Invitation to Tender for Installation and Commissioning of a Borehole Water Treatment System

Deliverance Church International Kasarani (Zimmerman) intends to install and commission a water treatment system at its Prayer and Training centre, **Ukombozi Retreat and Conference Centre** located on **Bob Harris Road, Juja, Kiambu County**.

The detailed tender documents/questionnaire can be obtained from the office the Manager Human Resource and Administration and may also be downloaded from URCC website www.urcc.co.ke, however, all interested applicants will be required to pay a non-refundable fee of Ksh. 5000.00 at the Church's accounts office during normal working hours and attach the payment receipt to the filled tender documents.

Tender Document in plain sealed envelope clearly marked with tender name and number should be addressed as follows:

The Secretary Procurement Committee,

Deliverance Church International Kasarani (Zimmerman)

P.O. Box 73492-00200,

Nairobi, Kenya.

EMAIL: procure@dckasarani.org

and be deposited in the Tender Box provided at the **Church Main Campus in Zimmerman Offices** so as to be received on or before **Friday 13 November, 2026 at 05.00pm**
Tenders will be opened promptly thereafter, evaluated, communicated and awarded as per the Church procurement and disposal policy.

TENDER DOCUMENT FOR THE PROCUREMENT, INSTALLATION AND COMMISSIONING OF A WATER TREATMENT SYSTEM

TENDER REF NO: DCIKZ/WTS/2026/001

PROJECT: 500 LPH BOREHOLE TREATMENT PLANT AT BOB HARRIS ROAD

PROCURING ENTITY:

Deliverance Church International Kasarani (Zimmerman)

P.O. Box 73492-00200, Nairobi, Kenya.

EMAIL: procure@dckasarani.org

DATE OF ISSUANCE: OCTOBER 2026

SECTION 1: LETTER OF INVITATION TO BID

Tender Ref: DCIKZ/WTS/2026/001

Date: Thursday October 29, 2026

To: All Eligible Water Engineering Contract Firms,

Deliverance Church International Kasarani (Zimmerman) invites sealed technical and financial proposals from registered, licensed, and qualified water treatment engineering firms for the turnkey design, supply, installation, testing, and commissioning of a **500 Litres per Hour (LPH) Water Treatment System** at our facility located on **Bob Harris Road, Juja, Kiambu County**.

The underground borehole source currently exhibits severe non-conformities under East African Standards (**EAS 12**) and **WHO** guidelines, explicitly containing elevated counts of *Escherichia coli (E.coli)*, Total Coliforms, Dissolved Iron (Fe^{2}■), Turbidity, Total Suspended Solids (TSS), and Orthophosphates. The chosen contractor will execute a turnkey purification framework operating seamlessly under variable on-site infrastructure (three-phase grid power and automatic backup generators). Interested bidders must inspect the site infrastructure and download the complete tender profile. Tenders must be delivered in sealed envelopes clearly marked with the Tender Reference Number and deposited in the official Tender Box located at and be deposited in the Tender Box provided at the Church Main Campus in Zimmerman Offices so as to be received **on or before Friday 13th November 2026 5.00pm.** Late submissions, digital copies, or unsealed bids will be automatically rejected.

Procurement Milestone Event	Critical Target Date / Specification Location
Tender Publication Date	Thursday, October 29, 2026
Mandatory Site Visit & Physical Inspection	Friday, November 6, 2026 at 09:00 AM-04.00PM EAT (URCC Bob Harris Road)
Deadline for Clarification Requests	Tuesday, November 10, 2026 at 5:00 PM EAT Email: njugunabenadict@gmail.com Contact Number 0733 982076
Tender Submission Closing Deadline	Friday, November 13, 2026 at 05:00 PM EAT
Tender Bidding Fee Required	KES 5,000 payable to Church Accounts office, Zimmerman.
Tender Validity Period	90 Calendar Days from the date of tender opening

SECTION 2: ADMINISTRATIVE PRELIMINARY COMPLIANCE CHECKLIST

Bidders must provide certified documentation for all items listed below. This stage represents an absolute **Pass/Fail screening gate**. Failure to provide any single statutory item will result in immediate disqualification without proceeding to technical evaluation.

Item	Statutory Document / Requirement	Verification Purpose	Status
1	Certificate of Incorporation / Registration	Verification of legal entity existence in Kenya.	**[ ] Pass / Fail**
2	Valid KRA Tax Compliance Certificate (TCC)	Confirmation of legal status with local revenue authorities.	**[ ] Pass / Fail**
3	Certified Copy of Recent CR12 Form	Issued within the last 6 months to verify directorship structure.	**[ ] Pass / Fail**
4	NCA Water Works Registration Certificate	Valid registration with National Construction Authority (Category 8+).	**[ ] Pass / Fail**
5	Valid NCA Annual Practicing License	Proof of active legal authorization to complete engineering works.	**[ ] Pass / Fail**
6	Original Tender Security (Bid Bond)	KES 50,000 guarantee valid for 120 days from an approved bank.	**[ ] Pass / Fail**
7	Duly filled & signed Form of Tender	Legal financial offer explicitly sealed by an authorized signatory.	**[ ] Pass / Fail**
8	Mandatory Site Visit Certificate	Duly signed and stamped by the URCC representative on site.	**[ ] Pass / Fail**

SECTION 3: TECHNICAL SPECIFICATIONS & SYSTEM DESIGN METRICS

3.1 Core System Infrastructure Benchmarks:

- **System Design Flow Rate:** Continuous purified delivery capacity of exactly **500 Litres per Hour (LPH)** under steady state operation.
- **Power Source Compatibility:** Dual operational framework. The plant must run natively on three-phase grid power and integrate with automatic interlocking control circuits to protect components during active switchovers to on-site **backup generators**.
- **Automation Level:** Fully automated system incorporating dry-run protection for booster pumps, automatic pressure-switch cutoffs, and scheduled automated backwash cycles for pressure media vessels.

3.2 Targeted Contaminant Baseline & Engineering Limits:

The system configuration must specifically target, neutralize, and filter out the following localized baseline non-conformities extracted directly from the chemical and microbiological laboratory profile (COA No: SAS/CA/PWG-241067) for the site on **Bob Harris Road**:

Test Parameter	Raw Water Baseline	EAS 12 Standard	WHO Limit	Required System Treatment Action
Total Coliforms	1.11×10^3 cfu/100mL	Absent	Absent	**Total Elimination (0 cfu)**
Escherichia coli (E.coli)	6.4×10^2 cfu/100mL	Absent	Absent	**Total Elimination (0 cfu)**
Turbidity	26.95 NTU	Max 25 NTU	Max 5 NTU	Reduce to below 5 NTU
Total Suspended Solids (TSS)	9.00 mg/L	Not Detected (ND)	—	Filter to absolute Not Detected status
Iron (Fe^2■)	0.58 mg/L	Max 0.3 mg/L	Max 0.3 mg/L	Oxidize and reduce to < 0.3 mg/L
Orthophosphates (PO■^{3}■)	2.44 mg/L	Max 2.2 mg/L	—	Reduce to below 2.2 mg/L limit
Fluoride (F■) **Borderline*	1.47 mg/L	Max 1.5 mg/L	Max 1.5 mg/L	Maintain / safe-buffer compliance

3.3 Minimum Technical Process Configuration:

Bidders must integrate the following processing blocks into their design schema: (a) *Iron Oxidation Unit:* Dosing pump or chemical aeration matrix to convert soluble Fe^{2}■ into insoluble precipitates. (b) *Mechanical Multi-Media Filtration:* Pressure vessel containing manganese greensand, birm, or quartz sand to trap solids and iron flakes. (c) *Adsorption Unit:* Premium activated carbon vessel to remove organic complexes and odor. (d) *Micro-Polishing Sediment Array:* Sequential 5-micron and 1-micron cartridge filters. (e) *Disinfection Reactor:* Sized Ultraviolet (UV) sterilizer chamber (minimum 30 mJ/cm^{2} dosage) or digital automated chlorination loop to guarantee bacterial sterilization.

SECTION 4: TWO-STAGE TECHNICAL EVALUATION MATRIX

Bids meeting preliminary administrative criteria will be scored out of **100 Maximum Points**. Bidders must score a **minimum of 75 Points** to pass the technical stage. Proposals failing to meet this threshold will have their financial bids returned unopened.

Ref	Technical Criteria Component	Specific Evaluation Verification Focus	Max Pts
1.0	**Firm's Experience & Sector Profile**	• General operating track record of > 5 years in water engineering in East Africa (10 Pts). • Proof of 3 distinct borehole plants with verified iron removal and bacterial sterilization loops in Kenya with reference letters (15 Pts).	**25**
2.0	**Technical Conformity of Proposed Design**	• Plant layout matches 500 LPH continuous output with strict sizing calculation sheets (10 Pts). • Clear process breakdown targeting E.coli, iron, turbidity, and solids removal (15 Pts). • Quality datasheets, origins, and components of pressure vessels, pumps, and media (10 Pts). • Integrated electrical schematic showing automated phase-protection and generator interlocking switch circuits (10 Pts).	**45**
3.0	**Project Methodology & Timelines**	• Comprehensive Gantt chart highlighting mobilization, skid piping, electrical work, and validation stages within standard time bounds (10 Pts). • Verification testing plan utilizing independent ISO 17025 accredited labs post-install (10 Pts).	**20**
4.0	**Warranty Framework & Support Logistics**	• Comprehensive parts and structure warranty statement for a minimum of 12 months (5 Pts). • Comprehensive syllabus outline for URCC facility operator training and handover documentation (5 Pts).	**10**
	TOTAL TECHNICAL SCORING POTENTIAL	**Minimum Qualification Cut-off Gate: 75 Points**	**100**

SECTION 5: FINANCIAL BIDDING FORMS

Bidders must itemize all financial costs strictly within the schedules provided below. Quoted figures must remain fixed, denominated in **Kenya Shillings (KES)**, and include all statutory taxes including 16% VAT. Unconditional or hidden items will lead to bid rejection.

5.1 Capital Expenditure (CAPEX) — Turnkey Supply & Installation

Item	Component Description (Sized for 500 LPH Output)	Unit	Qty	Unit Cost (KES)	Total Cost (KES)
1.1	Iron Oxidation Module (Aeration assembly / Chemical dosing tank & pump)	Lot	1		
1.2	Manganese Greensand / Birm Iron Removal Pressure Vessel Filter	Unit	1		
1.3	Premium Activated Carbon Adsorption Pressure Vessel Filter	Unit	1		
1.4	Polishing Sediment Cartridge Filter Assemblies (5 and 1 micron housings)	Set	1		
1.5	High Intensity UV Disinfection Chamber / Automated Chlorination loop	Unit	1		
1.6	Raw Feed & booster pumps with integrated dry-run sensors	Set	1		
2.1	Skid-mounted interconnecting schedule 80 piping, valves, and gauges	Lot	1		
2.2	Electrical Distribution Panel with surge protector & generator interlocks	Unit	1		
2.3	On-site mechanical, electrical, and structural installation labor	Lot	1		
3.1	Post-commissioning independent ISO 17025 laboratory quality verification test	Lot	1		
3.2	Technical operator training, comprehensive O&M; manuals, and handovers	Lot	1		
	SUBTOTAL TURNKEY SYSTEM CAPEX (Tax Exclusive)				
	16% VALUE ADDED TAX (VAT)				
	TOTAL CARRIED TO FORM OF TENDER (KES)				

5.2 Estimated Operational Expenditure (OPEX) — 12-Month Run Profile

Projections must reflect standard operation running **8 Hours per day** (equivalent to 4,000 Litres total daily treated capacity):

Item	Consumable Part / Media Description	Interval Frequency	Annual Qty	Unit Price (KES)	Total Annual (KES)
1.0	Oxidation Reagents / Chemical Dosing Media compounds	Monthly	12		
2.0	5-Micron High Efficiency Polypropylene Sediment Cartridges	Quarterly	4		
3.0	1-Micron High Efficiency Polypropylene Sediment Cartridges	Quarterly	4		
4.0	Replacement UV Lamp Bulb Element & Core Electronic Ballast	Annually	1		
5.0	Scheduled Preventive Engineering Maintenance Site Visits	Bi-Annually	2		
	TOTAL ESTIMATED 12-MONTH MAINTENANCE OPEX PROFILE				

SECTION 6: MILESTONE-BASED TERMS OF PAYMENT

Disbursements will be released exclusively against certified engineering milestone triggers. No partial advance or down-payment will be facilitated without full legal documentation as defined below:

Stage	Milestone Trigger Event Description	Release %	Mandatory Documentation Framework
1	**Project Mobilization Advance**	**20%**	• Approved Process Flow Diagrams (PFD). • Confirmed execution schedule (Gantt Chart). • Equivalent Bank Guarantee from a commercial bank.
2	**Physical Delivery of Core Plant Components**	**40%**	• Delivery of skids, pressure vessels, media, UV hardware to site on **Bob Harris Road**. • Signed inventory check verification by URCC engineer.
3	**Turnkey Installation & Cold Mechanical Run**	**30%**	• Full physical, piping, and electrical layout connection. • Automated control panel linking grid and generators. • Mechanical commissioning certificate signed by both parties.
4	**Performance Quality Retention Release**	**10%**	• Independent sample verification from an ISO 17025 lab. • **Certified total absence of E.coli and Coliforms**. • Iron levels < 0.3 mg/L satisfying EAS 12. • Final training and handover signatures.

SECTION 7: GENERAL CONDITIONS OF CONTRACT & LIQUIDATED DAMAGES

7.1 Liquidated Damages for Delay:

If the selected Contractor fails to achieve practical structural completion and successful cold commissioning of the 500 LPH system within the binding timeframe defined under the executed agreement, the Contractor shall pay to URCC liquidated damages. The penalty parameters are fixed as follows:

- **Daily Rate Assessment:** The contractor will be assessed a penalty of **0.5% of the total turnkey contract sum** for every calendar day that the project surpasses the approved deadline.
- **Maximum Accumulation Cap:** The cumulative penalty maximum is structurally capped at **10% of the total contract value**.
- **Default and Termination Threshold:** Once the maximum 10% penalty threshold is reached, URCC maintains the absolute right to automatically terminate the agreement for default without further recourse, claim any active Performance Bonds or guarantees, and engage alternative contractors to complete the works. Any secondary costs incurred will be back-charged directly to the defaulting contractor.

7.2 Performance-Linked Quality Delay Clauses:

Physical completion of the plant layout without achieving water purification compliance does NOT stop the accumulation of delay penalties. If the plant is erected on time, but independent laboratory testing through an ISO 17025 accredited facility shows the presence of *E.coli*, Total Coliforms, or iron levels exceeding 0.3 mg/L, the plant will be legally classified as **Incomplete**.

The daily Liquidated Damages penalty rate of 0.5% will continue to accrue against the contractor until they adjust filtration media, modify chemical dosing speeds, or replace sterilizing elements to consistently hit the safety limits mandated by **EAS 12 / WHO Standards** at their own cost.

SECTION 8: TECHNICAL EVALUATION DATA SHEET (BIDDER INPUT REQUIRED)

Bidders must provide the explicit brands, models, and specifications of the key components they intend to deploy for this project. Leaving this section blank or writing 'as per catalog' will result in technical rejection.

Core Treatment Component	Mandatory Specification Target	Bidder Proposed Brand / Model	Country of Origin
1. Pre-Treatment Dosing Pump	Digital pulse, auto-stroke speed adjustment control		
2. Pressure Vessel Housings	Fibre Reinforced Plastic (FRP), max 10 Bar pressure rating		
3. Iron Filtration Media	High catalytic capacity (Manganese Greensand / Birm premium)		
4. Adsorption Media	Premium granular activated carbon (min 1000 Iodine value)		
5. Ultraviolet (UV) Sterilizer	Stainless steel 314/316 chamber, failure audio alarm, lamp indicator		
6. Distribution / Booster Pump	Stainless steel impeller, integrated thermal overload protection		
7. Electrical Control Unit	Phase protection relays, digital display indicators, auto-interlocks		

SECTION 9: FORM OF TENDER (LEGAL BID SHEET)

The Secretary Procurement Committee,

Deliverance Church International Kasarani (Zimmerman)

P.O. Box 73492-00200, Nairobi, Kenya.

Dear Sir/Madam,

Having examined the complete Tender Procurement Profile, technical design specifications, baseline laboratory parameters, and milestone payment schedules for the execution of the captioned works, we, the undersigned, offer to design, supply, install, test, and commission a **500 Litres per Hour (LPH) Water Treatment System** at the URCC Campus on **Bob Harris Road, Juja**, in full compliance with the General Conditions of Contract for the complete Turnkey Contract Sum of:

Kenya Shillings (in figures):

KES.....

Kenya Shillings (in words): .....

We confirm that this pricing framework explicitly includes all engineering labor, component materials, transport overheads, laboratory verification testing fees, and all statutory taxes (inclusive of 16% VAT).

We agree to bind ourselves to maintain this financial proposal for a fixed period of **90 Calendar Days** from the official tender closing date, and it shall remain legally binding upon us and may be accepted at any time before the expiration of that period.

We fully understand and acknowledge that you are not bound to accept the lowest or any financial offer you receive, and that the final 10% performance quality retention will be strictly bound to water quality compliance reports.

Authorized Name of Signatory: .....

Legal Capacity / Designation: .....

In the Capacity of (Firm Name): .....

Authorized Signature: .....

Official Corporate Stamp / Seal:

Date of Execution: ..... Day of..... 2026

Witness Name & Signature: .....

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