TERMS OF REFERENCE (TOR) FOR CIVIL ENGINEER-Individual Consultant MODERNIZING RANI JAMARA KULARIYA IRRIGATION PROJECT (MRJKIP) World Bank Funded MRJKIP,

(IDA credit No.6194-NP, Project ID No. P158364 Contract ID No. NP-DOA-MRJKIP-318490-CS-INDV

A. Background

- The Government of Nepal (GON), with financing support from the World Bank (WB), has been implementing the Modernizing Rani Jamara Kulariya Irrigation Scheme II (MRJKIS) with the objective to assure access of irrigation and other agricultural services, and to establish operation and maintenance arrangements for irrigation service delivery through (1) scheme modernization, (2) strengthening water users associations (WUAs) and agriculture production support, and (3) project management.
- 2. The MRJKIS, as the name implies, comprise of three irrigation sub-systems namely Rani Jamara and Kulariya. Each has its own command area with independent Water User Associations that are responsible for management and distribution of water to its member farmers. At the higher level there is a central committee that comprise of representatives from the three sub systems Rani Jamara and Kulariya.
- 3. There is a Project Management Unit (PMU) established at Tikapur which oversees the implementation of the project. While all the project activities are managed by the PMU agricultural activities are being implemented by the Agriculture Component Implementation Unit (ACIU) of the Department of Agriculture, located in Tikapur. The RJK project has been implemented in two phases of five years each. The first phase began in 2011 with the aim of improving irrigation water delivery to, and management in, the command area (14,300 ha) benefitting 25,000 households (157,000 people). The first phase focused on building the primary and secondary canals, installing regulatory structures, setting the stage for agriculture intensification and building the capacity of the WUAs to maintain the modernized system. The first phase ended with good results in terms of increasing productivity of key crops
- 4. Agricultural activities supported by the ACIU include: (i) efficient use of irrigation water, (ii) provision of improved seeds and breeds, (iii) validation and adoption improved technologies and extension services, (iv) community based seed production initiatives for rice, wheat, maize and potato, (v) post production support such as improved harvesting and storage techniques, rehabilitation of markets and construction of collection centers, and (vi) in-class and field based training, demonstrations and learning events.
- 5. One of the major objectives of the project is to increased adoption rate of new innovative technologies to enhance production and productivity and sustain a profitable production system that will continue to benefit the beneficiary households through project promoted interventions even after the closure of the project in September 2023. Project is supporting in value chain infrastructures such as seed storage building, cold storage, livestock production sheds, market infrastructures etc.
- 6. In view of the foregoing the MRJKIS intends to procure services of a Civil engineer to support the project in planning, executing, and supporting agricultural infrastructure activities on intermittent basis.



B. Scope of work

- 7. The Civil Engineer will be responsible for construction, supervision, and Quality control of the infrastructures supported under the programme in close coordination with concerned stakeholders etc. S/he is responsible for providing technical support to Group /Cooperatives, Users committee in construction of small infrastructures and ensures quality of the construction.
- 8. This is a field-based assignment with frequent travel to local project areas and in the surrounding districts.

C. Objectives of the Assignment

9. The objective of the assignment is to support the ACIU to plan and implement activities related to the infrastructure construction. In this context, the officer will prepare the cost estimate, design, and facilities for the agreement with grantee. And make supervision of work during construction period and make the final measurement after the completion of work and make final bill of measurement and recommend the ACIU for the final payment of construction work.

D. Project Area

11. The project area comprises of local Municipalities Tikapur, Janaki and Lamki Chuha in Kailali District. The project is expected to benefit 66,352 households (nearly 300,000 people) and cover 14,300 ha of command area. Nearly 40 percent of the people are Tharus and the rest of migrants from the hills and surrounding districts comprised mostly of Chhetris and Brahmins.

E. Responsibilities and Tasks

- Overall coordination of planning, implementation and monitoring of the Infrastructure subcomponent activities in accordance with the approved annual work plan and budget; also coordinate and ensure complementarities with Value Chain Development activities;
- II. Feasibility study, detailed survey, preparing detailed drawings, specifications and bill of quantities (BoQ) of infrastructures and facilitates;
- III. Prepared objective criteria and produce the sound logic, based on the economic and technical parameters, for the selection of infrastructure to be supported by the Programme that ensures the growth of selected value chain as per the Programme documents and logical framework.
- IV. Develop standard and guidelines for quality assurance check and quality control system for infrastructures construction, aligning with the existing ones and support for its implementation;
- V. Provide technical support and ensure quality construction of the infrastructure sub-component activities in timely manner in accordance with the approved annual work plans;
- VI. Monitor and supervise the construction of infrastructures constructed under Programme support to ensure compliance with the drawings and specifications ensuring quality and required standard;
- VII. Facilitate and support to check the material test schedules, records and confirm that it meets the requirement and verify the contractors proposed material, its sources, specification and

- ensuring the compliance with the specification in every aspect;
- VIII. Ensure and coordinate with ACIU and team to maintain all the records and reports including of test results carried out for quality monitoring of civil works as per programme requirements.

 Also facilitate and provide necessary support as required for payment of the completed works;
 - IX. Work with the project safeguard team to ensure compliance of project supported entrepreneurs on social and environmental issues;
 - X. Accomplish other task related to engineering/technical aspect as per need of the Programme assigned by the Project Coordinator.

F. Deliverables

- 1. Submission of the sub project wise engineering reports from cost estimate preparation to final payment recommendation.
- 2. Submission of monthly, half yearly and annual reports.

G. Qualifications and Experience

The desired candidate shall have the following:

- I. Master's degree in Civil Engineering with at least one year of professional experience in designing, construction supervision & monitoring of civil engineering works in particular market-led infrastructures and rural roads; or Bachelor's Degree in above mentioned subject with at least three years of experience in above mentioned fields.
- Capability in developing infrastructures section criteria and quality assurance and quality control guidelines and procedures during construction and completion;
- III. Proven record in preparing bidding document to procure these works including tendering, evaluation and contracting and supervision and monitoring for quality assurance as per the provided design, structural arrangements and testing requirements;
- IV. Sound knowledge in designing drawings in Auto CAD format, Bill of quantities in Excel and reports and specifications in Word;
- Experiences that demonstrate high quality attributes on leadership, facilitations and coaching and innovativeness;
- VI. Ability to work in a multi-disciplinary team and facilitate the working of other team members;
- VII. Excellent communications skills spoken and written, both in English and Nepali and possess good report writing skills;
- VIII. Good inter-personal skills and capacity to work effectively with a range of institutions.
 - IX. Creative and pragmatic approach to problem solving, well-organised and well oriented to details.
 - X. Any experience of working with donor funded projects such as ADB, IFAD, or WB or any financing institutions could be an added advantage.
 - XI. Excellent interpersonal, communication, negotiation, organizational management, and writing skills in English.

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XII. Ability to use the latest ICT technology and computer software programs.

H. Reporting

The position holder will work as Civil Engineer for the Modernizing Rani Jamara Kularia Irrigation Project (MRJKIP) reporting to the Project Coordinator.

- The consultant shall submit to the report and documents in hard and soft copy as required. The
 consultant shall submit the report and documents as desired by the Project Coordinator.
- Any other reports as may be required from time to time.

I. Duration and duty Station

This is for 110 working days (from Feb 20, 2023 to July 2023) position in intermittent basis to be based in ACIU office, Tikapur Municipality, Kailali, Nepal.

J. Selection Method

The consultant shall be selected following Selection based on Individual Consultant (IND) method set forth in the World Bank Procurement Regulations for IPF Borrowers, November 2020 on the basis of consultant's qualification, experiences and capability to carry out the assignment

K. Benefits and Remuneration

Salary and Benefits:

- > Total remuneration of the Civil Engineer will be at the rate of NRs 4600 per working days and total sum of 506,000/ for 110 days in current fiscal year 2079/80 BS. Tax on the salary will be applicable as per the prevailing GON rules and regulation.
- Travel and DSA will be as per the prevailing GoN rule as applied for the gazetted class III officer while travelling out of the work station for official purpose for maximum 15 days.
- > Travel expenses will be need based maximum of NRs 22,000.00

Leave:

> This is intermittent service so that there will be no provision of leaves for the Consultant.

Age Limit:

The upper age limit for all the contracted positions at the last date of submission of application will be 55 years.