



REQUEST FOR EXPRESSION OF INTEREST

CONSULTANCY SERVICES FOR DESIGN AND SUPERVISION OF IRRIGATION SCHEMES FOR 5,000 HA OF ARABLE LAND OF THE SIERRA LEONE RICE AGRO INDUSTRIAL CLUSTER PROJECT IN BONTHE AND PUJEHUN DISTRICTS

Country: Republic of Sierra Leone

Name of Project: Rice Agro Industrial Cluster (SL RAIC) Project

Sector: Agriculture

Mode of Financing: Grant

Project ID: P-SL-AA0-021

Grant No: 5900155016654

Issued Date: 13th September 2022

The Government of the Republic of Sierra Leone has received financing from the African Development Bank (AfDB) in the form of grant towards the cost of Rice Agro Industrial Cluster (SL RAIC) Project and intends to apply part of the agreed amount towards payment under a consultancy service contract for Design and Supervision of Irrigation Schemes for 5,000 ha of Arable Land in Bonthe and Pujehun Districts.

The overall objective of the proposed Consultancy services is to support Project Implementation Unit and Ministry of Agriculture in implementing the irrigation and civil works component of SL RAIC Project as follows:

- ✚ To develop detailed designs, technical specification and bill of quantities, cost estimates and tender document of pipeline irrigation system for 5000ha of arable land.
- ✚ To provide technical support throughout the bidding process of the abovementioned works
- ✚ To conduct comprehensive supervision of project implementation activities carried out by the selected contractors ensuring complete compliance with the drawings, technical specifications environmental and social safeguards and various stipulations contained in the Contract Documents.
- ✚ To ensure high standards of quality assurance in the execution of work and completion of the works within stipulated time.

- ✚ To assist Project Implementation Unit in taking remedial actions to avoid slippages, cost over runs, delays by contractor, etc.
- ✚ To ensure safety during construction and adherence to all requirements under the Environment and Social Management Plan prescribed under the Contract.

Qualification, Experience Requirements and Major tasks and Responsibilities of Key Experts

1. IRRIGATION ENGINEER

Qualification	Minimum of Masters’ degree in Irrigation Engineering/Agricultural Engineering/Hydrology/Hydraulics
Total Professional Experience	10 years post qualification experience in all sectors of Irrigation Engineering.
Project Related Experience	7 years project related experience particularly with Donor funded project.
Country/Regional Experience	Broad experience in the sub-region and Africa in general. Work experience in hard to reach areas in West Africa will be an added advantage
Tasks and Responsibilities	<p>I. Assess the present production systems in the Project Districts with particular attention to the water used per unit of product, Irrigation systems applied, overall water use efficiency and the preparedness of farmers to reduce their water use and to increase its efficiency.</p> <p>II. Assess the availability of material and/or equipment in Sierra Leone which is needed to reduce water use and/or to increase water use efficiency</p> <p>III. Advice and assist the Project Irrigation Engineer and the Agriculture Engineering Division on water and related infrastructure for each district which will ensure sustainable and climate change resilient water resources management</p> <p>IV. The newest technologies on water harvesting and groundwater recharge will have to be introduced wherever application. Water conveyance and storage should be optimized and made effective.</p> <p>V. Designing of ala irrigation infrastructures and water control systems which are technically robust, socially acceptable and environmentally friendly</p> <p>VI. Train Water User Associations(WUA) on water and irrigation system management on irrigation water saving</p>

	<p>techniques for improved production and productivity in collaboration with Agric. Engineering Division, Ministry of Agriculture.</p> <p>VII. Provide interpretation of the Technical Specification where necessary</p> <p>VIII. Advice on work deviations (modifications and additional works)</p> <p>IX. Advice on claims, disputes and contract interpretation</p> <p>X. Plan and prepare work schedules in consultation with Team Leader</p> <p>XI. Monitor progress of work through field visits</p> <p>XII. Ensure smooth implementation of all project activities.</p> <p>XIII. Prepare and review progress Monthly/quarterly reports</p>
--	---

2. CIVIL ENGINEER

Qualification	Minimum of Bachelor's degree in civil engineering
Total Professional Experience	Knowledgeable in technical management, quality assurance, management and project management with a minimum of 10 years in the rehabilitation /construction of feeder roads and other community infrastructure, preparation of bills of quantities and technical specifications of civil, drawings and designs of feeder roads.
Project Related Experience	Fluent in MSOffice, AutoCAD, and Microsoft Project and well experienced in engineering projects. Proven track record and strong technical capacity in managing projects. Quality assurance such that completed work components are in conformity to design and specifications. He/she shall possess adequate skills to ensure that supervision of works on feeder roads and ABCs are effectively carried out.
Country/ Regional Experience	Work experience in the provincial areas of Sierra Leone and West Africa will be an added advantage
Tasks and Responsibilities	<p>I. Provide technical management and supervision of all civil Works</p> <p>II. Manage and coordinate all civil works of the site with the clerk of works and other experts</p> <p>III. Respond to all technical issues of Contractor</p> <p>IV. Carry out field design for all civil works in the irrigation system design</p>

	<p>V. Undertake quality control and verification of measurement bills</p> <p>VI. Provide backstopping to the Clerk of works</p> <p>VII. Provide interpretation of the Technical Specification where necessary</p> <p>VIII. Advice on work deviations (modifications and additional works)</p> <p>IX. Advice on claims, disputes and contract interpretation</p> <p>X. Plan and prepare work schedules in consultation with Team Leader</p> <p>XI. Monitor progress of work through field visits</p> <p>XII. Ensure smooth implementation of all project activities and provide support required to Field Engineers</p> <p>XIII. Prepare and review progress Monthly/quarterly reports</p>
--	---

3. AGRONOMIST

Qualification	MSc Degree in general agriculture with background in environment, agriculture and agricultural Business
Total Professional Experience	Practical Experience in agronomy and agri-economics relevant to the whole country and multiple crops. Experience in agricultural data collection and analysis
Project Related Experience	At least 7 years of experience working in project setting in similar position
Country/ Regional Experience	Highly desirable
Tasks and Responsibilities	<p>I. Provide support to the Irrigation System Design team with Agronomic data</p> <p>II. Engage with expert agronomists and agro-economists with experience relevant to the whole country and collaborate with the PMU's specialists.</p> <p>III. Conduct analyses of agricultural sector in Sierra Leone with reference to the five project districts through consultation and other available sources.</p> <p>IV. Conduct an assessment to determine the crops that will grow well in the irrigated areas based on the seasonal</p>

	<p>calendar, and availability of quality seeds and local preferences</p> <p>VI. Work with the research institutions to determine the appropriate rice technologies to be promoted in the irrigated areas that will enhance production and productivity</p> <p>VII. Identify individuals capable and motivated to train participants on agricultural practices especially vegetable production</p> <p>VIII. Prepare a final report including impressions of the program, best practices, recommendations, sustainability plan and potential for scaling up</p>
--	---

4. AGRICULTURAL ENGINEER

Qualification	Minimum Bachelor of Science in Agricultural Engineering
Total Professional Experience	10 Years post qualification experience in all sectors of agriculture
Project Related Experience	7 Years of Project related experience particular with Donor funded projects
Country/ Regional Experience	Broad experience in the sub region and Africa in general
Tasks and Responsibilities	<p>I. Assess the present production systems in the two Project Districts with particular attention to the water used per unit of product, Irrigation systems applied, overall water use efficiency, and the preparedness of farmers to reduce their water use and to increase its efficiency,</p> <p>II. Assess the availability of material and/or equipment in Sierra Leone which is needed to reduce water use and/or to increase water use efficiency.</p> <p>III. Advise and assist the Project Irrigation Engineer and the Agriculture Engineering Division on the water-related infrastructure for each District which will ensure</p>

	<p>sustainable and climate change resilient water resources management.</p> <p>IV. The newest technologies on water harvesting and groundwater recharge will have to be introduced, whenever applicable. Water conveyance and storage should be optimized and effective.</p> <p>V. Advise District Agriculture Office staff and private partners on the most appropriate technologies for increasing irrigation efficiency and assist in setting-up demonstration pilots if so required. The present irrigation technologies advised are inadequate. It is important that the investment into irrigation system has a high financial internal rate of return as to stimulate farmers to invest in such technologies.</p> <p>VI. Advise District Agriculture officers and the private sector including FBO on the latest development of crop production systems using minimal quantities of water.</p> <p>VII. Assist the BES and FEWs in setting up demonstration plots to introduce these minimal water using production systems.</p>
--	--

5. ENVIRONMENTAL SPECIALIST

Qualification	Must have at Least MSc in Environmental Science, Environmental Engineering, any branch of engineering having diploma certificates, economics (specialization in environmental economics)
Total Professional Experience	Must have at least 10 Years of working experience, of which 5 years in the field of environmental activities as consultant or working in an institution which deals with environmental concerns.

Project Related Experience	5 Years of project related experience. Must participated in the preparation of Environmental impact studies of at least two projects in Sierra Leone
Country/ Regional Experience	Must be aware of the environmental rules and regulations of Sierra Leone and the AfDB.
Tasks and Responsibilities	<p>I. Support the Consultant Firm to ensure proper implementation of all environmental safeguards under all contract packages</p> <p>II. Collect baseline data during pre-construction stage as necessary in accordance with the ESIA and the Environmental Protection Agency of Sierra Leone regulations and AfDB</p> <p>III. Oversee planning and implementation of environmental mitigation measures</p> <p>IV. Organize training workshops and provide on-site technical advice to the contractor as necessary</p> <p>V. Prepare the monthly and quarterly monitoring report on implementation of the Environmental Management Plan in collaboration with the Project Environmental and Social Safeguard Officer</p> <p>VI. Explain the specific environmental issues or risks to be addressed in the contract</p> <p>VII. Involve in the stakeholder consultation process with respect to environmental issues(if required)</p>

6. QUANTITY SURVEYOR

Qualification	Bachelor degree in Quantity surveying or any related field
Total Professional Experience	Post qualification experience of 7 years in quantity surveying work in a similar setting .

Project Related Experience	5 Years of project related experience with development projects in rural areas of Sierra Leone
Country/ Regional Experience	Must be show evidence of working within the sub-region and Africa especially in rural areas.
Tasks and Responsibilities	<p>I. Develop estimated bill of quantities for all works</p> <p>II. Measure quantities of work, record Measurements and verify BoQ items/work</p> <p>III. Verify and examine interim payment certificates received from contract</p> <p>IV. Maintain a permanent record of all measurement for the work quantities</p>

7. GIS/TOPROGRAHIC SURVEYOR

Qualification	A degree in surveying/GIS/Civil Engineering
Total Professional Experience	10 years' experience in surveying
Project Related Experience	5 Years' experience/evidence of working with development projects in rural areas of sierra Leone
Country/ Regional Experience	Must show evidence of working within the sub-region and Africa, especially in rural areas.
Tasks and Responsibilities	<p>I. Carry out topographic</p> <p>II. Produce topographic maps</p> <p>III. Ensuring that design levels of canal, drains and plot are followed.</p> <p>IV. Provide Technical backstopping to contractor during setting exercise.</p>

8. MATERIAL/QUALITY CONTROL ENGINEER/Geo-technical/Soil Engineer

Qualification	Bachelor of Engineering in Material Engineering, Soil Engineering or any related field
Total Professional Experience	7 Years Minimum
Project Related Experience	Minimum 5 Years' experience in quality control
Country/ Regional Experience	Preferable
Tasks and Responsibilities	<p>I. Make sure material used in the project meets the required standards</p> <p>II. Coordinate both in-situ and laboratory testing of all materials and field activities</p> <p>III. Ensure implementation of quality assurance plans and quality control tests for all works</p> <p>IV. Fill in quality control aspect in the monthly and quarterly report.</p>

9. CLERK OF WORKS

Qualification	Minimum Ordinary National Diploma or its relevant equivalent in Construction
Total Professional Experience	At least post qualification experience of 5 Years in the related field of supervision
Project Related Experience	Experience working donor funded projects
Country/ Regional Experience	Vast knowledge working in the rural areas of the country.
Tasks and Responsibilities	I. Shall be responsible to supervise and watch the daily construction activities and ensure that the works are carried out according to the drawings and specifications.

	<p>II. To cooperate with and assist the Field Engineer, the Surveyor in the execution of their duties</p> <p>II. To maintain records, inspect and check the quality of work, submit weekly Clerk of Works Reports to Civil Engineer</p> <p>III. Liaise with and maintain records of engagement with all Local Authorities and PIU</p>
--	---

9. CLERK OF WORKS

Qualification	Minimum Ordinary National Diploma or its relevant equivalent in Construction
Total Professional Experience	At least post qualification experience of 5 Years in the related field of supervision
Project Related Experience	Experience working donor funded projects
Country/ Regional Experience	Vast knowledge working in the rural areas of the country.
Tasks and Responsibilities	<p>I. Shall be responsible to supervise and watch the daily construction activities and ensure that the works are carried out according to the drawings and specifications.</p> <p>II. To cooperate with and assist the Field Engineer, the Surveyor in the execution of their duties</p> <p>II. To maintain records, inspect and check the quality of work, submit weekly Clerk of Works Reports to Civil Engineer</p> <p>III. Liaise with and maintain records of engagement with all Local Authorities and PIU</p>

The estimated duration of the assignment is **3** years.

The Rice Agro Industrial Cluster (SL RAIC) Project, 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 (brochures, description of similar assignments, availability of appropriate and experienced key personnel among staff, as indicated for the various assignments in paragraph 2 above relating to qualification and experience requirements.

Eligibility criteria, establishment of the short-list and the selection procedure shall be in accordance with the African Development Bank's "Procurement Policy and Methodology for Bank Group funded Operations" (BPM), dated 2015, which is available on the Bank's website at <http://www.afdb.org>. RAIC is under no obligation to shortlist any consultant who expresses interest.

Consultants may obtain further information (including detailed Terms of Reference) at the address below during office hours Monday to Friday 0900 hours to 1700 hours.

Expression of interest must be hand-delivered or emailed to the address below by 28nd September 2022 at 1700 hours and mention "Expression of Interest for: Design and Supervision of Irrigation Schemes for 5,000 HA of Arable Land in Bonthe and Pujehun Districts

Attn: The Project Manager

Rice Agro Industrial Cluster (SL RAIC) Project
72 Bo-Kenema Highway, Bo City
Tel: +232 76 994 776
Email: jmpsinahmoasraicp@gmail.com