



REPUBLIC OF KENYA



**Regional Centre on Groundwater
Resources Education, Training & Research**
OASIS OF GROUNDWATER KNOWLEDGE



REGIONAL CENTRE ON GROUNDWATER RESOURCES EDUCATION, TRAINING & RESEARCH

EXPRESSION OF INTEREST

(CONSULTING SERVICES – FIRMS SELECTION)

Project:	CONSULTANCY SERVICES FOR MANAGED AQUIFER RECHARGE PILOT IMPLEMENTATION FOR NAIROBI AQUIFER SYSTEM
Reference No.	RCGW/NUWSSP/MAR-NRB-PILOT/EOI/001/2025-2026

The Regional Centre on Groundwater Resources Education Training and Research (RCGW) is a State Corporation under the Ministry of Water Sanitation and Irrigation established under the State Corporations Act vide Legal Notice 252 of 18th December, 2015 to promote sustainable development and management of groundwater resources through research, education and training. The Government of the Republic of Kenya (GoK) has received financing from the Africa Development Bank towards implementing the National Urban Water Supply and Sanitation Program and intends to apply part of the funds to eligible payments under the contract for **"Consultancy Services for Managed Aquifer Recharge Pilot for Nairobi Aquifer System"**.

The Regional Centre on Groundwater Resources Education Training and Research (RCGW) invites eligible consulting firms to submit sealed Expression of Interest (Eoi) for **Consultancy Services for Managed Aquifer Recharge Pilot for Nairobi Aquifer System**. The overall objective of the assignments is to undertake pilot project for Managed Aquifer Recharge Pilot for Nairobi Aquifer System.

The pilot project is purposed to cover the following components;

1. Design, Construct and Develop MAR Infrastructure in Nairobi

- Select suitable pilot recharge site(s) based on scientific, technical, environmental, and socio-economic criteria.
- Obtain all required permits and approvals for water abstraction, recharge, and infrastructure construction from local, county, and national agencies.
- Construct appropriate MAR infrastructure (e.g., infiltration ponds, recharge wells, sedimentation tanks, weirs, retention walls, sand dams,) that allows for flexibility and future adaptive management.
- Ensure designs include monitoring infrastructure (e.g., observation wells, sensors).
- Design and develop plans for pre-treatment systems if using stormwater or treated effluent.

2. Implement and test suitable MAR pilot schemes in the study area

- Implement the pilot-scale MAR facility according to the approved design by putting the pilot system into operation
- Incorporate methods to prevent technical issues like clogging and to ensure the long-term efficiency and capacity of the aquifer
- Conduct on-site testing to determine technical and economic feasibility
- Install and Implement monitoring and evaluation infrastructure of infiltration capacity and aquifer characteristics.
- Develop operation and maintenance (SOPs) of the pilot.
- Perform Environmental and Social Impact Assessment (ESIA) in line with national regulations.

3. Monitor and evaluate the restoration of groundwater levels and establishment of a long-term groundwater reservoir

- Perform objective performance evaluations for groundwater levels, quality, and abstraction rates.
- Conduct technical assessment of different installed MAR techniques (e.g., infiltration basins, recharge wells).
- Model aquifer behavior to estimate recharge potential and risks.
- Conduct water quality assessment in view of MAR intervention.

4. Develop a detailed strategy & investment plan for upscaling MAR implementation within Nairobi Aquifer

- Engage with key stakeholders: WRA, Athi Water, Nairobi Water, NEMA, county governments, local communities on MAR Upscaling in Nairobi.
- Establish systems to track water levels, water quality, and the overall performance of the MAR system to ensure its effectiveness and sustainability over time
- Based on the strategy, make necessary modifications to the design, processes, or materials.

5. Develop an economic business model for MAR implementation within NAS

- Identify all costs including initial capital costs for infrastructure, ongoing operational and maintenance costs, and potentially financial costs like debt servicing.
- Establish clear ownership by determining who owns water for recharge and who has the right to extract it to prevent conflicts.
- Explore public-private partnerships to share responsibilities and costs.
- Explore revenue streams and payment options for ecosystem services

The assignment will be carried out over a period of **24 (Twenty-Four) months**.

Regional Centre on Groundwater Resources Education, Training & Research now invites eligible Consultancy Firms to indicate their interest in providing these services. Interested consultants must provide information indicating that they are qualified to perform the services (brochures, description of similar assignments, experience in similar conditions, availability of appropriate skills among staff, etc.). Consultants may constitute joint-ventures to enhance their chances of qualification.

The shortlisting criteria are:

- Experience in 5 No. similar assignments in the last 15 years and provide evidence of the undertaken Contracts
- Availability of expertise with relevant experience of at least 5 years in related assignments
- The individual experts should be registered by relevant professional bodies
- The consulting firm should have a Team Leader / Groundwater Management Specialist, Hydrogeologist, Groundwater Data Management Expert, Water Supply Engineer/ Design and Cost engineer, Environmental and Economic/Business Modelling Expert)
- Firm's Registration Details (Business Licence, Tax Compliance, Shareholders)

A Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method set out in the Consultant Guidelines.

Interested consultants may obtain further information at the address below during office hours 0800 to 1700 Hours from Monday to Friday excluding lunch hour (1300 to 1400Hrs) and public holidays.

Expressions of interest must be delivered to the address below by **10th March 2026 at 11.00 noon East African time** and mention Expression of Interest for Consultancy services Managed Aquifer Recharge Pilot for Nairobi Aquifer System **RCGW/NUWSSP/MAR-NRB-PILOT/EOI/001/2025-2026**.

Chief Executive Officer
Regional Centre on Groundwater Resources Education, Training & Research
Bishop Rd, NSSF Building Block A 16th Floor Western-Wing
Phone: 0208008004 ,
Email: info@rcgw.go.ke