

BROCHURE 2008



- Hydro Geological Investigations
- Tubewell design & its construction
- Rehabilitation of Tubewells
- Supply and installation of complete Pumping Systems
- Geo Technical Investigations
- Resistivity Surveys
- Geo Physical Logging
- Desalination, Reverse Osmosis Plants
- Waste Water Treatment Plants
- Piling Works
- Civil Works
- Mechanical & Piping Works
- Telecommunication related works

GEO ENGINEERING (PVT.) LTD.

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COMPANY

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Workshop & Store

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University, Karachi.

OVERSEAS REPRESENTATIONS

REPUBLIC OF MALDIVES – MALE'

Mr. Muhammad Rasheed Bari.
Manager Technical.

Address

Male' Water and Sewerage Company Ltd. (MWSC)
Ameenee Magu, Machangoli, Male' 20375.

Telephone

+960 323209

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+960 324306

EUROPE - ENGLAND

Kamal S. Siddiqui. M.Sc.(Gent.), B.Sc Hons. M.Sc.
Resident Representative.

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62 – Russley Road,
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INTRODUCTION

GEO-ENGINEERING PRIVATE LIMITED is a private firm established in 1982 with about twenty six years of experience. It is best equipped organization in its particular field of specialization. The firm has a strong professional team of highly qualified personnel with vast experience on world renowned projects.

Competitive bidding, rapid mobilization, quick completion of projects in conformity with specifications and ability to co-ordinate smoothly with clients are characteristics of the firm.

It is registered with Pakistan Engineering Council and has membership with Chamber of Commerce & Industry, Karachi. It has Pre-qualification / Enlistment with nearly all reputed agencies of Pakistan and some on abroad.

The extent of service covers:

- Hydro Geological investigations
- Tubewell design its construction.
- Geo Technical Investigation.
- Rehabilitation of Tubewells.
- Resistivity Survey and Geo-Physical Logging of Borewells.
- Supply of Tubewell Material, Equipments, R.O, Desalination, Waste water treatment Plants and all related works.
- Pilling Works.
- Fabrication of Bulk Storage Mild Steel Tanks, Piping and Civil Works.
- Telecommunication related works.

BUSINESS ASSOCIATES / SISTER CONCERN

BUSINESS ASSOCIATES / SISTER CONCERN

SISTER CONCERNS

GEO ENGINEERING ASSOCIATES.

B-61 Block "H",
North Nazimabad. Karachi – 74700- PAKISTAN
PH: 92-021-6645 592, FAX: 92-021-6627925



GEO TRADERS.

B-61 Block "H",
North Nazimabad. Karachi – 74700.- PAKISTAN
PH: 92-021-6645 592, FAX: 92-021-6627925

BUSINESS ASSOCIATION

Geo Engineering Pvt. Ltd. is associate with these organizations and proud to participate with them in different projects and tendering proposals.

PAKISTAN



Geo Science Associates.

Parkland House,
200-Ferozpur Road,
Lahore, Pakistan.
+92-42-7580437
+92-42-8453562
Contact Person : **Mr. Mosoof Hussain. – C.E.O**

KUWAIT

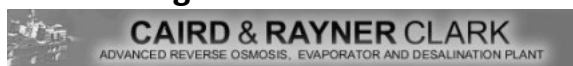


Arabi Company W.L.L

P.O.Box : 4090,
Safat – 13041,
Kuwait.
Email: sales@arabigroup.com
Contact Person : **Mr. Santosh Abraham (O.P.D. Manager)**

AGENCY

United Kingdom



Caird & Rayner Clark

(Desalination and Reverse Osmosis Plants)
Severalls Industrial Estate,
Colchester,
Essex, United Kingdom,
CO4 9QX.
<http://www.cairdraynerclark.co.uk/agentlist.htm>
Contact Pesron : **Mr. Steve Mangham –(General Manager)**

ORGANIZATIONAL SETUP

ORGANIZATIONAL SETUP**C.E.O**

1	MR. SYED MUHAMMAD ALI.	B.Sc. (Hons) M.Sc.	Chief Executive and Technical Advisor
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ADMINISTRATION

1	Mr. Syed Ahmed Farhan	B.Sc. (Hons.) (U.K)	Director Co-ordination
2	Mr. Syed Kashif Ali	BBA.(Hons) MBA.	Director Admin. Accounts & Works
3	Mr. Syed Mohsin Ali.	B.S, M.S.C (U.K)	Manager Computer Section
4	Mr. Moeen	B.COM.	Accountant

DRILLING SECTION

5	Mr. Syed Masoodul Husnain	B.Sc. (Hons)	Manager Projects (Overseas)
6	Mr. Kamal S. Siddiqui	M.Sc(Gent.) B.Sc.(Hons) M.Sc	Resident Representative - Europe
7	Mr. Manzoor Ahmed	-	Sr. Driller
8	Mr. Maqsood Ahmed	-	Sr. Driller
9	Mr. Perviz Ahmed	-	Driller
10	Mr. Basharat Rasool	-	Driller

MECHANICAL SECTION

11	Mr. Kashif Malik	B.E (Mech.)	Project Manager
12	Mr. Asghar Ali	MATRIC	Fabricator
13	Mr. Shoaib Khan	MATRIC	Electrician
14	Mr. Abdul Sattar	-	Mechanic

TELECOMMUNICATION SECTION

15	Mr. Syed Faraz Ali	BE Electronics	Director Works
16	Ms. Ruftaj Khan	MBA (Marketing)	Manager Coordination
17	Mrs. Hina Naaz	BE Electronics	Manager Works

PREQUALIFICATION & ENLISTMENT

PREQUALIFICATION & ENLISTMENT

Geo Engineering (Pvt.) Ltd. has Pre-qualification & Enlistment with the following agencies for all types of drilling works :

1. Pakistan Agriculture Development Bank Islamabad.
 2. Pakistan Institute of Medical Science, Islamabad for tubewells in Islamabad.
 3. Falcon Cement Limited, Islamabad for Core drilling works in Fateh Jung Areas.
 4. Fauji Foundation - Rawalpindi.
 5. Airport Development Agency (ADA), Rawalpindi.
 6. Chief Engineer (North) WAPDA, GSC - Sunny view, Lahore.
 7. Project Director (WAPDA) Grid System Construction, Lahore.
 8. Mangla Dam Project (WAPDA) in 'B' Category for works upto 8 millions.
 9. Lahore Development Authority (LDA) WASA, for 4 Cfs tube wells.
 10. Sui Gas Northern Pipe Lines Ltd, Lahore.
 11. Lahore Cantt. Co-operative Housing Society, Lahore.
 12. Resources Development Corp. (Pvt.) Ltd., Quetta for tubewells in SINDAK Copper – Gold Project District Chagi, Balochistan under Chinese Consultants.
 13. Balochistan Development Authority (Mines Division) for Gunga Lead and Zinc Project, Khuzdar.
 14. Chief Engineer, Irrigation Development, Hyderabad.
 15. Project Planning (SZ) WAPDA, Hyderabad.
 16. Sindh Arid Zone Development Authority (SAZDA), Government of Sindh.
 17. Karachi Electric Supply Corporation, Ltd (KESC) as "No Limit" Contractor.
 18. Director Development, Karachi Telecommunication Region.
 19. Pakistan National Refinery Limited.
 20. Pakistan State Oil Co. Ltd. (PSO), Karachi.
 21. Pakistan Shell Ltd.
 22. Caltex Oil (Pakistan) Ltd.
 23. Pak Arab Refinery Limited.
 24. Karachi Nuclear Power Project.
 25. Pakistan Cricket Board.
 26. Sindh Institute of Urology & Transplantation.
 27. University of Karachi.
 28. Hamdard University.
 29. Khadim Ali Shah Bukhari Institute of Information & Technology.
 30. Baqai Medical University.
 31. Zia Uddin Medical University & College.
 32. Agha Khan Hospital and Medical College, Karachi.
 33. Agha Khan Medical University & College. Gadap.
 34. Male' Water and Sewerage Company. Republic of Maldives.
 35. Sindh Coal Authority.
- ... and Many Many more



TECHNICAL STAFF BIODATAS

Name	MR. SYED MUHAMMAD ALI.
Designation	Chief Executive.
Qualification	B.Sc. (Hons.), M.Sc. (Geology) - 1963
Membership	International Association of Hydrogeologist (IAH).
Experience	45 Years Tubewell Consultant, Tubewell Construction, Geo – Technical Investigation and Pilling Works.

A) AS CONTRACTOR

1982 till todate

Working as Chief Executive & controlling all Projects executed & in hand.

1976 to 1982

Worked with M/S Deepwell Corporation Ltd. Pakistan as Officiating Chief Engineer and Technical Manager, was responsible for all projects.

B) AS CONSULTANT

1982 to 1984

Worked with National Consultant -Nespak (JV) consultants for Al - Jouf Irrigation and Drainage improvement Project, Ministry of Irrigation Saudi Arabia as Principal Hydro-geologist. (18 Nos. Water Wells 600 Meters deep each)

1972 to 1976

Worked with **M/S Tippetts-Abbet-McCarthy Stratton Inc. (TAMS) USA** Consultant for Terbela Dam Project on deputation from Water & Power Development Authority as Engineering Geologist.

1963 to 1972

Worked with Ground Water Consultants **Tipton & Kambach inc. (T&K) U.S.A.** on Deputation from water & Power Development Authority as Hydrogeologist, was responsible for supervision of Tubewell construction & its design for WAPDA Tubewell Projects.

A - WATER WELL

Important Project Supervised.

AS A CONSULTANT.

AL-Jouf Project for Ministry of Irrigation and water, Saudi Arabia. 18 Nos. tubewells 600 meter deep each.

1000 Tubewells in SCARP III of (WAPDA) or deputation to **T&K, USA.**

1000 Tubewells in SCARP II - B of Chajdoab (WAPDA.) on deputation to **T & K, USA.**

556 Tubewells in SCARP North Rohri under WAPDA.

Mapping - Drilling and seepage study in adits at Terbela Dam Project.

AS A CONTRACTOR.

38 Nos. tubewells in SCARP North Rohri (WAPDA).

Contract No: SRB 400 / 100, Construction of 100 tubewells in Sukkur Right Bank Project (WAPDA) for Deepwell Ltd.

Contract No; 6 - 102 Construction of 380 tubewells and appurtenant Works in Panjnad Section. Allahabad Pilot Project (WAPDA) for Deepwell Ltd.

Contract No: V - 116 .Construction of 71 replacement tubewells and Appurtenant works in Satiana Pilot Project Lower Rechna remaining SCARP - V, (WAPDA) for Deepwell Ltd.

Contract No: 2 - 117, Construction of 18 Nos. tubewells and Appurtenant works in Adhikot and Chan village Scheme. (WAPDA.) for Deepwell Ltd.

65 Nos. Tubewells of Lahore Development Authority for Deepwell Ltd.

12 Nos. Tubewells of Public Health Engg. Department Mardan for Deepwell Ltd.

5 Nos. Tubewells for Pak Arab Fertilizers Ltd. Multan for Deepwell Ltd.

6 Nos. Tubewells for I.C.I. Pakistan Manufacturer Ltd. Polyester Fiber Plant, Sheikhpura Road for Deepwell Ltd.

6 Nos. Tubewells for Lahore Cantt. Co-operative Housing Society Ltd for Deepwell Ltd.

5 Nos. Tube Wells for Peshawar Development Authority, Hyderabad, Peshawar for Deepwell Ltd.

B - GEO - TECHNICAL INVESTIGATIONS

Important Project Supervised.

ASA CONTRACTOR.

Off Shore drilling and Geo - Technical investigations for pre-feasibility study based on imported coal Fired Power Station, Karachi for (WAPDA) for ADL.

Hydro Geological Investigations and tubewells at Fecto Cement Ltd. Rawalpindi for ADL.

Geo - Technical Investigations for additional carriage way at River Ravi for NESPAK for ADL.

Geo - Technical investigation for new terminal building at Lahore Airport for ADL.

Off - Shore drilling for Geo - Technical Investigation (Sub - Marine Rebuild Complex) near Pakistan Steel, Karachi for NESPAK for ADL.

Sub - Soil Investigation for installation of Electric Towers Port Qasim for ADL.

Soil Investigation for Armed Forces Dentistry Institute Building (AFID), Rawalpindi for ADL.

Soil Investigations for Railway Bridge on LBOD Spinal at Roshanabad, District Mirpur Khas for ADL.

Exploratory Drilling and Geo - Hydrogeological investigations at Terbel Dam Project Candaf Tunnel Area under TAMS for Deepwell Ltd.

Exploratory drilling works at Kala Bagh Dam for WAPDA for Deepwell Ltd.

C - PILING WORKS

ASA CONTRACTOR.

Piles and Pile Cap foundation for Fishermen's Training Centre, West Wharf Fish Harbor, Karachi for PWD for ADL.

Piles and Pile Cap Foundations of Steel Bridges for Conveyor Belt at D.G. Khan Cement Factory for ADL.

Piling works at Pak Arab Fertilizers Ltd. (High Chimney for Nitric Acid Plant) Multan for Deepwell Ltd.

Piling works at Toyo Nasic Glass Factory, Nasic Project Sheikhpura for Deepwell Ltd.

Mr. Syed Masoodul Hasnain

Manager Projects. (Overseas)

Qualification

Karachi University (1959), B.Sc.(Hons.) Geology

Experience

46 Years

June 2000 to date

Working as a Manager Projects of water wells and hydrogeological studies with Geo-Engineering (Pvt.) Ltd., Karachi - Pakistan .

1986 to 2000

Associated Consulting Engineers – ACE Pakistan Chief Hydrogeologist / Principal Hydrogeologist

Joined Associated Consulting Engineers – ACE as Principal Hydrogeologist on 01 July , 1986 was promoted as Chief Hydrogeologist on 01 January 1993 . Retired as regular employee on 01-06-99 on attaining 60 years age . Worked as contract employee intermittently till 12 June 2000 with ACE Water Engineering Services .

1999 to 2000

Jehaf Water Supply Project , Yemen.

Worked on Jehaf Water Supply Project (April 1999 – Dec. 1999) . the Project is located on Jehaf Mountain , at elevation of 1400 – 200m , in the middle of Upper Wadi Tuban of Yemen Arab Republic . Prepared Tender Documents for Geophysical Study and Drilling of Exploratory Boreholes. Carried out hydrogeological Study and Drilling of Tertiary volcanic rocks and Cretaceous sandstone of Tawilah group of Ad Dala Qarad sub basin of Upper Wadi Tuban based by carrying out field reconnaissance , well inventory and analysis of results of exploratory wells during and testing . Prepared reports on groundwater assessment and selected well field area , to be developed for water supply of the Jehaf Water Supply Project .

Islamic Development Bank and Government of Yemen Arab Republic have finance the study .

1986 to 1998

Left Bank Outfall Drainage Project , Pakistan.

Worked in the joint venture (July 1986 – Oct. 1998) of Mot Macdonald – NESPAK ACE on left Bank Outfall Drainage Project for Water and Power Development Authority (WAPDA) Pakistan , financed by Asian Development Bank and Islamic Development Bank.

As the Group Leader of Tubewell Design Group completed design , layout and documentation of several contract documents for over 2000 saline standard drainage , special and scavenger tubewells, their pumping equipment and disposal channels in addition to routine management of the Design Group Utilised current computer softwares for the design of disposal channels and preparation of the contract documents etc. Carried out inspection of well components

and pumping equipment at Manufacturer's Plant . Prepared guidelines for supervision of drilling , installation of equipment and testing . Continuously monitored construction data of wells , for evaluation and assignment of pumps.

1983 to 1986

Self employed :

Part time consultancy for different persons and private parties for drilling of water wells.

1974 to 1983

Kufra and Sarir Authority , Sarir Production Project , Govt. of Libya , Libya Senior Hydrogeologist

Sarir Production Project is the biggest tubewell project of its kind in the Libyan Desert . Two hundred and forty tubewells , each designed to irrigate about 80 hectares by pivot sprinkler machines have been constructed . As the senior-most member of the team was responsible for the design and implementation of the scheme , with manifold duties .

As Project's Representative :

Supervised the construction of wells and piezometers. Selected suitable pumping equipment for the completed wells.

Was nominated from time to time member of technical committees formed to prepare technical specifications , evaluate tenders and settle disputes and claims relating to drilling of wells and pumping equipment .

On special assignment prepared technical specifications for drilling of production wells in JALO-OJLA Project . Supervised investigation of TAZERBO Project in Kufra basins and after completion of the investigation work , prepared technical specification for 120 production wells and 12 piezometers of TAZERBO Project .

Carried out project monitoring , for evaluation of well performance , aquifer response and water quality changes as a sequel to pumping .

1973 to 1974

Kufra and Sarir Authority , Govt. of Libya , Libya Senior Geologist
Joined Kufra and Sarir Authority on October 12 , 1973 . Worked in investigation project known as JALO-TAZERBO Phase I and Phase II in Sirte Basin of Libya . (Sarir Production Project is situated in Phase II area)

Investigation studies were carried out under the direct supervision of Institute of Geological Sciences of England , work included collection of hydrological data from existing wells , drilling of new exploration boreholes and test holes , logging , short and long duration pump tests and water sampling .

1971 to 1973

Haj Ben Ali Company , Libya Geologist / Test Engineer

Worked on deputation with Oil Field Construction Division . Supervised and documented 250 – 350 meter deep wells of 80-lit/sec. capacity constructed by the company in Kufra Agriculture Project.

1969 to 1971

Water and Power Development Authority (WAPDA) Pakistan Senior Geologist

Worked in Salinity Control and Reclamation Project (SCRAP) of North Rohri (566 wells) . This was the first such project to be completed under the supervision of WAPDA staff only and with no consultants . Supervised drilling , well construction , development and testing with the assistance of 15 junior geologists and engineers .

1959 to 1969

Water and Power Development Authority (WAPDA) Pakistan Geologist

Worked in various SCRAP's mostly on secondment to **Tipton & Kalmback (T&K) Inc. USA** about 2000 tubewells of 2 to 5 cusecs (56 to 140 / /sec.) and 180 to 50 feet (55 to 152 m) deep were installed in these projects . Carried out inspection of various phases of well construction .

Work included , study of samples / drill cutting / cores etc. and preparation of lithological logs , and penetration logs . Preparation of casing schedules of the drilled wells ,

Electric logging of the wells and interpretation of the logs run . Development of the drilled wells and testing for drawdown and yield . Installation and testing of pumping equipment.

Reports And Papers

- Report : Completion report for Kot Adu Rangpur Units 1970 Pakistan
- Report : Comparison of specific capacities of wells constructed by Fiberglass and Johnson stainless steel screens in Sarir Production Project , 1976 Libya
- Paper : A new well field in the Libyan Sahara , September 1976
- Paper : Discovery of underground channels in the Northern Sarir well field , March 1978 , Libya
- Report : Sarir Southern Field Water quality and changes occurring due to pumping , December 1981 , Libya.
- Report : Water Resources of Sarir Production Project , May 1983 , Libya
- Paper : Some new concepts of well design , September 1985 , Pakistan
- Paper : Vertical Drainage component of Left Bank Outfall Drain Stage 1 , Pakistan
- Project : Fifth International Drainage Workshop , Lahore 1992 .
- Paper : Tubewell Drainage within LBOD . Implementation , difficulties , Solutions and Achievements. Symposium on LBOD Project at Mehran University of Engineering and Technology (MUET) Jamshoro , November 1997 , Pakistan
- Report : Interim Report on Water Resources Assessment of Jehaf Water Supply Project , June 2000, Yemen.

Mr. Syed Ahmed Farhan.

Director Coordination.

Qualification

B.Sc. (Hons.) in Computing. (University of Portsmouth – UK)

Experience

15 Years

1993 till todate

Associated with Geo Engineering Pvt. Ltd. And responsible for Project planning , scheduling and management , Groundwater Development and monitoring of various drilling sites. Preparation and maintaining Technical Reports, documents , drawings , maps , computer models, Logs, Tubewell designs, TDS and Pumping Chats, Tender and BOQs, Report Writing, Cost evaluation , Product & Market Search . Coordination with clients and site staff. Logistic Support to drilling Site.

Mr.Syed Kashif Ali.

Director Administration & Accounts Officer.

Qualification

B.B.A (Hons.), M.B.A

Experience

8 Years

2000 till todate

Associated with Geo Engineering Pvt. Ltd. and responsible for Project planning. Finance and accounts management and supervision.

Responsible to communicate effectively at all levels within the company and with the client. Great deal of experience of project / account management and a key role in terms of sales and business development. Management of large and high profile projects and giving positive and cost effective solutions to the client.

GROUND WATER INVESTIGATION AND TUBEWELL DRILLING SECTION

MAJOR EQUIPMENTS

Ground water Investigation and Tube well Drilling Section

LIST OF MAJOR EQUIPMENTS AVAILABLE WITH THE COMPANY

DRILLING SECTION

A. TUBEWELL DRILLING:

1. Straight Circular Rotary Rig:
 - i. Truck mounted capable of drilling 1500 ft. complete with prime movers and mud pump. 1 No.
 - ii. Filling WW-1 a heavy duty straight rotary Rig (U.S.A) can drill 600 ft. depth. 1 No.
 - iii. Russian Rig (ZIL) fitted with 5 inches dia. mud pump and Bedford Engine. 1 No.
 - iv. Failing geo drill fitted with 4 cylinder Bedford engine and N type rods 300 ft. 1 No.
2. Portable Type Reverse Circulation Rig:

Drilling Rig, trailer mounted 15 cm. rotary pump 4,500 liters / min. 10 m hydraulic raised mast; single stage reciprocating priming pump; 81 cm. opening rotary table; double drum draw works; powered by diesel engine and equipped with electric generator and welding set etc. 1 No.
3. Drilling Rods 3½ inches, 3 inches size & 2½" dia. 3500ft.
4. Air Compressor (250 PSI and 150 PSI) 3 Nos.
5. Vertical Turbine Pumps with Columns Suction Pipes and discharge nipples for various capacities, fitted with diesel, skill mounted connected with gear shafts. 1 No.
6. GRUNDFOS submersible pump with 325 ft. head along with 7.5 HP motor. 1 No.
7. LOWARA submersible pump with 400 ft. head along with 7.5 HP motor. 1 No.

B. PILLING EQUIPMENT:

I- BORING

- 1- Percussion machinery f-25 with all required accessories 3 Nos.
- 2- Ballers 12" ϕ / 1 , 16" ϕ / 1 , 18" ϕ / 1 ,
22" ϕ / 1 , 26" ϕ / 1 , 30" ϕ / 1. 6 Nos.
- 3- Chisel 16" ϕ / 1 , 18" ϕ / 1 , 22" ϕ / 1 ,
24" ϕ / 1 , 26" ϕ / 1 , 28" ϕ / 1 ,
30" ϕ / 1. 7 Nos.

**LIST OF MAJOR EQUIPMENTS AVAILABLE WITH THE COMPANY
DRILLING SECTION**

4-	Heavy duty tripod	3 Set
5-	Casing 12" ϕ with head & shoes	40 Feet
6-	Casing 16" ϕ with head & shoes	50 Feet
7-	Casing 18" ϕ with head & shoes	10 Feet
8-	Casing 28" ϕ with head & shoes	30 Feet
9-	Casing 30" ϕ with head & shoes	38 Feet
10-	A.P.I. rod 3" ϕ	75 Feet
11-	A.P.I rod 3 1/2"	30 Feet
12-	Mud pump - chinese 7 hp / 1 , 12 hp / 1 , 16hp / 1 , 18hp / 1	4 Nos.

II- MECHANICAL

1-	Lathe Machine 15" ϕ	1No.
2-	Lathe Machine 12" ϕ	1No.
3-	Lathe Machine 7-0" ϕ	2Nos.
4-	Sheet Rolling Machine	1No.
5-	Shopper	1No.
6-	Automatic Stee Cutting Saw Electric	1No.
7-	Welding Plants	2Nos.
8-	Gas Welding Set	1No.
9-	Gas Cutting Set	1No.
10-	Hand Drill Machine	1No.
11-	Chain Block	2Nos.
12-	Hand Grinder	2Nos.
13-	Tools Sets	3Nos.

III- SOIL INVESTIGATION

1-	Rotary Drilling Rig (Feiling , Usa) with Hydraulic Feed Capable of Drilling upto 600 ft. with engine and tripod	1No.
2-	Mud Pump	2 Nos.
3-	Drill Rod	300Feet
4-	Core Barrels	3Nos.
5-	Spt Equipment	1Set

IV- PILE LOAD TEST EQUIPMENT

CAPACITY

110 TONS, 200 TONS, 280 TONS, 240 TONS

**LIST OF MAJOR EQUIPMENTS AVAILABLE WITH THE COMPANY
DRILLING SECTION****C. GEO TECHNICAL INVESTIGATIONS:**

1.	XHF - 60 Crealeous type rotary rigs complete all accessories including drill rods, bits and core barrel etc.	1 No.
2. i)	Straight Circulation Rotary Drill Rig "Acker Types" (Drilling Capacity upto 1000 ft.) complete with accessories.	1 No.
ii)	Mud Pump Triplex (Boyley Brother)	1 No.
iii)	Mud Pump 3 inches x 2 inches ROTOR TYPE.	1 No.
iv)	Royal Bean Pump.	1 No.
v)	Water Line 2 inches, 1½ inches.	1500ft.
vi)	Drill Rods N.W.S. 2½ inches.	1000ft.
vii)	Drill Rod BW with relevant accessories.	400ft.
viii)	Casing 115 mm.	200ft.
ix)	Casing N.X.	200ft.
x)	Double Tube Corebarell 115 mm.	200ft.
xi)	Double Tube Corebarell 101 mm.	5 Nos.
xii)	Double Tube Corebarell N.X.	6 Nos.
xiii)	S.P.T. Split Spoon.	8 Nos.
xiv)	S.P.T. Hammer	4 Nos.
xv)	S.P.T. Rod	500ft.
xvi)	Denison Sampler	2 Nos.
xvii)	Pitcher Sampler	2 Nos.
xviii)	Water Pressure Test Device	2 Nos.

D. THRUST(HORIZONTAL) BORING EQUIPMENT :

1)	Thrust (Horizontal) Boring Machine. (Complete in all respect)	1 No.
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LIST OF MAJOR EQUIPMENTS AVAILABLE WITH THE COMPANY ELECTRIC RESISTIVITY SURVEY [GROUND WATER INVESTIGATION] SECTION

E. GEO-ELECTRIC RESISTIVITY SURVEY :

I. POSITION SURVEY

GPS Magellan 315. U.S.A, GPS Magellan 300/USA.

II. SURFACE GEOPHYSICAL SURVEYS

SPA, for electromagnetic and deep resistivity surveys up to 2 kms depth.

Terra Science

Terra Meter SAS 300C

Seismograph, Bison 7000 and 9000 series with 12 and 24 channel facility.

III. BORE-HOLE GEOPHYSICAL LOGGING

Pulse geophysical logging unit with Calipar, SP (porosity), SPR (resistivity, CCL, Natural gamma and gamma-gamma logging options.

IV. LOW STRAIN TESTING

Foundation Pile Diagnostic System (FPDS-7) for Sonic Integrity Testing of Piles and other structures.

V. INTERPRETATIONAL SOFTWARES

Direct interpretation Inverse Modeling software "RESIXP", for resistivity data interpretation from INTERPEX OF U.S.A.

"View Log" logging data interpretation software.

FPDS software for interpretation of Sonic Integrity Test Data.

In house printing and processing facilities for handling huge amounts of geophysical data for timely completion of reports.

"GWW" Groundwater software.

"Surfer 32" for Windows.

"SeisPRO" shallow seismic reflection software.

"SeisREFA" seismic refraction analysis software.

WORKS EXECUTED

TUBEWELL AND GEO-TECHNICAL WORKS

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No.	PROJECT	CLIENT	YEAR
1	Drilling, designing and installation of tubewell 500ft. deep at Korangi Industrial Area.	Indus Dying & Manufacturing	2008
2	Drilling, Designing and installation of 500ft. tube well near Gulshan-e-Maymar, Karachi.	Fluid Technology international	2008
3	Drilling, Designing and installation of 800ft. tube well at Qayumabad.	Trakker Tower	2008
4	Drilling, Designing and installation of 500ft. tube well at Nooriabad.	Silver Textile	2008
5	Supply of submersible pump and pumping system.	Quality Golf	2008
6	Drilling, Designing and installation of 480ft. tubewell at Hub Chawki, Baluchistan.	Gatron Industries Ltd	2008
7	Drilling, Designing and installation of 600ft. deep tubewell at Sir Syed University of Engineering and Technology New Campus at Link Road.	SSUET	2007
8	Rehabilitation and cleaning of three nos. tubewell at Zahur Sancho, Korangi Industrial Area Karachi.	Zahur Sancho	2007
9	Drilling, Designing and installation of 500ft. tubewell at SEARLE PAKISTAN at S.I.T.E, Karachi.	SEARLE PAKISTAN	2007
10	Drilling, Designing and installation of 450ft. tubewell at Zamzama Gas Plant, Dadu	BHP Billiton	2007
11	Pulling – out of Submersible Pump & Motor from Tubewell at Shafi Tanneries, Korangi Industrial Area	Shafi Tanneries	2007
12	Rehabilitation and cleaning of three nos. tubewell at Ashraf & Sons, Korangi Industrial Area Karachi.	Ashraf & Sons	2007
13	Drilling, Designing and installation of 400ft. tubewell at Korangi Industrial Area, Karachi	Sanofi Aventis	2007
14	Drilling, Designing and installation of 500ft. tubewell at PSO – LMT, Korangi Industrial Area, Karachi	EPIC Private Limited	2007
15	Drilling, Designing and installation of 500ft. tube well at Clifton.	Sofitel Tower	2007
16	Drilling, Designing and installation of 200ft. tube well at S.I.T.E, Karachi.	Pakistan Wire Industries	2007
17	Drilling, Designing and installation of 500ft. tubewell at Korangi Industrial Area, Karachi.	International textile	2007
18	Drilling, Designing and installation of 350ft. tubewell at Korangi Industrial Area, Karachi.	Al Ameera Textile	2007

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No	PROJECT	CLIENT	YEAR
19	Drilling , Designing and installation of 300ft. tube well at Malir.	Military Dairy Form	2007
20	Drilling , Designing and installation of 5 Nos. of tubewells each of 540ft. deep tubewell at Landhi Industrial Area.	IIL Factory	2007
21	Supply and installation of Centrifugal of pumping system at FTC building for dewa tering.	FTC Management ltd.	2007
22	Drilling , Designing and installation of 300ft. tube well at Korangi Industrial Area, Karachi.	Novatex	2007
23	Drilling , Designing and installation of 400ft. tube well at Nooriabad.	Natural Polymer	2007
24	Drilling , Designing and installation of 400ft. tube well at Korangi Industrial Area, Karachi.	Guar Gums & chemical industries	2007
25	Drilling , Designing and installation of 300ft. tube well at Korangi Industrial Area, Karachi.	Lakson Tobacco	2006
26	Hydro Geological Investigation & Conversion into tubewell 300ft. deep at Korangi Industrial Area, Karachi	Nabi Qasim Pharmaceutical-300	2006
27	Hydro Geological Investigation & Conversion into tubewell 200ft deep at Korangi Industrial Area, Karachi	Korangi Effluent Treatment Plant PTA	2006
28	Hydro Geological Investigation & Conversion into tubewell 500ft. deep at Korangi Industrial Area, Karachi	Gulknit	2006
29	Hydro Geological Investigation & Conversion into tubewell 2 nos 500ft. deep each at Korangi Industrial Area, Karachi	International Textile	2006
30	Hydro Geological Investigation & Conversion into tubewell 500ft. deep at Korangi Industrial Area, Karachi	DSI	2006
31	Hydro Geological Investigation & Conversion into tubewell 2 nos each of 400ft. deep at Korangi Industrial Area, Karachi	Shahab Hosiery	2006
32	Hydro Geological Investigation & Conversion into tubewell 500ft. deep deep at Korangi Industrial Area, Karachi	Shaikh Zayed Bin Sultan , Kathoor Palace	2006
33	Hydro Geological Investigation & Conversion into tubewell 600ft. deep at Korangi Industrial Area, Karachi.	Zia-ul-Haq and Sons	2006
34	Drilling , of 200ft. test bore at Hub , Baluchistan.	Ismail Industries	2006
35	Hydro Geological Investigation & Conversion into tubewell 3 Nos. each 100ft. depth at Pakistan Security Printing Press.	Pakistan Security Printing Press	2005

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No	PROJECT	CLIENT	YEAR
36	Hydro Geological Investigation & Conversion into tubewell 800ft. depth at Mianoor Textile Industries, S.I.T.E.	Mianoor Textile Industries	2005
37	Hydro Geological Investigation & Conversion into tubewell 800ft. depth at Captain Chemicals, New Karachi Industrial Area.	Captain Chemicals	2005
38	Drilling, Design & Installation of tubewell 300ft. deep at Keamari Terminal-C.	Pakistan State Oil Co. Ltd.	2005
39	Hydro Geological Investigation & Conversion into tubewell 500ft. deep at Magna Mall Gulistan e Jauhar.	Magna Mall	2005
40	Hydro Geological Investigation & Conversion into tubewell 300ft. deep at Korangi Industrial Area, Karachi	Islamic Mission Hospital (Indus Hospital)	2005
41	Hydro Geological Investigation & Conversion into tubewells 6 nos each of 300ft. deep at Korangi Industrial Area, Karachi	National Refinery	2005
42	Hydro Geological Investigation & Conversion into tubewell 300ft. deep deep at Korangi Industrial Area, Karachi 500ft. deep at Korangi Industrial Area, Karachi	Indus Dying and Manufacturing	2005
43	Hydro Geological Investigation & Conversion into tubewell 500ft. deep at Korangi Industrial Area, Karachi	Jamshoro Joint Venture	2005
44	Hydro Geological Investigation & Conversion into tubewell 400ft. depth at Rizwan Enterprises, S.I.T.E Area.	Rizwan Enterprises	2004
45	Hydro Geological Investigation & Conversion into tubewell 450ft. depth at SIUT, Superhighway .	S.I.U.T	2004
46	Hydro Geological Investigation & Conversion into tubewell 500ft. depth at Colourtal (Pvt.) Limited, Korangi .	Colourtal (Pvt.) Limited	2004
47	Hydro Geological Investigation & Conversion into tubewell 350ft. depth at Textlfort Limited, Korangi.	Textlfort Limited	2004
48	Hydro Geological Investigation & Conversion into tubewell 3 Nos. upto 300ft. at National Refinery, Korangi.	National Refinery Limited	2004
49	Hydro Geological Investigation & Conversion into tubewell 500ft. depth at Yusuf Textile Mills, Korangi Industrial Area.	Yusuf Textile Mills	2004
50	Hydro Geological Investigation & Conversion into tubewell 500ft. depth at Rajby Industries , Korangi .	Rajby Industries	2004
51	Installation, Development, Testing & commissioning of submersible pipes at ZOT, BOT and PMY.	Pakistan State Oil Co. Ltd.	2004

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No	PROJECT	CLIENT	YEAR
52	Hydro geological Investigation and conversion into Tubewell upto 550' depth at Defence Housing Authority near D.H.A College for Women.	Global Environmental Technology (Pvt.) Ltd.	2003
53	Hydro geological Investigation and conversion into Tubewell upto 550' depth at Ziauddin Medical University, Clifton.	Ziauddin Medical University	2003
54	Hydro geological Investigation and conversion into Tubewell at Kohat Depot.	Pakistan State Oil Co. Ltd.	2003
55	Drilling & Installation of 7 Nos. shore well (40ft. depth) near Housing Complex – Gawadar Fish Harbour Cum Mini Port Project.	Imperial Electric Company	2002
56	Hydro Geological Investigation & Conversion into Tubewell 700ft. depth at S.I.T.E Area , Karachi.	FairDeal Textile Mills Ltd.	2002
57	Hydro Geological Investigation and Conversion into Tubewell upto 1200ft. depth at Afroze Textile Industries, Federal B. Area , Karachi Tubewell No: 4.	Afroze Textile Mills Industries	2002
58	Geo-Hydrological Investigation and conversion into Tubewell North Karachi Industrial Area .	Gulzar Hozri	2002
59	Hydro Geological Investigation & Conversion into tubewell at 6 different stadiums in Karachi.	Pakistan Cricket Board	2002
60	Hydro Geological Investigation & Conversion into tubewell 500ft. depth at Gul Ahmed Textile Mills Ltd.	Gul Ahmed Textile Mills Ltd.	2002
61	Hydro Geological Investigation & Conversion into tubewell 300ft. depth at Faisalabad depot.	Pakistan State Oil Co. Ltd.	2002
62	Geo Hydrological Investigation upto 500ft. depth at S.I.T.E Area , Karachi.	Al-Mehran Chemicals	2002
63	Supply, Installation, Testing & Commissioning of Submersible Pump at Habibabad Depot.	Pakistan State Oil Co. Ltd.	2002
64	Geo-Hydrological Investigation and conversion into Tubewell at S.I.T.E Industrial Area .	Mianoor Textile Industries (Pvt.) Limited	2002
65	Filling of water Tank 120' dia. for Hydrostatic Testing .	Pakistan State Oil Co. Ltd.	2002
66	Geo-Hydrological Investigation and conversion into Tubewell, Sadiqabad.	Fauji Fertilizer Company Limited	2002
67	Hydro geological Investigation and conversion into Tubewell upto 400' depth at S.I.T.E Area, Karachi.	Eastern International	2002
68	Hydro geological Investigation and conversion into Tubewell at Abbotabad Cricket Stadium.	Pakistan Cricket Board	2002

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No	PROJECT	CLIENT	YEAR
69	Hydro geological Investigation and conversion into Tubewell upto 300' depth at Korangi Industrial Area.	Rajby Industries	2002
70	Supply, Installation & Commissioning of 2 No's Centrifugal pumps at SUPARCO S.G.S Islamabad.	SUPARCO	2001
71	Hydro Geological Investigation of 300ft. depth test bore.	Baluchistan Laminates	2001
72	Hydro Geological Investigation & Conversion into tubewell 1000ft. depth at Gatron Industries Limited.	Gatron Industries Ltd.	2001
73	Hydro Geological Investigation & Conversion into tubewell at Engineering Consortium, Gadap.	Engineering Consortium	2001
74	Hydro Geological Investigation & Conversion into tubewell upto 400ft. depth at Marriott - Hotel.	Marriott Hotel	2001
75	Drilling, Designing & Conversion of 400ft. depth test bore into tubewell at Khanani Corporation .	Khanani Corporation	2001
76	Hydro Geological Investigation upto 500ft. depth test bore hole at Rauf Textile Mills Ltd. S.I.T.E, Karachi.	Rauf Textile Mills Ltd.	2001
77	Hydro Geological Investigation & Conversion into tubewell upto 300 ft. depth at Multan Cricket Stadium.	Pakistan Cricket Board	2001
78	Drilling, Designing & Installation of tubewell at CARS farm Malir, Karachi.	PARC	2001
79	Hydro Geological Investigation & Conversion into tubewell upto 500ft. depth of Galaxo Wellcome Limited, Factory, Karachi.	Galaxo Wellcome Ltd.	2001
80	Hydro Geological Investigation and conversion into tubewell at Bukhari farms super highway.	Khadim Ali Shah Bukhari & Co.	2001
81	Hydro Geological Investigation & Conversion into tubewell upto 500ft. depth at Aga Khan University Collage Arts and Science.	Aga Khan University , Karachi	2001
82	Hydro Geological Investigation & Conversion into tubewell upto 1000ft. depth at Afroze Textile Industries , F.B Area , Karachi.	Afroze Textile Mills Industries	2001
83	Hydro Geological Investigation 500ft. depth test bore at at Ali Gohar Pharmaceutical (Pvt.) Ltd.	Ali Gohar Pharmaceutical (Pvt.) Ltd.	2001
84	Hydro Geological Investigation & Conversion into tubewell 1000ft. depth at Gatron Industries Ltd.	Gatron Industries Ltd.	2001
85	Tubewell for Pakistan Agriculture Research Council in dist. Malir 480ft. depth.	PARC	2000
86	Drilling, Design & Installation of tubewell at Habib Bank Plaza Karachi upto 500ft. depth.	Habib Bank Plaza	2000

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No	PROJECT	CLIENT	YEAR
87	Hydro Geological Investigation in Korangi Industrial Area for testbore upto 350ft. depth.	Kings Food	2000
88	Hydro Geological Investigation in HIC for test bore upto 600ft. depth .	Hamdard Industrial Complex	2000
89	Hydro Geological Investigation in Hamdard University, Madinat-ul-Hikmah for 2 Nos. of test bore 360ft. and 450ft. depth.	Hamdard University	2000
90	Hydro Geological Investigation of 400ft. depth test bore in Khanani Corporation.	Khanani Corporation	2000
91	Drilling, Designing & Conversion of 15" dia tubewell upto 1000ft. depth in F.B Industrial Area.	Afroze Textile Mills	2000
92	Drilling, Designing & Conversion of 375ft. depth test bore into tubewell at Hamdard University, Madinat-ul- Hikmah.	Hamdard University	2000
93	Hydro Geological Investigation & conversion into tubewell upto 250ft. depth at Karam Ceramics, Hub Dam Road .	Karam Ceramics	2000
94	Hydro Geological Investigation of 400ft. depth test bore and conversion into tubewell at Karachi University .	Karachi University	2000
95	Supply & Installation of pump for PSO Shaikharpur Depot.	Pakistan State Oil Co. Ltd.	2000
96	Drilling of tube well 300ft. depth at Sargodha.	Pakistan State Oil Co. Ltd.	2000
97	Hydro Geological Investigation & Conversion in to Tubewell in Jam Kanda (Dist. Malir) 400ft. depth.	PARC	2000
98	Drilling of Tubewell 250ft. depth at Secondary Runway Karachi Airport.	Engineering Construction Ltd.	1999
99	Hydro Geological Investigation at Bristol Myers and Squibb Pakistan Ltd Korangi Industrial Area 500ft. depth.	Bristol Myers & Squibb	1999
100	Thrust Horizontal Boring underneath Rail Track to pass cable near Pipri.	Pakistan State Oil Co. Ltd.	1999
101	Construction of Secondary runway at Quaid-e-Azam Airport Karachi S.H: 50 Nos. tubewells and 12 Nos Piezometer for Engineering Construction International.	CAA (NESPAK)	1999
102	Hydro Geological Investigations in Korangi Industrial Area for 2 nd test bore upto 400ft. depth.	Bristol Myers & Squibb	1999
103	Installation of submersible pump and replacement of M.S pipes with accessories at Superhighway tubewell.	PEC (PIA)	1999
104	Installation of Submersible pump to obtain water from ground sources at Kulsum Bai Valika Society Site Hospital, Karachi.	KBVH	1999

WORKS EXECUTED**GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION**

No	PROJECT	CLIENT	YEAR
105	Hydro Geological Investigations at Bagh-e-Quaid-e-Azam Mazar-e-Quaid upto 530ft. depth for M Rafique & Co Ltd.	Mazar -e- Quaid	1999
106	Hydro Geological Investigation & Conversion into tubewell upto 500ft. depth for M/S Taurus Ltd.	KANUPP	1999
107	Hydro Geological Investigations & Conversion into tubewell 485ft. depth for M/S HMA Stainless Steel (Grundfos).	Precession Engg Complex (PIA)	1999
108	Drilling, Designing & Conversion into tubewell upto 350ft. depth.	Bristol Myers & Squibb	1999
109	Hydro Geological Investigations & conversion into tubewell 380ft. depth at Sonmiani POP for Tameera t.	POF Sonmiani	1999
110	Hydro Geological Investigation & conversion in to tubewell 710ft. depth in Landhi Industrial Area 2Nos. Tubewells and 1No. Test bore.	Yunus Textile Mills	1999
111	Supply of submersible pump for LOBP Keamari.	Shell Pakistan Ltd	1999
112	Muhammad Farooq Textile 12" dia. Tubewell 250ft. depth without material.	Farooq Textile	1998
113	Hydro Geological Investigation at LOBP Keamari upto 300ft. depth.	Shell Pakistan Ltd	1998
114	Drilling and Installation of 23 Nos. of Water Supply Schemes in Northern Central, Southern Thar Desert 300ft. to 1000ft. depth.	SAZDA	1998
115	Hydro Geological Investigation & construction of tubewell at KIS near SUPARCO HQ. 250ft. depth.	SUPARCO	1998
116	Hydro Geological Investigation at SUPARCO plant upto 450ft. depth.	SUPARCO	1998
117	Drilling, Designing & Conversion into tubewell at LOBP Keamari upto 265ft. depth.	Shell Pakistan Ltd	1998
118	Hydro Geological Investigation & Conversion of 2Nos Tubewell at S.G.S Islamabad each 450ft. depth.	SUPARCO Islamabad	1998
119	Drilling construction and testing of 2Nos. tubewells at Machike (Sheikhupura)	Shell Pakistan Ltd.	1997
120	Drilling of Tubewell 500ft. depth at ICL Factory S.I.T.E, Karachi.	ICL	1997
121	Thrust (Horizontal) boring underneath railway tracks within shell premises in Keamari Area.	Shell Pakistan Ltd.	1997

WORKS EXECUTED
GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION

No	PROJECT	CLIENT	YEAR
122	Drilling & design of Tubewell 300ft. depth at gasoline and Kerosine Terminal KTA.	Pakistan State Oil Co. Ltd.	1997
123	Hydro Geological Investigation at site commercial cum conventional conference Complex behind FTC, Karachi.	State Life Insurance Corporation	1997
124	Hydro Geological Investigation & Conversion into tubewell at SLIC Building Gujrat 550ft. depth.	State Life Insurance Corporation	1997
125	Drilling, Designing & Installation of Tubewell at Kala Shah Kaku.	Pakistan State Oil Co. Ltd.	1996
126	Hydro Geological Investigations upto 500ft. depth at Habib Bank Plaza.	Habib Bank Plaza	1996
127	Drilling, Designing & Installation of Tubewell 500ft. depth at Pipri Terminal.	Pakistan State Oil Co. Ltd.	1996
128	Hydro Geological Investigations & conversion into tubewell 4 Nos. of 60ft. depth for ADL at Sang Jani Rawalpindi.	PECTO CEMENT	1995
129	Drilling & Installation of Tubewell 1000ft. depth at Port Qasim.	Evian Malaysia Firm	1995
130	Supply of 10 KVA Generator and MCU.	SAZDA	1995
131	Drilling, Designing & Installation of 2 Nos. tubewells 480ft. depth each at Pipri Bulk Supply Depot, Karachi & submission of report.	Pakistan State Oil Co. Ltd.	1995
132	Drilling, Designing & Installation of tube wells 2 Nos. 450ft. depth each at Port Qasim Terminal, Karachi & submission of report.	Pakistan State Oil Co. Ltd.	1995
133	Drilling, designing & Installation of Tubewell at Machike Bulk Supply Depot.	Pakistan State Oil Co. Ltd.	1995
134	8 Nos. Test Bores & Tubewells in Expansion Project Area for Fauji Fertilizers & submission of report upto 300ft. depth.	Fauji Fertilizers Company Ltd.	1994
135	Drilling & Installation of tubewell 300ft. depth at Children Hospital, Quetta.	Siemens	1994
136	Establishment of water supply Schemes on 10 Nos. tubewells.	SAZDA	1994
137	Establishment of 4 Nos. tubewells, Water Supply Schemes in Thar Desert.	SAZDA	1994
138	Designing & Construction of Dugwell at Kemari Terminal - A.	PSO	1994
139	Soil Investigation at Children Hospital, Quetta.	Siemens	1994

WORKS EXECUTED

GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION

No	PROJECT	CLIENT	YEAR
140	Drilling, Designing & Installation of tubewell in Thar Desert (10 Nos.) of 200ft. to 400ft. depth.	SAZDA	1993
141	Drilling, Designing & Installation of test bore and tubewell 500ft. depth for Defence housing Authority, Karachi & submission of report.	Pak Maple Leaf Enterprises	1993
142	Drilling & designing of test bore and tubewell 400ft. depth at S.I.T.E. Area, Karachi and submission of report.	Al-Abbas Fabrics	1993
143	Drilling, Designing & Installation of tubewell (2 Nos.) at Uthal 300ft. depth and submission of report.	Saddullah Khan & Bros.	1993
144	Drilling, Designing & Installation of tubewell at Peshawar Airport & submission of report.	Pakistan State Oil Co. Ltd.	1992
145	Drilling, Designing & Installation of tubewell 300ft. depth at Sanghi Depot & submission of report.	Pakistan State Oil Co. Ltd.	1992
146	Drilling, Designing & Installation of tubewell 400ft. depth at Kot Nabi Bakshwala, Ferozepur Road, Lahore. (Without ease of material)	Pharmagen Beximco	1992
147	Drilling, Designing & Installation of tubewell 300ft. depth at Habibabad Bulk supply Depot & submission of report.	Pakistan State Oil Co. Ltd.	1992
148	Drilling of test bore for tubewell 430ft. depth and its designing at S.I.T.E. Karachi.	G.S Industries	1992
149	Drilling, Designing & Installation of tubewell 425ft. depth at Lala Musa Chak Pirana Depot & submission of report.	Pakistan State Oil Co. Ltd.	1991
150	Drilling, Designing & Installation of tubewell 500ft depth at Civil Aviation Station, Lahore Airport & submission of report.	Pakistan State Oil Co. Ltd.	1991
151	Drilling, Designing & Installation of tubewell 300ft. depth at Shershah Depot, Multan & submission of report.	Pakistan State Oil Co. Ltd.	1991
152	Drilling, Designing & Installation of tubewell at Sihala Depot & submission of report.	Pakistan State Oil Co. Ltd.	1991
153	Drilling, Designing & Installation of tubewell 200ft. depth at Taru Jaba Depot, Peshawar & submission of report.	Pakistan State Oil Co. Ltd.	1989
154	Drilling, Designing & Installation of tubewell at Faisalabad Depot.	Pakistan State Oil Co. Ltd.	1989
155	Drilling & Installation of tubewell 300ft. depth at Pasni Depot.	Pakistan State Oil Co. Ltd.	1989
156	Drilling, Designing & Installation of 2 Nos. tubewells at Khuzdar & submission of report.	Pakistan State Oil Co. Ltd.	1989

WORKS EXECUTED
GROUNDWATER INVESTIGATION & TUBEWELL DRILLING SECTION

No	PROJECT	CLIENT	YEAR
157	Drilling & Installation of tubewell at Islamabad Airport.	ADL.	1982
158	Drilling work at Mangla Dam for WAPDA. under Contract No: SWD/AGR-53-82, Dated: 28-4-82. A) Drilling & Installation of 13 Nos. Piezometer Core Drilling Bore Holes. B) Drilling and installation of Relief Wells along left Bank main Spillway. C) Drilling & Installation of Slope indicators at Jari Dam.	WAPDA.	1982
159	Drilling at Mangla Dam under Contract No: INST/AGR/2, Dated 13-12-82 A) Core drilling of 7 Nos. bore holes upto 300ft. depth. B) Drilling and installation of Casagrande pots at 9 Nos. bore holes.	WAPDA	1982

WORKS EXECUTED

International Projects

INTERNATIONAL PROJECTS

WORKS EXECUTED

TUBEWELL & GEO-TECHNICAL WORKS

No	PROJECT	CLIENT	YEAR
1	Design, Construction and Development of 2 Bore Wells in Male' Island, Maldives	MALE WATER & SEWERAGE BOARD	2006
2	Design, Construction and Development of 2 Bore Wells in Maafushi' Island, Maldives	MALE WATER & SEWERAGE BOARD	2003
3	Design, Construction and Development of 2 Bore Wells in Hulhumale' Island, Maldives	MALE WATER & SEWERAGE BOARD	2003
4	Design, Construction and Development of 2 Bore Wells in Male' Island, Maldives	MALE WATER & SEWERAGE BOARD	2002

WORK EXECUTED

Geo Electric Resistivity Section

WORKS EXECUTED**GEO-ELECTRIC RESISTIVITY SURVEY**

NO	PROJECT	CLIENT
1	Geo-Electric Resistivity Survey for PSO Bulk Supply Depot - Pipri, Karachi.	Pakistan State Oil Co. Ltd.
2	Geo-Electric Resistivity Survey for Gulshan-e-Millat Housing Scheme, Karachi.	Gulshan-e-Millat Housing Scheme.
3	Geo-Electric Resistivity Survey at PSO Bulk Supply Depot- Pasni, Baluchistan.	Pakistan State Oil Co. Ltd.
4	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	Crescent Mills.
5	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	Sterling Plywood Industries.
6	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	Jhinga Factory.
7	Geo-Electric Resistivity Survey at Godown S.I.T.E, Karachi.	Northern Traders.
8	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	National Silicate & Allied Industries.
9	Geo-Electric Resistivity Survey at PSO Bulk Supply Depot - Khuzdar, Karachi.	Pakistan State Oil Co. Ltd.
10	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	G.S Industries (Pvt.) Ltd.
11	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	Glamour Industries (Pvt.) Ltd.
12	Geo-Electric Resistivity Survey at S.I.T.E, Karachi.	Bairy Textile (Pvt.) Ltd.
13	Geo-Electric Resistivity Survey at Urban Housing Developments Project Gulshan-e-Jawher, Scheme -33, Karachi.	Agha Khan Hospital.
14	Geo-Electric Resistivity Survey at Karachi.	Agha Khan Medical Complex.
15	Geo-Electric Resistivity Survey at Suparco Plant, Karachi.	SUPARCO.
16	Geo-Electric Resistivity Survey at Faqir Goth Dist. Malir, Karachi.	Pakistan Agriculture Research Council.
17	Geo-Electric Resistivity Survey at Jam Kando, Karachi.	Pakistan Agriculture Research Council.
18	Geo-Electric Resistivity Survey (Pakistan Papersack Corporation Ltd.), Hub Chowki, Baluchistan.	Baluchistan Laminates.
19	Geo-Electric Resistivity Survey at F.B Area, Karachi.	Afroze Textile Mills Ltd.
23	Geo-Electric Resistivity Survey at S.I.T.E Area Karachi.	Al- Mehran Chemicals Ltd.
24	Geo-Electric Resistivity Survey at S.I.T.E Area Karachi.	FairDeal Textile Mills Ltd.
25	Geo-Electric Resistivity Survey at Hyderabad.	Habib Cane Sugar Farm.
26	Geo-Electric Resistivity Survey at S.I.T.E Area Karachi.	Imperial Construction Company.

WORKS EXECUTED**GEO-ELECTRIC RESISTIVITY SURVEY**

NO	PROJECT	CLIENT
27	Geo-Electric Resistivity Survey at Abbotabad Cricket Stadium.	Pakistan Cricket Board.
28	Geo-Electric Resistivity Survey at Ahmed Pur Lammah , Goth Machhi , Sadiqabad.	Fauji Fertilizers Company.
29	Geo-Electric Resistivity Survey at Township Area, Goth Machhi , Sadiqabad.	Fauji Fertilizers Company.
30	Geo-Electric Resistivity Survey at Mir Pur Mathelo.	Fauji Fertilizers Company.
31	Geo-Electric Resistivity Survey at F.B. Area , Karachi.	Afroze Textile Mills Ltd.
32	Geo Electric Resistivity Survey	Johnson & Johnson Pakistan
33	Geo Electric Resistivity Survey	Kashmore Cantonment

WORKS EXECUTED

GEO TECHNICAL AND PILLING SECTION

WORKS EXECUTED**PILLING WORKS EXECUTED**

No	PROJECT	CLIENT	YEAR
1	40 Nos. 30" dia. Piles at Dharki	Engro Chemicals Ltd.	2004
2	28 Nos. 30" dia. Piles Bridge No: 3 at Basema Nag Project Road, Punjgor.	B&R Quetta	2000
3	40 Nos. 26" dia. Piles Bridge No: 3 & 4 at Angela Zaheri Road, Khuzdar.	B&R Quetta	1998
4	76 Nos. 30" dia. Piles Lasbela Bridge at Karachi.	KMC	1997
5	56 Nos. 30" dia. Piles Porali Bridge at RCD Highway Bela, Baluchistan.	NHA	1996
6	21 Nos. 28" dia. Piles Memon Goth Bridge at Karachi.	Sindh Highway Karachi	1995
7	216 Nos. 16" dia. Piles for Government Degree College at Jungle Shah Keamari, Karachi.	Education Work Department	1994
8	97 Nos. 22" dia. Piles Jinnah Bridge at Karachi.	China	1994

MECHANICAL, FABRICATION , CIVIL AND PIPING SECTION

MAJOR EQUIPMENTS

Mechanical and Piping Section

LIST OF MAJOR EQUIPMENTS AVAILABLE WITH THE COMPANY**MECHANICAL & PIPING SECTION****A. WELDING EQUIPMENTS:**

i.	Diesel driven/Trolley mounted	Lincon 400 A	4 Nos.
ii.	Electric Driven Rotaries	Checko 375 A	6 Nos.
iii.	Electric Driven Rotaries	Lincon 400 A	1 No.
iv.	Electric Driven Rotaries	Brown 300 A	1 No.
v.	Transformer	China 400 A	2 Nos.
vi.	50 KW Generator	Leyland Engine	1 No.

B. CUTTING EQUIPMENTS:

i.	Gas cutter Manual	BOC	4 Nos.
ii.	Cylinder Burshane		6 Nos.
iii.	Nozzle	Japan	11 Nos.
iv.	Regulator Oxygen	China	7 Nos.
v.	Regulator Burshane	China	3 Nos.
vi.	Regulator Fon Gas	China	6 Nos.
vii.	Oxygen Cylinder	BOC	12 Nos.

C. TANK ERECTION EQUIPMENT AND TANKS:

i.	Jack Hydraulic	China 20 Tons	10 Nos.
ii.	Jack Hydraulic	China 10 Tons	3 Nos.
iii.	Wooden Planks	Local 10' Length	300 Nos.
iv.	Supporting Angle		40 Nos.

D. WELDING EQUIPMENTS:

i.	M.S. Plate Bending Machine 6' upto 16mm		2 Nos.
ii.	Grinder 9"	Hitachi	2 Nos.
iii.	Grinder 9"	Goldstar	6 Nos.
iv.	Winch Machines Manual		2 Nos.
v.	Chain Block	Chain 3 Ton	8 Nos.
vi.	Chain Block	Chain 5 Ton	3 Nos.

E. ELECTRIC ITEMS:

i.	Main Switch	Fico	4 Nos.
ii.	Electric Cable	35mm.	1500'
iii.	Oxygen Pipe		1000'
iv.	Pressure Pipe		800'
v.	Electric Cable	50mm.	2000'
vi.	Wire Rope	1" dia	700'

LIST OF MAJOR EQUIPMENTS AVAILABLE WITH THE COMPANY

MECHANICAL & PIPING SECTION

F. SAND BLASTING:

i.	Atlas Copco	150 PSI	1 No.
ii.	Inger Sol Rand	250 PSI	1 No.
iii.	Hopper with accessories		1 Set.

WORKS EXECUTED

MECHANICAL & PIPING SECTION

WORKS EXECUTED**MECHANICAL & PIPING WORKS**

No.	PROJECT	CLIENT
1	Fabrication of 100' dia Tank No. 403 at KT-A, Keamari, Karachi. (Excluding Material) * JV with Marine Engineering Works.	Pakistan State Oil Co. Ltd.
2	Fabrication of 50' dia. Tank No. 408 at KT-A Keamari, Karachi (Excluding Material) * JV with Marine Engineering Works.	Pakistan State Oil Co. Ltd.
3	Fabrication of 50' dia. Tank No. 413 at KT-A Keamari, Karachi. (Excluding Material)	Pakistan State Oil Co. Ltd.
4	Fabrication of 50' dia. Tank No. 203 at KT-C Keamari, Karachi (Excluding Material) * JV with Marine Engineering Works.	Pakistan State Oil Co. Ltd.
5	Fabrication of 50' dia. Tank No. 202 at KT-C Keamari, Karachi for PSO. (Excluding Material)	Pakistan State Oil Co. Ltd.
6	Fabrication of 50' dia. bottom at Tank No. 435 at KT-A Keamari, Karachi. (Excluding Material)	Pyramid
7	Fabrication of 50' dia. Tank No. 437 at KT-A Keamari, Karachi. (Excluding Material)	Pakistan State Oil Co. Ltd.
8	Dismantling & Reconstruction of Tank NO. 412 at PSO Terminal-A, Keamari. Height 13 MT, Dia 18 MT, Weight 108597 KG.	Pakistan State Oil Co. Ltd.
9	Dismantling & Reconstruction of Tank NO. 409 at SO Terminal- A, Keamari. Height 14.5 MT, Dia 15.24 MT, Weight 87271 KG.	Pakistan State Oil Co. Ltd.
10	Enamel painting of product pipe lines, Pumps Receipt, Manifolds, Receipts / Delivery pipe lines from storage Tanks to pump room/ Manifolds Tank Truck gravity (3 Nos.) including the ir complete steel s tructure etc. at KT-B including sand blasting and painting.	Pakistan State Oil Co. Ltd.
11	Repairing of Tank Shell to bottom joint of T-303 at KT-B Dia. 24.38 MT, Height 10.3 MT, Weight 1800 KG including sand blasting and painting.	Pakistan State Oil Co. Ltd.
12	Construction of vertical and horizontal tanks and pipe line system at Kohat Depot. 1 No. vertical tanks Dia 69 ft, Height 7.5 MT, Weight 221482 Kg, 5 Nos.	Pakistan State Oil Co. Ltd.
13	Dismantling & Reconstruction of tank T- 401 at KTA-A Karachi. Height 10.3 MT, Weight 200,000 Kg.	Pakistan State Oil Co. Ltd.
14	Re-roofing, Re Bottoming & repair of Shell Tank No. T-434 at KTA-A Karachi. Height 9.10 Mt, Dia 6 MT, Weight 22000 Kg.	Pakistan State Oil Co. Ltd.

WORKS EXECUTED**MECHANICAL & PIPING WORKS**

No.	PROJECT	CLIENT
15	Epoxy coating on internal surface of fire water storage steel open top tanks Dia 30', Height 24.6' 5 Nos. sites at Pasni Khuzdar, Quetta, Sanghi and Daulatpur Depots.	Pakistan State Oil Co. Ltd.
16	Dismantling & Reconstruction of entire tank T-436, including sand blasting & painting, Dia 6 MT, Weight 23000 Kg at Keamari.	Pakistan State Oil Co. Ltd.
17	Dismantling & Reconstruction of tank T-410, including sand blasting & painting, Dia 12.19 MT, Weight 56783 Kg. (Keamari)	Pakistan State Oil Co. Ltd.
18	Dismantling & Reconstruction of tank T-407, including sand blasting & painting and client works, Dia 18.2 MT, Height 14.02 MT, Weight 109956 Kg. (Keamari)	Pakistan State Oil Co. Ltd.
19	Construction of Sand Pad & Fabrication of Steel Tanks complete with pipeline system at Multan Airport.	Pakistan State Oil Co. Ltd.
20	Dismantling & Reconstruction of Tank at KT-C 204, Dia 86 Mt, Weight 78000 Kg	Pakistan State Oil Co. Ltd.
21	Painting of Tanks at Shersha h near Multan .	Pakistan State Oil Co. Ltd.
22	Painting of steel structure (Trusses) of 5 Nos. Store Ware Houses at Kerosine Section KT-A.	Pakistan State Oil Co. Ltd.
23	Painting of Main Storage Tanks at Shersha h –B.	Pakistan State Oil Co. Ltd.
24	Painting works of Product Tanks at PSO ZOT Pipri.	Pakistan State Oil Co. Ltd.

TELECOMMUNICATION SECTION

SERVICES OFFERED UNDER TELECOMMUNICATION SECTION

1. Site Acquisition
 - a. Hunting of sites suitable for installation of Telecommunication Towers & Antennas.
 - b. Technical Surveys of Acquired Sites.
 - c. Processing and Filing of Complete Documentation for Acquired Site.
 - d. Lease Agreement for the selected site.

2. NOCs
 - a. TMA Approvals.
 - b. Approval from Govt. Agencies.
 - c. Approval from Ministry and Local bodies.

3. Power
 - a. Installation of Electrical Meters by the concerned Electric supply authority.

4. Civil Work
 - a. Telecommunication Site kickoff.
 - b. Drafting Telecommunication Site Layout and Plans.
 - c. Concrete Foundation Strength test for installation of telecommunication Towers.
 - d. Installation of Telecommunication Towers.
 - e. Concerned Shelter Assembling and Energizing for Towers.
 - f. Generator Installation and Commissioning.
 - g. ATP/FAC

5. BSS Implementation
 - a. BTS Installation Indoor / Outdoor
 - b. VSWR Testing
 - c. Alarm Testing
 - d. Rectifier Installation and Commissioning
 - e. Drive testing

6. MW Transmission Implementation
 - a. Installation and commissioning of Microwave (MW) Equipments
 - b. ATP / FAC MW

Major Clients:

NSN, IKAN Engineering Services, Crystal Engineering Services, SIFCO Engineering Services, WINCOM, Ericsson, Etisalat.



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