

# FRIENDS CONSTRUCTION SYNDICATE PRIVATE LIMITED



*Friends Construction Syndicate (PVT) LTD.*

## WHO WE ARE

Friends Syndicate was initially originating from Karachi in 1988, and after a 33 years of growth commitment and devotion it has become a leading construction and development company, and the company reached its status as FCSL and a last modification related with the name of company was done in 2007 and is registered with the Pakistan Engineering Council in “no limit CA category” as Friends Construction Syndicate (Pvt.) Ltd. FCSL having a good reputation in market and provide services from concept to complete the project and the scope ranges from Construction.

# FRIENDS CONSTRUCTION SYNDICATE PRIVATE LIMITED

## INTRODUCTION

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The Group is going forward under the friendly management of young, professional and energetic board of directors lead by Shaiq Ahmed & Syed Raza Ali Abidi. The company has accumulated many years of technical knowledge and operational expertise through constant re-learning and gaining the necessary knowledge to meet the dynamic demands of customers.

In its pursuits of quality FCSL has established global practice in project management and execution. It has sought to challenge the unchallenged by successfully implementing on some of most difficult projects having national importance such as the construction of major roads, bridges, underpasses and building in Karachi as well as in remote areas of Pakistan in a record time.

FCSL equipped with large pool of machinery and men backed by compatible know-how, experience and expertise is capable of undertaking multifarious Mega development projects, both within and outside Pakistan and it is likely to enhance and grow the capabilities in future.

To be the responsible constructors the company derives its mission to undertake the conduct of all forms of business as a progressive group, in a manner designed to meet the special needs of our clients and our diversity enable us to provide our client the latest technologies, high quality of work within the budget and time is the hallmark of every FCSL Projects.



Engineer Muhammad Asghar  
General Manager (Planning)

## DESIGN CRITERIA

Friends has a good experience to work under the following design

### **ROAD**

1- Geometric design : AASHTO 2001

2- Pavement Design: AASHTO 1986-Road Note 31-1993

### **BUILDING STRUCTURE**

1. BSS = British Standards Specification.
2. ACI = American Concrete Institute.
3. ASTM = American Society for testing material.
4. AASHTO = American Association of State Highway and Transportation Officials.
5. KBCA = Karachi Building Control Authority..

## Message From Board

In the year 1988 when some like minded young graduates friends belongs to Karachi Pakistan started and established a business under the name and style of Friends Syndicate and there was only an object in their minds to gather the honest, professional, and devoted friends at a friendly platform, each individual brings their own skill and talents to our work. During the period of 23 years so many Friend join us and so many Friends left us, but the core team of leadership of Friends is still intact since 1988.

The global depth and diversity of the leadership team ensures an incredible geographic spread of individuals. Our team has a specialized insight into the various cultures, and the blend of very specific knowledge that distinguishes the Friends with a compatibility to work in every atmosphere both contextual and specific to location.

### CORE VALUES OF FCSL

#### 1\* FREE BUSINES SYSTEM :

FCSL believes upon the free business system, Friends want to establish the sharing business in terms of profits, benefits and fear of losses. Friends want to explore the new ideas of relationship of business deviated from the conventional type of business.

#### 2\* CULTURE OF LEARNING :

Friends has a culture of learning and our people are very critical to our success, and through our research and thought we challenges conventional method of working and delivers provocative and intelligent solutions that helps clients to achieve his goals. FCSL always welcome the new ideas and technologies to

#### 3\* ENVIRONMENT FRIENDLY :

Friends is committed to strain out all working techniques from the process of environmental conservation, and Friends believes that the environmental sustainable techniques and design can be achieved when the project team are committed to take on board all stake holders and all issues are considered in parallel to formulate the solution.

#### 4\* TRUST OF FRIENDS :

Over the years FCSL has termed the clients as Friends and have established a track record of no litigation. Friends have strengthen the trust with all clients, in terms of honesty, quality, competitive rates, early completion of project and excellent services.

#### 5\* WELFARE BUSINESS :

Friends feels their responsibility to share the burden of overburdened and downtrodden people and has initiated in the area of free education, community welfare, and free legal aid.

FCSL invites all Friends to join hands to render their services for the welfare of the mankind without any discrimination of religion, race and language.

**Shaiq Ahmed**

**( DIRECTOR / Chief executive)**



**Raza Ali Abidi**

**(Director / managing director)**



## RECENT PROJECTS

### Nazeer Hussain University

Nazeer Hussain University is an educational institution striving to brighten the future of Pakistan's youth, aligning them towards the most advanced and technologically sound disciplines so that not only they flourish professionally in their careers, but have remarkable role in the road to success for their country.

The uniqueness of NHU comes from its Solar Energy Program. The Department of Solar Energy is an independent research group. This department is dedicated to produce graduates in this particular discipline, conduct the research work on solar energy and keep coming up with efficient solutions to produce solar energy. Research work at the Solar Energy department caters various aspects of the physical environment. The department also extends its consultation services regarding optimal utilization of solar energy in specific projects to government agencies, industry and municipalities.



## AYESHA MANZIL FLYOVER

Proper pavement marking and road Sign for efficient traffic movement.



## QUAID-E-AZAM BRIDGE GULBERG ISLAMABAD

# CONSTRUCTION OF QUAID-E-AZAM BRIDGE ON GULBERG EXPRESSWAY

**Quaid-e-Azam bridge** is the first bridge on Gulberg Expressway that connects Gulberg Islamabad with Islamabad Highway. The bridge is located on Korang River and it is planned to be the most beautiful bridge of its kind in whole Islamabad.



## HABIB BANK CHOWRANGI FLYOVER

### CONSTRUCTION OF FLYOVER AT HABIB BANK CHOWRANGI, SITE AREA, KARACHI.

The Scheme is extremely critical to SITE Karachi as the Traffic Jams at Habib Bank Chowranig Karachi are hampering the economic activity. Moreover the Pressure of Traffic this Intersection has increase due to opeing of Signal Free Corridor-I from Shahrah-e-Faisal to SITE Karachi.



# PROJECTS

## REHABILITATION AND IMPROVEMENT OF 5000 ROAD KARACHI

Improvement and rehabilitation of 5000 Road from Nagan Chowrangi to Surjani Roundabout  
Shah-ra-e- Usman Ramz Nagan Chowrangi to Sakhi Hassan Roundabout ,Shah Waliullah Nagan Chowrangi to Shafiq Moor , Under Tameer-e Karachi Programme.

8 Lane Dual Carriageway (4Lane each) with 36 ft wide service Road from Nagan Chowrangi to Surjani Roundabout.

8 Lane Dual Carriageway (4Lane each) with 36 ft wide service Road from Nagan Chowrangi to Sakhi Hassan Roundabout.

6 Lane Dual Carriageway (3 Lane each) with 24 ft wide service Road from Nagan Chowrangi to Shafiq Moor.

Widening of Existing main Service roads to cater increased traffic load.

Flaring at Intersections for easy turning.

Strategic and planned access to service roads and U-turns for smooth traffic flow.

Improvement of intersections.

Rehabilitation of existing Nala and new Nala where required for efficient Storm water drainage.

Reconstruction of Foot paths for safe pedestrian movement.

Proper pavement marking and road Sign for efficient traffic movement.

Proper illumination / Lighting.



## REHABILITATION AND IMPROVEMENT OF ALTAF ALI BRELVI ROAD KARACHI



This project starts from University Road near Sabzi Mandi via Dakkhana Intersection Liaquatabad to Nazimabad Chowranghi Intersection and ends at Bara Board Intersection at Manghopir Road. According to the drawing the same road was distributed into five segments. The length of the project was 5 kilometer one side, each main carriage way has 4 lanes, and both side service road also has the same width. All utility lines of water, sewerage, telephone cables, electric cables were shifted from the main carriage way to the utility ducts, and main carriage

### **CONSTRUCTION OF UNDER PASS AT GHARIBAD INTERSECTION**



### **KARACHI, PAKISTAN.**

This project is the part of the Signal Free Corridor No. 1 of Karachi from Airport to S.I.T.E. Industrial Area. The length of the project was 700 meter. This under pass was constructed at Ibn-e-Sina Road from Site Area to Hassan Square Intersection, it was a single side three lane under pass, which is passing through the densely area of Karachi. The box type of underpass was designed with a 1 meter thick concrete walls.



### **CONSTRUCTION OF UNDER PASS OVER IBN-E-SINA ROAD AT LIAQUATABAD NO.10 KARACHI, PAKISTAN**

This project is also the part of the Signal Free Corridor No. 1 of Karachi from Airport to S.I.T.E. Industrial Area. The length of the project was about 1 kilometer. This under pass was constructed at both sides of Ibne Sina Road from Site Area to Hassan Square Intersection, it was a double sided six lanes under pass it facilitated the people who are crossing the Liaquatabad No. 10 intersection.



## CONSTRUCTION OF FLYOVER BRIDGE ALONG RASHID MINHAS ROAD AT ASKARI-IV INTERSECTION, KARACHI, PAKISTAN

This project is the part of signal free corridor No. 2 of Karachi which was completed rapidly within 100 days and it starts from Askari-IV Turning and cross over the turning and ends near Johar Turning. The length of the fly over is 265 meter, and the ramp built on either side measures 334 meters, it consists of 3 lanes. This bridge was also designed pre-stressed post tensioned girders of "U" type. This bridge was constructed due to the heavy load of traffic and approximately 104,393 cars are passed daily by this spot, it is being used by the people who are coming from Shahr-e-Faisal, Karachi and moving via Nepa Chowrangi Fly Over to Surjani and Super High Way.



## CONSTRUCTION OF GRADE SEPRATED INTERSECTION AT NAGAN CHOWRANGI NORTH KARACHI, PAKISTAN

This is a dual level fly over and it was built over the busiest spot of the Corridor II if Karachi, where virtually two fly over were built within one. The length of the first level of bridge is 282 meter and the other level bridge length is 561 meter and the ramp length is 207 meter, and the height of the second level is 54 feet. This remarkable project was completed by Friends and Maqbool in joint venture,. This bridge was designed on the basis of pre-stressed post tensioned “U” type hollow girders having length of 20 to 35 Meters. This heavy construction was completed successfully. In this project the traffic problem at Nagan Intersection was solved permanently and another additional ramp at the second level of 282 meter length was also inducted in this project later on which was completed by FCSL solely.



## CONSTRUCTION OF 2 LANE FLY OVER BRIDGE AT MAKKI SHAH ROAD AND STATION ROAD HYDERABAD, SINDH, PAKISTAN

The length of the bridge was about 500 meter, it has 10 piers and two abutments walls, designed with pre-stressed post tensioned box beams, having length of 20 meters and 15 meters. This bridge was proposed to be constructed to facilitate the people of old area of Hyderabad as it ends near the wall of historic fort of Hyderabad know as Paka Qila.Hyderabad and it starts for Makki Shah Road and it ends near the wall of Paks Qila towards

the Railway Station Hyderabad, and the people who want to go to station they can use the same and it is crossing over the intersection of Qazi Qayum Road Naya Pul Hyderabad.



**BRIDGE OVER LYARI RIVER CONNECTION WITH GULSHAN-E-MAYMAR YOUSUF GOTH, SUPER HIGH WAY (BRIDGE OVER L. R. BET. ROAD 6000 I SURJANI & ROAD A-4 SCH-33. KARACHI, PAKISTAN**

The work of this project was proposed to be constructed to connect the Surjani Town to Super High Way and it facilitated the people of North Karachi to approach the Super High way and Northern By pass. The length of the bridge was about 500 meter, which was also designed on pre-stressed post tensioned "I" type of girders



**BALANCE WORK OF CONSTRUCTION OF GRADE SEPRATED INSERSECTION GULSHAN CHWORANGI AT JUNCTION OF ALLAMA SHABBIR AHMED USMANI ROAD AND RASHID MINHAS ROAD GULSHAN -E-IQBAL KARACHI, PAKISTAN.**

The length of the 4 lane flyover built on Shabbir Ahmed Usmani Road at GulshanChowrangi is 280 meter. This project was awarded to another firm but unfortunately It could not be completed according to drawing and design,

and the design of girders were failed, so this task was handed over to the FCSL and the project completed rapidly with 60 days, including all remaining work of work retaining walls, casting of newly designed pre-stressed post tensioned girders, till the completion of the project. The bridge was constructed due to the heavy load of traffic and it is a project of Signal Free Corridor No. 2 of Karachi and it is being used by the people who are coming from Shakra-e-Faisal, Karachi and moving towards Sohrab Goth Fly Over.



## **ADDITIONAL WORK CONSTRUCTION OF GRADE SEPRATED INTERSECTION AT NAGAN CHOWRANGI NORTH KARACHI, PAKISTAN.**

This is a remarkable project of Friends which was completed within 60 days by FCSL solely with a cost of 310 million, and this is the work of a additional ramp which was inducted in the project of Nagan Chowrangi Fly over in order to solve all problems of Nagan Chowrangi Intersection. This additional ramp starts projects from the second level of the project at the height of 54 feet about 700 meter, having same design of Nagan Bridge and it was successfully completed in a record time.



## **CONSTRUCTION OF INTERCHANGE AT JAIL CHOWRANGI (JUNCTION OF SHAHEED-E-MILLAT ROAD, KASHMIR ROAD & UNIVERSITY ROAD) KARACHI-PAKISTAN**

This project is the part of the Signal free Corridor No.III from M.A. Jinnah Road to University Road. The length of the Project Bridge was 800 meters. This bridge is started from Shahed-e-Millat Road to Jail Chowranghi. It have Two Loops one from Shahed-e-Millat to University Road and other from Kashmir Road to University Road. All the Utility Lines of Water, Sewerage, Telephone Cables, Electricity Cables was shifted from Main Bridge to Service Road.



## **CONSTRUCTION OF FLYOVER AT HABIB BANK CHOWRANGI, SITE AREA, KARACHI.**

The Scheme is extremely critical to SITE Karachi as the Traffic Jams at Habib Bank Chowrangig Karachi are hampering the economic activity. Moreover the Pressure of Traffic this Intersection has increase due to opening of Signal Free Corridor-I from Shahrah-e-Faisal to SITE Karachi.



## **BULK WATER SUPPLY PIPE LINE FROM KEENJHAR LAKE TO SITE NOORIABAD**

This project is bulk water supply project which starts from Kenjhar Lake (Intake Channel to Nooriabad Industrial Estate which is 30Km long. This isa project of laying of 24” Dia H.D.P.E pipe having two pumping station with distance of 10Km each. This is a project 5MGD water supply scheme which is the biggest project of history of sindh industrial & Trading Estate.



## **LAYING OF 24” DIA SEWERAGE LINE FROM DAKKHANA INTERSECTION TO ORANGI NALLAH BRIDGE**

This project is bulk water supply project which starts from Kenjhar Lake (Intake Channel to Nooriabad Industrial Estate which is 30Km long. This isa project of laying of 24” Dia H.D.P.E pipe having two pumping station with distance of 10Km each. This is a project 5MGD water supply scheme which is the biggest project of history of sindh industrial & Trading Estate.



## CONSTRUCTION OF STORM WATER DRAIN AT ALTAF ALI BARELVI ROAD

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## BULK WATER SUPPLY PIPE LINE FROM KEENJHAR LAKE TO SITE NOORIABAD

The Nooriabad Industrial Estate was established in the early eighties and it attracted lots of industries. However, due to the scarcity of water, the industrial growth in the Nooriabad Estate became difficult to sustain. At present, the 2mgd water supply from an underground water source barely meets the requirements of industries. The industrial growth is always considered as a healthy sign for the national economy, and the S.I.T.E. Ltd. Through its continued efforts



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thrived to manage the present and future requirements of industrial water demand. The objective of this project is to meet the present water requirement and attract establishment of new industries by ensuring a continuous supply of required quantity of water.

PUMPING MAIN : 30.15km of 360mm external diameter (551mm internal diameter) high density polyethylene (HDPE) pipeline INTAKE STRUCTURE AT KENJHAR LAKE Multilevel intake with 7 vertical turbine pumps (5 working + 2 standby) each of 275m<sup>3</sup> / hour for dynamic pumping head of 70m.







BOOSTER PUMPING STATION 7 multistage pumps (5 working + 2 standby) each of 275m<sup>3</sup> / hour for dynamic pumping head of 75m, at the two pumping stations.

STANDBY GENERATORS Diesel Generating set of 400KVA at intake structure and at booster pumping station with generator building. OTHER BUILDING Guard house, staff accommodation and ret house at lake site.

WATER STORAGE TANK Half day storage of 11,500m<sup>3</sup> at nooriabad water works and 3 hours Storage of 2,850m<sup>3</sup> at the two booster pumping stations.

IMPORTANT CROSSING Two railway crossing one main Pakistan Railway line & other to Pakistan Steel Mill - Road Crossing-Nalla Crossing.

## • CONSTRUCTION OF 3008 FLATS AT LABOUR COLONY, NORTHERN BYPASS, KARACHI-PAKISTAN

This work was awarded by Sindh Workers Welfare Board and in this project out of 3008 flats construction of 320 flats were awarded to Friends Syndicate and these flats are being constructed for industrial labours of Site area North Karachi. In design of this flats the factors of environmental friendly, and earthquake proof structure were important and it was designed a very luxurious flats of labor, and all best fittings and standards are being used.



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## **CONSTRUCTION OF 192 FLATS AT NOORIABAD, DISTRICT DADU, SINDH, PAKISTAN**

This work was awarded by Sindh Workers Welfare Board and in this project 192 flats were constructed for industrial labours of Site area of Nooriabad which is 90 Kilometer away from Karachi. In design of this flats the factors of environmental friendly, and earthquake proof structure were important and it was designed a very luxurious flats of labor, and all best fittings and standards are being used.



## REMARKABLE PORT & MARINE WORK

### CONSTRUCTION OF SIM/YDS BUILDING, AT JNB ORMARA, BALUCHISTAN, PAKISTAN

This is a remarkable national interest project and the SIM/YSD buildings were constructed by Friends Syndicate in 2003, and the height of the roof of the building was 45 feet and it is situated in port area of Baluchians and about 300 Kilometer from Karachi, and in this type of area where there were no infrastructure work and the resources were not available in nearby area of the project but the Friends completed the project with the strict standards of DW & CE (NAVY) Navy as a challenge successfully.



## REMARKABLE EDUCATION BUILDING WORKS

### N.H.U BUILDING COMPLEX

This is a building structure project. It is an academic institution which consisting two major buildings ground plus 5 storied, and more than 200000Sft covered area. It is a earth quake proof structure.



## CONSTRUCTION OF NAZIR HUSSAIN UNIVERSITY KARACHI-PAKISTAN

This Project cover area is 24 Acres. At present the construction is going on 4 Acres. It is Three Blocks and each Block have Ground +Two Stories Detailed cover area Ground Floor 65736.98 Sft, First Floor 65736.98 Sft and Second Floor 65736.98 Sft the Total Area is 197210.94 Sft.



## CONSTRUCTION OF 3-LANE FLYOVER AT TIPU SULTAN ROAD & SHAHRAH-E-FAISAL INTERSECTION KARACHI-PAKISTAN

This project is 3 Lane Flyover at Tipu Sultan Road and Shahrah-e-Faisal Intersection.

The length of the Bridge was about 350 meters. It has 8 piles and Two Abutment walls, designed with pre-Stressed post tensioned beams have length of 25 meters and 30 meters. This bridge was proposed to facilitate the People from Sadar to Airport without Signal.



# REMARKABLE TOWN DEVELOPMENT WORK

## CONSTRUCTION OF INTERNAL ROADS OF SECTOR 36 AT N.M.H.P AT M.D.A





## INFRA STRUCTURE DEVELOPMENT OF 300 ACRES LAND AT SITE HYDERABAD

This is project of development of 300 acre land. It is a development project of Hyderabad Industrial Area, which is also a huge project of Sindh Industrial & Trading Estate.

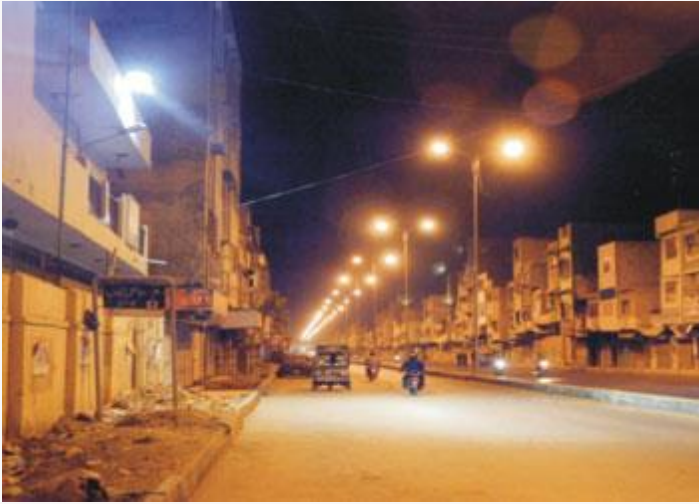


## ELECTRICAL WORKS & POWER GENERATOR

Friends has a impressive track record to complete the electrical work such as public light system electrical power generation & power transformer work in this regard Friends has also successfully completed the electrical work at “Construction of Altaf Ali Barelvi Road”, “5000 Road”, Gharibabad Underpass”, Liaquatabad Under Pass in all respect. Friends has also completed the erecting, diesel, gas and central generators from 20KVA to 600KVA. Friend has also completed the installation 750KVA power transformer at Nooriabad.







## MECHANICAL WORK

Friends has also completed the erection of heavy duty vertical turbine pumps, horizontal split case pumps upto discharge dia of L/S 70 with dynamic pressure head 70m for bulk water supply scheme in Nooriabad.

Friends has also successfully completed the pumping stations for pumping of rain water to Garribabad and Liaquatabad Underpasses.





## GLOBAL WORKING STANDARDS

Friends is a very keen about the Quality of Work and from the start of the operation our people are very committed to improve our management and quality measure and Friends believed about the improvement and in this regard the Friends Training Program are being conducted every month and Friends also achieved the Quality Management Certificate according the Standard of ISO 9001: 2008 as a Contractor of Civil work (Related mechanical, Electrical and other Engineering Works).

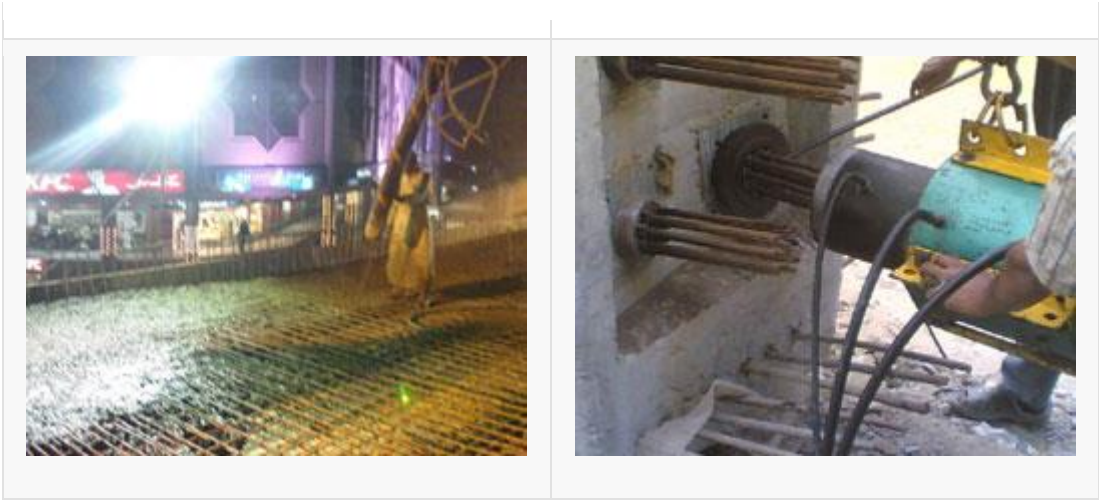


## APPLIED STANDARD

Friends has worked according to the standards codes listed in the specific specifications and other parts of the contracts documents include by the following agencies and organization:

1. AASHTO= American Association of state Highway and Transportation Officials,444 North Capital Streets NW Suite 225, Washington, DC 2001, USA.
2. AC I = American Concrete Institute, Box 19150.Redford Station, Detroit,Michigan,48219,USA.
3. A I = The Asphalt Institute, Asphalt Institute Building, College Park, Maryland 207040, USA.
4. AISC = American Institute Of Steel Construction. Inc .400 North Michigan Avenue, Chiago, USA.
5. ANSI = American National Standard Institute (successor to USASI and ASA), 1430 Broadway, New York 10018 USA.
6. ASTM = American Society for testing and Materials, 1916 Pace Street, Philadelphia, Pennsylvania 19103,USA.
7. BRE = British Research Establishment, Department of the Environment England.
8. BS = British Standard (See BSI).
9. BSI = British Standard Institution, 2 Park Street, London WISOBS, UK.
- 10.DIN = DIN Dautches Institute for Hamming ev., Berlin, West Germany,South Verlag Gnbh, Berlin, West Germany.
- 11.DOT = Department of Transport, England (HMSO).
- 12.HMSO = Her Majesty Stitonyary Office, 49 High Holborn, Logos, WCIV6HB, UK.
- 13.ISO = International Standard Organization.
- 14.NHB = National Highway Board, Ministry of Communication, Govt. Of Pakistan,11,a1 Markaz, f-9, Super Market, Islamabad.
- 15.NEC = National Electrical Code.
- 16.PSI = Pakistan Standards Institution.
- 17.SRC = Stranding Rates Committee, Govt. Of Sindh, Sindh Secretariat, Shahra-e-Kamal Ata Turk, Islamabad, Pakistan.
- 18.NHA = National Highway Authority, Islamabad.
- 19.KBCA = Karachi Building Control Authority.



**APPLIED TENDER CONDITIONS & BYE LAWS:**

Friends has no litigation history with any client and Friends strictly follows the following global laws of procurements:-

**DESIGN CRITERIA**

Friends has a good experience to work under the following design criteria:

**ROAD:**

- 1- Geometric design : AASHTO 2001
- 2- Pavement Design: AASHTO 1986-Road Note 31-1993

**BRIDGE STRUCTURES:**

Standards for general Features Loading (except earthquake) Distribution of load.	“Code of Practice; Highway Bridges, Highway Department West Pakistan.
Standards for Load combinations Reinforced concrete, pre stressed concrete, steel and composite structure.	AASHTO, LRFD Bridge Design Specification (1998)
Design Reference for Railings	AASHTO, LRFD Bridge Design Specification (1998)
Design Reference for Utilities	AASHTO, LRFD Bridge Design Specification (1998)
Standard for Seismic Load and design	AASHTO, LRFD Bridge Design Specification (1998)

Seismic zone and acceleration coefficient for earthquake forces	AASHTO, LRFD Bridge Design Specification (1998)
Importance category	

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- FIDIC Bye Laws.
- Pakistan Engineering Council Act (Bye Laws for constructors).
- Other related laws of land

**UNITED WE STAND) LEADING POWER**

With the support of its experienced and devoted workforce of professionals in engineering, quality control, finance, business management and a large poll of skilled and unskilled human resource the FCSL is capable to combat the challenges of the projects such as quality, time, standards, cost and safety. The global standard working experience and depth of the working leadership ensures us to covert the ideas in to reality.

Our team of leaders has very specific knowledge, specialized culture of learning of future techniques and innovation of new ideas of working which distinguishes the Friend’s philosophy of work. Our each individual brings his own skills and ideas to our work and this variety of thinking forms part of the complex threads of our idea-making process.

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## WORKING MACHINES

A good experience to use the working machines according to the global standards is an asset of Friends, and a formidable fleet of construction plants, equipments, and machinery enable us to march towards the new achievements of difficult targets.

**LIFTING MACHINERY**

- 1- TOTAL STATIONS
- 2- THEODOLITES
- 3- LEVEL INSTRUMENTS

**EQUIPMENT**

- 1- MIXER MACHINES
- 2- COMPACTORS
- 3- HAND ROLLERS
- 4- WATER PUMPS
- 6- GRINDING MACHINES
- 7- CUTTER MACHINE
- 8- BANDING MACHINE
- 9- GENERATORS
- 10- SUCTION PUMPS
- 11- ELECTRICAL WELDING PLANT

**SURVEYING INSTRUMENTS**

- 1- TOTAL STATIONS
- 2- THEODOLITES
- 3- LEVEL INSTRUMENTS

**LABORATORY EQUIPMENT**

ALL LABORATORY EQUIPMENTS

**WORKING MACHINES**

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**PLANTS**

- 1- ASPHALT PLANTS
- 2- BATCHING PLANTS

**MACHINERY**

- 1- ROAD ROLLER
- 2- VIBRATOR ROLLERS
- 3- EXCAVATORS
- 4- TRACTORS
- 5- LOADERS
- 6- LOADER HEAVY DUMPERS
- 7- TRANSIT MIXERS
- 8- CONCRETE PUMPS
- 10- TRAILER
- 11- WATER BOWSERS
- 12- ASPHALT LAYING PAVERS
- 13- PLAIN TYRE ROLLERS

**PILING RIGS**

- 1- ROTARY
- 2- PERCUSSION

**BOATS & BARGES**

- 1- CARGO BOATS
- 2- FLAT BOTTOM

**VEHICLES**

- 1- TRUCKS
- 2- MINI TRUCKS
- 3- PICK UPS
- 4- CARS, HIGHROOF VANS

Thankyou For Watching Our Brousher