

# **TERMS OF REFERENCE (TOR) FOR HIRING OF GEO- HYDROLOGY EXPERT UNDER SPRING AND RIVER REJUVENATION AUTHORITY (SARRA) UTTARAKHAND**

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## **BACKGROUND**

In the light of the conditions becoming increasingly difficult day by day for local life due to global climate change and man-made factors and continuously drying up water sources in the state of Uttarakhand in the last few decades, there is a need to identify the natural water sources and rainfed rivers of the state using scientific methods and achieve the goal of revitalization of rivers and continuous flow in water sources by treating them in a phased manner through various soil and moisture conservation interventions like- check dams, contour trenches, recharge pits etc.

To achieve this, the interventions of various line departments needs to be integrated. In view of the, after due consideration, the government has decided to establish Spring and River Rejuvenation Authority (SARRA) under the Watershed Management Directorate.

It will be the Nodal authority of the State for capacity development of various line departments, Institutes, N.G.O of the State and Watershed Department for Scientific planning, implementation & financing and monitoring & evaluation of Spring and River Rejuvenation programmes in the State of Uttarakhand.

## **DESCRIPTION**

The purpose of establishment of Spring and River Rejuvenation Authority (SARRA) at State level is to identify all the water sources of the state which need to be rejuvenated on priority to ensure increase in water discharge and perennially of the spring and rainfed rivers. measurement and monitoring by ensuring community participation of local people for sustainable flow of rain-fed rivers etc.

## **COMPONENTS**

The work to be performed by the mentioned authority (SARRA) will mainly be as follows:

- a) Assessment
- b) Planning and Financing
- c) Implementation
- d) Monitoring & Evaluation
- e) Capacity Development

## **NEED FOR CONSULTANCY SUPPORT**

The key objective of the proposed consultancy is to assess the impact of springshed development initiatives mainly sustainability of the existing water sources, recharging, rejuvenating of water sources and benefits to the community for domestic and farming purposes including improvement in soil and moisture regime in the selected springsheds and rivers.

## **SCOPE OF WORK**

- Develop baseline information of water sources and water harvesting structure in the State of Uttarakhand to establish water conservation, water harvesting and water use baseline and coordination with technical staff and institutions.
- Help creating a baseline figure of streams, rainfed rivers and springs on the base flow and undertake pre and post monsoon monitoring of the discharge rate and coordination with different State/ National level Institutions/ Department.
- Provide technical input for meeting the SARRA objectives.
- Coordination and evaluation of various reports.
- Progressive impact assessment of available water resources and water harvesting structures develop by the authority.
- Progressive assessment of the impacts of Rainfed Rivers and Springshed development initiatives for rejuvenating water resources.

## **ESSENTIAL QUALIFICATIONS**

### **Professional profile**

The candidate should have-

- a) Postgraduate or equivalent degree in Hydrology/Geo-Hydrology/Geology or relevant subjects from Government of India approved and Recognized UGC university.
- b) He /She should have at least 10 years working experience in relevant field and adequate knowledge of report writing and computer operations.

### **Preferable**

- Priority for Field experience in Springshed Management and River rejuvenation and knowledge of Hydrology.

### **JOB PROFILE**

- To assist for developing State level protocol for Springshed Management and River Rejuvenation.
- Geo-hydrology assessment of different Springshed and River Rejuvenation work plans.
- Mapping of Springs, Streams and Rainfed Rivers.
- Given technical support to districts level.
- To assist in preparing the State ATLAS of Spring and Rivers.
- Give technical support for developing different IT/ Web based Application for planning, implementation and Monitoring & Evaluation for the above works.

## **TERM AND CONDITION**

- Candidates Services should not have been terminated by any organization due to non-performance.
- Service related term and condition will be disclosed at the time of contract.

## **REPORTING**

The Expert shall submit to the SARRA headquarter/WMD report and documents as specified above 'Job profile' within the set period. The reports should be submitted in Hard and Soft copy as desired by the project authorities.

Any other reports as may be required on issues evolving from time to time.

## **WORK STATION**

The Expert would be based in the SARRA headquarter/Watershed Management Directorate, Dehradun and would make field visits to all project areas as per requirement and instructed by SARRA.

## **DURATION OF ASSIGNMENT**

Initially the assignment would be for 11 months, on full time basis which may be extended, subject to satisfactory performance report from concern authority and mutual consent of the SARRA authorities and the individual Expert.

## **OWNERSHIP**

SARRA headquarter/Watershed Management Directorate of Uttarakhand will have ownership of all the documents and material developed. The Expert will have no right of claim to the products developed and shall not replicate them without prior consent of WMD.

## **REVIEW COMMITTEE TO MONITOR THE EXPERT PERFORMANCE**

A review committee constituted of members selected by SARRA headquarter/WMD would monitor and review the performance, quality and impact of the activities undertaken by the Expert. The members of the review committee will be as under:

- a) Additional Chief Executive Officer SARRA
- b) Chief Finance Officer, SARRA Headquarter/WMD
- c) Deputy Director, SARRA Headquarter/WMD
- d) Deputy Director, Administrative, WMD
- e) Deputy Director, Planning, WMD

## **INPUTS TO BE PROVIDED BY THE SARRA HEADQUARTER/WMD**

The Expert would be provided all the necessary relevant documents and manuals etc. by SARRA headquarter/WMD.

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