

## **Terms of Reference (TOR)**

### **Watershed Development Engineers (PS4)**

#### **Background**

The Smallholder Agribusiness and Resilience Project (SARP), a project jointly financed by the International Fund for Agricultural Development (IFAD) and Government of Sri Lanka, aims to build resilience and market participation of 40,000 rural households in the climate change affected districts of Anuradhapura, Vavuniya, Matale, Mannar, Puttalam and Kurunegala. This is pursued through capacity building for climate resilience and inclusive value chains, combined with investments for climate resilience and inclusive value chains including last mile infrastructure. The lead programme agency is the Ministry of Agriculture, which would be establish a dedicated project management unit (PMU) at central level and two regional hubs the implementation of SARP.

#### **Scope of work**

Under the overall guidance of the Project Director/Senior Project Engineer, the Watershed Development Engineer will take overall responsibility for the planning and implementation of the cascade/ sub-watershed infrastructure. In particular the expert (s) will:

- He/ She will support the PMU in planning agricultural water management and irrigation activities in the designated command areas
- He/She, together with the Senior Project Engineer, will check the designs of various interventions for agricultural water management, including irrigation management
- Organize and conduct training to project counterparts and Agriculture Instructors (AI)/ Agriculture Research and Production Assistant (ARPA), staff and the communities in the preparation of natural resource management plans.
- Participate in the Community Planning Process and prepare Terms of Partnership with the communities for agreed-upon measures and provide guidance on issues related to water resources development.
- Select sites, and design measures based on their technical feasibility and assess the inputs and materials needed for construction and rehabilitation.
- Liaise with World Food Programme (WFP) and apply their work norms for the construction of small-scale irrigation schemes using cash for work payment to beneficiaries.
- Appraise the feasibility of the water management schemes (technically, financially, and socially) and provide guidelines on the preparation of contracts.
- Provide technical guidance and organize trainings for AIs, service providers, and farmers in all aspects of irrigation and water harvesting activities.
- Appraise the feasibility of irrigation and water management schemes (technically, financially, and socially) and provide guidelines on the preparation of contracts.
- Identify and recommend the equipment necessary for the construction of irrigation and water harvesting schemes.
- Monitor the technical quality of implementation ensuring that technical specifications are correct to enable cash for work disbursements to be made consistent with the technical guidelines provided by the project.

- Train the communities on the Operation and Maintenance (O&M) of the developed infrastructure.
- Prepare reports on the physical impacts of various interventions on agricultural water management, including irrigation management
- Review the work performance of consultants, contractors, and other service providers related to the infrastructure, prepare monthly detailed reports, and submit them to the Senior Project Engineer
- Ensure adequate quality control and quality assurance of the surveying works and construction works.
- Maintain an up-to-date record of the infrastructure activities, indicating clearly the planned vs the actual status of the progress of all the civil infrastructure-related activities
- Carry out post-review of completed works, indicating the performance considering the utilization of key parameters - manpower, machinery, and materials
- Prepare periodic physical and financial infrastructure works progress reports, including a list of critical issues related to the progress of the works and feasible solutions, and submit them to the Senior Project Engineer
- Prepare and analyze the progress report vis a vis agricultural water management, and submit reports to the PMU.
- Undertake any other duties as requested by the Project Director and Senior Project Engineer.

**Qualifications and experience:**

<b>Area of qualification / experience</b>	<b>Expected level of qualification / experience</b>
Education Qualification	Bachelor's Degree preferably in Civil Engineering, Structural Engineering or any other relevant field which is recognized by the University Grants Commission of Sri Lanka A Postgraduate Degree in Water Resource Management or other the relevant field
<b>Working experience:</b>	At least 5 years post-qualifying experience working on water resources management projects  Conversant with the design and execution of hydraulic structures such as embankments, spillways, sluices and channels and micro irrigation systems  Conversant with irrigation management and command area development  Technical skills and experience in irrigation and water management

	Proven background in training and skills transfer preferably within a rural development context.
Other qualifications and experience	<ul style="list-style-type: none"> <li>• Computer literate</li> <li>• Strong inter-personal skills</li> <li>• Strong analytical skills</li> <li>• Fluency in English and Sinhala and preferably Tamil</li> </ul>

### **Duty station and location**

Assigned District Hub Offices (Anuradhapura/Kurunegala) with frequent travel to the project sites. Having a valid motorcycle riding license is added advantage.

Duration of services – 24person months. Initially, the contract will be assigned for a period of twelve (12) months and its extension will be based upon performance evaluation.