

**TERMS OF REFERENCE (TOR) FOR HIRING OF GIS EXPERT  
UNDER DISTRICT SARRA CENTRE OF  
SPRING AND RIVER REJUVENATION AUTHORITY (SARRA) UTTARAKHAND**

---

**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 District SARRA Center of Spring and River Rejuvenation Authority (SARRA) is to identify all the water sources of the District which need to be rejuvenated to ensure increase in water discharge and flow of the spring and Rainfed Rivers. District SARRA Centers will coordinate between different PIAs for the said purpose and help them for planning, implementation and monitoring for sustainability of water resources, in guidance of SARRA.

**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**

- Short listing of work sites (using RS/GIS) based on different parameters finalized by the project management.
- Planning, implementation and progress of Workplan and Masterplan activities through various RS and GIS tools.
- Prepare thematic maps based on remote sensing satellite data by image processing techniques of Springs and Rivers of district and accordingly provide technical guidance and help to different district level organizations/PIAs.
- Coordinate with SARRA H.Q. for applying RS-GIS tools into various thematic areas of land resource assessment, climate change studies, meteorological observations, etc., or any other institutes/departments for the collection and compilation of various geospatial data and non-spatial data related to the result framework and to fulfill the needs of the project.

## **ESSENTIAL QUALIFICATIONS**

### **Professional profile**

The candidate should have-

- a) Post Graduate in Geo-informatics/Remote sensing/Geospatial Technologies or Relevant field.
- b) He/She should have at least 05 years working experience in relevant field.

### **Preferable**

- a) Relevant trainings in the Application of RS/GIS in development Projects.
- b) Relevant trainings in the Application of RS/GIS in Springs and River Rejuvenation Projects.

## **JOB PROFILE**

- To assist in developing ICT tools for SARRA.
- To assist different district departments/PIAs to prepare rejuvenation plan of different water sources.
- To prepare periodical reports on Workplan and Masterplan activities on GIS platform.
- Monitoring of project activities captured through ICT tools/dashboard.
- Mapping of Springs, Streams and Rainfed Rivers.
- To provide periodic (quarterly, bi-annual and annual) quantitative and qualitative reports for monitoring & evaluation.
- Support in preparation of capacity development training modules and provide training on the field, on the use of RS/GIS/ICT tools for monitoring and implementation of different activities at district.
- Other duties to be performed as per requirement of District SARRA Center and SARRA Headquarter.
- To prepare and develop different type of ICT tools/ web/mobile based application for Planning, Implementation and Monitoring & Evaluation purpose.
- Any other work assigned by competent authority.

## **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.

## **REMUNERATION**

- Rs. 50,000 per month fixed.

## **REPORTING**

The Expert shall submit the report and documents to District SARRA Centre as Haridwar specified above 'Job profile' with in the defined period. The reports should be submitted in Hard and Softcopy as desired by the project authorities at district and State level.

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

## **WORKSTATION**

The Expert would be based in any of the District SARRA Centre, Haridwar and would make field visits to all project areas as per requirement and instructed by District SARRA Center and State HQ.

## **DURATION OF ASSIGNMENT**

Initially the assignment would be for 11 months, on fulltime 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**

District SARRA Centre and 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 District SARRA Centre and SARRA HQ.

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

A review committee constituted of members selected by District SARRA Centre would monitor and review the performance, quality and impact of the activities undertaken by the Expert.

## **INPUTS TO BE PROVIDED BY THE DISTRICT SARRA CENTRE**

The Expert would be provided all the necessary relevant documents and manuals etc. by District SARRA Centre/ SARRA HQ.

-----