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BOREHOLED RILLING REPORT

CONTRACT: DRILLING FOR WATER IN XIRIIRO, PUNTLAND

FUNDER: LIONS CLUBS INTERNATIONAL SWEDENMD101

CONTRACTED: ABOOR WATER & CONSTRUCTION COMPANY

CONTRACT DATE: FROM NOVEMBER 2022

SUBMISSION DATE: 13/09/2023 REPORT NO: FINAL

INTRODUCTION OF PROJECT

This is the final report of the finalized project at Xiriirro Village in Bari region. This project was funded by Lions Clubs International MD101 Sweden and LCI Foundation and Implemented by Aboor Water & Construction Company. The project has the following major activities:

Summary and background of the area.

Water is one of the urgent basic needs in the rural communities in Puntland, in particular the Bari region. Bari region is more dry and hot than the other regions of Puntland so that it is susceptible to droughts.

Geographically Xiriirro is located in a semi-desert and an arid tropical climate, with annual rainfall is less than 100 mm. The rain concentrates in two seasons: GU' (spring) and Deyr (fall) April – June and Sept to November respectively.

Xiriirro town, at an altitude of ABOUT 550 m above sea level and 120km from the shore line at Bender-Bayla is situated on one of the many coral limestone ridges with a north south

trend, middle to Indian coastal line and the red sea The topography is high rolling hills It is located in a vast grassland with a high altitude with valleys and streams that are not too steep. The socio–economy of the villages depends on livestock, frankincense, and small-scale dealers.

The water sources in the region are mainly Berkets, shallow wells and natural ponds. During the drought seasons most of the Berkets and shallows become dry.

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The only water source remains are the boreholes, which are very few in the area. If one of the boreholes breaks down which is usually occurring, the community has no water and they have to migrate where they can get water. During the drought time, most of the communities depend on water trucking.

An average distance between the water source and the village is exceeding 60 km of poor feeder road that took trucks at an average of 5 km per hour. During water trucking, the cost of a drum of water reached 400,000/som- shilling, which is equivalent to \$10.00. In addition, as a result of the long drought most Berkets, which is the most popular water source in the zone, were damaged due to prolonged dryness. The water quality in the Berkets is very polluted and needs protection in the access points.

Xiriirro village is about 350kms East of Bosaso and 60kms south of Iskushuban district on very rough road. The geographical coordinates of the village can be approximated as Xiriirro GPS coordinators E- 417500 – N- 1103320

Work done during the drilling period

As planned, the drill well was set up in a marked place to dig the well, which is about 300m west of the village. When the well was being dug, it collapsed about 110 meters and the place had to be moved, it was moved to a place not too far away, close to the old place. As agreed, AWCC drilled a 300m borehole, but there was no water found in the 300M depth. Drilling was stopped there and it was necessary to make contact with the client and Puntland Water Development Agency for further discussions.

Initially, the next plan was to drill a new borehole with 300M depth but the Puntland Water Authority advised not to do so if the new drilling depth can not be drilled up to 600M if needed. This Information was given to LCI Sweden for consideration.

Finally

AWCC was informed that the drilling activities should be stopped there because Puntland Water Authority and its partner are planning to drill Xiriirro much deeper than 300M because of the higher altitude.

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ABOOR
WATER & CONSTRUCTION CO.

Acknowledgment

Aboor Water & construction Company is hereby appreciating the LCI MD101 Sweden for giving us the trust to implement this project. Our desire and hope is to continue working with you as your partner in the future projects.

Thank You!

Best regards

Adan Mohamud

Manager





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This form should be used in reporting on **LCIF Matching grants**. The grant administrator is responsible for ensuring that LCIF receives a timely and complete final report. The final report is due no later than 45 days after the completion of the project. Matching grants should be completed within two years of approval. Failure to submit a timely final report may impact the Multiple District/District's ability to have future grant requests considered by LCIF.

Your report to LCIF helps provide a means to evaluating the grant and measures benefits achieved. In addition to publicity purposes, LCIF requires a full accounting and complete financial report on the utilization of the grant funds.

The information and guidelines provided in this form are to assist the Lions in the preparation of the Matching grant final report. The report with all required documentation is to be submitted to the LCIF Humanitarian Initiatives Department. This format below is a guide.

Please provide the information requested and the answers in a separate document that follows this same order.

Please see the answers below.

1. LCIF grant tracking number **MAT20275/101**
2. Approved grant amount: USD **87.599**
3. Date of start was 18/1 2022, completed 18/9 2023
4. Community or region where project implemented:
Community/location is Bari-region, northeast part of Puntland Somalia.
5. The area is largely desert and accessibility is almost impossible. The village of Hiriiri where we drilled for water is only possible to reach with off-road vehicles.



PUNTLAND WATER DEVELOPMENT AGENCY
WAKAALADDA HORUMARINTA BIYAHA PUNTLAND



Ref No: OGM/PWDA/132/2023 OFFICE OF THE GENERAL MANAGER Date: 08 /07/2023

To: LIONS CLUBS INTERNATIONAL-MD101 SWEDEN

Subject: **Hiriiro Borehole Drilling Result**

The Puntland Water Development Agency would like to highly appreciate the Lions Clubs of Sweden's efforts and projects in water exploration and drilling new boreholes to assist our vulnerable communities here in Puntland Somalia.

We are very sorry for the result of drilling dry in Hiriiro. Our examination shows that Hiriiro village lays a high area which means that we must drill deeper than 300 or 400 meters.

In regard to our recent geophysical survey, as part of the Ground Water Mapping UNICEF Somalia-supported Project, we are planning to drill a new borehole in Hiriiro village which has a depth of about 700 meters.

The need for water is huge in the country and PWDA is committed to working with Lions for the next boreholes in the future.

Thank you.

Mohamed Abdulkadir Mohamed

General Manager, Puntland Water Development Agency (PWDA)

Puntland Water Development Agency (PWDA), Head Quarter; Garowe Puntland State of Somalia. Address: Along the long road; opposite of the Ministry of Public Works Puntland. Email: pwda@plstate.so, website: www.pwda.pl.so, Tell: +252907796503



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The water sources in the region are mainly reservoirs, shallow wells, and natural ponds. During the drought seasons, most of the reservoirs and shallow wells dry out and then the community has no water, and they have to migrate to another location. During the drought time, most of the communities depend on water trucking. An average distance between the water source and the village exceeds 100 km, of poor feeder roads that the trucks have an average speed of about 5 km per hour. During water trucking, the cost of a drum of water reached approximately \$10.00 US Dollar. The price is too much for poor families. In addition, during the long drought it was reported that most of the reservoirs were damaged due to prolonged dryness. The water quality in the reservoirs is much polluted and needs protection. Lions Clubs International has already made changes for the people in the area. The life quality for the people in the area has change to the better since Lions Clubs International MD101 and Lions Clubs International Foundation supported with two boreholes earlier, one in Hamure and one in Beeliwacatay. LCIF Sweden wants to make it easier for the communities to live a better life at their homes and do not need to immigrate because water scarcity or lack of water. Water is basic for humanity, and it is human rights issue.

6. Thanks to the contribution from Lions Clubs International Foundation and the national collection of Lions of Sweden, we were able to drill for water in Hiriirro village of Puntland Somalia. Unfortunately, our drilling was not successful in Hiriirro. Our first attempt ended in a loose sediment of sand that kept caving in in a depth about 110 meters. Our second try about 10 meters away from the first one came down to a depth of about 300 meters without any trace of water. The drilling company took samples and send it to the local Water Development Ministry and their estimation was that it could require to continue to the depth of about 600 meters. After consultation with the drilling company, the Swedish hydro geologist Birger Fogdestam and the Puntland Water Development Agency we decided to cancel the drilling project in Hiriirro. According to the Puntland Water Development Agency they will hand over the job for drilling for water in Hiriirro to UNICEF



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7. No, the project was not successful but there have been parts that can prove an advantage for the local area. The Swedish hydro geologist that we sent down there to confirm and add suitable drilling locations in the area will increase the probability for drilling projects in the area. In the village of Hiriiro the ground water level was too deep.
8. The challenges Lions faced were primarily transporting the 50 tonnes of heavy drilling equipment to the drilling site. Another challenge was the availability of some parts and equipment needed to drill to the great depths. Another big challenge was the scarcity in the area. The drilling process needed water and there was drought in the area.
9. In the project group for Water Means Life is consisting of three members, all based and belonging to LC Borlänge, Sweden. The project had a wonderful local support from two local Lions Clubs in Bossaso city (Lions Club Bossaso and Bossaso Women Lions Club), Puntland Somalia. They contributed with five members supporting the project.
10. The project received coverage at the initial state when the drilling was initiated.
11. We plan to move our focus to a fourth borehole in a new village now that there are other parties in Hiriiro.

Financial Details

Please see the separate financial report from the MD101 treasurer.

Report Endorsement

The Multiple District Council MD 101, Sweden on **27-28/08 / 2021** Stockholm, Sweden has approved and endorsed the final report of the Water drilling project- Xiriuro Somalia with tracking number MAT20275/101.



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Grant Administrator Signature

Email

Date

Council Chairperson MD 101 Sweden

Email

Date

Appendix:

Aboor Borehole drilling final report.

Puntland Water Development Agency - Xiriiro Borehole Drilling Result.



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Slutrapport om Borrhål nr 3 i Hiriiro, Somalia till GR möte

Kort Historik

Efter att det andra borrhålet invigdes sommaren 2021 bytes fokuset till det tredje borrhålet, denna gång i byn Hiriiro (Xiriiro) som är cirka 100 kilometer söder om det andra borrhålet i Hamure. Med stöd från den nationella insamlingen fortsatte arbetet för att kunna samla in ekonomiska medel för ett tredje borrhål.

Den 12 september 2021 skickade vi in en ansökan till LCIF för Matching grant för projektet Water Means Life Hiriiro. Ansökan beviljades i januari 2022.

Water Means Life hade samlat en motsvarande andel i juni 2022.

Offerter tog in från flera entreprenörer och valet hamnade på Aboor water & construction som erbjöd en helhets lösning.

Borrningen

Borrningen var tänkt att starta under sen sommaren med det rådde extremtorka i området så det var svårt att få tillgång till vatten för att kyla ner borrningen. Det fanns även en osäkerhet gällande den ut markerade platsen från 2012 att den fortfarande var på rätt ställe. Därmed gjordes en bedömning att åter ta hjälp av grundvattengeologen Birger som hjälpte oss med prospekteringen 10 år tidigare.

Borrningen startade den 30 november 2022 på en av de ny uppmärkta platserna.





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Borrningen stannade till första gången runt årsskiftet vid cirka 130 meter då det var komplikationer med kompressorn.

Borrningen återupptogs i början av februari men fick sedan avbrytas i slutet av månaden på cirka 200 meter då marken bara var sand och massorna i borrhålet rasade.

Efter rådfrågning med den lokala entreprenören samt med grundvattengeologen som hade varit i området tidigare så gick vi på deras rekommendation och provade att borra på en ny plats ett tiotal meter från det tidigare.

Vid den nya platsen nådes det planerade djupet på 300 meter utan att vi fann något vatten. Efter samtal med vattenmyndigheten i området så var deras uppskattning om att vi skulle behöva borra till ett djup på 600 meter baserat på de prover som togs i området.

Vi valde då att borrhings försöket då en enbart skulle kunna ta oss ner till 400-450 meter vilket kanske inte skulle vara tillräckligt.

Vi hörde även att det fanns andra planer i området nu när vi hade misslyckats men då via UNICEF.

Summering

Behovet av vatten är fortfarande stort i området vilket gör att vi siktar på ett fjärde borrhål i en ny by då vi utgår från att UNICEF borrar klart på uppdrag av vattenmyndigheten i Puntland.

Kim Alvelius
Projektledare för WML

Lennart Pettersson
Projektordförande för WML

Mursal Isa,
Vice projektledare

Bifogar bilaga i form av pdf format men en slutrapport från Aboor samt bilaga från Vattenmyndigheten i Puntland.