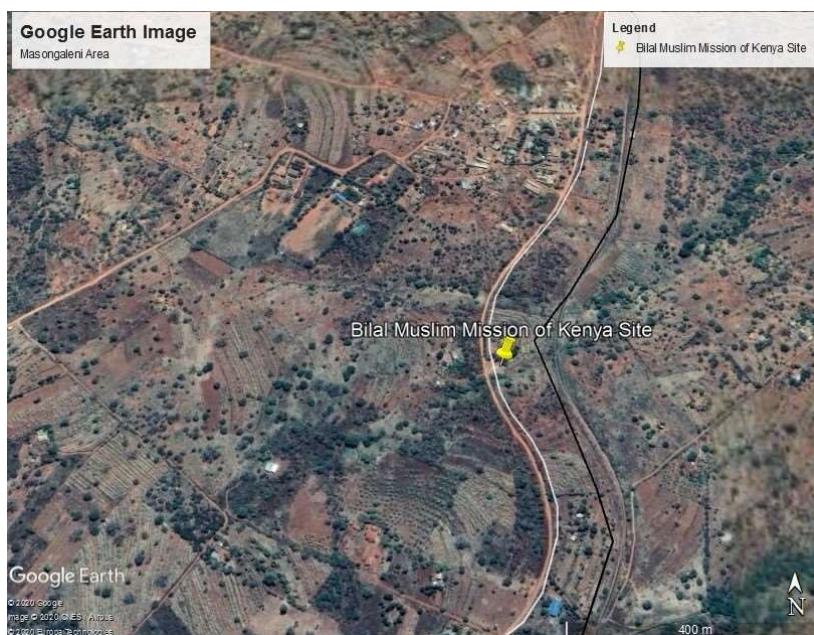


## MASONGALENI WATER DESALINATION PLANT & BOREHOLE PROJECT

The Jaffery Centre, Masongaleni, established in 1975, serves a community of 300 households of whom 93 families are followers of Madhab Ahlul Bait.

Located in Makueni County, Masongaleni village is a very dry area where access to clean water and water for agriculture is a major challenge. This centre does not have a well or borehole. Their only intermittent source of water for domestic use is piped water from a large farm in the area which sells water to the community. This supply is irregular as water may come once a week or less. The community is not permitted to use the water for agriculture.

A hydrological survey by Bilal Kenya identified a good potential source of water near the Bilal Centre at a distance of some 100m. Bilal Kenya purchased the land surrounding the borehole site and made arrangements for transfer of ownership. In the meantime, Bilal Kenya took possession of the land and the borehole was drilled and completed on 3<sup>rd</sup> May 2021. This was made possible with the generous support provided by WF-AID and a number of small donors.



The borehole survey was done on 11<sup>th</sup> October 2020, the drilling started on 2<sup>nd</sup> May 2021 and completed on 3<sup>rd</sup> May 2021. subsequent reports for test pumping, water quality analysis and pump and solar quotations analysis were completed by 30<sup>th</sup> June 2021. Thereafter, pursuant to water quality test, a desalination plant was installed in July 2021. The plant can produce up to 2,000 litres of potable water per hour.

Land fencing for the 0.25 acres was done to secure the borehole site and to enable us to conduct our agricultural projects.

The project was launched on 13<sup>th</sup> July 2021, attracting a lot of attention with several local media houses covering the event in their vernacular online TV programs. Government officials were invited to officially inaugurate the plant and to create awareness on the day's theme - 'Clean Water and Health'. The locals currently only rely on the county water supply which is not clean and healthy. We also wanted the community to know that the project is for all people.



Figure 1 Fencing around the borehole site purchased by Bilal Kenya



Figure 2: Launch function



Figure 3: Government Official speaking at launch function



Figure 2: Plaque acknowledging donors

The government authorities were extremely positive and promised support to sensitize people to use the clean water for drinking and cooking. They also promised to provide security support for the equipment.

Later a pedestal was constructed to install a plaque at the site to display the names of donors who supported funds for the drilling.

As most of the boreholes and wells water comes from a wide



geographical area. The community youth see an economic opportunity in supplying water to distant homes and workplaces. Nearby schools have also requested to purchase water in bulk for their use. Other achievements include:

### **Achievements**

- Provision of clean and safe drinking water for over 300 residents of Masongaleni and the neighbouring villages. Sales have significantly gone high due to the current drought the area is experiencing.
- Installation of a desalination system producing more than 2000 litres of water for drinking and domestic use
- Provision of solar powered security lighting for the centre
- Promotion of a healthy community due to improved sanitation and wash facilities at the centre.
- Water has promoted growth of our tree planting project which without water was impossible to succeed.
- Due to the water availability, we are now able to do Poultry, fruits and vegetables farming at the demo garden at our centre
- Creation of employment for several community members; this in return will uplift economic and living standards of the community members who supply water to far places offering door to door water delivery.

**The Mission appreciates the generous support and assistance received from the WF-AID and other donors towards this project. The Mission also thanks all those involved in this program**

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