

**Government of Karnataka  
Water Resources Department  
Advanced Centre for Integrated Water Resources Management  
(ACIWRM)  
#1/1, 1<sup>st</sup> Floor, KSFC Bhavan, Thimmaiah Road,  
Bengaluru-560 052 Karnataka**

No. ACIWRM/EOIs/11(C)/2017-18

Date: 07/02/2018

## **EXPRESSION OF INTEREST**

Government of Karnataka, Advanced Centre for Integrated Water Resources Management (Water Resources Department) with Asian Development Bank assistance invites Expression of Interest (5<sup>th</sup> Call) from reputed national consultants for the post of **Hydrology & Irrigation system expert** with deep understanding in the field they are interested to apply for the post for implementing IWRM activities in Karnataka.

### **The Terms of Reference, Job description & Minimum Qualification requirements for Hydrology and Irrigation Systems Expert**

#### Job Description

This position is responsible for providing hydrology inputs for the KISWRMIP. It will undertake assessment and upgrading of hydrological monitoring in project river basins, modeling and assessment of water balances at river basin and irrigation system scales, monitoring and reporting water use by sectors. It will support development of the strategy for IWRM and the water resource information system design, river basin planning and management, irrigation system modernization and telemetry, and the capacity building program of engineers etc. It will contribute to training programs for various stakeholders and network with academic and research institutes to promote research and adopt international best practice. The position will support the Director and the management for compliance with organization norms and policies and development of the ACIWRM organization.

## Terms of Reference

Under the supervision of the Director ACIWRM, Hydrology and Irrigation Systems Expert at ACIWRM, the incumbent will:

- Contribute to identification of surface water priority issues in Karnataka state
- Provide strategic direction for hydrology and hydrological assessment and monitoring. review the existing surface water data collection network in WRDO and advise on rationalization
- Assess the hydrological monitoring network in priority river basins and its upgrading and linkage to the State water resource information system to support river basin management and IWRM
- Assist with river basin and other hydrological modeling to support river basin planning and management; as well as irrigation system planning, management and modernization
- Provide advice, and to keep address of national and international developments to support the modernization of irrigation systems, particularly regarding the monitoring. Regulation and telemetry of canal flows and measurement of deliveries to water users.
- Support the benchmarking of irrigation projects from a hydrological perspective
- Compute water balances for irrigation commands and sub-basins; analyze sectoral water demand data for various scenarios in commands/sub-basin and forecast future demand
- Provide leadership to high level technical assessment and analysis programs; conceptualize, design and implement hydrological sub-projects in the state
- Contribute to the formulation of hydrological policies and support their implementation
- Provide inputs into the design of the state water resources information system and in water resource modeling process
- Assisting the management for compliance with organization norms and policies and development of the ACIWRM organization.
- Promote and facilitate the involvement of other research and educational institutions to conduct research, undertake studies, pursue international best practice and provide training to stakeholders, so as to support the efforts of ACIWRM
- Ensure that the relevant aspects of the ADB-GOK agreements are delivered on time and with good quality
- Supervise staff and short term contractors and collaborate with international specialists
- Participate in a multi-disciplinary, innovative and enthusiastic team.

Minimum Qualification Requirements:

- Post Graduate qualifications in Water Resources Engineering and preferably a Ph.D. in Hydrology with specialization in surface water hydrology, hydrological monitoring systems, surface water hydrology and Hydraulic Engineering.
- Proven working experience of minimum seven years in hydrology & related works/activities and minimum one year working experience in hydrology programs such as Hydrology Project-I & II etc. Experience in the water resources management sector and hydrological monitoring is essential.

Extensive knowledge and preferably experience in:

- hydrological techniques, analysis, investigation and applications
- hydrological databases and water resources modeling and analysis or strong aptitude for this.
- irrigation systems modernization and the automation of canal regulation and flow measurement and telemetry,
- Adequate knowledge of catchment or river processes.
- Strong communication, interpersonal skills, MS Office proficiency, presentation techniques with experience and aptitude for project management
- Strong analytical and report writing skills are required.
- Ability and willingness to participate in a multi-disciplinary, innovative and enthusiastic team.
- Knowledge of Kannada language will be an asset.
- Good English language skills
- Computer skills.

Interested consultants will need to register on the e-procurement platform (Government of Karnataka) to apply. The Expression of Interest (Proposal) with all relevant documents shall be submitted electronically at **www.eproc.karnataka.gov.in**. The closing date for uploading EOI/proposal is 4.00 PM on 3<sup>rd</sup> March 2018.

Any clarification can be sought at [registrar@aciwrm.org](mailto:registrar@aciwrm.org).

Registrar & Superintending Engineer  
ACIWRM Bengaluru