bharia Town Tower, Tariq Road Karachi having Mall and offices.
4. Under construction Bharia Icon, Karachi, highest multi-function building in Pakistan.
5. Saima Royal Residency with Imtiaz super market store in Karachi.
6. Saima Grand 16 storied having Chase value center super market at Ground floor.
7. Under Construction 17 Towers, 23 to 38 Storied Buildings, Gold Crest at Islamabad, Pakistan having area more than 2 million.
8. 18-Storeyed building for Sh. Khalifa Bin Zaid al Nahyan at Abu Dhabi,
9. 721 bed Aga Khan Hospital, Karachi and its present major extension.
10. 48 Storied proposed Grand Hyatt Hotel & Towers, Islamabad, Pakistan
11. 28 to 24 stories Crescent Bay, Karachi, Pakistan different Plots having area around 1 million sft.
12. Under Construction Lucky one residential complex having area 2 million sft.
13. 16 Storied AMMA shopping Mall and residential Tower Karachi, Pakistan
14. 15 Storied Bismillah Tower, Karachi-Pakistan
15. 31 Storied Trakker Tower Karachi, Pakistan
16. 29 Storied Ocean Tower Mall and offices, Karachi, Pakistan
17. 40 stories Dolmen City, Karachi, Pakistan
18. Under construction, 30 and 26 storied office buildings at Arbil, Iraq,
19. Under construction, 20- storied Bahrain Chambers of Commerce Building at Bahrain.
20. Under Construction Penta Square Mix, use development having covered area of 1.5 million sq. feet in Lahore.
21. Under construction Signature tower At Hyderabad.
22. Under construction Gold Crest shopping Mall and residential tower, Lahore.
23. Propose 26 storied Signature 27 residential tower Karachi.
24. Propose 40 storied hotel and residential tower at Lahore.
25. Propose 38 storied residential tower in Karachi.
26. 19-Storeyed Bismillah Castle at Shaheed-e-Millat Road, Karachi covered area 100,000 sq. ft.
27. 17-Storeyed Bismillah Castle at Shaheed-e-Millat Road, Karachi covered area 100,000 sq. ft.
28. 10 Storied The Forum, Karachi-Pakistan.
29. Restoration of 16 stories fire damaged PNSC Building, Karachi, Pakistan.
30. 26-Storeyed building for the Private Office of the Crown Prince, at Abu Dhabi,
31. 18- Storeyed building for Mr. Qubaisi at Abu Dhabi,
32. 15- Storeyed building for Mr. Qamz, Abu Dhabi.
33. 22-storied building for HE Sheikh Mubarak Mohd Al Nahyan at Abu Dhabi,
34. Proposed Palace for H.H. Shk. Abdul Rahman Bin Khalid Thani at Doha Qatar
35. 13 storied PIC Building at Karachi, Pakistan
36. Supreme Court Building Islamabad

37. Foreign Office Building, Islamabad, Pakistan.
38. 16-Storeyed Nacon House at Karachi,
39. 12- Storeyed buildings for SNGPL, Lahore, Pakistan,
40. 10-Storeyed building for SSGPL, Karachi, Pakistan
41. Proposed 4500-Sq.mt villa for Md. Ismail, Dubai, UAE,
42. Rehabilitation of 9-storeyed office building at Ashgabad, Turkmenistan
43. 219 flats Bhitai Complex, Hyderabad, Pakistan
44. 20 storied SAPICO Head office Building at Islamabad
45. Relocation of about 100-year old Nasserwanjee's Building from Kharader to Clifton, Karachi
46. Rehabilitation of 110-year old D.J. Sc. College Karachi etc.
47. National Monument Complex, Islamabad, Pakistan.
48. 1.5 Million Sft. of proposed Faculty of Arts & Science for Aga Khan Univ. at Karachi etc.
49. Investigation of temporary campus buildings for UCA in Tajikistan, Kyrgyzstan and Kazakhstan for seismic resistance.
50. Design 3,000 ft. long jetties 1 to 6 on River Karnaphuli.
51. 19 Storeyed Silk Mall, Karachi, Pakistan
52. 28 Storeyed Waterfront Residential Tower for HMR Group Plot-02 & Plot-06.
53. 31 Storeyed HMR Plot-07
54. Proposed 40 stories Inter-Continental Hotel (Centaur), Lahore, Pakistan.
55. 45 Storeyed for Panorama Tower RP-3.
56. 32 storied and 40 approximate area
57. Under construction Elysium Mall and Tower, Islamabad.
58. 20 Storeyed Elysium Tower for Blue Area Islamabad.
59. 13 Storeyed Sukh Chain Residence Islamabad.
60. 35 Storeyed The Court Skycraper Tower Karachi.

SHOPPING MALLS.

61. The Emporium Mall at Lahore, Pakistan covered area 2.7 million sq. ft.
62. The Packages Mall, Lahore having covered area of one Million sq. ft.
63. Lucky One Mall Karachi having covered area of 3.2 Million sq. ft.
64. Under construction Falcon Mall, Karachi.
65. Under construction Elysium Mall and Tower, Islamabad.
66. Abdullah shopping Mall and residential Tower, Hyderabad.

HOTELS

67. Nishat Hotel at Islamabad, Pakistan
68. Avari Hotels Islamabad, buildup area of around 600,000 sft.
69. Rehabilitation of Pearl Continental Hotel, Peshawar
70. Cecil Hotel and Resort, Muaree- Pakistan
71. Extension of Gulf Hotel, Muscat Oman
72. Serena Hotels at Quetta and Faisalabad,
73. Pearl Continental Hotel, Lahore,
74. Pearl Continental Hotel, Bhoorban, Muree Hills,

AIRPORTS.

75. New Islamabad Airport, Islamabad.
76. Hangar for AKDN at Islamabad Airport.

FACTORIES

77. Soorty Green Factory Unit No-14, at Karachi having approx. covered area of 610,000 sq. ft.
78. Different Factories for M/s Soorty Textile Mills.
79. Pak petro factory at Jubail, Saudia Arabia.
80. Factory for Ali-ghee at Karachi

81. Factory for M/s Artistic Denim Ltd.
82. Factory for M/s Rajby Pvt Ltd
83. Powerhouse for M/s Gul Ahmed Pvt ltd.
84. Factory for M/s National food Ltd.
85. Factory for Sukkur Beverages, Sukkur.
86. Factory for National Food Industries Covered Area 400,000 sq. ft.
87. Gowdons for Chawla Industries Covered Area 500,000 sq. ft.
88. Al-Abid Textiles, Karachi

BANKS

89. 12 Storied Faysal Bank Head Office, Karachi-Pakistan
90. 24-Storied MCB, Tower, Karachi, Pakistan
91. Proposed Meezan Bank Building at Islamabad having approx. covered of 308,400 sq. ft
92. 20 storied Habib Bank Building at Islamabad,

BRIDGES

93. 2050 feet long bridge at Ghotki, Sindh
94. Aqua Duct over rice Canal
95. 700 feet long bridge opposite Faridabad.
96. 650 Feet Long Bridge At Jhanghara Mile 9/0-10/0
97. 480 Feet Long Bridge over Nara Canal Rd. 273-274
98. 300 Feet Long Bridge, at FP Bund, Hyderabad
99. Rehabilitation of 125-year old St. Patrick's Cathedral,
100. Bridge over Dhoro Puran along Naokot to Mithi Road at mile 0/4 - 5, Pakistan
101. Bridge over Guni Wah on Kairo Ganhwar Road mile 5/1 -1, Pakistan
102. Bridge over Re-lined Nara Canal RD 85, Pakistan
103. Bridge over Re-lined Nara Canal RD 76, Pakistan
104. Bridge over Re-lined Nara Canal RD 96, Pakistan

MISC. WORKS

105. KIA Lucky Motors Private Limited at Karachi, Pakistan
106. Master Motors display & workshop at Koranagi Karachi
107. King Abdullah University at Muzaffarabad and Rawlakot, Azad Kashmir .
108. Sanitary Treatment Plant for DHA golf Club, Karachi.
109. Mosque at Darul uloom Karachi Covered Area 350,000 sq ft.
110. BMW Showroom Building, Abu Dhabi- Covering area 22,227 Sq.
111. HS School for Aga Khan Foundations at Osh, Kyrghyzstan,
112. Major extension at Indus Motors Co producing Toyota cars at Karachi etc

Photographs of some projects



The Emporium Mall at Lahore
Architect: **Aedas Ali Naqvi**,
Karachi



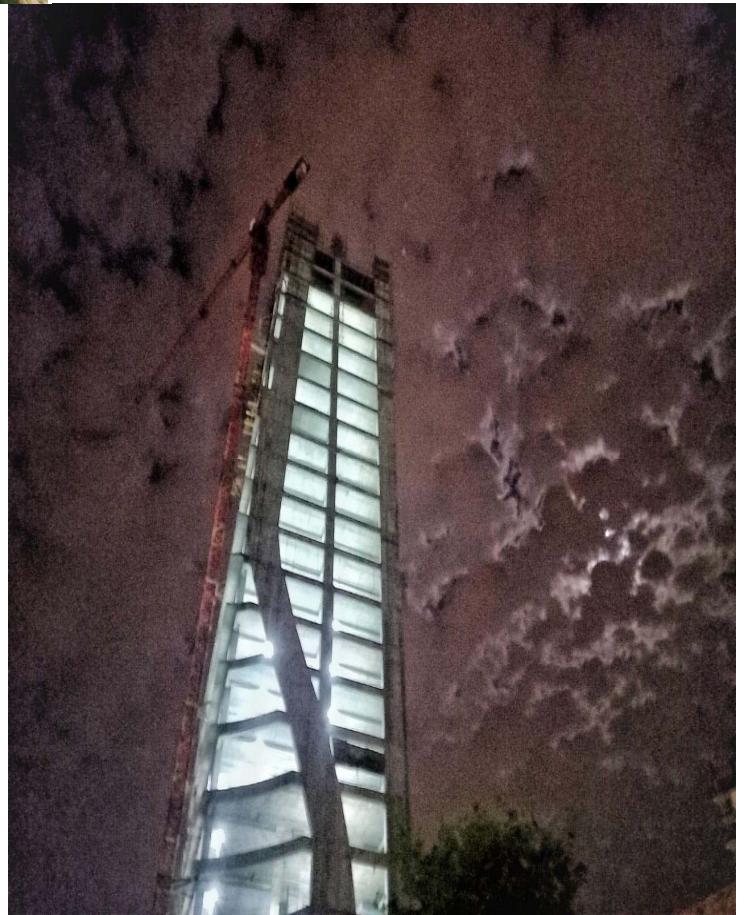


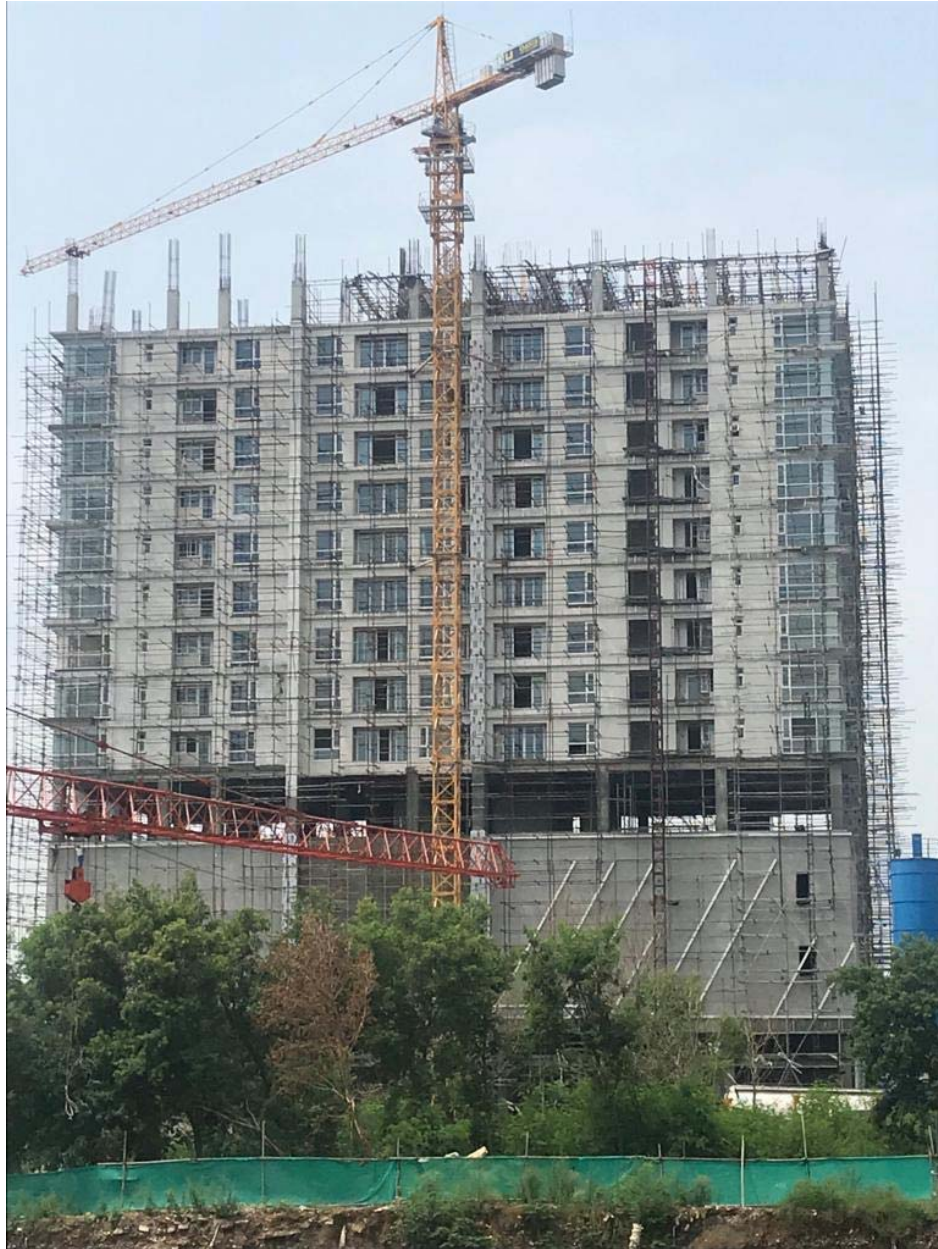
21-Storey **Penta Square**, Lahore
Architect: **M/s Al-Imam Enterprises Ltd.**





Basement + Ground +24-Storeyed Building **Meezan Bank** at Islamabad
Architect: **M/s Najmi Bilgrami Collaborative Pvt Ltd.**





20- Storied **Elysium Tower** at Blue Area Islamabad
Architect: **M/s Ali Arshad Associate**



28-Storied **Mont Vista** at Hyderi, Karachi



HMR Group
PROPOSED 2B + 2LG + G + M + 4P + 1A + 28F + R
Waterfront Residential Tower
Plot 6 & Plot 2





Askari Bank at Islamabad,
4 Basement+ Ground+26- Storied



8-Storyed **Oyster Court** at Lahore
Architects **M/s Omer Hasan Associate**





MONARCH FL-3
PLOT NO. FL-3, BLOCK-1, SCHEME-5, CLIFTON, KARACHI.



23 Storied Bahria Tower at Tariq Road, Karachi.
Architect: **M/s Arch Vision Plus**



18-Storyed **Prestige Trade Tower** at Karachi.
Architect: **M/s Arch Vision**



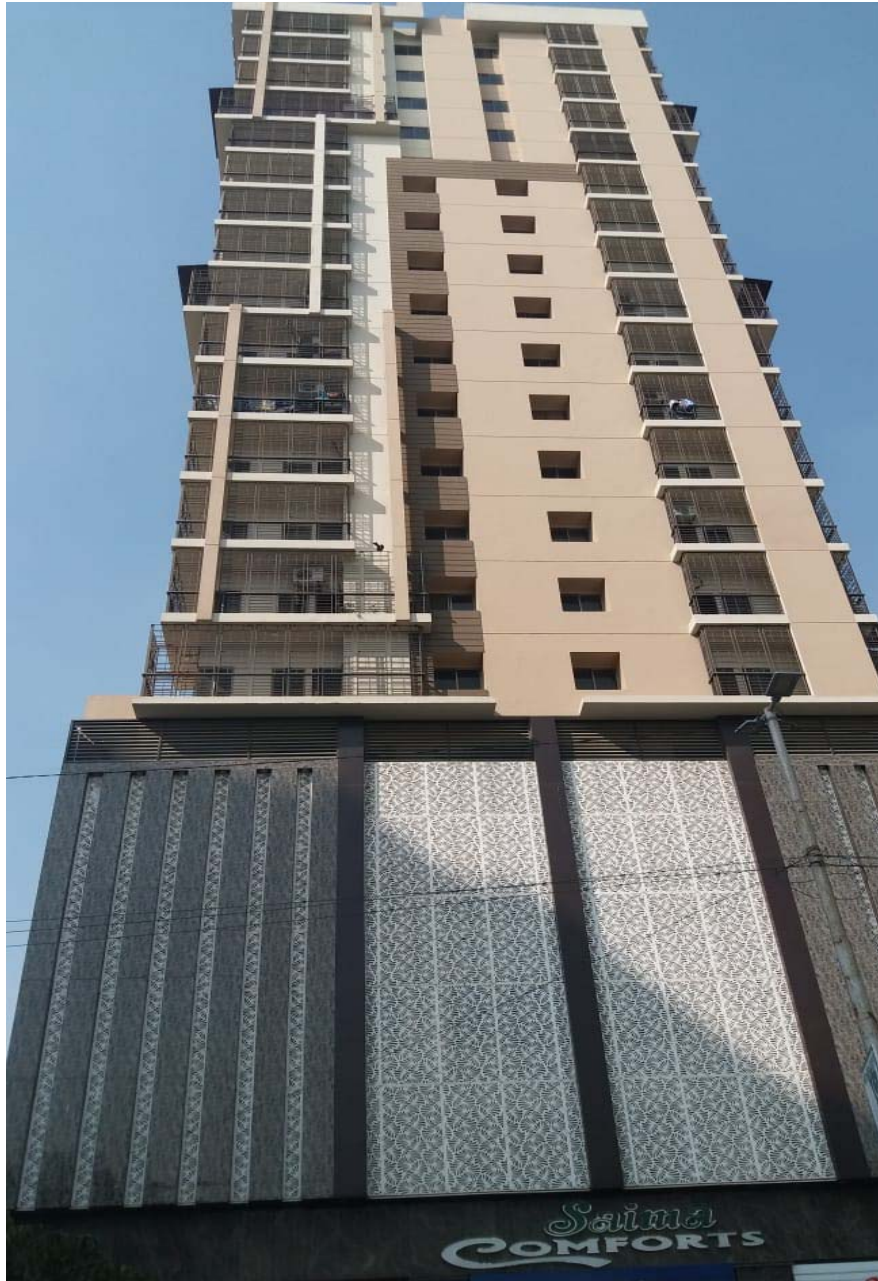
22- Storied **Saima Royal Residency**
Architect: **M/s Arch Vision Plus**



18-Storey **A.T. One Tower at Karachi**
Architect: **M/s Combined Associate, Karachi.**

18-Storey **Saima Grand, North Nazimabad,**
Architect: **M/s Arch Vision, Karachi**





18-Storey **Signature Tower** at Karachi
Architect: M/s Arch Vission



16-Stories **Bismillah Castle** at
Shaheed-e-Millat Road, Karachi

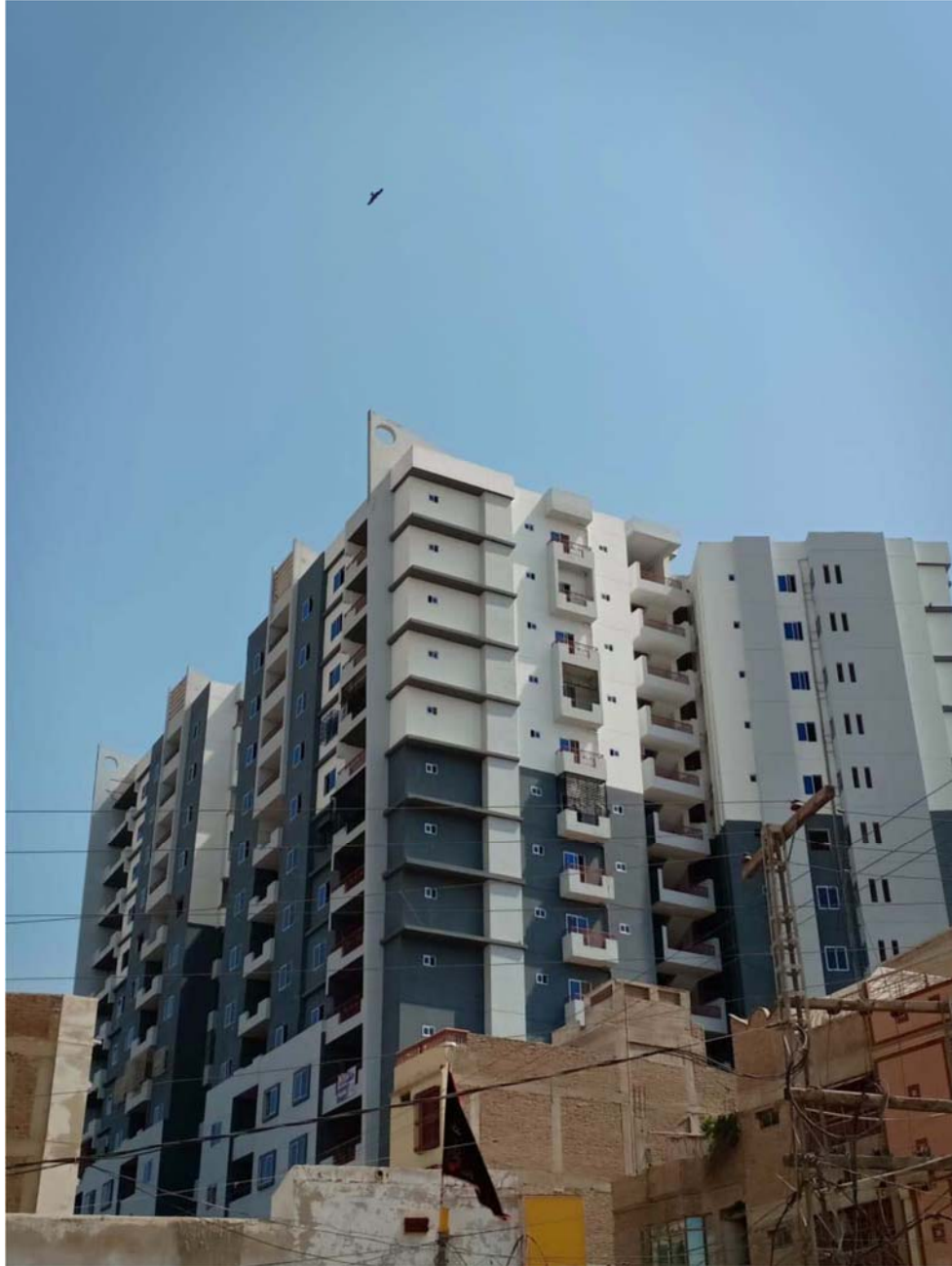
Architect : M/s S.A Architect





18-Storey **Kareem Residencia** at Karachi
Architect: **M/S Arch Vision Plus**





18- Storied **Dolphin Tower** at **Sukkur**
Architect: **M/s Arch Vision Plus**



Two of the 17 buildings 23 to 40 storied in a complex called ***Goldcrest*** in Islamabad
Architects: ***M/s The Architects, Karachi***





Midway Hotel at Karachi Airport

Architect: M/s Habib Fida Ali



Gold Crest at Lahore

26 Storied Duplex Apartments for
H. H. The Crown Prince of UAE
at **Abu Dhabi**
Architect: **M/s WBTI**



Supreme Court of Pakistan
Islamabad.
Architect: **M/s Kenzotange of
Japan**



26 Storied **MCB Tower**, Karachi
tallest building in Pakistan
Architect: **M/s Arshad Shahid Abdullah**





22 Storied **Saudi Pak Tower**,
Islamabad
Architect: **M/s Beeha Group**,
Saudi Arabia



20 Storied **HBL**, Islamabad
Architect: **M/s AHED Associates**



Amma Tower, Karachi.
Architect: M/s S. A. Architects Karachi.



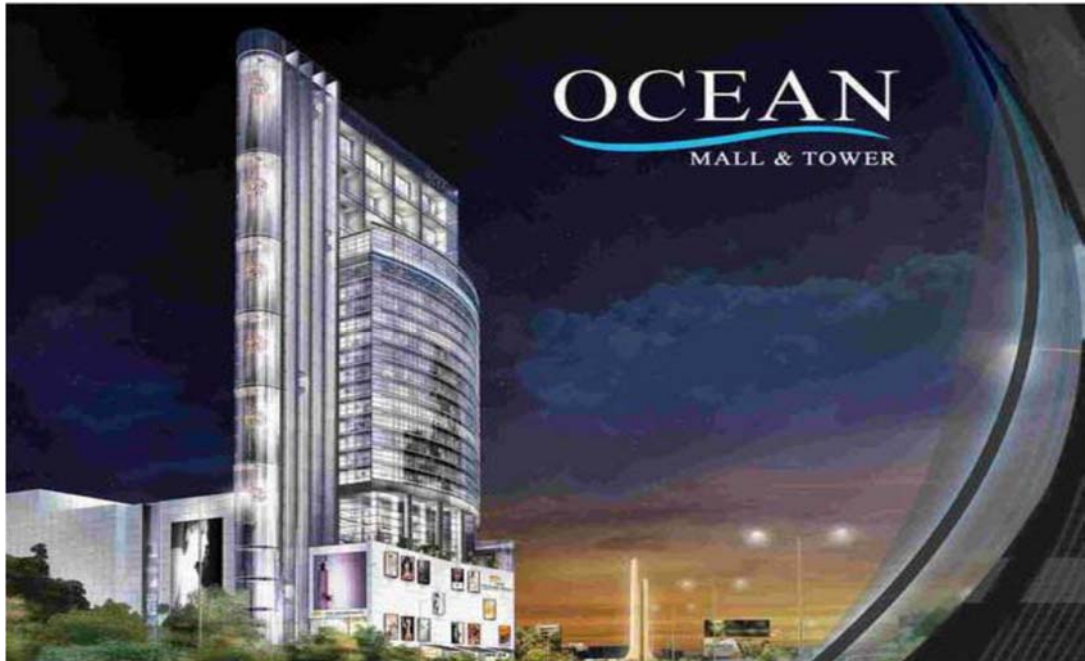
20 Storied **PRC Tower Building**
Karachi
Architect: **M/s Ahed Associates,**
Karachi.



Indus Valley School of Arts and Architecture at Clifton, Karachi.
This
100 years old building was stone by stone relocated, from
Marry Weather
Tower to Clifton.



Ocean Mall & Tower at Karachi, DHA





Bismillah Residency, Karachi
Architect: **M/s S. A. Architect,**



16- Storied The Silk Mall, Karachi
Architect: M/s Ebrahim & Chaudhary



P. C. Hotel, Lahore
Architect: M/s Arcop Associates





11 Storied Fair Faced Concrete Building, **SNGPL Head Office**, Lahore
Architect: **M/s Habib Fida Ali**



11 Storied Fair Faced Concrete Building, **SSGPL Head Office**,
Karachi
Architect: **M/s Habib Fida
Ali**



**11 Storied Faisal Bank,
Karachi**

**Architect: M/s Habib Fida Ali,
Karachi**





Lucky One Project, Karachi
Architect: M/s Arcop Associates





Cecil Resots, Murree
Architect: M/s S. A. Architect
Karachi





Avari Hotel, Islamabad (Tower with 2 Basements) Architect: M/s **Arif & Bintoak**



Midway Hotel at Karachi Airport

Architect: M/s Habib Fida Ali

**Aga Khan School, OSH,
Kyrgystan
Architect: M/s Arcop
Associates**





Falcon Mall at Karachi
Architect: **M/s Ali Arshad Associate**





**5 Star Serena Hotel,
Faisalabad Architect: M/s
Arcop Associates, Montreal,
Canada**



**16 Storied Nacon House, Karachi
Architect: M/s
SPA**





Custom Complex at Pak Afghan Border in Khyber Pakhtunkhwa



Custom Complex at Pak Afghan Border in Baluchistan



PIA Squash Complex, Karachi



Artistic Denim Mills Building No: 3
Architect: Kareem Thobani



M/s Soorty Green Factory for Soorty Textile Mills
Architect: M/s Kla Designer Pvt. Ltd, Karachi



Al Rahim Textile at Karachi.
Architect: M/s Mushtaq & Bilal consulting Engineers.



New Star Dyeing at Karachi
Architect: **Mr. Mohsin Raza**



M/s Rajby Industries Karachi.
Architect: **M/s Usman Mughni Design Studio**, Karachi



M/s Rajby Industries Karachi.
Architect: M/s Usman Mughni Design Studio, Karachi



Factory for **Getz pharma Pharmaceutical**



20 Storied **BCCI Head Quarter** at Bahrain.
Architects: **M/s Arif Sadiq Design Consult**



National Monument,
Islamabad Architects: **M/s Arif Masoud Associates**



Strengthening of old pre-cast building at Khorog, Tajikistan;
the building is used as temporary campus of UCA



**Seismic Strengthening of Shah Karim
Hostel, Gilgit, Pakistan.**





Boys Academy, located in high seismic area, Chitral, Pakistan
Architect: **M/s Didier leford of France.**





BMW Showroom Abu Dhabi
Architect: M/s Diar Consult



One million square ft AKU, Hospital at Karachi
Architect: M/s Payette Associates, Boston, USA



Girls Academy at Hunza located in high seismic zone in Pakistan
Architect: **Didier Leford of Paris France**



Girls Academy at Booni Chitral, Pakistan
Architect: **M/s Didier Leford of France**



AKESP School at Gakoch, Gilgit
Architects: **M/s The Architects**



**Accacia Country Club,
Karachi**
Architect: M/s C G
Consultant



Aligarh Old Boys Association office
Architect: M/s Habib Fida
Ali



Foundation Public School, Karachi

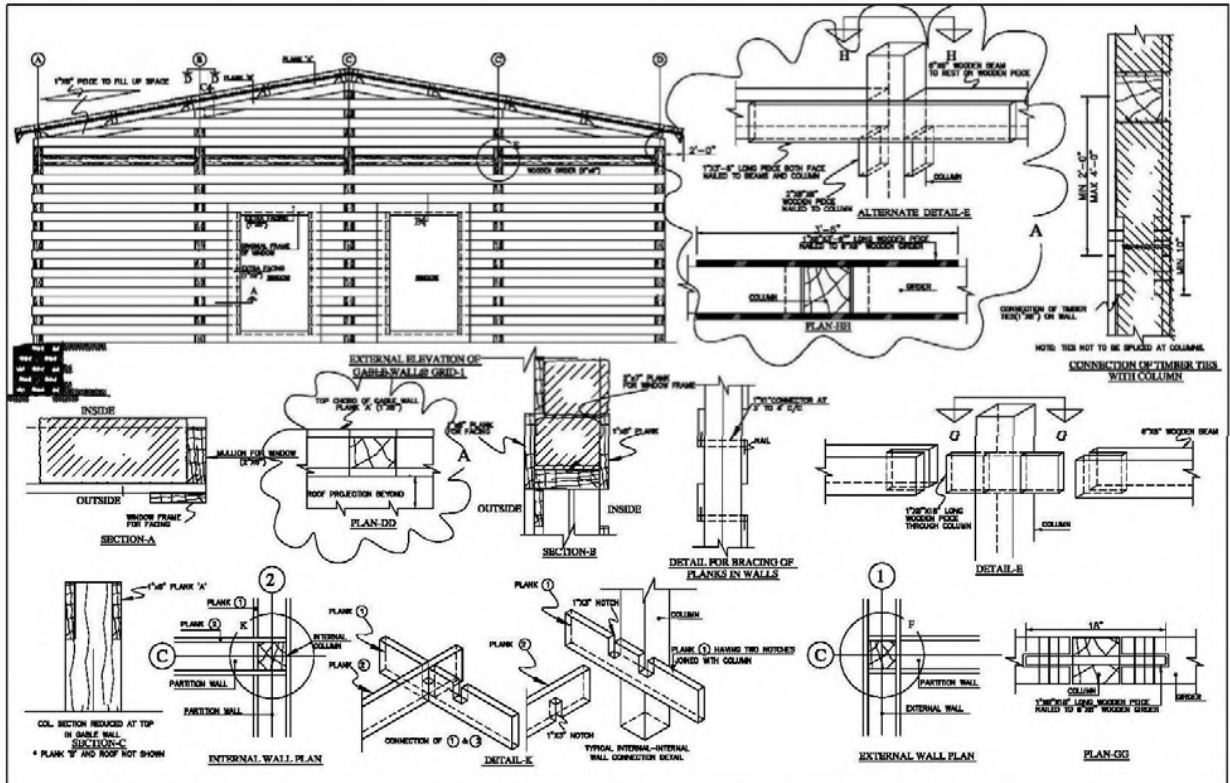


Institute of Business Administration
Architect: Habib Fida Ali



Primary School at Shaikhanda,
Kafiristan.

The innovative structural design uses only 40%
of wood used by Kafirs.



REVISION	A
DATE	JUNE,02
DRAWN BY	SADAF

TITLE	GABLE WALL AND CONNECTION DETAILS
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Aga Khan Housing Board for Pakistan mushtaq and bilal consulting engineers
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SELF HELP SCHOOL CONSTRUCTION PROGRAMME Pakistan - (Northern Area and Chitral)			
STATUS	ISSUED FOR CONSTRUCTION	Sheet No.	S-02/A

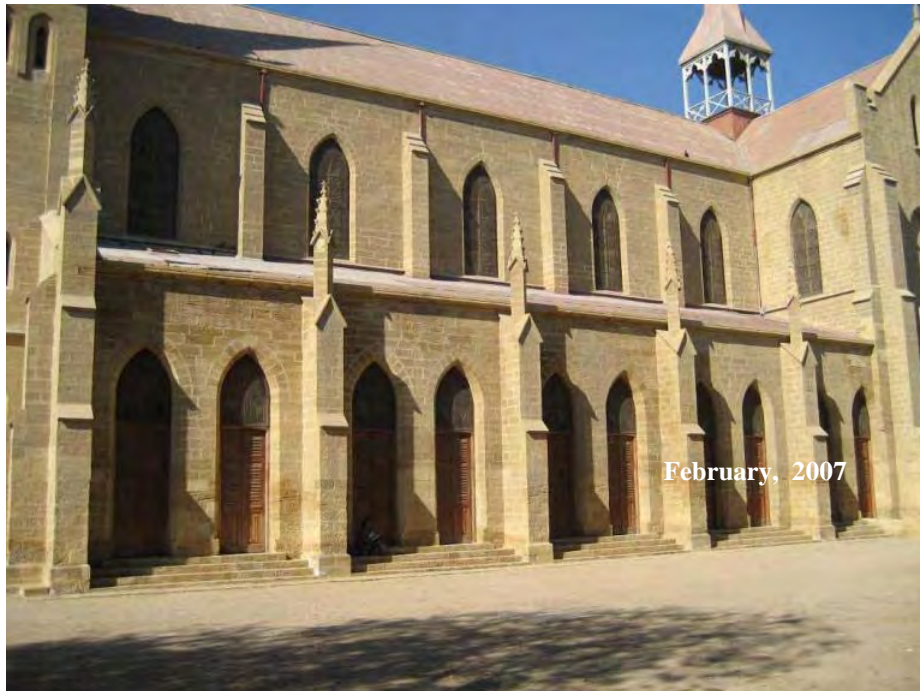


**Fair Faced The Forum Building,
Karachi, Architect: M/s Habib Fida
Ali, Karachi**



August, 2000

St. Patrick's Cathedral, Karachi, structure restoration of the cathedral which rising damp 8' feet from NGL



February, 2007



Masjid and Darul Uloom, Korangi, Karachi
Architect: **M/s S.A. Architect, Karachi**



Warehouse for M/S Chawla Industries, Karachi
Architect: **M/s Architecture Plus, Karachi**



Gulshan-E-Noor, Housing Scheme, Karachi
Architect: M/s Arcop Associates, Karachi





**Aga Khan University, Faculty of Arts and Science, Karachi,
Pakistan**
Architect: **M/s. Habib Fida
Ali**





King Abdullah University, Muzaffarabad
Pakistan
Architect: **M/s The Architects**





McDonald Outlet, Clifton Karachi
Architect: **Ahed Associates, Karachi**



Oxford University Press, Karachi
Architect: **M/s Kamal Khan Mumtazm, Karachi**



National Food Limited, Bin Qasim, Karachi
Architect: **M/s S.A. Architects,**



National Food Limited, Nooriabad Karachi



Young's Pvt Ltd, at Karachi



Silos & Ware House for M/s Pak Petro, Karachi



King Abdullah University, Rawlakot
Pakistan Architect:
M/s The Architects





Architect: M/s C P G, Singapore

Architect: M/s Arcop Associates





**Mosque at Muzaffarabad,
Pakistan**
Architect: **M/s. Saud Consulting Services, Saudi
Arabia**
**Under Full Construction Supervision of
M&B**





**P. C. Hotel,
Bhuban**
Architect: M/s Arcop
Associates





40,000 Gallons Cup Shaded Overhead Tank for K.P.T at Karachi.



Continental Biscuits Ltd. at Sukkur



Changhan Master Motor Company Plant, Karachi
Architect: M/s mushtaq & bilal consulting Engineers



Additional of Stamping Machine at **Procon**
Master Motor Company Plant, Karachi.



Agriauto Stamping Company Plant, Karachi



Major **Extension** in **Indus Motor Ltd.**, Factory Producing Toyota Cars. Architects: **mushtaq and bilal**





KIA Lucky Motor Company Plant, Karachi
Architect: M/s Habib Fida Ali



M/s Packages Mall at Lahore



Rice Mills at Pipri, Port Qasim



Ghankara Bridge
Client: **Govt. of Sindh**



KB Bridge
Client: **Govt. of Sindh**



Aqua Duct and its Controlling Gates

Client: **Govt. of Sindh**





Bridge at Ghotki Dist, Province of Sindh
Client: Govt. of Sindh

IRRIGATION AND HYDRAULIC STRUCTURES

- PROJECT:** AQUEDUCT CROSSING OVER MNV DRAIN (525' LONG)
- Services:** Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.
- Client:** Sindh Highway department (Mehar Division)
- PROJECT:** RESTRENGTHENING OF FALL REGULATOR (LAHORI GATE) OVER RICE CANAL AT RD. 255.
- Services:** Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.
- Client:** Sindh irrigation department
- PROJECT:** CAUSEWAY BETWEEN THANA BULA KHAN AND THANA AHMED KHAN. (950' LONG)
- Services:** Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.
- Client:** Sindh Highway Department (Karachi Division)
- PROJECT:** EXTENSION OF RAILWAY WHARF, KARACHI.
- Services:** Planning, architectural and structural design and supervision.
- Client:** Karachi Port Trust.
- PROJECT:** PILOT PIER, KARACHI PORT TRUST, KARACHI.
- Services:** Planning Analysis and Design.
- Client:** Karachi Port Trust
- PROJECT:** LANDING JETTY AT IBRAHIM HYDERI, KARACHI.
- Services:** Planning, Architectural and structural design and supervision.
- Client:** Karachi District Council
- PROJECT:** LANDING JETTY AT BHIT ISLAND, KARACHI.
- Service:** Planning, architectural and structural design and supervision.
- Client:** Karachi Port Trust
- PROJECT:** WATER FRONT STRUCTURES WORKS FOR TOURISM COMPLEX AT KEENJHAR LAKE, KARACHI.
- Services:** Planning, architectural and structural design and supervision.
- Client:** Sindh Tourism Department
- PROJECT:** WATER FRONT STRUCTURES WORKS FOR TOURISM COMPLEX AT HALEJI LAKE, KARACHI.
- Services:** Planning, architectural and structural design and supervision.

Client: Sindh Tourism Department

PROJECT: **SMALL EARTHEN DAM CUM RESERVIOR AT NALANT, GAWADAR.**

Services: Planning, architectural and structural design and supervision.

Client: Sheikh Surror UAE.

PROJECT: **FLOOD PROTECTION WORKS FOR 650' LONG BRIDGE AT JENGHARA MILE 9/0-10/0.**

Services: Analysis, design, Construction Drawings, Specifications, and Construction Inspection.

Client: Sindh Highway Department (Sehwan Division)

PROJECT: **FLOOD PROTECTION WORKS FOR 200' LONG BRIDGE AT JENGHARA MILE 9/0-10/0.**

Services: Analysis, design, Construction Drawings, Specifications, and Construction Inspection.

Client: Sindh Highway Department (Sehwan Division)

PROJECT: **FLOOD PROTECTION WORKS FOR 200' LONG BRIDGE AT JENGHARA MILE 9/0-10/0.**

Services: Analysis, design, Construction Drawings, Specifications, and Construction Inspection.

Client: Sindh Highway Department (Sehwan Division)

PROJECT: **FLOOD PROTECTION WORKS FOR 700' LONG BRIDGE AT RD 321+180 FT OF FP BUND OPPOSITE FARIDABAD TOWN.**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Client: Sindh Highway Department (Mehar Division)

PROJECT: **HILL TORRENT PROTECTION WORKS FOR 100' LONG BRIDGE AT RAINNALA.**

Services: Analysis, Design, Construction Drawing, Specifications, and Construction Inspection.

Client: Sindh Highway Department (Dadu Division)

PROJECT: **FLOOD PROTECTION WORK FOR 250 'LONG F.P. BUND ALONG ALLAH BACHAYO JAMALI TO HERO KHAN ROAD.**

Service: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Client: District Officer Roads, Dadu

BRIDGES

- PROJECT:** BRIDGE OVER MALIR RIVER ALONG NATIONAL HIGHWAY, KARACHI.
- Services:** Strength evaluation bridge foundation including data collection, analysis and preparation of technical report.
- Cost:** Rs. 3,500,000/-
- Client:** Sindh Highway Department
- PROJECT:** PRESTRESSED BRIDGE OVER ROHRI CANAL RD. 786 ON KARAM NIZAMANI BHORO MANGRIO ROAD< SIND. (220' LONG)
- Services:** Analysis, Design Construction Drawings, Specification, and Construction Inspection.
- Cost:** Rs. 4,400,000/-
- Client:** Sindh Highway Department (Hyderabad Division)
- PROJECT:** PRESTRESSED BRIDGE OVE NARA CANAL AWADH PATTAN AT RD> 96-97, SIND. (280' LONG)
- Services:** Analysis, Design Construction Drawings, Specification, and Construction Inspection.
- Cost:** Rs. 5,600,000/-
- Client:** Sindh Highway Department (Hyderabad Division)
- PROJECT:** PRESTRESSED BRIDGE OVER ROHRI CANAL AT RD. 951 TANDO JAM SHAHPUR ROAD TO SINGHAR SOOMRO ROAD HYDERABAD, SINDH. (150' LONG)
- Services:** Analysis, Design, Construction Drawing, Specifications, and Construction Inspection.
- Cost:** Rs. 3,000,000/-
- Client:** Sindh Highway Department (Hyderabad Division)
- PROJECT:** PRESTRESSED BRIDGE OVER PHULLEI CANAL ON MATLI BYE PASS ROAD MILE 1/11/1-2. (222' LONG)
- Services:** Analysis, Design, Construction, plans, Specifications, and Construction Inspection.
- Cost:** Rs. 4, 440, 000/-
- Client:** Sindh Highway Department (Badin Division)
- PROJECT:** PRESTRESSED BRIDGE OVER KHIPRO CANAL AT RD. 248. (60' LONG)
- Services:** Analysis, Design, Construction plans, Specifications, and Construction Inspection.
- Cost:** Rs. 1,200,000/-
- Client:** Sindh Highway Department (Sanghar Division)

PROJECT: PRESTRESSED BRIDGE OVER DHORO PURAN ALONG NAKOT TOMITHI ROAD AT MILE 0/4-5. (60' LONG)

Services: Analysis, Design, Construction plans, Specifications, and Construction Inspection.

Cost: Rs. 1,200,000/-

Client: Sindh Highway Department (Digri Division)

PROJECT: PRESTRESSED BRIDGE OVER GUNIWAH ON KAIRO GANHWAR KHORWAH ROAD MILE 5/1-2. (120' LONG)

Services: Analysis, Design, Construction plans, Specifications, and Construction Inspection.

Cost: Rs. 2,400,000/-

Client: Sindh Highway Department (Badin Division)

PROJECT: PRESTRESSED SKEW BRIDGE OVER RE-LINED NARA CANAL RD. 85. (280' LONG)

Services: Analysis, Design, Construction plans, Specifications, and Construction Inspection.

Cost: Rs. 6,650,000/-

Client: Sindh irrigation Department (Mirpurkhas Division)

PROJECT: PRESTRESSED SKEW BRIDGE OVER RELINED NARA CANAL RD. 76. (206' LONG)

Services: Analysis, Design, Construction plans, Specifications, and Construction Inspection.

Cost: Rs. 4,841,000/-

Client: Sindh Irrigation Department (Mirpurkhas Division)

PROJECT: PRESTRESSED SKEW BRIDGE OVER RE-LINED NARA CANAL RD. 96 (225' LONG)

Services: Analysis, Design, Construction plans, Specifications, and Construction Inspection.

Cost: Rs. 54,00,000/-

Client: Sindh Irrigation Department (Mirpurkhas Division)

PROJECT: PRESTRESSED BRIDGE AT CHOHI ON RD. 118.1. (60' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 12,00,000/-

Client: Sindh Highway Department (Shikarpur Division)

PROJECT: PRESTRESSED BRIDGE OVER DHORO PURAN ALONG DIGRI-JHUDO ROAD. (80' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 16, 00,000/-

Client: Sindh Highway Department (Digri Division)

PROJECT: PRESTRESSED BRIDGE OVER JOHI CANAL AT JHARIRI TO GAJ BUNGLOW (85' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 18, 40,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: PRESTRESSED BRIDGE OVER DADU CANAL ON MEHAR RADHAN TO GHARO VIA FAZUL RD. AT 425(150' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 34, 50,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: PRESTRESSED BRIDGE OVER SUK ANI ALONG THARIRI JADO SH. TO GAJ BUNGLOW ROAD MILE 5/7-6/9. (100' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 24, 00,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: PRESTRESSED BRIDGE OVER ADJACENT TO F.P BUND AT RD. 198. (300' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 72, 00,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: PRESTRESSED BRIDGE OVER ROAD FROM KUNRI TO NABISAR VIA KUNRI MEMON. (60' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 14, 40,000/-

Client: Sindh Highway Department (Mirpurkhas Division)

PROJECT: PRESTRESSED BRIDGE AT GUJRAH NAWABSHAH. (85' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 20, 40,000/-

Client: Sindh Highway Department (Nawabshah Division)

PROJECT: PRESTRESSED BRIDGE AT RD.212 + 533 XEN NUSRAT DIVISION NAWABSHAH. (125' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 30, 00,000/-

Client: Sindh Highway Department (Nawabshah Division)

PROJECT: PRESTRESSED BRIDGE AT MIRWAH TALHAR ROAD AT RD. 71 (85' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 20, 40,000/-

Client: Central Civil Division. Pak. Pwd. Hyderabad

PROJECT: PRESTRESSED BRIDGE OVER DADU CANAL ALONG INDUS HIGHWAY ART R.D. 546 (110' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 26, 40,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: PRESTRESSED BRIDGE OVER DADU CANAL AT RD. 535 NEAR VILLAGE KHOSO (120' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 28, 80,000/-

Client: Sindh Highway Department (Sukkur Division)

PROJECT: PRESTRESSED BRIDGE OVER GHOTKI FEEDER AT RD. 110. (217' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 54, 25,000/-

Client: Sindh Highway Department (Sukkur Division)

PROJECT: PRESTRESSED BRIDGE OVER GHOTKI FEEDER AT RD. 78. (260' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 65, 00,000/-

Client: Sindh Highway Department (Sukkur Division)

PROJECT: PRESTRESSED BRIDGE OVER WATER NEAR MANNUTE. (75' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 18, 75,000/-

Client: Central Civil division Pak. PWD Sukkur

PROJECT: PRESTRESSED BRIDGE AT JENGHARA MILE 9/0-10/0 (650 RFT). (650' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 1, 46, 25,000/-

Client: Sindh Highway Department (Sehwan Division)

PROJECT: PRESTRESSED BRIDGE AT JENHARA MILE 9/0-10/0(200 RFT). (200' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 45, 00,000/-

Client: Sindh Highway Department (Sehwan Division)

PROJECT: PRESTRESSED BRIDGE AT JENGHARA MILE 9/0-10/0 (150 RFT). (150' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 33, 75,000/-

Client: Sindh Highway Department (Sehwan Division)

PROJECT: PRESTRESSED BRIDGE AT K.B. FEEDER MILE 119/0. (200' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 1, 34, 00,000/-

Client: Sindh Highway Department (Kotri Division)

PROJECT: PRESTRESSED BRIDGE Over RICE CANAL AT RD. 272 DIVISION-1 LARKANA. (300' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 75, 00,000/-

Client: Project Director Larkana Division Authority.

PROJECT: PRESTRESSED BRIDGE OVER MAHIWAH AT RD. 25 ALONG ROAD FROM UBAURO HASSU DEHO TO DILWARO. (100' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 24, 00,000/-

Client: Sindh Highway Department (Kotri Division)

PROJECT: PRESTRESSED BRIDGE AT RD-114 OF PINYARI FEEDER LOWER CANAL. (300" LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 69, 00,000/-

Client: Upper Pinyari Division Hyderabad

PROJECT: PRESTRESSED BRIDGE OVER TANDO ALLAHYAR BYEPASS, OVER NASEER CANAL (120' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 27, 60,000/-

Client: Sind Highway Department (Hyderabad Division)

PROJECT: PRESTRESSED BRIDGE AT RAINNALA (100' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 25, 00,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: PRESTRESSED BRIDGE ON SOBHO KHAN CHANDIO I/C LINK TO ALI MOHAMMAD SHAH. (70" LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 17, 50,000/-

Client: Sindh Highway Department (Tando M. Khan Division)

PROJECT: PRESTRESSED BRIDGE AT ALI BEHAR MINOR HYDERABAD, (70' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction

Cost: Rs. 17, 50,000/-

Client: Sindh Highway Department (Tando M. Khan Division)

PROJECT: **PRESTRESSED BRIDGE OVER RAILWAY CROSSING ON TANDO ALLAHYAR BY PASS ROAD @ MILE 0/1-2. (40' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 44, 00,000/-

Client: Sind Highway Department (Hyderabad Division)

PROJECT: **PRESTRESSED BRIDGE AT RD 321 + 180 FT OF FP BUND OPPOSITE FARIDABAD TOWN. (700' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 1, 75, 00,000/-

Client: Sindh Highway Department (Mehar Division)

PROJECT: **PRESTRESSED BRIDGE ALONG FAREEDABAD BUND TO KETI MIR MOHAMMAD @ MILE 2/1-2/0 (70' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 17, 50,000/-

Client: Sindh Highway Department (Kingri Division)

PROJECT: **PRESTRESSED BRIDGE OVER M.N.V DRAIN OPPOSITE VILLAGE MITHYAN KOLACHI. (220' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 55, 00,000/-

Client: Sindh Highway Department (K.N Shah Division)

PROJECT: **PRESTRESSED BRIDGE OVER RAILWAY CROSSING ON TANDO ALLAHYAR BY PASS ROAD @ MILE 3/6-7. (60' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 55, 00,000/-

Client: Sindh Highway Department (Hyderabad Division)

PROJECT: **PRESTRESSED BRIDGE OVER FALL REGULATOR (LAHORI) AT RD 255 OVER RICE**

CANAL (106' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 31, 80,000/-

Client: Sindh Highway Department (Larkana Division)

PROJECT: **PRESTRESSED BRIDGE OVER RICE CANAL ALONG TAHRIRI MOHBAT MANGE JA KHAN. (160' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 48, 00,000/-

Client: Sindh Highway Department (Larkana Division)

PROJECT: **PRESTRESSED BRIDGE OVER DADU CANAL AT SIAL MORI R.D. 609 (100' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 30, 00,000/-

Client: Sindh Highway Department (Dadu Division)

PROJECT: **PRESTRESSED BRIDGE OVER AKRAM CHANNEL WAH AT RD.118.5 DEH HALEPOTA. (110' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 33, 00,000/-

Client: Administrator union Council Seri District Hyderabad

PROJECT: **PRESTRESSED BRIDGE AT RD. 5.0 DARO BRANCH (136' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 54, 40,000/-

Client: Sindh Highway Department (Sajawal Division)

PROJECT: **PRESTRESSED BRIDGE OVER JOHI BRANCH ALONG ALLAH BACHAYO JAMALI TO HERO KHAN JAMALI ROAD (85 RFT). (85' LONG)**

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 34, 00,000/-

Client: District Officer Road & Transport District Dadu.

PROJECT: PRESTRESSED BRIDGE OVER 480, RFT OVER NARA CANAL AT RD. 273-274. (480' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 1, 92, 00,000/-

Client: Sindh Highway Department (Naushero Feroz Division)

PROJECT: PRESTRESSED BRIDGE YAROO SAIN NAI ALONG ROAD FROM WAHI PANDHI TO GORAKH HILLS STATION (200' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 80, 00,000/-

Client: Sindh Highway Department (Dadu Division).

PROJECT: PRESTRESSED BRIDGE OVER BEGHARI CANAL 95 RFT ALONG LINK ROAD MILE 4/6 FROM MIRANPUR ROAD @ MILE (95'-3" LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 38, 00,000/-

Client: District Officer Roads Jacobabad.

PROJECT: PRESTRESSED BRIDGE OVER PINYARI BRANNCH NEAR VILLAGE AMIR BUX HINGORO AT ARBAB MEENAHAL JAT (85 RFT). (85' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 34, 00,000/-

Client: District Coordination projects Director District Thatta.

PROJECT: PRESTRESSED BRIDGE BETWEEN MASSAN ROAD TO GUL MUHAMMED MANGSI VILLAGE OVER DADU CANAL AT RD 611 TALUKA DADU. (80' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 32, 00,000/-

Client: District Coordination projects Director KPP Dadu

PROJECT: PRESTRESSED BRIDGE OVER JOHI BRANCH AT R.D 42 ALONG VEJI SHARIR (120' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 64, 00,000/-

Client: District Officer Road Dadu.

PROJECT: PRESTRESSED BRIDGE OVER DADU CANAL ALONG ROAD TO KHAMISO MACHI DANGER VIA GHANDIO EXTENSION UP TO RAHOOJA 120' RFT. (300' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 1, 20, 00,000/-

Client: District Coordination projects Director KPP Dadu

PROJECT: PRESTRESSED BRIDGE OVER F. P BUND ALONG ALLAH BACHAYO JAMALI TO HERO KHAN ROAD. (250' LONG)

Services: Analysis, Design, Construction Drawings, Specifications, and Construction Inspection.

Cost: Rs. 1, 00, 00,000/-

Client: District Officer Roads, Dadu

ROAD AND HIGHWAYS

PROJECT: LYARI RIVER EXPRESSWAY, KARACHI.

Services: Pre-feasibility and Cost Estimate for an alternate alignment of the Expressway

Client: Karachi Development Authority

PROJECT: LINK ROAD BETWEEN KARACHI- HYDERABAD SUPER HIGHWAY AND PALACE AT KATHORE.

Services: Planning, geometric design, pavement design, construction specifications and plans, contract documents and construction inspection.

Cost: Rs. 300, 000/-

Client: State Office of Ruler of Abu Dhabi

PROJECT: PLINTH OVERLAY DESIGN AT KARACHI PORT TRUST.

Services: KPT Plinth Overlay design using concrete pavers for 27-ton container handling and storage.

Cost: Rs. 300,000/-

Client: Envicrete

PROJECT: INTERNATIONAL ROADS FOR MADINA TOWNSHIP, HYDERABAD.

Services: Planning, geometric design, pavement design, construction specifications and plans, contract documents and construction inspection.

Cost: Rs. 19, 000,000/-

Client: Hyderabad Development Authority

PROJECT: INTERNATIONAL ROAD FOR MARVI TOWN AND MARVI GARDEN TOWN HYDERABAD.

Services: Planning, geometric design, pavement design, construction specifications and plans, contract documents and construction inspection.

Cost: Rs. 7, 000,000/-

Client: Hyderabad Development Authority

BUILDINGS

- PROJECT:** 26 STORIED BUILDING FOR H.H THE CROWN PRINCE, ABU DHABI
- Services:** Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 360, 000,000/-
- Client:** H.H.The Crown Prince M/s WBTI Ltd.
- PROJECT:** 20 STORIED AL- QUBAISI BUILDING, ABUDHABI
- Services:** Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 161, 000,000/-
- Client:** Mr. Qubaisi / M/s Planar.
- PROJECT:** 21 STORIED SAPICO BUILDING, ISLAMABAD
- Services:** Structural / seismic analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 192,000, 0000/-
- Client:** Saudi Pak Industrial and Agricultural Investment Co. Ltd. And Nayyar Ali Dada Associate
- PROJECT:** 16 STORIED BUILDING FOR H.H SHEIKH ZAYED BIN SULTAN AL_NAHYAN, ABU DHABI
- Services:** Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 112, 000,000/-
- Client:** H.H. Sheikh Zayad Bin Sultan Al-Nahyan / M/s Planar.
- PROJECT:** 17-STORIED PIC BUILDING KARACHI.
- Services:** Structural/seismic analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 240, 000,000/-
- Client:** Pakistan Insurance Corporation / Ahed Associate
- PROJECT:** 14-STORIED NACON HOUSE. KARACHI.
- Services:** Structural/seismic analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 90, 000,000/-
- Client:** M/s Raza Naqvi

PROJECT: 13-STORIED SNGPL BUILDING, LAHORE

Services: Structural/seismic analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 120, 000,000/-

Client: Sui Northern gas Pipeline Ltd. / M/s Habib Fida Ali

PROJECT: SINDH ARCHIVES BUILDING FOR GOVT. OF SIND, KARACHI.

Services: Structural/seismic analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 25, 000,000/-

Client: Government of Sindh

PROJECT: ZONAL HEAD OFFICE FOR NATIONAL BANK OF PAKISTAN, QUETTA.

Services: Structural analysis and design, specification and top supervision.

Client: M/s Habib Fida Ali

PROJECT: 721-BED AGA KHAN UNIVERSITY HOSPITAL.

Services: Structural analysis and design of building with over a million square feet of covered area, specifications, coordination of civil works with other consultants and contractors, and site inspection.

Cost: Rs. 2, 000, 000,000/-

Client: Aga Khan Hospital and Medical College Foundation.

PROJECT: SERENA HOTELS, QUETTA AND FAISALABAD.

Services: Structural/seismic analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 3000, 000,000/-

Client: Tourism Promotion Services Ltd.

PROJECT: PEARL CONTINENTAL HOTEL BHOORBUN MURREE HILLS.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 400, 000,000/-

Client: Pakistan Services Ltd.

PROJECT: HOTEL MIDSWAY, KARACHI AIRPORT.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Client: M/s Habib Fida Ali.

PROJECT: FAROOQ CENTER AND HOTEL, LAHORE.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 87, 500,000/-

Client: M/s Lahore Hotel

PROJECT: FAROOQ CENTER AND HOTEL, LAHORE.

Services: Structural analysis and design, specification for soil investigation and civil works, periodic site visits.

Cost: Rs. 600, 000,000/-

Client: Pakistan Services Ltd.

PROJECT: 10 STORIED THE FORUM KARACHI.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: 13 STORIED SSGCL BUILDING, KARACHI

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 321, 000,000/-

Client: Sui Southern Gas Company/ Habib Fida Ali.

PROJECT: SHELL HOUSE, KARACHI.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Client: Pakistan Burma Shell / M/s Habib Fida Ali.

PROJECT: STATELIFE MIRPURKHAS.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits

PROJECT: ABNAMRO BANK, COUNTRY OFFICE KARACHI.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: HAMID ALI CLUB NAWABSHAH.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: NIT HOUSE

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: STATE BANK OF PAKISTAN

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: 22 STORIED HABIB BANK LIMITED KARACHI

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: 17 STORIED BUILDING FOR HABIB BANK LIMITED ISLAMABAD

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: 28 STORIED MCB

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: 5 hundred million

PROJECT: KALSOFT CLIFTON KARACHI

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: CUPOLA CLIFTON KARACHI

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: PERAL DUNE RESIDENCY

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: 4.00 million only

PROJECT: GOLD CREST, 17 TOWERS, 23 to 38 STORIED BUILDING AT ISLAMABAD

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: 16.00 million only

PROJECT: SAIMA ROYAL RESIDENCY, 4 TOWERS GROUND + 20 STORIES BUILDING

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: 8.00 million only

INSTITUTIONS

- PROJECT:** SUPREME COURT OF PAKISTAN, ISLAMABAD.
- Services:** Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.
- Cost:** Rs. 352,000,000/- (for civil work only)
- Client:** Capital Development Authority / Pakistan Environmental Planning and Architectural Consultants Ltd. (PEPAC)
- PROJECT:** INDUS VALLEY SCHOOL OF ART AND ARCHITECTURE, KARACHI.
- Services:** Vetting, structural design, specifications and periodic site visits
- Client:** Indus Valley School of Art and Architecture.
- PROJECT:** GIRLS ACADEMY AND HOSTEL, HUNZA GILGIT AGENCY.
- Services:** Structural analysis and design, specification and top Supervision.
- Cost:** Rs. 100,00,000/- (for civil work only)
- Client:** Aga Khan Housing Board
- PROJECT:** GIRLS ACADEMY AND HOSTEL, CHITRAL.
- Services:** Structural analysis and design, specification & top supervision.
- Client:** Aga Khan Housing Board
- PROJECT:** BOYS ACADEMY AND HOSTEL, CHITRAL.
- Services:** Structural analysis and design, water proofing and insulation details, and site inspection.
- Client:** Aga Khan Housing Board
- PROJECT:** RESEARCH AND DEVELOPMENT FOR CONSTRUCTION OF SELF HELP SCHOOL IN CHITRAL AND NORTHERN AREAS.
- Services:** Research and development of different construction techniques, evaluation of construction procedures, and periodic site visits.
- Cost:** Numerous schools
- Client:** Aga Khan Housing Board
- PROJECT:** THIRD EDUCATION PROJECTS.
- Services:** Structural design, top supervision
- Cost:** Rs. 50 Millions.
- Client:** World Bank

PROJECT: COMMERCIAL HOUSING CONSISTING 259 UNITS

Services: Architecture, Structural design and top supervision

Client: Joint Venture of Hyderabad Development Authority and Hyderabad Builders and Developers, Hyderabad.

PROJECT: BHITAI COPMPLEX AT JAMSHORO ROAD, HYDERABAD

Services: Architecture, Structural design and top supervision

Client: Joint Venture of Hyderabad Development Authority and Hyderabad Builders and Developers, Hyderabad.

PROJECT: MADINA TOWNSHIP 250 UNITS OF 80 SQM

Services: Architecture, Structural design and top supervision

Client: Joint Venture of Hyderabad Development Authority and Hyderabad Builders and Developers, Hyderabad.

PROJECT: LOW COST COMMERCIAL HOUSING FOR K.D.A.

Services: Architecture, Structural design and top supervision

Client: Karachi Development Authority

PROJECT: MARVI GARDENS AT JAMSORO ROAD, HYDERABAD

Services: Architecture, Structural design and top supervision

Client: Joint venture of Hyderabad Development Authority and Hyderabad builders and Developers, Hyderabad.

PROJECT: HEAD OFFICE FOR OXFORD UNIVERSITY KORANGI KARACHI

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Client: Oxford University Press.

PROJECT: SAINT PATRIC CATHDRIAL

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: DIFFERENT BLOCKS FOR DARULULOOM KARACHI

Services: Structural design and top supervision

PROJECT: GULSHAN-E-NOOR, KARACHI.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 6 millions.

PROJECT: 10 STORIED THE FORUM KARACHI.

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

PROJECT: NATIONAL FOODS LTD

Services: Structural analysis and design, specification for soil investigation and civil works, and periodic site visits.

Cost: Rs. 1, 70, 000/-

INSUTRIAL BUILDINGS / PLANTS

- PROJECT:** RICE MILLS AND GODOWNS AT PIPRI, PORT QASIM FOR R. E. C. P.
- Services:** Planning, architectural and structural, quantity surveying and cost estimation, specifications and periodic site visits.
- Cost:** Rs. 90, 000,000/- Millions.
- Client:** Rice Expert Corporation of Pakistan
- PROJECT:** CEMENT SILOS FOR CONSTRUCTION BASE, PAKISTAN STEEL MILLS, PIPRI.
- Services:** Structural analysis and design and periodic site visits.
- Client:** National Engineering Services Pakistan Ltd.
- PROJECT:** EXTENSION OF FACTORY FOR SIEMENS S.I.T.E. KARACHI.
- Services:** Planning, architectural and structural, quantity surveying and cost estimation, specifications and periodic site visits.
- Cost:** Rs. 100, 000,000/-
- Client:** SIEMENS Pakistan Engineering Co. Ltd.
- PROJECT:** GODOWN FOR WELCOME PAKISTAN IN ISLAMABAD AND LAHORE..
- Services:** Structural analysis and design and periodic site visits.
- Cost:** Rs. 12, 000,000/-
- Client:** M/s Azad Thariani
- PROJECT:** FURNITURE FACTORY AT H.I.T.E., BALUCHISTAN.
- Services:** Planning, architectural and structural, quantity surveying and cost estimation, specifications and periodic site visits.
- Cost:** Rs. 5,000,000/-.
- Client:** m/s Charishma Furniture
- PROJECT:** ROCHE PHARMACEUTICAL FACTORY KORANGI, KARACHI.
- Services:** Structural analysis and design and periodic site visits.
- Client:** ROCHE Pharmaceutical Ltd.
- PROJECT:** PAK-POLY INDUSTIRES, H. I. T. E., BALUCHISTAN.
- Services:** Planning, architectural and structural, quantity surveying and cost estimation, specifications and periodic site visits.
- Cost:** Rs. 6, 000,000/-
- Client:** Pak Poly Ltd.

PROJECT: GRUNDFOS FACTORY, H. I. T. E., BALUCHISTAN.

Services: Structural analysis and design periodic site visits.

Cost: Rs. 10,000,000/-

Client: Mr. Tajudding Bhamani

PROJECT: GELATIN CAPSULE FACTORY FOR GALCAPS, H. I. T. E., BALUCHISTAN.

Services: Planning, architectural and structural, quantity surveying and cost estimation. Specification and periodic site visits.

Cost: Rs. 15, 000,000/-

Client: Gelcaps Pakistan Ltd.

PROJECT: DATA TEXTILE, CHUNNIA, LAHORE.

Services: Planning, architectural and structural, quantity surveying and cost estimation. Specification and periodic site visits.

Cost: Rs. 40, 000,000/-

Client: M/s Data Texttile.

PROJECT: PAKWEST PHARMA S.I.T.E. KARACHI.

Services: Planning, architectural and structural, quantity surveying and cost estimation. Specification and periodic site visits.

Client: M/s Pak West.

PROJECT: LAKSON TOBACCO, KORANGI, KARACHI.

Services: Structural analysis and design and periodic site visits.

Cost: Rs. 10, 000,000/-

Client: Siza Services Ltd.

Client: Siza Services Ltd.

PROJECT: HABIB OIL MILLS S.I.T.E Karachi

Services: Structural design and top supervision

PROJECT: ALCATEL ISLAMABAD.

Services: Structural design and top supervision

PROJECT: TOWELEERS KARACHI.

Services: Structural design and top supervision

PROJECT: PAKISTAN METALS INDUSTRIES S.I.T.E KARACHI.

Services: Structural design and top supervision

PORTS AND MARINE STRUCTURES

PROJECT: CHITTAGONG PORT, BANGLADESH JETTIES 1 To 6.*

Services: Redesign of Port washed out in Cyclone.

Client: Chittagong Port Trust

PROJECT: CHALNA PORT OVER RIVER PISUR BANGALDESH.*

Services: Review of Design.

Client: Chalna Port Authority

RECREATION FACILITIES

PROJECT: PIA SQUASH COMPLEX, KARACHI.

Services: Structural analysis and design and periodic site visits.

Cost: Rs. 7,000, 000/-

Client: Pakistan International Airlines.

PROJECT: SPORTS COMPLEX FOR KARACHI PORT TRUST.

Services: Planning architectural and structural design and coordination with other consultants and contractors.

Cost: Rs. 300,000,000/-

Client: Karachi Port Trust.

PROJECT: GYMNASIUM AT SINDH UNIVERSITY, HYDERABAD.

Services: Structural analysis and design using ferro cement roofing panels and top supervision.

Cost: Rs. 4, 300,000/-

Client: Sindh University, Jamshoro

PROJECT: TOURISM COMPEX AT KEENJHAR LAKE KARACHI.

Services: Structural analysis, and design.

Client: M/s Lari Associates

PROJECT: RESTRENGHTENING WORKS AT K.F.C OUTLET ALL OVER PAKISTAN.

Services: Structural design and top supervision

Client: Artal Restaurants.

PROJECT: VARIOUS PROJECT FOR MCDONALDS.

Services: Structural design and top supervision.

Client: Siza Foods.

INTERNATIONAL EXPERIENCE

Principal of Mushtaq and Bilal have undertaken a number of international projects, including the following.

TRAFFIC AND TRANSPORTATION

PROJECT: NEW YORK CITY LAND-BASED SLUDGE MANAGEMENT PLAN.

Services: Preparation of Traffic Impact Statement for Sludge Treatment Sites. Work included traffic data collection and reduction, trip generation and assignment, capacity analysis, public transportation analysis and mitigation measures.

Cost: US \$ 2,500,000,000/-

Client: New York City Department of Environmental Protection, Queens, New York.

PROJECT: I. S. 171, EAST NEW YORK

Services: Traffic Impact Study including traffic data collection and reduction, trip generation and assignment, capacity analysis, public transportation analysis and mitigation measures.

Cost: US \$ 35,000,000/-

Client: New York City School Construction Authority

PROJECT: P. S. 800, SUNSET PARK, BROOKLYN, NEW YORK.

Services: Traffic Impact Study including traffic data collection and reduction, trip generation and assignment, capacity analysis, public transportation and pedestrian analysis and mitigation measures.

Cost: US \$ 35,000,000/-

Client: New York City School Construction Authority.

PROJECT: P. S. 721, OCCUPATIONAL TRAINING CENTER, NEW YORK.

Services: Traffic Impact Study including traffic data collection and reduction, trip generation and assignment, capacity analysis, public transportation and mitigation measures.

Cost: US \$ 42,000,000/-

Client: New York City School Construction Authority

PROJECT: NORTHERN BOULEVARD, QUEENS, NEW YORK.

Duties: Traffic Impact Study including traffic data collection and reduction, trip generation and assignment, capacity analysis, public transportation analysis and mitigation measures.

PROJECT: ROAD SAFETY RESEARCH PROJECTS FOR ILLINOIS DEPARTMENT OF TRANSPORTATION (I DOT).

Duties: Research work included evaluation of cost- effectiveness of roadway and roadside improvement on two lane rural highways in Illinois; and survey of drivers' opinion about traffic control systems in work zone areas.

ENVIRONMENTAL

PROJECT: ROUTE 9A RECONSTRUCTION NEW YORK U.S.A.

Duties: Model Evaluation study for determining traffic-related impact at urban intersections.

HIGH RISE BUILDING

PROJECT: 56-STORIED RIVER PLAZA, CHICAGO, U. S. A.,

Duties: Wind analysis, Structural analysis and engineering design.

PROJECT: 48-STORIED MARRIOT HOTEL, CHICAGO, U.S.A.

Duties: Wind analysis, structural analysis and engineering design.

PORT AND MARINE WORKS

PROJECT: INLAND WATER TRANSPORT JETTY, CHALNA, BANGLADESH.

Duties: Analysis of waterfront structures including fender system for barges upto 1000 tons.

PROJECT: PORT ON RIVER PASSUR, CHALNA, BANGLADESH.

Duties: vetting of design done by yougosianvian consultant

PROJECT: JETTIES 1 TO 6 ON RIVER KURNAPHULI, CHITTAGONG, BANGLADESH.

Duties: Planning, structural design, quantity surveying and cost estimations and site supervision.

SPECIALITY ENGINEERING

PROJECT: U. S. CONSULATE BUILDING, LAHORE.

Services: Investigation of Structural system, preparation of as built drawings, and strength evaluation existing structure.

Client: U.S. consulate office, Lahore

PROJECT: AZAYAM PLAZA, KARACHI.

Services: Strengthening of existing building by introducing shear walls to account for seismic shaking.

Client: M/s Ziauddin Pathan & co.

PROJECT: SMITHKLINE BEECHAM WARE HOUSE

Services: Load testing of beams and slabs and measurement of deflections to evaluate load carrying capacity of structure system.

Cost: Rs. 1,500,000/-

Client: SmithKline Beecham, Pakistan

PROJECT: NATIONAL PRESS HOUSE, KARACHI.

Services: Vetting of remedial measures suggested by NESPAK for fire damage of the building, re-establishing criteria, and redesigning strengthening measures.

Cost: Rs. 2,500,000/-

Client: Army Welfare Trust.

SANITARY AND WATER RETAINING STRUCTURES

- PROJECT:** SEWERAGE TREATMENT PLANT AT GUJRAWALA.
- Services:** Structural analysis and design and periodic site inspection
- Client:** M/s Duncan & Stration Limited.
- PROJECT:** 40,000 GALLONS CUP- SHADED OVERHEAD WATER TANKS FOR K.P.T. KARACHI.
- Services:** Planning architectural and structural design, quantity surveying and cost estimation, specifications and periodic site visits.
- Client:** Karachi Port Trust.
- PROJECT:** 150,000 GALLONS OVERHEAD WATER TANK FOR TANDOJAM AGRICULTURAL UNIVERSITY, TANDOJAM.
- Services:** Structural analysis and design and periodic site inspection
- Client:** Agricultural University Tandojam.
- PROJECT:** 500,000-GALLON U. G. WATER TANK FOR PEARL CONTINENTAL HOTEL AT BHOORBUN.
- Services:** Structural analysis and design and periodic site inspection
- Cost:** Rs. 50,000,000/-
- Client:** Pakistan Services Ltd.
- PROJECT:** 450,000 GALLONS U.G. WATER TANK FOR PEARL CONTINENTAL HOTEL AT LAHORE.
- Services:** Structural analysis and design and periodic site inspection
- Cost:** Rs. 50, 000, 000/-
- Client:** Pakistan Services Ltd.
- PROJECT:** 25-M.G.D. PUMPING STATION FOR K.D.A., KARACHI.
- Services:** Structural analysis and design and periodic site inspection
- Client:** Karachi Development Authority
- PROJECT:** AVARI HOTEL, ISLAMABAD (BUILDUP AREA AROUND 600,000 SFT.)
- Services:** Structural analysis and design and periodic site inspection
- Client:** M/s Avari Hotels Limited,
- PROJECT:** 31 STORIED SOFITEL HOTEL, KARACHI
- Services:** Structural analysis and design and periodic site inspection
- Client:** M/s Triple Tree Associates

Resume of Key Personal

MUSHTAQ H. DAWOOD, P. E.
Principal Engineer, Mushtaq & Bilal,
Consulting Engineers

Qualifications

M. Engg. (Structures) 1968, AIT, Bangkok, Thailand
B. E. (Civil) 1965, N.E.D. University of Engineering & Technology, Karachi.
B.Sc., 1961, University of Karachi, Karachi.

Career Profile

Principal, Mushtaq & Bilal, since 1975
Structural Engineer (1965-1975)
Frederic R. Harris Inc., USA
Cohen-Barreto-Marchartas Inc. Chicago, USA
Pakistan Techno-Consult, Karachi
Karachi Port Trust

Work Experience

During first ten years after graduating in 1965, Mr. Dawood worked with foreign consulting engineering firms including M/s Frederic R. Harris Inc. and M/s Cohen-Barreto-Marchartas Inc., of USA. Since 1975, he has been one of the principals of M/s Mushtaq and Bilal and has been one of the principals of M/s Mushtaq and Bilal and has been involved in the structural design building bridges, highways, marine structures; preparation of feasibility studies; and vetting and review of various technical works. He has been actively involved in structural rehabilitation and conservation of historical buildings. Some of the notable projects include:

Retail, Commercial & Mixed Use Developments

- Chahar Bagh, Grand hayatt, Islamabad, Pakistan.
- Dolmen City, Karachi, Pakistan.
- The Ocean Mall, Karachi, Pakistan.
- Lucky One, Karachi, Pakistan.
- Zayed Centre Lahore, Pakistan.
- Al;-Fatah Mall, Lahore, Pakistan.
- Arif Habib Investment, Head Office, Karachi, Pakistan.
- Packages Mall, Lahore, Pakistan.
- Orchid Tower, Karachi.
- Opal-225, Bahria Town, Karachi.

Education

- Karonga Earthquake Damage Assessment and Reconstruction guidelines for recovery of damaged schools in Malawi, Africa for World Bank.
- Investigation & strengthening of initial campus buildings for University of Central Asia (UCA) in Tajikistan, Kyrgyzstan and Kazakhstan for seismic resistance.
- Proposed 1.8 Million sq. ft. of faculty of Arts & Sciences, Aga Khan University, Karachi, Pakistan.
- Aga Khan high School, OSH, Kyrgyzstan

- Strengthening of 130 years old Karachi Grammar School, Karachi, Pakistan.
- Rehabilitation of 110 years old D.J. Science College, Karachi, Pakistan.
- Seismic strengthening of Shah Karim Hostel, Gilgit for Aga Khan Education Services Pakistan.
- Under construction King Abdullah Universities at Muzaffarabad and Rawalakot, Azad Kashmir.
- Capacity evaluation of existing Mehnaz Fatima School, Gilgit.
- Design of Convention Centre at University of Karachi, Karachi.

Health Care

- Two storied Bamyan Provincial Hospital, Bamyan Afghanistan,
- Five storied AKU New Private Wing Building, Karachi, Pakistan.
- 12 storeys Pakistan Kidney & Liver Institute Lahore.
- Aga Khan University Hospital, Karachi Pakistan.
- Nazerali Walji Ambulatory Care Building, Aga Khan University Hospital, Karachi, Pakistan.
- Khimji Building for Cardiac Services, Aga Khan University Hospital, Karachi, Pakistan.
- Strengthening of Janbai Kassum Valli Khoja Ismailia Maternity Home, Karachi, Pakistan.
- Strengthening of AKU Secondary Hospitals in Karachi & Hyderabad, Pakistan.
- Strengthening of Gilgit Medical Center, Gilgit, Pakistan.
- Recep Tayyip Erdogan Hospital (RTEH), Muzaffargarh, Pakistan.
- Rehman College of Dentistry Peshawar, Pakistan (10 storied building under Construction).
- Indus Hospital, Karachi.
- SIUT Children and Cardiac Hospital, Karachi, Pakistan. (14 storied building under Construction).

Strengthening of Historical buildings

- Restoration of roof of Sheesh Mahal built in 1632 at Shahi Fort, Lahore, Pakistan, for UNESCO
- Relocation of about 100-years old Nasserwanjee Building from MW Towers to Clifton, Karachi, Pakistan.
- Rehabilitation of 125 years old St. Patrick's Cathedral, Karachi, Pakistan.
- Strengthening of Mohatta Palace, Karachi, Pakistan.
- Rehabilitation of Khaliq Dina Hall, Karachi, Pakistan.
- Rehabilitation of fire damage NPT Building, Karachi, Pakistan.

Office Building

- Supreme Court Building, Islamabad, Pakistan, for Kenzo Tange/PEPAC.
- Retrofitting of roof structure of old US Embassy in Karachi Pakistan.
- 30 and 26 storied office buildings at Arbil, Iraq.
- 26 storied CenterPoint, Karachi, Pakistan
- 26 storied building for the Private Office of the Crown Prince, Abu Dhabi, UAE.

- 23+3 basement building for M/s EPICO at Abu Dhabi, UAE.
- 24 storied MCB Tower, Karachi, Pakistan.
- MCB Data Center, Lahore, Pakistan.
- 3 Storeys Margalla Building for Telenor, Islamabad.
- 22 storied building for HE Sheikh Mubarak Mohd Al Nahyan at Abu Dhabi, UAE.
- 20 storied Bahrain Chambers of Commerce & Industry Building, Bahrain.
- 20 storied SAPICO Head Office Building, Islamabad, Pakistan.
- 18 storied building for Sh. Khalifa Bin Zaid al Nahyan at Abu Dhabi, UAE.
- 18 storied building for Mr. Qubaisi at Abu Dhabi, UAE.
- 18 storied Ruffi Towers, Dubai, UAE.
- 17 storied PIC Building, Karachi, Pakistan.
- 16 storied Nacon House, Karachi, Pakistan.
- 15 storied building for Mr. Qamzi, Abu Dhabi, UAE.
- 12 storied SNGPL Building Lahore, Pakistan.
- Rehabilitation of 9 storied office building at Ashgabad, Turkmenistan.
- Rehabilitation of fire damaged PNSC Building, Karachi Pakistan.
- Seismic resistance survey for 25-RBS Bank branched all over Pakistan.

Hospitality

- Grand Hyatt Hotel, Islamabad, Pakistan.
- EOBI Hotel, Lahore, Pakistan.
- Serena Hotel, Faisalabad, Pakistan.
- Serena Hotel, Quetta, Pakistan.
- JWT Marriot, Lahore, Pakistan.
- Inter-Continental Hotel, Islamabad Pakistan,
- Pearl Continental Hotel, Pakistan Services Limited, Gwadar Pakistan.
- Pearl Continental Hotel, Pakistan Services Limited, Lahore, Pakistan.
- Pearl Continental Hotel Bhoorbun, Pakistan Services Limited, Muree, Pakistan.
- Strengthening of Pearl Continental Hotel, Pakistan Services Limited, Muzaffarabad, Pakistan.
- Strengthening of bomb blast damaged Pearl Continental Hotel, Pakistan Services Limited, Peshawar, Pakistan,
- Rehabilitation of Marriott Hotel, Islamabad, Hashwani Hotels Limited, Islamabad, Pakistan.
- Liwa's Suites, Abu Dhabi, UAE.
- Extension of Gulf Hotel, Muscat, Oman.
- Hotel Midway, Karachi, Pakistan.
- 56-storied River Plaza, Chicago, USA (during employment).
- 48-storied Marriott, hotel, Chicago, USA (during employment).
- 6 storeys Crown Plaza Hotel, USA.
- 70 storeys Bahria ICON Complex Karachi
- 40 storeys Opal-225, Bahria Town, Karachi.
- Orient Square (Movenpick) Lahore at design stage.

Industries

- Major extension at Indus Motors Co., producing Toyota cars at Karachi, Pakistan.
- Two factories for Al Abid Textile Mills, Karachi, Pakistan.
- 5-level Liberty Textile Mills, Karachi, Pakistan.
- 3-level workshop and showroom, for BMW Abu Dhabi, UAE.
- Extension of LU-Biscuit Factory, Sukkur, Pakistan.
- Rice Mills and Godowns at Pipri, Port Qasim for R.E.C.P., Pakistan.
- Rice Mills & ware house at Hawks bay, Karachi, Pakistan.
- Suzuki Showroom & workshop, Main National Highway, Karachi, Pakistan.
- Pioneer Cement Head Office, Gulberg Lahore.

Residential

- Palace of H.H Shk. Abdul Rahman Bin Khalid Thani at Doha, Qatar.
- TCF Houses for Earth Quick Relief, Northern Area.
- Sukh Chayn Residency, Islamabad.
- Naya Nazimabad, Karachi, Pakistan
- Gulshan-e-Noor Low Income Housing, The Aga Khan Ismailia Charitable Trust, Karachi, Pakistan.
- Allahwallah Township Low incoming Housing, Korangi, Karachi Pakistan
- Design of 8 storied 3 & 4 bed apartments for Bahria Town Karachi, Pakistan.
- Golf Course House, Aftab Residency at Bahria Town, Super Highway, Karachi.
- The Arkadian Towers F&G, Creek View, Creek Terraces, DHA, Karachi.
- HKC, Karachi (32 floors & 1 basement).

Miscellaneous

- Benazir Bhutto International Airport, Islamabad, Pakistan.
- Hanger for AKDN at Islamabad Airport.
- Design of 3000 ft. long jetties 1 to 6 on River Karnaphuli, Bangladesh.
- Vetting of design of Chalna Port on River Pasur, Bangladesh.
- Inland water jetty on River Pasur, Chalna, Bangladesh.
- National Monument complex, Islamabad.
- Rafi Cricket Stadium, Bahria Town, Super, Highway, Karachi.

Feasibility Studies / Strength Assessment Projects:

- ★ Pre-feasibility and cost estimate for an alternate alignment of Lyari River Expressway, Karachi.
- ★ Strengthening of foundation of Malir River Bridge on national Highway near Karachi.
- ★ Strength Evaluation of U.S. Consulate Building, Lahore.
- ★ Structural Assessment of fire damage NPT Building, Karachi.

- ★ Structural condition assessment of SmithKline Beecham building, Karachi.
- ★ Preliminary planning of Port Qasim., Karachi.

Principal

Mushatq & Bilal, consulting Engineers, since 1975. Directed and managed the analysis design and inspection for several of the firm's notable projects in Pakistan.

Professional Affiliations

- ★ Member, Pakistan Engineering Council
- ★ Member, Institute of Engineers
- ★ Member, Association of consulting Engineers, Pakistan
- ★ Member American Concrete Institute
- ★ Member American Society of Civil Engineers

Publication

- ★ Co-author of the book entitled "**Seismic Zoning of Karachi and Recommendations for the seismic Design of Building**" Published by, ACEP & KBCA, Karachi.
- ★ "**Use of Ferro-cement Panels In Large Span Roofing System**"
- ★ Published in July 1992 issue of the journal of Ferro-cement, IFIC, Bangkok
- ★ "**Use of Multi-Purpose Reinforcing bars in Folded Plate Structures**" published by the Asian Institute of Technology, Bangkok,
- ★ Seismic Strengthening of SK hostel building in Gilgit for FIB conference in Athens May 2003
- ★ "**Earthquake and its Significance for Pakistan**" published in the Engineering Review, 1981.
- ★ **Perils of Earthquake**, in millennium issue of ACECOMS,

Seminar / Conferences

Participate and attend conferences and seminars of American Concrete institute at Bangkok, Hong Kong, Dundee and Seoul and FIDIC conference at china.

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 Consulting Engineers
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 Karachi-75350, Pakistan
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 Dir, 9221-3453-9561, (cell) 92-333-214-9825
 E-mail: mushtaqdawood@mushtaqandbilal.com

MUHAMMAD NAJAM BILAL
Principal Engineer, Mushtaq & Bilal,
Consulting Engineers

Qualifications

B. E. (Civil), NED University of Engineering & Technology

Career Profile

M. Najam Bilal, P.E. is a principal of the firm, working since 1965 in planning and structural design of commercial and residential building, factories roads and bridges supervision of heavy construction and industrial projects. He provides expertise in contract preparation and management, progress monitoring, quality control, and liaison with Government agencies, local and international consultants and contractors.

Work Experience

Mr. Bilal has directed and/or performed planning, analysis design and supervision for several multistoried commercial and residential building and factories some of his notable projects include:

- Avari Hotels Islamabad, buildup area of around 600,000 sft.
- 27 stories Crescent Bay, Karachi, Pakistan different Plots having area around 1 million sft.
- Under Construction 17 storied Pearl Dune, Karachi, Pakistan, Covered area 800,000 sft.
- Under construction 4 Storied Jinnah Shopping Mall, Quetta, Pakistan.
- Under Construction 19 Storied Silk Mall, Karachi. Pakistan.
- Under Constrction 28 Storied Form Residency, Karachi, Pakistan
- Under Construction 16 Stories AMMA Tower Karachi, Pakistan
- Under Construction 15 Stories Bismillah Tower Karachi, Pakistan
- Under Construction 11 Stories Business Core, Karachi, Pakistan
- Factory for National Foods Industries Covered Area 400,000 Sq. ft.
- Gowdons for Chawal Industries Covered Area 500,000 sq. ft.
- Mosque at Darul uloom Karachi Covered Area 350,000 sq.ft.
- Cecil Hotel and Resort, Murree, Pakistan
- 12 Stories Faysal Bank Head Office, Karachi, Pakistan
- 24- Storied Habib Bank Plaza, Karachi
- RECP rice cleaning mills, Karachi, Pakistan
- Third education projects for world bank at 7 different sites in Sindh Pakistan
- 20 stories Habib Bank Building at Islamabad
- 17 Stories PIC Building at Karachi, Pakistan

- 20 Stories SAPICO Head office Building at Islamabad
- 16 Stories Nacon House at Karachi, Pakistan
- 12 Stories Building for SNGPL, Lahore, Pakistan
- 10 stories Building for SSGL, Karachi, Pakistan
- Pakistan Metals Industries
- 100 bed Behmani Hospital, Karachi Pakistan
- 13 stories PIC Building, Karachi, Pakistan
- Auditorium and Library Complex, Peshawar, Pakistan
- Foreign Office Building, Islamabad Pakistan
- Sewage Treatment Plant at Gujrawala, Pakistan
- 219 flats Bhitai Complex Hyderabad, Pakistan
- Sindh Achieves Building for Government of Sindh, Karachi, Pakistan
- Hunting Lodge for H. R. H. Sheikh Zaid Bin Sultan Al-Nahiyani at Mirpur Khas
- The Forum Clifton
- Pak Petro Chemicals Industries
- Pakistan Metals Industries
- McDonald Restaurants at Karachi & Hyderabad
- Power House at Rahimyar Khan
- Bowling Alley Club Defence Karachi
- Head Office for Oxford University Press at Korangi Karachi.
- Towelers Factory Karachi
- Hamid Ali Club Nawabshah
- Head Office for SSGCL
- Hotel Galaxy Karachi
- Fiat car Shop Landhi Karachi
- Gulashan-e-Noor Karachi
- Foundation Public School Hyderabad
- Mall Square
- Shell House
- State Life Mirpur Khas
- Habib Oils Mills
- Faisal Bank Limited Karachi
- Habib Bank Limited
- Abdullah Sports Complex, Hyderabad, Pakistan
- Artistic denim Mills, Karachi, Pakistan
- Artistic Fabric Unit-2, Karachi Pakistan
- Bahria Town Tower, Karachi, Pakistan
- Brent Wood Apartment, Karachi, Pakistan
- Building Com-I at Clifton Karachi, Pakistan
- Boundary wall for Mr. Askani at Gawader, Balochistan, Pakistan
- 19 stories Central Tower at Clifton, Karachi, Pakistan
- 38 stories Imperium Hospitality, Karachi, Pakistan
- 15 Stories Emporium Mall, Lahore, Pakistan
- 16 stories Silver Sand Tower, Karachi, Pakistan
- Falcon Mall (PAF) Karachi, Pakistan
- Rajby Industries, Karachi, Pakistan
- Treatment Plant for Rajby Industries, Karachi Pakistan
- Denim International Landhi, Karachi, Pakistan
- Denim International Korangi, Karachi, Pakistan
- Denim International port Qasim
- Elahi Group Korangi Industrial Area, Karachi
- Express Studio Korangi, Karachi, Pakistan
- Express News Head office (Printek) Karachi, Pakistan
- Proposed Meezan Bank Building, Islamabad, Pakistan

- Pakistan Packages Corrugation Plant at Karachi Pakistan.
- Marquee Avari Hotel, Lahore, Pakistan.
- Residential Development at Gulberg III, Lahore, Pakistan
- Remodeling & Additional Floor in Old Nishat Hotel, Pakistan
- Factory National Foods Industries Karachi Pakistan
- Factory National Foods Industries Nooriabad Karachi Pakistan
- Factory National Foods Salt Plant, Nooriabad Karachi Pakistan
- National Foods New Grinding Block at Port Qasim, Karachi, Pakistan
- KIA Lucky Motors Pakistan Limited, Karachi Pakistan
- Master Motors Display & Workshop at Korangi, Karachi, Pakistan
- Master Motors Lahore 300 T press Foundation, Lahore, Pakistan
- Soorty Sky Light, Karachi Pakistan
- Under Construction 20 stories Penta Square D.H.A, Lahore Pakistan.
- Under Construction Oyster Court D.H.A, Lahore Pakistan
- Plastic Plant for Jalil Packaging at Korangi, Karachi Pakistan
- Under Construction 20 stories Elysium Tower Islamabad, Pakistan
- Al-Rahim Textile Mills, Karachi Pakistan
- Under Construction Mont Vista, Karachi, Pakistan
- Saima Comfort, Karachi Pakistan
- Iqra University North Compus, Karachi, Pakistan
- Ghulam Nabi Moral Hyderabad, Pakistan
- Hi Rise Colachi Housing Cooperative Society Karachi, Pakistan
- IBA School, Sukkur, Pakistan
- IBA Girls Hostel, Sukkur, Pakistan
- Soorty Green Factory, Karachi, Pakistan
- Sukkur Beverages Sukkur, Pakistan
- Hospital Nusrat Chughtai, Clifton Dental Collage Roof Truss, Karachi, Pakistan
- Office Building for Matrix Pharma, Karachi Pakistan
- Under construction 2.6 million sq. ft Emporium Mall Lahore, Pakistan
- Warehouse for Dr. Iqbal, Port Qasim
- Warehouse for Ghazi Brothers, Port Qasim
- Mall at Hyderabad, Pakistan
- Signature Tower Hyderabad, Pakistan
- SLIC Building Karachi
- Saima Liberty at Allama Iqbal Road, Karachi, Pakistan
- Saima Luxria Building at Khalid Bin Waleed road, Karachi
- Sewage Treatment Plant at DHA, Karachi, Pakistan
- Bukshi Builders Commercial / Residential Building plot # 19-A, Block 6, PECHS, Karachi
- National Foods Conical Mixture / Locker / Change Room at Port Qasim, Pakistan
- AG GIGI (Pvt.) Ltd Building at Korangi, Karachi

As a Principal in charge and Project Director, performed the design of road and bridges in the province of Sindh and Punjab. These include:

- 220 feet long Bridge on Rohri Canal @ RD 786, Pakistan
- 200 feet long Bridge on Nara Canal @ RD 96-97, Pakistan
- 150 feet long Bridge on Rohri canal @RD 951, Pakistan
- Bridge on Phullei Canal @ Matli By-pass Measuring 222 feet, Pakistan
- 60 feet long Bridge on Khipro Canal @ RD 248, Pakistan
- Bridge over Dhoro Puran along Naokot to Mithi Road at mile 0/4-5, Pakistan
- Bridge Over Guni Wah on Kairo Ganhwar Road mile 5/1-1, Pakistan
- Bridge over Re-lined Nara Canal RD 85, Pakistan
- λ Bridge over Re-lined Nara Canal RD 76, Pakistan
- Bridge Over Re-lined Nara Canal RD 96, Pakistan
- Rs. 20 million pre-stressed concrete bridge over river Kabul at Nowshera, Pakistan
- Internal roads for Madina Town, Hyderabad, Pakistan
- 75 RFT Pre-stressed Bridge at Gaja Wah, Pakistan
- Re-decking of Slab 210 RFT Badah Town Bridge over Rise Canal, Pakistan
- 120 RFT Nasir Canal RD-174 Bashirabad Mir Wah RD Pakistan
- Abdul Salam Tahaeem Fly over Bridge at shahdad Pur over Jatia Phattak Part A- 1000 RFT RD Part-B 1600 RFT RD, Pakistan
- Dadu Canal RD-182 Near Village Rahuja & Pir Muhammad Dadu Canal

Before co-founding the firm, Mr. Bilal was a Structural engineer with National Engineering Services of Pakistan (NESPAK) where his responsibilities included design and supervision of Construction Base of Pakistan Steel Mills and Master Planning for Port Qasim and other projects.

Mr. Bilal has also worked as a structural design engineer with M/s Omar Munshi and M/s Engineering consultants, Where he was primarily involved in the analysis and design of muti storied, complexes and bridges.

Professional Affiliations

Member, Institute of Engineers Pakistan
Member, Association of Consulting Structural Engineers
Member, American Concrete Institute
Member, Pakistan Engineering Council

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**Muhammad Anis Bilal P.E. Associate Partner &
Sr. Structural Engineer, Mushtaq & Bilal, Consulting Engineer**

Qualification

M. Sc. (Structures) (1999)
NED University of Engineering & Technology,
Karachi.

Professional affiliation

Member American Society of Civil
Engineers, (ASCE) Member, Pakistan
Engineering Council

Work experience

MUSHTAQ & BILAL Consulting
Engineers, Karachi, Pakistan.
Aug 1995 to date

Working as a Senior Structural Engineer ,Description of Duties Participating in the **vetting and design** of High-rise residential and commercial buildings, industrials buildings, factories, hotels, schools, houses, hospitals, water tanks, reservoirs, sheds, signs towers, bridges, shells etc. made with R.C.C., Structural steel, Pre-cast, Load bearing and Pre-stressed concrete. Structures are located all over Pakistan, Abu Dhabi and Saudi Arabia.

- Gulberg Green Aurum Heights Islamabad, Pakistan
- Pak Qatar Takaful, Islamabad Pakistan
- Avari Hotels Islamabad, Pakistan
- DHA Mall of Bahawalpur, Pakistan
- Honda Creek Dealership, Karachi, Pakistan
- House of Habib, Karachi, Pakistan
- 15 stories Emporium Mall, Lahore, Pakistan
- 19 storied Central Tower Clifton, Karachi
- Gold Crest Mall & Residency, Lahore
- Elysium Tower Islamabad
- 16 stories Silver Sand Tower, Karachi, Pakistan
- Falcon Mall, (PAF) Karachi, Pakistan
- Rajby Industries, Karachi, Pakistan
- Treatment Plant for Rajby Industries, Karachi, Pakistan
- Denim International Landhi, Karachi, Pakistan
- Denim International Korangi, Karachi, Pakistan
- Denim International Port Qasim
- Elahi Group Korangi Industrial Area, Karachi
- Express Studio Korangi, Karachi, Pakistan
- Express News Head Office (Printek) Karachi, Pakistan
- Proposed Meezan Bank Building, Islamabad, Pakistan.
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- Residential Development Naveena N-31 at Gulberg III, Lahore, Pakistan
- Remodeling & Additional Floor in Old Nishat Hotel, Pakistan
- Master Motor Corporation Limited, Bin Qasim, Karachi

- Master Motor Display & Workshop at Korangi, Karachi, Pakistan
- KIA Lucky Motors Pakistan Limited, Karachi Pakistan
- Master Motors Lahore 300 T press Foundation, Lahore, Pakistan
- Young's Foods (Pvt.) Limited
- Soorty New Warehouse Building, Karachi, Pakistan
- Soorty Enterprises Unit-14, Karachi, Pakistan
- Proposed 350 Bed H. E Sheikh Khalifa Hospital, Islamabad, Pakistan
- Under construction 25 stories Avari Hotels, Islamabad
- 13 Stories Nishat Hotel, Lahore, Pakistan.
- Proposed 38 storied FI-12 building at Clifton, Karachi
- 16 Stories Building for H.H. Atiq Al-Qumzi in Abu Dhabi
- 16 Storied 3 Residential towers for Bismillah Builders at Karachi.
- 15 Stories Amma Towers residential cum commercial building at Karachi.
- Proposed 2B + G + 14 storied Building for Ali Garah University old boys union at Karachi
- 12 stories Hotel Galaxy (now Day inn), Karachi.
- Central Hall of Mosque at Daruloom Korangi Karachi having 21,000 sqft area any column.
- Extension in Ziauddin Hospital at Karachi
- Shell Roofs of Factory for Chawala Industry at Karachi
- Proposed Golf Club at Muree for Bahria foundation on high seismic zone.
- Foundation Public School, Karachi,
- Pakistan Metal Industries, Karachi
- Gulshan-e-Noor Housing colony, Karachi.
- Pillar Complex, Gulshan-e-Maymar, Karachi.
- Pre-cast RCC Truss, Karachi.
- Residence for Mr.Hashwani, Islamabad.
- Villas for Khalifa Al-Meheiri, Abu Dhabi.
- Factory for National Foods Industry
- Additional building in Habib Public School.
- McDonald's Restaurant at Clifton Beach, Karachi.
- Different size signage pole for McDonald's.
- Food Court at Forum Karachi
- Oxford University Press Building at Bin Qasim
- Roads for Mr. Bhagwan Das Ware House at Howksbay Karachi
- Factory for Dawn Bread Karachi
- Aqua Duct over rice canal
- Saima Royal Residency, Karachi

Bridges

- 1230 feet long bridge link road from Malir 15 to Murad Memon Goth
- 1000 Rft Prestressed Bridge at Shahdadpur, Sindh
- 200 RFT Mile 10/0 along Sehwan Jhangra Road Taluka Sehwan.
- 300 feet Bridge over Pat feeder canal at Kashmor
- 250 RFT pre-stressed RD Bridge at Badin

- 240 RFT Bridge at L.B.O.D Spinal Drain RD at Badin, Sindh
- 120 feet long Naseer Canal at Tando Allahyar
- 100 feet pre-stressed Bridge at Mirpur Bathoro
- 100 feet pre-stressed Bridge along Juhi to Chinni
- 700 feet long bridge opposite Fariabad
- 650 feet long bridge at Jhanghara mile 9/0-10/0
- 480 feet long bridge over Nara Canal Rs.273-274
- 300 feet long bridge skewed bridge over rice Canal Rs-72
- Rehabilitation K B feeder Bridge at Hyderabad
- 300 feet long bridge at Pinyari Feeder Hyderabad
- 500 feet long pre-stressed bridge at Juhi

Additional Experience:

- On deputation work in M/s Consult Al Khobar, Saudi Arabia for their Al Khafgi Housing Colony.
- 4 day Training work shop on Bridge engineering recent innovation in National University Science and Technology, Islamabad.
- 5 day training course in NED University of Engg. & Tech., Karachi in Seismic analysis in Council of works and housing Research, Karachi
- 10 day training in finite element analysis in Council of works and Housing Research, Karachi.

Expertise:

- Codes of practice are ACI-318, UBC-97 ANSI & AISC
- Used numerous application software on structural analysis computer aided design, and word processing that are being used universally. Like SAP, ETABS, SAFE, MICROPEAP, P-FRAME, ADOSS, PCACOL, etc.
- Good working experience of checking structural drawings, RCC and structural steel.
- **Top Supervision** to over all staff members in all the Projects.
- Enough experience of working as a **Team Leader** and managing the large projects from design to supervision.
- Preparation of Bill of Quantities (B.O.Q).
- Enough experience of dealing with Clients, Architects, Contractors and MEP Consultants.
- Site Visits of all projects all over country mentioned above for checking of quality of work, steel/form work/materials etc. as per design/drawings and specification.

Address:

Mushtaq & Bilal,
Consulting Engineers
 304, Noor Estate,
 Sharae Faisal,
 Karachi-75350, Pakistan
 Tel. 9221-34554153, 34554253-34559433
 E-mail: mail@mushtaqandbilal.com.pk

AMBER PERVEEN,
Senior Design Engineer, Mushtaq & Bilal Consulting Engineer.

Qualification

Bachelor of Engineering (Civil, 2000),
N.E.D. University of Engineering & Technology, Karachi,
Pakistan

Masters of Computer Science (MCS, 2002)
University of Karachi, Pakistan

Professional affiliation

Member, Pakistan Engineering Council (P.E.C.).

Work experience

2002 To 2004

**Associates with Teaching in Bahria University and
Sir Syed Girls College**
Karachi, Pakistan.

2004 To 2008 (Structural Design Engineer)
CONSULT-TECH
Karachi, Pakistan

2008 To 2014 (Structural Design Engineer)
ALLIANCE CONSULTANT
Karachi, Pakistan

March 2014 Till date
MUSHTAQ AND BILAL
Consulting Engineers,
Karachi, Pakistan.

Experience on Major projects:

Analysis Design and Drawings of

- 40 Storeyed Commercial Building at Clifton
- 16 Storeyed Dawood Investment Bank at I. I. Chandigarh Road, Karachi, Pakistan
- 20 Storeyed Residential Building at Clifton, Karachi
- DHA Boys Hostel, Karachi
- Overhead Crossing Steel Bridge for 42" dia Suigas Pipe Line at Bin Qasim
- Metro Cash & Carry Lahore
- Super Structure of Kinara Restaurant at Main Clifton
- Residential Multi-Storeyed Building for Railway's Employees at Race Course and Reti Line Karachi
- A O Level School Steel Bridge at DHA, Karachi
- 10 Storeyed Residential Building on Plot No. FL-22 Gulshan-e-Maymar
- Expansion of Filter Plant by Construction of Two MGD Clarification and Allied Work.
- Anchor Wall for Zero Point Interchange at Islamabad.

- 20 Storeyed Vincy Shopping Mall and Residency at Clifton
- 10 Storeyed Commercial Building on Plot No. 63 Bank Road Rawalpindi Cantt. (Rania Mall)
- 13 Storeyed Jama Mall & Residency in Karachi
- Vetting of Sofitel Tower at Clifton Karachi (32 Storeyed).
- Vetting of proposed building on plot no Com-3 Block 6 Clifton, Karachi (39 Storeyed)
- Emaar Banglows.
- 20 Storeyed Lingum Tower in Islamabad.
- 32 Storeyed CVCT Tower- A at Clifton
- AKU Grid Station (132 KVA)
- Habib University City Campus, Karachi.
- Post tensioned slabs of Plot # 5 Clifton (Crescent Bay, Karachi.)

Codes: Standards, Specification

ACI – UBC – AISC

Computer Expertise

- Used numerous application software like SAP, ETABS, SAFE, MICROFEAP, PCACOL etc.

Seminar and Conference

- Workshop on Latest Earthquake Development at NED University, Karachi
- Various Seminars on Structural Design in Karachi.

Mushtaq & Bilal Consulting Engineers

304, Noor Estate,

Sharae Faisal,

Karachi-75350, Pakistan

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E-mail: mail@mushtaqandbilal.com.pk

HAFIZ MUDASSIR MEHMOOD
Structural Engineer, Mushtaq & Bilal Consulting Engineer.

Qualification

Bachelor of Engineering
N.E.D. University of Engineering & Technology,
Karachi, Pakistan

Professional affiliation

Register Pakistan Engineering Council (P.E.C.).

Work experience

MUSHTAQ & BILAL
Consulting Engineers,
Karachi, Pakistan.
Dec 2010 to date

Experience on Major projects:

Analysis Design and Drawings of

- Working as a Structural Engineer, Participating in the **design** of High-rise residential and commercial buildings, schools, Mosques, houses, water tanks and retaining walls etc., made with R.C.C. Structures are located all over Pakistan.
- Had worked on the following projects in individual capacity as well as jointly as a design team member.
- Designing of residential & commercial buildings and residential houses including modeling with the softwares, Which include projects like:
- **RESIDENTIAL BANGLOWS:**
- Residence for Mr.Yaqoob karim at Defence Karachi, Dharejo house in defence Karachi, Residence for Mr.Tauqeer Dawood & Mr.Umair Dawood.(Plot No.C-51, Meer Nawaz Khan Maree Road, KDA-1, Karachi), Residence for Mr.Israr Sharif at defence Karachi, Residence for Mrs.Naheed in defence Karachi. Farm House for Mr.sultan Lakhani. (Plot # 64 Orchard Scheme Muree Road).

Residence for Mr.Shayan Akber Ali (basement+2) floors at Clifton Karachi, Residence for .Hussain Talpur in defence Karachi. Residence for Shazia & Abid Zubery (Basement +2), Karachi, Residence for Dr.S.F.A.RAFEEQI (NEDUET) in North Nazimabad, Karachi. DIL foundation School, located at Orangi Town, Karachi.

MOSQUES:

- Masjid-e-Quba at Gulshane Iqbal, Karachi.
- Masjid & Madarsae Jamia Farooqia at Hub, Balochistan.

COMMERCIAL & RESIDENTIAL BUILDINGS:

- Imperial Tile Plus Commercial & Office building (Basement+ground+4) at Defence, Karachi. The Chawla Floor Mills located at Karachi. The Nishat Expo Hotel and Shopping Centre, The Emporium Mall Lahore, includes (3Basements+Ground+12 Stories), the analysis & designing of the project involves the group of Engineers who are working combinedly on the structure of the building. The Static & dynamic analysis have been done for this irregular shape building. Torsional, vertical & horizontal irregularities have been performed in the analysis. Residential Apartments (Ground+4 stories) for Bukhshi Builders in GARDEN EAST. Residential & Commercial building for Mr.Ghulam Nabi Morai located at Qasimabad, Hyderabad. (Basement+ground+11 stories).
- Also worked on the designing of Pile foundation and Shell Structures using SAFE & SAP.
- Site supervision have been done as a Structural Engineer and checked the reinforcement of columns, beams, slabs and form work/materials as per design/drawings and specifications.
- Used different application softwares on structural analysis, computer aided design, and word processing that are being used universally like SAP, ETABS, SAFE, PCACOL, GRASP etc.
- Job responsibilities includes structural analysis and design but are not limited to design of structures (R.C.C. and Steel), but also schematic and conceptual layouts, estimation and supervision of draftsmen for the production of construction drawings and coordination work with other disciplines.

Good working experience of checking Structural drawings, RCC and structural steel.

Codes: Standards, Specification

Codes of practice are ACI-318-99, UBC-'97.

Computer Expertise

- Microsoft office, which includes word, Excel and power point
- Windows 2000, XP, 2007.
- ETABS (Software)
- SAFE
- GRASP
- PCACOL
- SAP

Address:

Mushtaq & Bilal Consulting Engineers
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Sharae Faisal,
Karachi-75350, Pakistan
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E-mail: mail@mushtaqandbilal.com.pk

FACILITIES AND EQUIPMENT

Personal Computers

48 Latest Minimum Core I5 Computers

B. Plotters

1. Hewlett Packard Design Jet 500Plus
2. Hewlett Packard Design Jet 500
3. Hewlett Packard Design Jet 600
4. Hewlett Packard Design Jet 110 NR
5. Hewlett Packard Design Jet 100 Plus

C. Printers

1. Hewlett Packard 1220 C Deskjet Printer A3 (2 Nos.)
2. Hewlett Packard 1180 C Deskjet Printer A3 (1 Nos.)
3. Hewlett Packard 1280 C Deskjet Printer A3 (1 Nos.)
4. Hewlett Packard 3920 Deskjet Printer A4 (3 Nos.)
5. Hewlett Packard 4100 Series All in One (2 Nos.)
6. Laser Jet III P (Laser Printer)
7. Cannon BJ 200 Bubble Jet, Portable

D. Others

1. Ammonia Printing Machine Diazit - Dart XL 120
2. Panasonic fax machine KX- F130
3. Hewlett Packard 4100 Fax Scanner and Copier
4. Panasonic fax machine KX-FPC91C
5. Scanners Mustek 1248 UB

E. List of Software's:

I. For Road Design

1. *Pavement analysis and design programme*
 - Bisar
 - Illi-Back
 - Illi-Pave
 - Elsym 5
 - Wester
 - Bisdef
 - Berg
 - Pavement Design by Asphalt Institute Method

2. *Transportation Engineering*

- Transyst - 7F
- Soap 84
- Passer II
- Netsim
- Highway Capacity Software

3. *Earth Work*

- Mapetch Earthwork Pack
- Maptech Survey Pak
- CCS Surveyor 4.0

**II) For
Structural Design**

- ETABS
- SAFE
- SAP
- GRASP
- Microfeap
- Pframe
- M - TABS
- Micro Stress
- Math CAD
- D Stress
- PPCBCD - Prestress Conc. Beam

**III) For Project
Management**

- Microsoft Project
- Pert Master
- Project Schedule 5 Ver 1.00
- Primavera

Other Uses

A. Drafting

- Auto CAD

G. Letters / Editing / Spread Sheet

- Microsoft Office

H. Library

A comprehensive collection of over a thousand technical books, recent publications, and computer programs.