



Invoice

Vortex Drilling Uganda

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BILL TO

Wilma Fox child Development Center
Rubaka village Butunduzi
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Western Uganda
UG
STEP.1 (DRILLING ONLY)

Invoice

Date 2 Jul 2025
Due date 2 Sep 2025

Item	Quantity	Price	Amount
Supply of ripped casing pipes The supply of temporary ripped casing pipes involves providing specialized steel or plastic pipes with ridges or threads. These pipes are temporarily installed during drilling operations to stabilize the wellbore and prevent collapse. They support the surrounding soil or rock while the well is being drilled, ensuring the borehole remains open. Once the well is completed or a permanent casing is installed, the temporary casing pipes are typically removed. These pipes are crucial in maintaining the safety and efficiency of drilling operations, especially in loose or unstable formations.	27	US\$97,500	US\$2,632,500
Drilling and overburden installation Drilling and overburden installation refer to the process of drilling through the upper layers of loose or unconsolidated material (overburden) to reach more stable rock or soil beneath. The overburden consists of surface materials like soil, sand, gravel, or loose rock that can collapse into the borehole. To prevent this, casing pipes are installed as the drilling progresses through the overburden, providing stability to the wellbore. Once the overburden is passed, drilling continues into the more solid layers, which may require different techniques and tools. This method ensures the integrity of the well throughout the drilling process.	10	US\$158,500	US\$1,585,000
Transportation of tools to the site The transportation fee of "drilling tools to the site" refers to the cost associated with transporting equipment, materials, or personnel directly to the project site. This fee covers logistics expenses such as fuel, vehicle rental, driver services, and any special handling required for transporting heavy or sensitive equipment. It ensures that all necessary resources arrive safely and on time for the project, particularly in remote or hard-to-reach locations. This fee is typically factored into the overall project cost and varies based on distance, terrain, and the size of the equipment.	1	US\$567,500	US\$567,500
Supply of grouting bags Grouting cement during drilling is the process of injecting a cement mixture into the space between the borehole wall and the casing or around other structures within the well. This helps to seal and stabilize the well, preventing the collapse of the borehole and blocking the entry of surface contaminants or unwanted groundwater into the well. It also ensures a secure and	25	US\$15,000	US\$375,000

Item	Quantity	Price	Amount
borehole, especially in water wells and deep drilling projects.			
stock pile for materials A temporary stock pipe in drilling is used to store and organize drilling materials, such as drilling fluids or cuttings, during the drilling process. It serves as a temporary containment system, helping manage the materials removed from the borehole. This allows for efficient handling, transportation, or disposal of the materials, keeping the drilling site clean and organized. Temporary stock pipes are especially useful for projects involving significant volumes of material that need to be stored temporarily before further processing or removal.	1	USh586,000	USh586,000
Supply of u bacteria growth pipes A U-bacteria growth pipe in drilling refers to a situation where the formation of harmful bacteria, such as iron or sulfur bacteria, occurs inside the pipe used during drilling operations. These bacteria can thrive in the moist, nutrient-rich environment of the well, leading to biofilm development, corrosion of pipes, and clogging of the well system. Preventing U-bacteria growth typically involves proper sanitation, disinfecting drilling equipment, and, in some cases, applying chemical treatments to the well to control bacterial growth and ensure long-term well performance.	25	USh36,500	USh912,500
Supply and installation of U PVC casing (5" nd), including certralizers and bottom cap uPVC (unplasticized polyvinyl chloride) pipes are commonly used in drilling, particularly for water wells, due to their durability, corrosion resistance, and lightweight nature. These pipes are installed as casing or screens within the borehole to provide structural support, prevent contamination, and allow water to flow into the well while keeping out sediments. Unlike metal pipes, uPVC pipes do not rust or degrade when exposed to water or chemicals, making them ideal for long-term use in both fresh and saline water environments. Their ease of installation and maintenance further enhances their utility in drilling operations.	18	USh187,000	USh3,366,000
Supply and installation of sanitary seal Sanitary seals in water drilling are barriers installed at the top of a well to prevent surface contaminants, such as bacteria, chemicals, or debris, from entering the well. Typically made of materials like cement, bentonite, or grout, they are placed between the casing and the borehole wall, extending a few meters below ground. The seal ensures that only groundwater from deeper, cleaner aquifers enters the well, protecting the water quality and preventing pollution from surface sources. Sanitary seals are essential for maintaining safe, potable water in drilled wells.	25	USh29,500	USh737,500
Supply and installation of final pipes Final casing pipes, used during drilling, are the permanent pipes installed in the borehole to stabilize the well and protect its integrity. These pipes line the borehole, preventing it from collapsing and keeping out contaminants from surrounding formations. They also ensure that only the targeted water or resource flows into the well. Once the final casing is in place, it is often cemented to secure it and seal off unwanted layers. Final casing pipes are crucial for the long-term performance, safety, and efficiency of the well.	15	USh97,500	USh1,462,500
Flushing to clean water Borehole flushing after drilling is the process of removing cuttings, debris, and contaminants from the drilled hole. This is typically done using a flushing fluid, such as water or mud, which is pumped down the borehole and then circulated back to the surface. The main purposes of borehole flushing include:	1	USh1,057,500	USh1,057,500

Item	Quantity	Price	Amount
well and ensure a clear pathway for water or other resources.			
2. Cooling and Lubrication: The flushing fluid helps cool the drill bit and lubricate the borehole, reducing wear on equipment and improving drilling efficiency.			
3. Stabilization: By keeping the borehole clean, flushing helps prevent collapses and maintains the stability of the well during and after the drilling process.			
4. Quality Control: It helps in assessing the condition of the borehole and the quality of the surrounding formation by providing clearer visibility of the borehole walls.			
Overall, borehole flushing is a critical step in the drilling process to ensure the successful completion and operation of a well.			

Borehole Development Borehole development is the process of cleaning and improving a newly drilled borehole to enhance water flow and quality. It involves removing drilling debris, fine particles, and contaminants using methods like airlifting or surging. This ensures the borehole produces clear, clean water and performs efficiently over time.	1	US\$2,875,000	US\$2,875,000
Supply of grave stones Gravel stones in a drilled well are small, clean stones placed around the well screen in the borehole. They help filter out sand and fine particles, protect the screen, and support the well structure. This layer is called the gravel pack and improves water quality and flow.	25	US\$38,500	US\$962,500
Pump Testing Pump testing of a drilled well before pump installation checks the well's water yield and recovery rate. It involves temporarily pumping water to measure how much the well can produce and how fast the water level recovers. This ensures the well can support the pump and meet water needs.	1	US\$687,500	US\$687,500

Subtotal	US\$17,807,000
Total	US\$17,807,000

Amount Due

US\$17,807,000

By signing this document, the customer agrees to the services and conditions described in this document.

Wilma Fox child Development Center

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