



Leobella Business & Logistics Services



Danish Committee for Aid
to Afghan Refugees

Water Well Project Delivery

**Leobella Business & Logistics Services &
DACAAR**

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Executive Summary

Leobella Business & Logistics Services was awarded drilling of one tube water well at Kochi Abad, Bagrami, Kabul with the depth of 140 meters by Danish Committee for Aid for Afghan Refugees (DACAAR) on May 31, 2021. Sara Kazimi, an Afghan woman, was the first to be awarded the DACAAR project in 40 years of experience. There were many challenges involved in implementing this project. Among the challenges the team faced were threats to security, technical issues, and more. Nevertheless, this project was successfully delivered to DACAAR on September 7, 2021. Thank you to the World Orphanage Foundation financial support without who achieving this project was not possible.

Objectives of the Project:

Kochi Abad, Bagrami is a neighborhood that is home to internally displaced persons who fled to Kabul due to war. Aside from this village in the outskirts, no water is available to the residents. With this water well project, the primary objective was to provide drinking water to people who had to walk 2 km each day to get drinking water. The purpose of this project was to make localities' daily work easier.

Project Activity Flow:

The project activities are divided into three categories:

1. Location of water wells

A DACAAR engineer selected the well location on June 6, 2021, after the equipment inspection was completed and the award was given to Leobella. Elders from Kochi Abad prayed for the successful completion of the project and that Allah would bless it. Leobella's technical team moved the equipment to drill the well with a rotary rig later that day.



2. Start the drilling process

Drilling of the well began on June 8, 2021, after the machinery had been set up at the selected location. Engineers from DACAAR and Leobella actively inspect the well in their active presence.

However, Leobella faced a challenge in drilling the well. As the technical team was drilling the 80 meters deep well, they encountered a layer of stone that slowed the drilling process. Which led to the extension of the contract.



3. Compressor and pumping test



The compressor testing process began after the drilling of 140 meters of well process was completed. Having the Afghanistan government shut down for nearly a week by the Taliban detained this process. This made removing sediment and mad from water difficult. Several tanks of clean water were poured on the water well so it could be cleaned. The DACAAR engineers approved to continue the pump test once the water had been completely cleaned and the turbidity level evaluated.

Two liters per second were pumped during the pump test. The engineer review was completed and approved by DACAAR on September 7, 2021. Leobella delivered the project of drilling one tube water well with depth of 140 meters to DACAAR on the same day.



Plan and Actual Operation:

The overall schedule for project implementation was initially developed at the beginning of the project. The project was scheduled to complete in 45 days and commenced in June 2021, and scheduled to complete in July 2021. Despite this, the work schedule had been revised several times in the discussion field, and for the following reasons:



1. The encountering of hard layers of stones at a depth of 80 meters and above caused the work process to slow down unexpectedly. More than two weeks were needed to drill through this layer.
2. While drilling had been completed and compressor testing had begun, the work was unknown upon the takeover of the government by the Taliban on August 15, 2021. Both organizations began working after a week, and the work continued.

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The actual date that work had to be completed was July 2, 2021 but it was completed on September 7, 2021.

Conclusion:

DACAAR received a successful project delivered by Leobella Business & Logistics Services for drilling a tube water well on September 7, 2021. In 40 years of its experience, the project was awarded to Sara Kazimi, the first woman to win the bidding of DACAAR.