

UNDP MALAWI



STATEMENT OF WORKS



**SUSTAINABLE DEVELOPMENT GOALS HOTSPOT
ACCELERATION INITIATIVE (SHAI) PROJECT**

**DRILLING OF SEVEN (7) BOREHOLES IN THE AREA
OF GVH GUNDA IN PHALOMBE DISTRICT & FIVE (5)
BOREHOLES IN THE AREA OF GVH TIZORA IN
NSANJE DISTRICT**

JULY 2021

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1. INTRODUCTION

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In a quest to accelerate achievement of the Sustainable Development Goals (SDGs), there is an advocacy to adopt hotspots approach to local development. Malawi is one of the first countries in Africa to adapt this approach to local development planning and prioritization of service delivery. The country selected Phalombe and Nsanje Districts as the first phase of roll out. Implementation of the initiative (formerly as a project) began in January 2020 with Irish Aid as the donor. Access to potable water is among the major challenges facing the communities; the project is going to drill seven (7) boreholes in the area of GVH Gunda, Phalombe District and five (5) boreholes in the area of GVH Tizora in Nsanje District.

2. OBJECTIVES

2.1 Broader Objective

The broader objective is to accelerate achievement of Sustainable Development Goals (SDGs) through hotspot approach to local development.

2.2 Specific Objectives

- The works in Phalombe and Nsanje will help to provide resilience and early recovery from hydrological disasters that negatively impact access to potable water for the affected communities
- Provision of clean drinking water will further help to reduce prevalence of waterborne diseases among the beneficiary communities

3. SCOPE OF WORK

The works in Phalombe and Nsanje will involve drilling of boreholes. Specific works will include borehole drilling, hand-pump installation, construction of civil works (concrete pad) and drainage works (lined drain and soak way pit). The UNDP Malawi expects that the works will be complete within a period of Three (3) months.

4. LOCATION

Phalombe District will have seven (7) boreholes spread in villages under the area of Group Village Head (GVH) Gunda in the area of Traditional Authority Jenala. Nsanje District will have five (5) boreholes spread in villages under the area of Group Village Head (GVH) Tizora in the area of Traditional Authority Mbenje. The area of GVH Gunda is located about 8 km Northeast of Chitekesa Rural Growth Centre in Phalombe District. The area of GVH Tizora is located about 10km South of Bangula town in Nsanje District.

Below are the GPS coordinates for the project site

District	Village	Latitude	Longitude	Elevation (m)
PHALOMBE	Chome	S 15.59007	E 035.62437	618
	Mkhwayi	S 15.59780	E 035.61885	637
	Namalawe	S 15.59531	E 035.60292	643
	Chikwirira	S 15.57797	E 035.58572	645
	Namita	S 15.57532	E 035.59001	647
	Gunda	S 15.56118	E 035.61364	635
	Laisani	S 15.57604	E 035.61279	638
NSANJE	Ntaibu	0732713	8158744	59
	Bazhu	0733289	8157923	57
	Fulutuna	0733385	8158508	54
	Dzwakuja	0732798	8157516	68
	Tizola	0733623	8157487	63



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5. TASKS

Successful execution of the works will involve performing the following tasks:

- Geophysical survey to establish groundwater availability
- Siting of the borehole as informed by the geophysical survey
- Drilling of the borehole
- Pump testing and water quality analysis
- Well development and well protection
- Installation of hand pump and accessories
- Construction of civil works
- Construction of drainage works



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6. MILESTONES

The UNDP Malawi expects that the tasks will be complete within a timeframe of 3 months and will have the following milestones:

- i. Drilling and completion of the first set of three (3) boreholes
- ii. Drilling and completion of second set of three (3) boreholes
- iii. Drilling and completion of the third set of three (3) boreholes
- iv. Drilling and completion of the forth/final set of three (3) boreholes

For ease of management, the UNDP Malawi will tie payments to the milestones as indicated above.

7. DELIVERABLES

The deliverables under the project will include the following:

- Complete drilling and installation of hand pump and accessories
- Complete construction of civil works and drainage works

8. SCHEDULE

The above deliverables are due at the expiry of 3 months implementation period and UNDP Malawi will very much appreciate delivery of completed works within the scheduled time. UNDP Malawi expects successful bidders to make maximum use of the dry period to ensure completion of works on schedule and avoid risking damage of the works due to rains.

Activity	September				October				November			
	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
Procurement of Contractor(s)												
Contract Signing												
Site Handovers												
Execution of Works												
Handover Completed Works												

9. STANDARDS AND TESTING

The contractor will carry out pumping test and water-quality analysis testing based on the acceptable and standard procedures

The UNDP Malawi may ask the Contractor to have any material tested in the laboratory or onsite as may be deemed fit and it will be the responsibility of the Contractor to do so at own cost.

10. MEASUREMENT AND VALUATION

This contract will be Fixed Sum or Lump Sum Contract such that payments will be based on agreed milestones. Measurement and valuation process will involve checking and verifying that the milestone against which payment claim is made, is indeed complete and in accordance with the requirements of the specifications.



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11. TESTS ON COMPLETION

All boreholes will be tested and commissioned upon completion to ascertain that the installed pump is performing as expected and producing the required water flows.

12. TAKING OVER

Upon completion of the works, the contractor will request for a joint final inspection of the completed works. The Engineer will prepare a punch list where necessary upon conducting the final inspection for the contractor to rectify. The contractor will hand-over the works to the communities through the district council upon attending to the punch list and having the works certified complete.

13. DEFECTS AND DEFECT NOTIFICATION PERIOD

A defect in this context is defined as any observance of a physical problem that may cause structural weakness or failure hence less effective for the intended purpose. The defects can either be patent (obvious, easy to fix and often merely aesthetic) or latent (not easy to find and tend to be somehow problematic). Construction defects may arise from the materials used or workmanship during construction.


The works will have a defects liability period of 12 months within which any defects arising will be documented and the contractor will be instructed to make good of the same unless the defect is due to a force majeure. Failure to attend to the defects without giving any proper reason will result in forfeiture of the retention money withheld by the UNDP Malawi.

14. CLOSURE

Project closure will be upon completion and certification of the works by the UNDP Malawi's representative who will review and sign off on the deliverables. The completed works will be subject to defects liability period as may be determined in the contract document.

15. INSURANCE

The contractor shall have a “Contractor’s All Risks (CAR)” insurance during the execution period for the contract to cover the works, equipment, personnel, other people’s lives and property.



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16. LIABILITY

The Contractor shall not be liable for the defects arising from the design or specifications. However, the Contractor shall be liable for the defects arising from the materials and workmanship.

17. PROJECT SUCCESS

Success of the project as expected by the sponsor, beneficiaries and other stakeholders is dependent on the capacity of the completed borehole to provide potable water of the acceptable quality and reliable yield to ensure continued supply of potable water to the target communities. Success, therefore, requires adherence to standards, quality workmanship and use of quality materials during construction.

18. REQUIREMENTS

UNDP Malawi through their representative will require certifying any completed works in accordance with the milestones before processing any payment for the completed milestone.

19. CONTRACT PRICE AND PAYMENT

The Contract Price will be fixed in Malawi Kwacha (MWK) and the currency of payment is Malawi Kwacha. The UNDP Malawi will pay the Contractor upon completing a milestone as outlined in paragraph 6 above. The amounts payable for each completed milestone will be determined at the time of drafting a contract. However, the UNDP Malawi may pay the Contractor

an Advance (20% of the Contract Sum) upon satisfying the requirements in form of Advance Payment Guarantee.



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20. OTHER

Complying with Covid-19 protection measures on site is mandatory and the Contractor will have to their work in such a way that workflow is not disrupted in the process of adhering to the measures. The Contractor will observe and follow safety guidelines on the construction site as instructed by the engineer or any party designated by UNDP Malawi.



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