

REQUEST FOR THE PROVISION OF TECHNICAL ASSISTANCE FOR THE DRILLING OF SOLAR MECHANIZED BOREHOLES IN THE UPPER WEST AND SAVANNAH REGIONS OF GHANA

NATIONAL COMPETITIVE TENDER - CONSULTING FIRMS REQUIRED

Background

The Private Sector and Innovation Promotion in Ghana (PSInno) project is commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ), and is jointly implemented with the Ministry of Trade, Agribusiness and Industry (MoTAI). The project makes small and medium-sized enterprises more competitive, primarily in the agricultural sector and digital economy. By doing so, it fosters innovation and creates new jobs. PSInno's agribusiness component builds the technical and entrepreneurial capacities of private-sector actors in the agri-food sector in northern Ghana, especially women and young people. This is expected to lead to the strengthening of the competitive and employment-creating economic development of companies in the agricultural sector in northern Ghana.

Northern Ghana (Northern, Savannah and Upper West Regions) offers favourable climatic conditions for mango production, including lower humidity, opportunities to extend the national harvesting season through suitable varietal selection, and significant potential for sustainable expansion. Mango has long been present in the northern savannah. Organised commercial cultivation gained momentum in the late 1990s and early 2000s, as development programmes began promoting grafted mango varieties, orchard establishment and farmer organisation. A particularly important phase came around 2009, when the Export Development Investment Fund (EDIF) launched the National Mango Plantations Development Programme, explicitly expanding commercial mango production into the three northern regions. This was built on earlier interventions supported by USAID and ADRA, which had demonstrated the potential of mango as a commercial tree crop and introduced farmers to improved planting material, technical knowledge and market-oriented production. Other private companies, especially the Integrated Tamale Fruit Company (ITFC) have supported the establishment of commercial models, including nucleus-outgrower arrangements, and connecting farmers to markets.

Nevertheless, the region currently lacks coordinated investment in healthy planting material, orchard establishment, extension services, farmer organisation, aggregation systems and market linkages. Initial production volumes are insufficient to attract significant private investment, while farmers face considerable risks during the establishment period due to limited technical support, bushfires, inadequate planting material and uncertain market access. Existing initiatives are fragmented, and opportunities to integrate climate adaptation, carbon finance, rural entrepreneurship and value addition remain largely untapped.

To address these challenges, PSInno is collaborating with HPW Fresh & Dry Ltd., a private company, through a public-private partnership to implement the Northern Mango Growth Pilot Project. The initiative combines landscape development, farmer support, enterprise creation, research, carbon finance and market development. As part of the project, the partners will establish new mango plantations and support the planting of quality mango seedlings. To improve seedling establishment and reduce the risks associated with inadequate and unreliable rainfall, the project will support the construction of boreholes at selected planting sites. The boreholes will provide a reliable source of water for irrigating newly planted mango seedlings, particularly during dry season, thereby improving seedling survival, establishment and early growth at potential project sites in the Upper West (Wa District/Municipality and Nadowli Districts) and Savannah (Bole-Bamboi and Sawla-Tuna-Kalba Districts) Regions of Ghana. The investments in borehole construction contribute to the long-term productivity, resilience and sustainability of the mango production system.

Objective of this assignment

The objective of this assignment is to engage a qualified firm to identify and assess suitable sites for borehole construction and irrigation infrastructure to support the establishment and early growth of mango plantations in selected districts and communities in the Upper West (Wa District/Municipality and Nadowli Districts) and Savannah (Bole-Bamboi and Sawla-Tuna-Kalba Districts) Regions of Ghana.

Tasks to be performed by the bidder.

The organization/firm to be contracted is responsible for providing the following services outlined below.

- **Site Assessment and Hydrogeological Survey:**
 - Conduct comprehensive site assessments to identify potential locations for boreholes.
 - Perform hydrogeological surveys including desk studies and geophysical surveys to determine the best sites for drilling.
 - Coordinate with local authorities and stakeholders to ensure selected sites meet all regulatory and community requirements.
- **Drilling and Construction of Boreholes:**
 - Drill Eight (8) boreholes at the identified locations using appropriate drilling techniques.
 - Ensure that boreholes are constructed to the required depth and specifications.
 - Install casings and screens to prevent collapse and contamination.
- **Pump Installation and Infrastructure Development:**
 - Select and install suitable pumps based on the sustainable yield of each borehole.
 - Include all necessary ancillary equipment for water transmission, distribution, and storage.
 - Construct concrete aprons around boreholes to prevent contamination and erosion.
- **Water Quality Testing:**
 - Conduct pumping tests to determine the sustainable yield of each borehole.
 - Collect water samples to ensure water meets required quality standards.
 - Provide detailed water quality reports.

- **Training and Capacity Building:**
 - Provide training to project partners on the operation and maintenance of boreholes and pumps.
 - Develop and distribute operation and maintenance manuals.
- **Reporting and Documentation:**
 - Compile a comprehensive completion report, including data on borehole locations, depths, yields, water quality, and any issues encountered during the project.

The potential contractor shall drill Eight (8) mechanised boreholes using the following specifications:

BILL OF QUANTITIES FOR THE DRILLING OF (8) SOLAR MECHANIZED BOREHOLES IN THE UPPER WEST AND SAVANNAH REGIONS OF GHANA				
Private Sector and Innovation Promotion in Ghana (PSInno)				
PN: G-012232-100/G-018082-001				
	Component	Description	Unit	Qty
1	Field Assessment and Installation	Contractor visit sites to ascertain the eligibility of the selected site and installation	Number	8
2	Borehole Drilling and Mechanization	1. Geophysical Investigation 2. Drilling and Construction:(Drill a borehole with a diameter ranging from 212 mm to 250 mm through the overburden for the installation of a 140 mm diameter PVC casing.) Drill a borehole with a diameter ranging from 165 mm to 176 mm in basement rocks. Pumping Test, Safety Rope for Anchoring of float platform + pump Splice Kit (Cable Terminating Kit) 25mm OD HDPE Pipe for tank connection 25 x 25mm Elbow for tank connection Coupling +Tee joint 40 x 25mm Reducing Coupling Bulk Water meter for measuring abstracted water + Flange Adaptors 25mm strainer 1" PVC pipe for Delivery pipe to storage tanks and fish tanks Float Switch for tank Remote Monitoring Device for solar pumping system	Number	8
3	Solar pump system installation	Submersible Pump (Head max 150m Flow max 10m3/day) Controller (Inverter power 1.2Kw, Max Dc Input Volt- 200V) Circuit Breaker (PV Disconnect 440-40-3 or Approved equal) Surge Protector (OVR PV 40-1000 P, Surge) well probe (Protection or approved equal) Submersible cable (6mm2 3-phase cable for power 120 meters long PV Cable (Cable for Panel Wiring – 30 m) Splice Kit (Pack of Cable Clips) Terminating kit (Cable Terminating Kit) sensor cable (Sensor cable for float switch 120 meters) PV Arrays (Max. solar power – 2000Wp @450W) PV Stand (Fabricated Metal Stand to mount PV) Grounding kit (1-phase cable for grounding) Float switch (Enclosure class IP 68) HDPE pipe (32mm HDPE pipe) Supply & installation of mesh fence Civil works Labour & transport charge for all works	Number	8

EXPRESSION OF INTEREST



Implemented by:
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Deutsche Gesellschaft
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4	Overhead Storage Tank	10,000L storage tank	Number	8
5	Reservoir Platform	Fabricated Metal Stand to mount Storage tanks	Number	8
6	Other Accessories	Tangent glue, tape etc, Pack of Cable Clips	Number	8

How to apply:

Please send the following documents:

a. Company Profile

- Valid Business Registration Certificate
- Current Tax Clearance Certificate
- Valid SSNIT Clearance Certificate
- VAT Registration Certificate
- Valid Certification of Commencement of Business.
- Valid Certificate of Incorporation.
- Declaration of Business Ownership (Form A for Sole Proprietors or Form 3 for Limited Liability Companies)
- Average annual turnover for the last three financial years (last-but-four financial year can be included in case of tenders held within six months of end of last financial year).

b. Reference Project

- A minimum of one (1) similar assignments completed within the past five (5) years in Ghana
- Provide total project value of the similar assignment stated above.

C. Technical Expertise

- Previous technical experience in the areas of:
 - o Borehole Drilling & Construction
 - o Solar pump system installation
 - o Borehole and Solar pump system projects in Northern Ghana

PLEASE NOTE: THE CURRENCY OF YOUR OFFER SHOULD BE IN GHANA CEDIS

ALL PROSPECTIVE BIDDERS ARE REQUIRED TO PERFORM THEIR TAX OBLIGATIONS IN GHANA.

NOTE: Kindly Visit the link provided below for the Terms of Reference (TOR) and other documents to be used in preparing your Technical Proposals:

Link- <https://www.giz.de/en/regions/africa/ghana/tenders>

Tender documents should be named according to the above and should be sealed in (2) Separate Envelopes in one. Marked " (10057647 / G-012232-100/G-018082-001 "REQUEST FOR THE PROVISION OF TECHNICAL ASSISTANCE FOR THE DRILLING OF SOLAR MECHANIZED BOREHOLES IN THE UPPER WEST AND SAVANNAH REGIONS OF GHANA"

Non-Conformity with all conditions mentioned could lead to exclusion of the bid.

Companies will be selected based on the Quality of their Eligibility documents to process to the next stage.

This tender will be accepted **ONLY** via email (gh_quotation@giz.de). Same for any request for clarification/additional information on the procurement.

- **Please note that failure to comply with the above instructions. As well as submission to the other email address than the one mentioned, will lead to the disqualification of the bid.**
- **Please do NOT send any price offer, kindly note that complete tender documents would be made available to all shortlisted consultants who express interest in the assignment.**

Bidding Conditions to all Bidders

- The deadline for submission is **16.10.2026 until 11:59 PM.**
- GIZ is not responsible for the failure of electronic delivery of e-mail messages to the address provided, whether due to technological problems on the part of GIZ or the applicant.
- This invitation to tender does not bind GIZ in any way. The contractual obligation of GIZ only begins with the signing of the contract with the successful bidder. Until the contract is signed, GIZ may either abandon or cancel the award procedure, without the candidates or bidders being entitled to claim any compensation.
- All costs associated with the preparation and submission of bidders are to be borne by the bidders and cannot be reimbursed.
- Financial bids should be valid for a period of three months from the date of submission.
- Please consider your bid unsuccessful if you do not hear from us after four weeks from the deadline of submission.

"Please note that participating in a tendering process of GIZ is free of charge for bidders.

At no phase of the process is the bidder required to make any payment to GIZ or to one of its employees.

Kindly Note by sending in your offer, you are agreeing to the GIZ General Terms and giving us the consent to process your company data.

ONLY SHORTLISTED FIRMS WILL BE CONTACTED