

GOVERNMENT OF JAMMU & KASHMIR
OFFICE OF THE EXECUTIVE ENGINEER,
IRRIGATION AND FLOOD CONTROL DIVISION SRINAGAR KASHMIR
(NEAR PCR BATAMALO SRINAGAR KASHMIR PIN 190010)

ENIT No: - 16 of 2016-17

REQUEST FOR EXPRESSION OF INTEREST For
Development of Database, Website and Mobile Application:-

For and on behalf of Governor of J&K State Executive Engineer, Irrigation and Flood Control Division, Srinagar, invites eligible Consultants to express their interest in providing the Consultancy Services for the development of website and mobile application (Android and IOS platform) for flood forecasting and flood early warning system to keep the general public informed of the change in water level in River Jhelum and its tributaries.

The detailed document of “Expression of Interest” is available on the web site “jktenders.gov.in” and can be downloaded from it.

Expression of Interest with all relevant information and documents must be uploaded online on e-procurement web site “jktenders.gov.in” and subscribed as “**Expression of Interest for the Consultancy Services for Development of Database, Website and Mobile Application**” by not later than 17:00 hours (IST) on **27-02-2017**. Besides, the hard copy in a closed envelope containing all relevant documents /information can be submitted / delivered to the address mentioned below by not later than **28-02-2017** up to 16:00 hours (IST), which however is mandatory. In the event, if this last date being declared as holiday by the State Government, due date for submission of above EoI will be the next working day up till the same time. The consultant should have company profile and experience in similar job. A meeting of the participants will be held within 10 days after the submission of **Expression Of Interest**. The venue and date and time will be conveyed later on through E-mail.

Website and Mobile Application requirements

1. Interface should be informative and simple to understand.
2. The I&FC Department has about 140 Gauge and discharge sites at different locations spread throughout the Kashmir valley, and at most of them gauge reading are recorded manually. The developer needs to create a database of all the sites wherein the gauge readings will be entered by a gauge reader at a site and same need to be reflected on the main interface, and locations of gauge sites need to be displayed on Google Map. All the readings entered must be archived on the main server of I&FC Department, with the option of easy retrieval (in excel etc formats). This part of the project will remain for official purposes only. *(The frequency of gauge readings varies from three readings a day to 24 readings a day).*
3. About 30 sites will be displayed to the general public for Flood Early Warning System. The I&FC department has already installed 05 Automatic Water Level Recorders (AWLR), and the department plans to install 06 AWLR and 09 Automatic Rain Gauge Recorders (ARGR) in coming months. The Website/Mobile Application should automatically update the readings from AWLR, ARGR and corresponding locations of gauge sites need also to be displayed on Google Map. *(The gauge readings are recorded hourly but it can be reduced to 15 minutes interval during floods).*

4. The gauge sites displayed to the public (30 sites) should have an archive of one year data.
5. Important advisories/warnings issued by the department need to be incorporated (with an archive).
6. It should include a module displaying the graph between gauge reading and time for a gauge site.
7. It should include a module with real-time information from the Doppler radar data and INSAT images from Indian Meteorological Department (IMD) website.
8. It should include a module where people can report problems and should be connected to the general map (Google Map), and it should be displayed in real time.
9. It should include a module to send alert to the people via Sms, E-mail, Whatsapp etc.
10. It should include all the description of I&FC Department.
11. A map with most vulnerable areas (based on the flood in 2014) should be highlighted and according to it any Mobile user should be given a threat assessment with respect to his GPS location on the vulnerability map.
12. The Mobile application should have push notification option.

For any quarries/assistance contact – 0194-2311834; info@ifckashmir.com.

Reference websites/Mobile Applications –

1. *www.floodwarning.sfcjpa.org*
2. *www.rtsfros.com/rtdas/KrishnaRiver.aspx*
3. *www.ifckashmir.com*
4. *www.fb.com/ifckashmir*
5. *www.imd.gov.in*
6. *IFC Kashmir Flood Alert (Android App)*
7. *Flood Alert Live England Wales (Android App)*

No. I&FCD/SGR/CC/6495- 6509

Dated:-7/2/2017

s/d

**Er. S Sartaj Singh
Executive Engineer**

**Irrigation& Flood Control Division
Srinagar**

Copy to the:-

1. Chief Engineer Kmr. Irrigation and Flood Control Department, Srinagar for information. This is with reference to his letter No.11022-23, Dt:-21-1-2017
2. Superintending Engineer Hydraulic Circle Srinagar for information.
3. Director Information Department, Srinagar for information. He is requested to get the NIT published in two leading dailies before its due date
4. Assistant Executive Engineer P&D Sub Division, Srinagar for information.
- 7-9. H.D/ H.A /A.A.O/ Divisional office for information.
10. Notice Board.

