



Norwegian People's Aid

CALL FOR CONSTRUCTION OF WATER YARDS

TERMS OF REFERENCE FOR DRILLING AND CONSTRUCTION OF BOREHOLES UNDER BUILDING RESILIENCE AND ENHANCED LIVELIHOODS (BREL) PHASE 2 PROJECT.

Position/ Call:	Drilling and Construction of Boreholes
Responsible To:	Programme Manager- Humanitarian and Resilience Department (Operations) Irrigation Engineer (Technical)
Location:	3 Counties- Terekeka, Cuiebet and Bor
Provisional Time Frame:	20 Days- Including weekends and submission of final construction reports.
Tentative Start Dates:	18 th April 2025

INTRODUCTION AND BACKGROUND

Norwegian People's Aid (NPA) South Sudan is an International Non-Governmental Organization involved in humanitarian, relief and long-term development cooperation in South Sudan. NPA has been working in South Sudan since 1986 and runs two programmes: Civil Society Development, Humanitarian and Resilience Department

Since 1st Jan 2025 NPA has implemented the “Building resilience and enhanced livelihoods (BREL) phase 2 Project. The project is funded by the Norwegian Agency for Development Cooperation (Norad), will run for five years and is scheduled to end on 31st Dec 2029.

NPA intends to implement the drilling and construction of Borehole works of the BREL Phase 2 project in collaboration with local government authorities, local Civil Society Organizations (CSOs), National Non-Governmental Organizations (NNGOs), pastoralists/agro-pastoralists, Community Based Organisations (CBOs), fisherfolk groups and households, Community Animal Health Workers (CAHWs), farmer producer groups, farmer association groups/cooperatives, village and market committees and value chain actors. NPA is working in partnership with 11 national NGOs in this project.

Description of the Project

The project aims to improve food, nutrition, and income security by increasing agricultural and pastoral productive capacity. It will facilitate access to climate-adapted productive inputs and train smallholder farmers, livestock keepers, and producer groups in climate and nutrition-sensitive practices, and postharvest management. The project will also assist food-insecure people, create productive assets, and reduce climate risk through cash for work. The project will develop resilient, context-specific agricultural value chains, enhancing the capacity of



smallholder producers to expand their value chains and agro-enterprises. It will facilitate access to sustainable finance and credit for women and youth, increasing women's participation in decision-making. The project will organize producer groups, facilitate registration into big production farmer cooperatives, and provide tools for functional organizational and governance structures. The project will promote food systems sustainability by enhancing protection, land tenure rights, peacebuilding, and conflict management of natural resources and agricultural livelihoods. It will promote nature-based value chains, energy-efficient stoves, and community awareness of environmental and biodiversity issues. The project will provide psychosocial support to survivors of SGBV, promote prevention awareness of SGBV, offer legal assistance for women on land rights, and provide access to referral pathway services. Mainstreaming peacebuilding activities into this project is important for food security as peace provides a conducive environment for agricultural productivity. In a peaceful environment trade is enhanced as smallholder producers are able to move across several communities without fearing for their lives. A peaceful environment further reduces the protection risk faced by vulnerable women and girls in conflict situations.

BREL Phase 2 Project's long-term objective is to contribute to improved food, nutrition and income security, adaptation to climate change, and enhanced preparedness against and resilience to shocks and crises.

The project has 3 specific objectives.

1. Strengthened agricultural and pastoral livelihoods through increased production capacity and productivity.
2. Improved access to developed, climate-resilient, context-specific agricultural value chains
3. Enhanced protection (SGBV, Land tenure rights, peacebuilding and conflict management) and management of natural resources for sustainable food systems and stability.

1. Objectives for the Drilling and Construction of the Boreholes

Overall Objective: To provide farmer groups and neighboring communities with safe, equitable and sustainable access to a sufficient quality of water for irrigation, livestock, drinking and other domestic purposes by providing supplementary water sources to reduce water demand at the already existing water yards established within the indicated counties.

Specific objectives: To enable farmer groups to have adequate water supply from the existing water yards by ensuring the community access water from alternative source points. This will eliminate water shortages for irrigating vegetable crops at the established gardens.

Locations of the project and access

The drilling and construction of the boreholes will be mainly located at **Terekeka (1)** in *Buju boma*, **Cuibet (1)** in Pariak village and **Bor (1)** in Pakwau, Anyidi Payam, Lakes and Jonglei states. Contractor should be aware that the project locations are further apart in the rural areas of the counties.



Scope of Work for Borehole Drilling and Construction

The contractor shall perform all necessary works, including but not limited to:

Site Selection and Mobilization

Conduct geophysical surveys to determine suitable drilling locations.

Obtain all necessary permits and approvals before commencing work.

Mobilize drilling equipment, materials and personnel to the designated site.

Borehole Drilling

Drill the borehole to the specified depth (as determined by hydrogeological assessments).

Maintain appropriate drilling logs, including penetration rates, lithology, and water strikes.

Ensure safe handling and disposal of drilling fluids and cuttings in an environmentally responsible manner.

Borehole Construction

Install and secure casing and screens as per design specifications.

Gravel pack the annular space where required to enhance filtration.

Properly seal the borehole using sanitary well seals and cement grout to prevent contamination.

Construct drainage channels and animal trough for each borehole at a distance of 10m from the platform.

Borehole Development

Conduct airlifting, surging, and pumping to remove fine materials and improve well efficiency.

Test pump the borehole to determine yield and aquifer characteristics. This must be done for at least 6 hours.

Borehole Protection and Completion

Construct a concrete apron with proper drainage around the borehole.

Provide signage with borehole details, including depth, yield, and installation date.

Reporting and Handover

Submit detailed drilling logs and construction records.

Train community members or responsible personnel on borehole operation and maintenance.

Officially hand over the borehole to the project owner or designated authority.

2. Key deliverables and stakeholders

Deliverables in borehole drilling and construction refer to the tangible and intangible items that must be produced or achieved during the course of the project. These deliverables are typically outlined in the project scope and are crucial for meeting the project's objectives. Here are the deliverables associated with the borehole drilling and construction works.

- Feasibility assessment report including cost estimates.
- A detailed project work plan that includes timelines, milestones, resources, and responsibilities for various project tasks.
- Documentation of all required permits and approvals obtained from regulatory authorities, demonstrating compliance with relevant regulations.



- Site Preparation, construction stages, installations, testing, commissioning and training reports.

Stakeholders: Affected Community representatives, SGBV Response Service Providers, State level Food Security and Livelihoods Cluster, RRC, Line ministries, community leaders.

Experience and Qualification

- Proven experience in borehole drilling and construction or similar water infrastructure projects works.
- A track record of successfully completing projects on time and within budget.
- In-house or collaborative engineering capabilities to design and plan borehole drilling and construction according to industry standards and regulations.
- Familiarity with local, state, and federal regulations related to water infrastructure construction.
- A history of obtaining necessary permits and approvals for similar projects.
- A team of qualified and experienced personnel, including project managers, engineers (geologist, driller) and skilled labor.
- Demonstrated financial stability and the ability to secure bonding or financing for the project.
- Evidence of financial responsibility to complete the project without delays due to financial constraints.
- Established quality assurance and control systems to ensure that construction meets specified standards and that there are processes for continuous improvement.
- Sufficient and appropriate drilling equipment and resources to carry out the project efficiently.
- Positive references and testimonials from previous clients, subcontractors, and stakeholders.
- Case studies or project portfolios showcasing successful water infrastructure construction projects.
- A clear demonstration of the capacity to complete the borehole drilling and construction works within the specified timeline.

Reporting

- The contractor will be required to report on regular basis to the Humanitarian and Resilience Department - Program Manager/Resilience Programme Coordinator and or Irrigation Engineer.
- All written deliverables produced under this work order shall be submitted as scheduled to NPA Programme Manager – Humanitarian & Resilience Department/Resilience Programme Coordinator or Irrigation Engineer in both electronic formats, using MS Word and PDF, and printed hard copies.
- Changes in the scope of work shall require prior discussion and approval by NPA and shall be defined in writing.

Responsibilities of Norwegian People's Aid (NPA).

The Norwegian People's Aid will be responsible to;



- Clearly communicate the vision, goals, and objectives of the borehole drilling and construction project to the contractor.
- Provide a clear understanding of the intended purpose and functionality of the Boreholes.
- Approve and provide feedback on design proposals to ensure they align with the client's expectations and requirements.
- Participate in contract negotiations with the contractor, ensuring that all terms and conditions are agreed upon.
- Approve the final contract before construction activities commence.
- Oversee the progress of construction activities to ensure they align with the project schedule and meet quality standards.
- Monitor key milestones and deliverables to track progress against the agreed-upon timeline.
- Maintain open and effective communication channels with the contractor, project manager, and other stakeholders.
- Address any concerns, provide timely feedback, and participate in regular project meetings.
- Evaluate and approve any proposed changes to the project scope, design, or specifications.
- Work collaboratively with the contractor to manage changes efficiently.
- Actively participate in resolving any issues or conflicts that may arise during construction.
- Provide timely decisions to avoid delays and keep the project on track.
- Participate in inspections and approve completed work stages before proceeding to the next phase.
- Engage with the local community as needed, addressing any concerns and ensuring transparency about project activities.
- Review and approve project documentation, including progress reports, invoices, and change orders and maintain a comprehensive record of project activities and decisions.
- Participate in the final inspection of the completed works.
- Approve the handover of the facility from the contractor, ensuring all contractual obligations are met.
- Ensure a smooth transition to the operational phase of the boreholes.

Conditions of Work

- The contractor will be required to abide by NPA security procedures and other relevant policies, e.g. Code of Conduct, Conflicts of Interest, which are outlined in the contract for this Job.
- All technical documentations and related reports generated will remain the property of the Norwegian People's Aid- NPA and the contractor will have no any rights of ownership after the end of the contractor period.
- During the period of this work, the consultant will be responsible for his or her shelter, security, welfare etc in the field. NPA and its partners will take lead in introducing the contractor to the sites and local authorities.

Time Frame

- This assignment will last approximately for 15 days starting from the date of signing the contract.



- The overall work should be completed in not more than 20 days including the final construction reports submission.

The Evaluation Criteria are Based on Technical and Financial Criteria.

Eligible contractors/companies will be evaluated based on full and open competition, in strict adherence to the Scoring Criteria detailed below.

Criterion	Score
Interpretation of scope of work	20 points
Suitability of the proposed Methodology	30 points
Experience and expertise in similar assignments	30 points
Financial Proposal	20 points
Total	100 points

NPA reserves the right to accept or reject any bid received without giving reasons and is not bound to accept the lowest or the highest bidder.

Payment schedule

The payment schedule is subject to negotiation with the contractor based on request submitted as well as NPA policy, and to be detailed in contract to be signed with the contractor.

Application Procedure

All interested persons/companies that meet the above conditions can pick the copies of BoQ at NPA South Sudan Head Office, Martyrs Street (opposite UNICEF) Juba or request through this jjoyce@npaid.org

Submission

Interested applicants should submit their bids by email to rss-tenders@npaid.org

Or hand delivery to the NPA South Sudan Head Office, Martyrs Street (opposite UNICEF) Juba.

Applications submitted after 4:00PM on Friday 11th April 2025, will not be considered.

Note: NPA reserves the right to terminate this advert before the stated deadline. Due to travel restrictions linked to travel regulations, preference will be given to contractors who are in the country and can start the assignment as soon as is possible.

