MINISTRY OF ENERGY AND MINERAL DEVELOPMENT

REQUEST FOR EXPRESSION OF INTEREST (EOI) FOR CONSULTANCY SERVICES FOR ESTABLISHMENT OF A NATIONAL NUCLEAR FUEL RESOURCES DATABASE FOR UGANDA – PROCUREMENT REFERENCE NO. MEMD/CONS/2026-2027/00010

The Government of the Republic of Uganda through the Ministry of Energy and Mineral Development has allocated funds to be used for Consultancy Services for Establishment of a National Nuclear Fuel Resources Database for Uganda. The Ministry is developing a nuclear power programme which will play a key role in addressing the country's energy needs by utilizing nuclear energy (Energy Policy of Uganda, 2023). The Energy Policy for Uganda, 2023 envisages increasing electricity generation capacity to 52,481MW by 2040 of which 24,000MW will be nuclear power from four planned nuclear power plants. The nuclear power plants will require about 4,500 tonnes of Uranium annually as nuclear fuel. Uganda has no known uranium deposits, or Uranium mines development facilities and therefore a thorough assessment of its nuclear fuel resources is required and a nuclear fuel resources database developed for strategic planning. A National Nuclear Fuel Resources Database is needed to provide a centralized, reliable and continuously updated system for managing information on nuclear fuel resources in order to support decision-making.

The consultancy will design, develop, and deploy a comprehensive, secure and user-friendly nuclear fuel resources database for Uganda that is aligned with national and international standards. The consultancy additionally aims at collecting, reviewing, validating, consolidating and integrating available nuclear fuel resources exploration data, field reconnaissance, laboratory investigations where necessary, populating the validated datasets into the database and capacity building to sustainably manage, maintain and utilize the database.

The scope for the consultancy shall include: -

a) Develop a Data Management Plan: Develop a Data Management Plan covering the flow of nuclear fuel resource data from field acquisition to the final repository.

b) Data Collection: The Consultant shall apply the Mineral Systems Approach (MSA) to guide the review, collection and compilation of Uganda's geological structure, formation and tectonic history; examine literature on Uganda's nuclear fuel resources, including distribution and investigate existing data (including research data) to identify uranium prospects in Uganda bearing in mind geological settings, mineralization and exploration history.

c) Data Verification and Analysis: Verifying nuclear fuel resources exploration data is critical to ensure accuracy, compliance with international standards, and informed decision-making for nuclear fuel resource development. The consultant shall be expected to demonstrate that adequate field sampling process verification techniques (QA/QC) have been applied.

d) Database Design and Development: Design and develop a comprehensive database to store and manage the collected data. In designing this database, identify the types of data to be stored, user roles and functional requirements; select (in collaboration with MEMD) a suitable database management system (DBMS) such as MySQL, PostgreSQL or Microsoft SQL Server. The consultant shall also integrate and populate the database with validated existing and newly acquired geological, geophysical, geochemical, and environmental data.

e) Training and Technical Support: Provide training and technical support to MEMD staff on the user, management, maintenance and updating of the database.

f) Reporting and Visualization: The consultant shall report and use engaging visuals (charts, infographics, and GIS animations) to effectively communicate complex information as detailed in the Terms of Reference.

g) Post-Implementation Support: Provide technical support and maintenance during a one-year warranty/guarantee period following acceptance and deployment of the database.

The assignment shall be completed within a period of eighteen (18) months, from the date of contract signature.

The Ministry of Energy and Mineral Development hereby invites applicants to show their interest in delivering the services described above.

This Request for Expression of interest is Open to Consulting firms only.

The Applicant shall submit only one application, either in its own name or as member of a joint venture (JV). If an Applicant (including any JV member) submits or participates in more than one application, those applications shall be all rejected. However, the same sub consultant may participate in several applications.

Consultants may constitute joint-ventures to enhance their chances of qualification. If the Applicant is JV, the expression of interest shall include a copy of the JV Agreement entered into by all members or a letter of intent to execute a JV Agreement, signed by all members together with a copy of the Agreement proposal. The JV agreement/letter of intent shall clearly indicate the role and responsibility of each JV member in the assignment. In the absence of this document, the other members will be considered as sub consultants.

Experience and qualifications of Sub consultants shall not be considered in the evaluation of the applications.

The shortlisting criteria will therefore include;

a) Interested Applicants must provide information evidencing that they have legal documents indicating the firm's legal status, qualified and experienced to perform those services.

b) The Applicant shall demonstrate verifiable institutional and technical capacity to undertake the assignment, including demonstrated experience of the proposed lead firm and each JV member in assignments of comparable scope, complexity, value and cost of about five (5) billion Ugandan shillings or equivalent; successfully executed with in the last eight years. The consultancy firm shall demonstrate experience to have undertaken **at least two (2) completed similar, nature complexity and value** in uranium exploration using mineral system approach. In addition, the prospective firm shall have proven experience to have undertaken **at least two (2) completed assignments** in design, development and management of nuclear fuel resources databases.

The applicant shall attach a copy of the signed contract and a certificate of completion /recommendation letter as evidence of successful execution for all the cited similar assignments. The similarity for the assignments shall consider the following; expertise in database design, development, and management, as well as their experience in the uranium exploration.

An application that does not meet any of the above requirements will be rejected.

Among the submitted applications, the Ministry will shortlist a maximum of six (6) applications, to whom the request for proposals to carry out the services shall be sent.

The Ministry now invites eligible consultants to indicate their interest in providing these services. Interested consultants must provide information indicating that they are qualified to perform the services:

Eligibility criteria, establishment of the short-list and the selection procedure shall be in accordance with the PPDA regulations.

Interested consultants may obtain further information at the address below during office hours, between **0800** to **1600 hours.**

Expressions of Interest (EOIs) must be delivered to the address below by **15th October, 2026 at 1100 hours (local time)** and mention **"Expression of Interest (EOI)- Consultancy Services for Establishment of a National Nuclear Fuel Resources Database for Uganda.**

The consultancy firms shall submit their EOIs either physically at the address indicated below or electronically via the following email addresses: **hpdu@energy.go.ug. m.nakitto@energy.go.ug,** , **e.wamala@energy.go.ug** and The maximum size of electronic submissions shall not exceed 15 MB.

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