1. **Introduction**
Practical Action is a change making organization that works in unconventional ways. We bring people together in bold collaboration using knowledge and innovation to build futures free from poverty and help shape a world that works better for everyone. Through our WASH programs we enable people living in poverty to access safe water; help provide affordable sanitation and waste management services in urban and peri-urban areas. Practical Action focuses on strengthening local governance and community participation in decision making towards appropriate low-cost WASH technologies and practical solutions that are responsive to the needs of poor communities to achieve Sustainable Development Goals.

2. **Background to the consultancy assignment**
As of August 2020, a total of 18.416 Km of water pipeline had been laid reaching a total population of 3,966 households (19,830 people) across the three targeted settlements. Practical Action is committed to increasing access to safe and clean water by targeting the most vulnerable households through procurement of pipelines and fittings as well as embarking on
last mile water connection from the secondary service lines for the underserved areas in Nyalenda A. The Contractor will work closely with Practical Action and KIWASCO’s Planning, Design & Construction Engineer to ensure quality and timely deliverables as per this Terms of Reference.

3. **The purpose of Consultancy**
The purpose of the Consultancy is to develop profiles, GIS Mappings, designs and drawings for the areas to be served under the Safe Pair of hands project in Nyalenda A. This will involve undertaking a desk review/ study to find out areas that are under served within the second phase and a transect walk to identify and map out proposed lines and beneficiary households.

4. **Scope of work for the consultant**
The Consultant will be responsible for the following
1. Undertake a desk review/ study with a view of finding out the areas which are not currently served in the remaining area of Nyalenda A.
2. Produce GIS mappings for the proposed distribution and service lines in Nyalenda A informal settlements.
3. Identification and mapping of areas to be rehabilitated
4. Production of Profiles designs and drawings
5. Development of Bills of quantities for the proposed works to be undertaken under the final phase
6. Obtain approval from KIWASCO on the proposed designs, and drawings.
7. Prepare tender/ bid documents for the proposed work.

The Consultant will work together with KIWASCO to ensure that the produced designs are in conformity with KIWASCO’s design guidelines and procedures. The consultant will also work together with Practical Action team in the production of these designs. **The consultant may consider the use of HDPE pipes or any other pipes based on availability and affordability in the designs and BOQs.**

5. **Methodology**
The design process will involve desk reviews, transect walks, GIS mappings, topographical survey, production of detailed engineering drawings and reports and consultations with KIWASCO on the proposed designs.
6. **Key Deliverables and expected Outputs**

This design development process is expected to take a total of *(7) working days* starting from *16th - 27th October 2020*. The consultant will submit the following deliverables:

1. Desk review report on the gaps/ areas underserved/households and the proposed areas for last mile connection.
2. A final design report with profiles, GIS Mappings, number of households to be reached, drawings of the proposed last mile lines and Bills of quantities
3. Complete tender documents for last mile connection in Nyalenda A.

7. **Administrative and logistical support**

The Consultants will report to the Senior Project Officer – Safe Pair of Hands Project and KIWASCO’s Planning Design and Construction Engineer.

8. **Consultant requirements**

The consultant(s)/firm will comprise the evaluation experts with the following skills and capabilities in the team:

- Bachelor’s degree in Civil, Environmental and Biosytems, or Water Engineering degree or a related engineering field.
- Practical knowledge and applications on GIS mappings.
- At least 5 years’ practical experience in production of Water infrastructure designs and supervision.
- Fluency in both written and spoken English and Kiswahili is mandatory
- Experience working in Kisumu’s 3 informal settlements will be an added advantage.
- Previous experience working with KIWASCO on production of designs and drawings.

9. **Guidelines for Submission of Expression of Interest**

A consulting entity that meets the above requirements and is available within the time limit indicated above should submit the following:

- Proposal and capability statement with clear methodological approach
- Detailed financial proposal in Kenyan Shillings
- Annexed to the proposal should be CVs of the proposed team outlining previous Water infrastructure design experiences and accomplishment.
10. Terms of Payment

Payment for production of the designs will be 100% after successful production and submission of the design reports.

Note that the payments will be done subject to the consulting entity meeting quality and timely delivery of stated task.

All taxes, levies, imposes, deductions, charges, fees and similar assessments whatsoever imposed, assessed, levied or collected by the government of Kenya, or any taxing authority upon the contractor and his staff shall be paid and/or borne by the contractor. It shall be considered that the costs for those payments are included in the contract price.

**NOTE:** Practical Action will deduct the applicable rate of withholding tax at the time of payment.

At Practical Action, we treat all applications for employment on their merits and do not take into consideration any factors that are not relevant to the job such as disability, race, age, religion, gender, gender reassignment or sexual orientation.

We are committed to safeguarding and protecting children and vulnerable adults and as such candidates will be subject to pre-employment checks.

**The successful applicant must have the pre-existing right to both live and work in Kenya**