



**L3895/L3896/G9205(EF)-MON:
VEGETABLE PRODUCTION AND
IRRIGATED AGRICULTURE
PROJECT**



CONSULTANCY SERVICE RECRUITMENT NOTICE

Project Title: Vegetable Production and Irrigated Agriculture Project

Project Number: 51423-002

Consultancy Service Title: Detailed Engineering Design for Five Rehabilitating Irrigation Schemes (National Firm)

Consultancy Package No.: CS-20

1. Project Background

The project objective is to increase income generation and enterprise support for smallholder vegetable farmers. This will be achieved through a number of components, most notably to upgrade and modernize existing (or new) government-owned irrigation systems (schemes). Support will also be provided to farmers on each scheme including: support to the formation of water user associations/farmer vegetable grower groups for the operation and maintenance of irrigation infrastructure, and the improved production and marketing of vegetables; improved access to on-farm infrastructure and technology (e.g. seed producers, harvesters, (conservation) tillage equipment, tube-wells, storage facilities, small-scale winter greenhouses, water-saving technologies such as drip irrigation technology, and community ponds / water tanks (linked to pipes, sprinklers, drop irrigation), etc.); and training on good agricultural practice (e.g. on correct use of pesticides and fertilizers, on efficient water use, etc.). Project investments in irrigation infrastructure will be safeguarded by investments into shelter belts (tree windbreaks) surrounding the irrigated area.

The key activities of the project:

Output 2: Environmentally sustainable agriculture production systems improved

2.1 Rehabilitate irrigation systems and upgrade equipment at crop research institutes.

2. Assignment Objective

The main objective of the consultancy service is to assess the technical feasibility study of proposed five (5) rehabilitating and modernizing existing irrigation schemes and to prepare detailed designs ready for construction. The project goal is to strengthen seed research and production capacity by upgrading of civil works including irrigation facilities and equipment.

Locations of the irrigation schemes:

1. Khongor soum of Darkhan-Uul aimag (98 ha rehabilitation, 250 ha modernization)
2. Orkhon soum of Darkhan-Uul aimag (14 ha)
3. Mandal soum (Zuunkharaa city) of Selenge aimag (13 ha)
4. Ulaangom soum of Uvs aimag (50 ha)
5. Kherlen soum of Dornod aimag (80 ha)

Above mentioned irrigation schemes were built in the 1960 - 2010 and rehabilitation and modernization is required.

The consulting firm shall:

1. Conduct feasibility study report for the irrigation schemes;
2. Conduct survey and collect necessary information for technical designs for irrigation schemes;
 - a. Soil testing;

- b. Site inspections and determination of optimal options;
 - c. Water source evaluation/verification;
 - d. Confirmation of planned cropping pattern;
 - e. On the basis of crops, soils, and provisional design identify the optimal irrigation systems to be adopted;
 - f. Assess and set the water supply pattern against the crop water demand;
 - g. pattern, allowing for all system inefficiencies;
 - h. Implement a detailed examination of the planned intake area;
 - i. In settling on the broad intake requirements and location;
 - j. Prepare detailed designs and cost estimates;
 - k. Include costs estimates for all appurtenant control and safety infrastructure;
 - l. Confirm the main canal (or pipeline) alignment;
 - m. Scale, design and cost all required storage tanks and
 - n. Design siting and setting levels for storage.
3. Develop detailed engineering designs for the irrigation schemes.
 4. Prepare Technical Specifications and BoQ ready for Bidding documents.

Qualifications for the Firm/Company/Entity

1. The Firm/Company /Entity shall have demonstrated experience in detailed designing water facilities and irrigation systems in Mongolia at least 5 years.
2. The Firm/Company/Entity shall be licensed for conducting design irrigation systems and shall provide research tools, equipment and workplace.
3. Experience of ADB or World Bank projects would be a plus.

All interested firm should apply through ADB's Consultant Management Recruitment Notice (CSRN) following the link below by 13 January 2021. Standard template of Expression of Interest and expert CVs (ADB Format) shall be used in the submission, along with relevant documents.

Link:

https://selfservice.adb.org/OA_HTML/adb/xxcrs/jsp/ADBCsrnFwd.jsp?sel=165663

Online Submission will be accepted only.

For Inquiry:

The National Association of Mongolian Agricultural Cooperatives (NAMAC) Building #511

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Phone: +976-9999-9408

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Expression of Interests lacking required documents will be disqualified from evaluation. Only short-listed firms will be contacted.