Company Profile
Introduction

Sparr Drilling Company Limited is one of the leading borehole drilling contractors in Kenya, Tanzania and Sudan.

Established twenty years ago, the company owns four modern, state-of-art Rotary Drilling Rigs and Elgi Compressors all using Down The Hole (DTH) drilling method, clearly putting us ahead of the competition in the drilling industry. Unit Two Drilling Rig has a capacity of 250 meters, Unit Three – 320 meters, Unit Four-360 meters and the latest addition to the Sparr Drilling team; Unit 5 which has a capacity of 400 meters.

Sparr Drilling Co. Ltd has been performing drilling works in the Kenyan region for approximately 20 years. With this experience in mind, we have extensive knowledge in the field of borehole drilling and understand requirements of specific customers as well as projects. The company has been involved in a number of projects involving evaluation, baseline studies, feasibility studies, environmental impact assessment, project design and proposal development, community need assessment etc.

Currently the company employs four drillers and two assistants with over thirty years combined experience in drilling and maintenance of the machines. The Company has a total of forty employees, who form part of the drilling crew in their respective units. For pump and recovery tests, the company has six pumps for use on site, including the necessary equipment to lower and lift submersible pumps.

At Sparr, we have the capacity and expertise needed to satisfy all your drilling requirements. The company has established an exceptional reputation as a provider of quality service with international recognition. All our works meet local and international standards.

**We seek to become the borehole driller of choice for the customer who demands professional services**

__Drilling Works taking place on site, striking a good yield of water__
Our Focus

At Sparr, we have a sound background and expertise in the areas of Borehole drilling, Borehole design, Ground work, Borehole pump equipping, Borehole rehabilitation, Water treatment, Pump testing and installation. The guiding philosophy and focus behind our services is to provide a hygienic water supply and improve sanitation to diminish the negative impact on health as well as boosting the rural economy without harming the environment.

Our Mission

**Sparr Drilling Co. Ltd** is a company established by highly qualified and experienced staff with a very high reputation in their field of expertise, as private limited company, to contribute towards promoting self-reliance and social progress in Kenya, Tanzania and Sudan.

Sparr is dedicated to providing clients with personalized service, unmatched in the drilling industry. We guarantee to meet the demands of your project in a timely, cost-effective manner, while upholding our standard of superiority. At Sparr, we strive to maintain a professional work setting in which integrity, excellence and safety is maintained.
Core Principles

Sparr has built upon the experiences and expertise of its staff with long years of hands on experience in diverse development areas throughout Kenya, Tanzania and Sudan. The staff practical experience, careful screening of our freelance consultants coupled with our thorough in house product review helps us to ensure that all our consultancy assignments are done up to the highest professional standards and to the satisfaction of the client.

Areas of Core Competence and Services

Our focus is on the provision of cutting edge of management and governance thinking underpinned by follow-up support for our clients (Govt., NGOs, Multilateral and Bilateral organizations) and their target groups at all levels. We know that improving the performance of service delivering institutions, economic actors, and community at large so that the quality of people's lives changes, requires sustainable development, and this is impossible without the participation of the communities’ we are trying to support and the flexibility on our part to adapt to different cultures, environments and circumstances. Our experts bring authoritative technical expertise in helping to devise and to bring to life practical development programs.

Sparr has added another Drilling Rig to its existing setup with advances technology, equipped with trained personnel and a support vehicle to offer complete integrated services to execute an entire project from conception to completion.
OUR SERVICES

Study
After the contract has been formalized, our technical team will visit the site along with geologists to identify the best place to carry out the drilling process.

Mobilization
The drilling rig accompanied by a support truck will reach the site. Based on the soil and rock formation conditions, we would take approximately 3 hours to prepare for the drilling process.

Borehole Drilling
The drilling is carried out by using the “Down-The-Hole” (DTH) technology. This system works by using high compressed air built within our drilling rig. The size of the hole can vary depending on the requirement of the client.

As the drilling process continuous, geological rock samples are taken at 2 meter intervals. Struck and water rest levels are constantly recorded. This process enables us to estimate the yield of individual aquifers encountered.

Well Casing
Once the borehole has been drilled, it must be lined with either steel or UPVC casing. The casing process keeps the well open and protects the earth, similar to the efforts to protect groundwater. The hard metal casing shores up the wellbore and extends through both the verticality and the horizontal drilling phases, assuring the long-term integrity of the well from end-to-end. In addition to providing stabilization and keeping the sides of the well from caving in on themselves, casing protects the well stream.
Well Development

Once the screen, pack, seals and backfill have been installed, the well is developed. This development aims at repairing the damage done to the aquifer during the course of drilling by removing clays and other additives from the borehole. This also alters the physical characteristics of aquifer around the screen and removes fine particles.

The use of over pumping as a means of development is not advocated since it only increases permeability in zones which are already permeable. Instead, we recommend mechanical surging with a plunger or the use of air or water jetting which physically agitates the gravel pack and adjacent aquifer material. This is an extremely efficient method of developing and cleaning wells.

Well Testing

After development and preliminary tests, a long-duration well test is carried out. Well tests have to be carried out on all newly-completed wells, because not only does this give an indication of the success of the drilling, design and development, but it also yields formation on aquifer parameters which are vital to the hydrogeologist.

A well test consists of pumping a well from a measured static water level (SWL) at a known or measured yield, and recording the rate and pattern by which the water level within the well changes. Once a dynamic water level (DWL) is reached, rate of inflow to the well equals the rate of pumping. Today, it is a common practice to carry out a 'step drawdown test', in which the yield is increased stepwise. Each step is continued until hydraulic equilibrium is reached after which the yield is increased with 50 to 100%. Towards the end of the test a water sample of 2 liters is collected for chemical analysis.

The duration of the test is 24 hours, with a further 8 hours for a recovery test (during which the rate of recovery to SWL is recorded). The results of the test enables the hydrogeologist to calculate the best pumping rate, the installation depth, and the drawdown for a given discharge rate.
FAQ’s

1. What is the total cost of drilling a borehole?
   The cost of drilling a borehole depends on the location and depth of the borehole. Kindly get in touch with us for a quotation.

2. What specific documents do I require?
   - Geological/Hydrological Survey carried out by a registered geologist in the designated country.
   - Environmental impact assessment report
   - NEMA License

   If required, we can assist in acquiring the above permits and licenses.

3. What is a hydro-geological report?
   Once the geologist has surveyed the area, he/she will provide you with a detailed report on the geology of the parcel of land. This report will also indicate the estimated depth of the water and the exact location of the borehole.

4. Why do I need a NEMA report?
   A NEMA report consists of an environmental impact assessment report that details the impact of drilling a borehole on the environment. This is a mandatory requirement by law before drilling of the borehole (in Kenya only).

5. Why do I need a water analysis report?
   After drilling the borehole and doing test pumping, we will take a water sample to the government laboratory for testing. The test results in a water analysis report that indicates whether or not the water is safe for domestic/industrial consumption.
A few of our satisfied clients:

- Action Aid, Kenya
- Sigma Supplies Ltd
- Lion of Kenya Ins. Co. Ltd
- Kenya Bus Service Ltd
- Thrust & Engulf Ltd
- Mastermind
- Muguga University of Science & Technology
- Insurance of East Africa
- American Embassy
- Sarit Centre
- Sikh Temple Makindu
- Rift Valley Academy
- Firestone E. A. Ltd
- Actionaid - Ikanga
- Caltex Oil (K) Ltd.
- Genetics Technologies Ltd
- The Aga Khan Hospital
- Kenya Breweries Limited
- Agip Kenya Limited
- Basco Paints (K) Ltd
- National Famine Relief Fund
- Central Bank of Kenya
- Braeburn High School
- Yaya Towers Ltd.,
- Strathmore College,
- Kenya Seed Company Ltd,
- Indonesian Embassy, Nairobi
- KENGEN Ltd.,
- General Motors (K) Ltd.,
- SOS Kinderdorf International
- New Life Home, Isiolo
- National Museums of Kenya
- Central Bank of Kenya, Nairobi
- Kenya Meteorological Department
- Kenya Red Cross Society
- General Service Unit
- Premier Academy, Nairobi
- Baptist Mission of Kenya
- The Salvation Army
- Total Kenya Ltd
- Standard Group Ltd
- PZ Cussons East Africa Ltd
- Fairview Hotel Ltd
- United Nation Offices Nairobi
- Mara Serena Safari Lodge
- Missionaries of Charity - Mother Teresa
- Thika Power & Lighting Company Limited
- New Stanley Hotel Limited
- British American Tobacco BAT
- International School of Kenya
- Kenchic Limited
- Kenya Power & Lighting Co. Ltd
- African Barrick Gold (Tanzania)
- Geita Gold Mine (Tanzania)
## KENYA

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