

**TERMS OF REFERENCE (TOR) FOR HIRING OF GIS/RS EXPERT
UNDER 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 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

- 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 Srings and Rivers of Utrakhand and facilitate district official as and when required.
- Coordinate with institutes applying RS-GIS tools into various thematic areas of land resource assessment, climate change studies, meteorological observations, etc. like NRSC, USAC, GBPNIHE, IIT, NIH, IIRS, IISWC, CGWB, CWC and ITDA institutes, 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-

B.E./B.Tech with Specialization in Geo Informatics/Master in Computer Application (MCA) with more than 05 years of working experience in GIS/RS.

or

M.Sc. with Post Graduate Diploma in Computer Application/RS & GIS with more than 10 years of working experience in GIS/RS.

or

B.Sc. with Post Graduate Diploma in Computer Application/RS & GIS with more than 15 years of working experience in GIS/RS respectively.

Preferable

- Relevant trainings in the Application of RS/GIS in development projects.

JOB PROFILE

- To assist in developing ICT tools for SARRA.
- To prepare periodical reports on Workplan and Masterplan activities on GIS platform.
- Monitoring of project activities captured through ICT tools/dashboard.
- 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 to SARRA HQ and district officials.
- Other duties to be performed as per requirement of SARRA Headquarter/WMD.
- To prepare and develop different type of ICT tools/ web/mobile based application for Planning, Implementation and Monitoring & Evaluation purpose.

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.
