

REQUEST FOR EXPRESSIONS OF INTEREST (REOI)
Flash Flood Expert(FFE)
(INTERNATIONAL CONSULTANT)

Introduction

The EN Flood Protection and Early Warning Project (FPEW) has been one of the earliest successful IDEN Projects. The Project aims to reduce human suffering caused by frequent flooding, while preserving the environmental benefits of floods. The project emphasis on enhancing regional collaboration and national capacity in flood risk management, including flood mitigation, forecasting, early warning systems, emergency preparedness, and response. The FPEW project that ran until 2010 operated in Egypt, Ethiopia, and Sudan.

After the completion of FPEW project ENTRO initiated with Eastern Nile countries and created a regional Flood Forecast and Early Warning (FFEW) system under the Eastern Nile Planning Model project (ENPM) and the FFEW activity continued under the current Nile Cooperation for Result project (NCORE). The FFEW, since its establishment, has been an important part of ENTRO's activity that continuously been conducted for the last seven flood seasons (June – September). The FFEW has helped the Eastern Nile countries in reducing the loss of life and money by preparing flood forecast bulletins for the Lake Tana (Blue Nile -Ethiopia), the Blue Nile-Main Nile (Sudan) and Baro-Akobo-Sobat(BAS) sub-basins flood prone areas. The FFEW activity have strengthened national offices in terms of capacity and overall reduced the risk of flood devastation for 2.2 million people in the region.

The current FFEWS has gaps on the coverage of the basin, inefficiency and needs enhancement to use most updated and robust system. It is with this objective ENTRO apply and secured a funding from the World Bank by the Cooperation in International Waters in Africa (CIWA) trust fund, and intends to apply to enhance the current FFEW with different aspects. Part of this to have a FFEW system which can address flash floods since the current system covers only riverine flooding for selected flood prone areas. While evidence shows significant portion of the Eastern Nile basin is frequently affected by flash floods. Flooding events in 1998, 2006, 2010, 2013 and 2014 in different parts of the basin has shown as urbanising grows many more areas in the basin are expected to be affected by more frequent flash floods. Therefore is necessary to start assessing the vulnerable areas for flash flood and develop a strategies to implement a system that mitigate flash flood threat.

ENTRO intends to employ the services of an individual consultant to conduct an assessment study on flash flooding and to development of the conceptual design of flash forecast system.

Key Activities

- Review flash flood event in the Eastern Nile basin
- Carry out a study on “Addressing Flash flood in Eastern Nile Basin” with among other activities to
- Classify types of floods
- Map out sub catchments with frequents flash floods occurrence
- Assess the current hydro-meteorological infrastructure in these sub catchments and any existing early warning systems
- Assess current practice to mitigate flash floods
- Review both regional and international methods in addressing flash flood with proper forecast and early warning system
- Develop a guideline to ensure up to date methodology that can be adopted with for Eastern Nile basin to address flash flood of different types. The guideline shall include a detail terms of reference for the development of Flash flood forecast and early warning system for Eastern Nile basin
- Throughout the study a continuous capacity building activity are going to be given to ENTRO staff with all facilities and cost related to venue and participant covered by ENTRO.
- Participate in at least two validation and consultation workshops

Qualification and Experience

- At least Master degree in civil engineering/water, resources engineering, hydrology, hydraulic engineering, hydro-informatics or closely related fields
- At least 10 years' experience in flash flood forecast related assignments
- Experience in modeling flash flood
- Experience in flood management and disaster early warning activities
- Experience in using GIS and hydrologic forecast systems
- Very good command of written and spoken English

Level of Effort

The flash flood study consultants shall provide a total of 30 staff days over a period of three months. The Consultant shall work from his/her home venue with travels to the ENTRO as required. During this period the consultant may undertake at least one trips to ENTRO's offices located in Addis Ababa, Ethiopia.

How to apply

Interested applicants are advised to submit applications electronically to the Executive Director and procurement office through entro@nilebasin.org and copy to gabdi@nilebasin.org, amersha@nilebasin.org. Application/cover letter indicating the title of the assignment accompanied by detailed curriculum vitae should reach the Executive Director not later than 12:00 pm (Local Time in Addis Ababa, Ethiopia) July 1st, 2019. Please clearly indicate a minimum of three referees and two former employers excluding the current employer with their full contacts. Female candidates are strongly encouraged to apply.

Details of the Job Description can be accessed on the **TOR**

Further information can be obtained at the address below during office hours: Monday to Friday, 08:30 to 12:30 and from 13:30 to 17:30 Hours.

Eastern Nile Technical Regional Office (ENTRO)

Attn: Executive Director

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