SOIL TECHNIQUE CONTRACTING AND TRADING CO. LTD

شركة تقنيات التربة للمقاولات والتجارة العامة المحدودة

BAGHAD - IRAQ

بغداد - العراق
SOILTECH, established in 2013 as a piling and foundation contracting company, specialized in piling works and activities. It is founded to be a leader in piling and geotechnical fields as the company has professional and qualified engineers with experiences extended to over 30 years in foundation practice in Iraq covering all type of piling and foundation constructions and designs.

SOILTECH activities are three-folded;

A. Supply of Piling Equipment Accessories and Materials

Piling works is our main activity that includes supplying materials and accessories for client’s requirement to the continuity of his work, such as:

1. Drilling tools:
   SOILTECH, is the agent of “KAMAR” (a high quality drilling tools producer in India) (www.kamargroup.com). KAMAR are specialized in production of most of the necessary accessories for drilling rigs such as:
   - Auger & Buckets, heavy duty drilling tools suitable to work under high torque of different piling rigs brands.
   - Kelly Bar, for all kind of machines as required specification.
   - Drilling teeth, for all kind of required soil conditions.

2. Bentonite:
   As known, Indian Bentonite is a good source for sodium base Bentonite. SOILTECH, is the agent of “SHIVAM” (www.shivam.net), the largest Bentonite producer in India. SHIVAM produces high quality sodium based activated Bentonite for:
   - Piling grade.
   - Oil field.
3. **Vibratory Hammers:**
SOILTECH, is agent for the most powerful vibratory hammers suppliers “ICE, International Construction Equipment” (www.iceusa.com) which are the worldwide leaders in this field. Their products are very well known for their hydraulic hammers that are used for driving and extracting different type of steel piles (sheet piles, H-piles and steel casings up to 2m in diameter).

4. **Sheet Piles:**
SOILTECH, is a dealer to MDC, “Iraq Development Company Ltd” (www.mdc-holding.com) to supply different types of sheet piles from different international sources as required (ThyssenKrupp, Sumitomo and Hyundai).

5. **Steel Casings:**
SOILTECH, can provide spiral steel pipes in different diameters from “UFUK” Turkish manufacturer (www.ufukboru.com.tr).

**B. Piling Construction**

The long extended experience of our staff allows them to cover the following piling works:
1. Large diameter bored bore piles supported by Bentonite slurry.
2. Steel piles (sheet piles, H-pile, Tubular and other steel sections).
3. Precast concrete piles.
4. Concrete Retaining walls.
5. Sheet pile walls (Cantilever and Anchored Sheet Piles).
7. Temporary steel bridges and jetties.
8. Secant piles.
10. Pile tests.

Major piling projects in Iraq implemented by our qualified expert engineers for past years;
- Latifiya Bridge Project (Baghdad Province): piling/ First piling job for Iraqi engineers cross river Euphrates/ piling cross river section using temporary steel bridge / Φ1500mm bored piles and steel bridge/1987
- Rawa Bridge Project (Al-Anbar Province)- piling /Φ1500mm bored piles / piles cross river Euphrates using floating pontoons/ drilling through rocks using special tools/ 1990
- Al Mamoon Communication Tower Project (Baghdad City): piling/ Φ1500mm bored piles 42m depth/1993
- Two Storey Bridge Project (Baghdad City): piling / piles cross river Tigress using floating pontoons/ Φ1500mm bored piles/1993.
- Implementation to many other projects from 1993 till now.

C. Consultation, Design and Supervision

SOILTECH, has consultants and qualified engineers to commence the following:
1. Pile design for all type of constructions including design drawings.
2. Piling project management.
3. Piling projects supervision.
4. Piling and foundation consultation works.

A list of some of previous designs, technical reports and supervisions for various projects in Iraq are shown below. This list shows milestones of some notable designs through the 35 years experience of our staff:

- **Foundation Design** of 10- Storey Building in Al-Jamhuria Street (Baghdad City)/ Displacement Cased Piles / 1979
- **Sand Drains** in the 10 berth ports at Umm-Qasr Harbor (Basrah Province)/ Design and Supervision/ 1984.
- Supervision of installation of piles for the **Al-Rahman Mosque** (Baghdad City)/ Bored Piles/ 1996-1998.
- Design of **sheet piles** in Sharq Dijla water pumping station (Baghdad City)/ Technical Report and Design Drawings/ 2005
- **Foundation Design of Elevated Water Tank** and **Ground Reservoir Tank** for three locations in **Basrah City/ Technical Report and Design Drawings/ Combination between Bored Piles and Precast Piles/ 2007**.

- **Foundation Design** for **132 kV Power Towers in Hillah-Hashmya –Babilyon Province /Technical Report and Design Drawings/ Precast Piles/ 2007**.

- **Geotechnical design** of all foundations for **Basrah Sport City- Basrah City/ Technical Report and Design Drawings/ Different types of foundations including Bored Piles, Precast Piles and Preloading/ 2009-2011**

- **Foundation Design of Al-Gharraf Bridge (Dhi Qar Province-Iraq)/ Open Ended Cased Piles/ 2013**.

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