Water Supply Rebabilitation

Bugiri Hospital



ISEAC

Integrated Science and Education for African Communities



Uganda Ministry of Water, Lands and Environment Bugiri Urban Water and Sewerage Authority

Bugiri-Naluwerere Town Council



Hosted by Jinja and Bugiri, Uganda Rotary Clubs

Executive Summary

A proposal to rehabilitate water service to the public hospital in Bugiri-Naluwerere Town Council, Bugiri District of Uganda.

ECO International proposes to rehabilitate to the extent possible the municipally owned reservoir, transmission lines and other potable water infrastructure serving Bugiri hospital. The current infrastructure is unreliable and does not have sufficient capacity, providing the hospital with water for only a few hours each day at best. This emergency rehabilitation project will proceed adjunct to a larger government sponsored project to establish a municipal utility company with the ultimate purpose of rebuilding and expanding the entire municipal drinking water system.

Bugiri-Naluwerere Town Council Population app. 30,000

A 109

Bugiri 💿 Bugiri

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0°34'04.42" N 33'44'59.03" E elev 1133 m

The existing drinking water infrastructure...

Bugiri 💿 Bugiri

Reservoir (Tank)

Reservoir (Tank)

90 mm (3.5") PVC Pipe

Borehole























Several factors contribute to poor performance of the existing system.

- * Low voltage power supply inhibits motors from pumping at capacity;
- * Limited capacity of the aquifer (producing zone) and/or well-bore;
- * Air locks in the system hinder flow;
- * Small pipes (0.5" to 0.75") as "mains" for long distances inhibit flow;
- * Small, leaky reservoirs (tanks) limit daily storage capacity;
- * Location of reservoirs at lower elevations causes failure of system integrity (low pressure events) resulting in service disruption and system contamination.

Project Summary

ECO International will hire, train and equip an Associate Mechanical Engineer to carry-out and/or supervise basic rehabilitation activities in coordination with the local Water Authority and its Operations & Maintenance Contractor. The Associate Engineer will survey the existing infrastructure and prepare for review by a qualified Senior Engineer from the United States (a volunteer). Following recommendations by the Senior Engineer, the Associate Engineer will procure domestic equipment and effect repairs as necessary. The Associate Engineer will also develop plans and procedures to optimize water use in the hospital. Executive Director Thomas Benke will provide training and project oversight and will approve all major expenditures. Country Director Zubair Bakabye will supervise the Associate Engineer and will be responsible for coordination with the Authority and its O&M Contractor.

Proposed Actions

- * Assess existing infrastructure, from deep well to reservoir, from reservoir to hospital, and inside hospital
- * Take immediate action (repair leaking pipes and reservoir, modify distribution system to facilitate priority uses, install equipment as necessary to conserve water)
- * Plan for interim action (replace underperforming components, supplement existing resources, improve power supply)
- * Document need for permanent system improvements

Funding Needs (\$50,000 Budget)

- * Ugandan Associate Engineer (Full Time, 1 year)
- * Communications (Telephone & Internet, Computer)
- * International Travel (Benke / Bakabye / Senior Engineer)
- * Domestic Transportation
- * Equipment, Tools and Supplies
- * Replacement and/or Added System Components
- Training and Project Oversight

District Chairman Baluboleire Azalwa Malijhan



"Your interest in assisting with development of a delivery system for Bugiri Town Council...is indeed a welcome development."

Chief Administrative Officer Kayise Chrizestom

"There is need to promote the quality of life of our people through improvements in the functionality of public utilities such as piped water supply to Bugiri Town Council... The **District Local Government of Bugiri** and the Lower Local Governments are committed and ready to use the wide experience and expertise of Thomas Benke in the field of water resources management."



Mayor Saul Baliraine



"[Your interest in developing a water delivery system for **Bugiri-Naluwerere** Town Council] is highly welcomed and my hope is that you shall render a helping hand in sourcing for funding a water resource study."

Related Proposal To Establish a Utility "Parastatal" Bugiri Municipal Water & Sewerage Co.

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A "parastatal" is a legal entity created by a government to undertake commercial activities on behalf of an owner government.

The Bugiri company will be modeled after the National Water and Sewerage Corporation is a parastatal wholly owned by the Ugandan National Government

Thank You!

For more information go to our website: www.eco-international.org

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