

**STATE REMOTE SENSING APPLICATION CENTRE
GOVERNMENT OF ARUNACHAL PRADESH
ITANAGAR**

No. SRSAC/691/2022-23

Dated the Itanagar, 30th Sept, 2022

Limited Tender Quotation

State Remote Sensing Application Centre (SRSAC), Itanagar invites limited tender quotation from reputed, established and reliable System Integrators (SI) empanelled with SRSAC in connection with the “Add-on Module Phase – II on Satellite Monitoring of Geo-tagging projects in Arunachal Pradesh” under SRSAC, Govt. of Arunachal Pradesh.

Eligibility criteria are mentioned in the Tender document.

For collection of Tender document on payment of ₹ 1,000/- and any further information may contact:

Joint Director cum Nodal Officer (State Plan)

The deadline for submission of the RFP bid is on or before 17th Sept, 2022 at 14.00 hrs.

Sd/-
Chairman
AP State Council for Science & Technology
Government of Arunachal Pradesh
Itanagar

Memo No. SRSAC/691/2022-23

Dated the Itanagar, 7th Oct, 2022

Copy to:

1. PA to Chairman, APSCS&T, Govt. of AP, Itanagar for kind information please.
2. The Director, SRSAC, Govt of Arunachal Pradesh, for information please.
3. Er. Timothy Nima, TO, SRSAC, for upload in the website and necessary information please.
4. Office copy.
5. Guard file.



Joint Director cum Nodal Officer (State Plan)
State Remote Sensing Application Centre
Government of Arunachal Pradesh
Itanagar

“Add-on Module Phase - II on Satellite Monitoring of Geo-tagging projects in Arunachal Pradesh”

Limited Tender Quotation

For

Selection of a Solution Provider (SP) from the empanelled list of SRSAC

“Add-on Module Phase - II on Satellite Monitoring of Geo-tagging projects in Arunachal Pradesh”

(The quotes have to be submitted on or before 17-10-2022 at 14.00 hrs.)

Tender Document No:- SRSAC/691/2022-23

Dated: 07/10/2022



State Remote Sensing Application Centre,
Government of Arunachal Pradesh
Daying Ering Colony, ESS-Sector
Itanagar - 791111,
Arunachal Pradesh

“Add-on Module Phase - II on Satellite Monitoring of Geo-tagging projects in Arunachal Pradesh”

Disclaimer:

All information contained in this Tender Document is in faith. This is not an agreement and is not an offer or invitation to enter into an agreement of any kind with any party. Though adequate care has been taken in the preparation of this TENDER Document, the interested firms shall satisfy itself that the document is complete in all respects. The information is not intended to be exhaustive. Interested firms are required to make their own enquiries and assumptions wherever required.

State Remote Sensing Applications Centre (SRSAC) reserves the right to reject any or all of the proposals submitted in response to this Tender Document at any stage without assigning any reasons whatsoever. SRSAC also reserves the right to withhold or withdraw the process at any stage with intimation to all who submitted the Tender Document response. SRSAC reserves the right to change/modify/amend any or all of the provisions of this Tender Document. Prospective bidders (firms) are requested to visit the website frequently to keep them abreast with the latest developments on this Tender.

Neither SRSAC nor its employees and associates will have any liability to any prospective respondent interested to apply or any other person under the law of contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this Tender Document, any matter deemed to form part of this Tender Document, the award of the Assignment, the information and any other information supplied by or on behalf of SRSAC or their employees and firm/ consortium or otherwise arising in any way from the selection process for the Assignment.

Information provided in this document or imparted to any respondent as part of the Tender Document process is confidential to SRSAC and shall not be used by the respondent for any other purpose, distributed to, or shared with any other person or organization.



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Schedule of Events

Sl. No	Information	Dates & Details
1.	Notifying the document on SRSAC Notice Boards / shared with the shortlisted empanelled Vendors through Email.	Within 07-10-2022
2.	Cost of Tender Document (Non-refundable)	Rs.1000/- in form of DD /from any nationalized Bank in favor of the Joint Director, SRSAC, Itanagar.
3.	Earnest Money Deposit (EMD)	EMD, only in the form of a Bank Draft, of any Nationalized Bank, for Rs. 50,000/- (Rupees Fifty Thousand only), for the Bid of “Add-on Module Phase – II on Satellite Monitoring of Geo-tagging projects in Arunachal Pradesh” in favor of Joint Director cum Nodal Officer (State Plan), SRSAC, Itanagar, Arunachal Pradesh , valid for 180 days from the date of opening of the technical bid.
4.	Address for Submission of Bid	State Remote Sensing Application Centre, Government of Arunachal Pradesh, Daying Ering Colony, ESS-Sector, Itanagar - 791111, Arunachal Pradesh
5.	Last date of receipt of Bids	17-10-2022, 02-00 P.M
6.	Opening of Technical Bids, Financial Bids & Declaration of Bidding Results	17-10-2022, 03.30 P.M onwards



“Add-on Module Phase – II on Satellite Monitoring of Geo-tagging projects in Arunachal Pradesh”

Executive Summary:

The concept of “Satellite Based Monitoring and Geotagging of developmental projects” was initially aimed at monitoring of developmental projects happening on the project sites in Arunachal Pradesh through comparison of different dates of high-resolution satellite imageries in dashboard. It was also decided to gather information from the field using mobile apps by capturing the geo-ordinates of site location as well as to assess the actual physical presence of infrastructures in proportion to amount sanctioned under a particular project to find out gap between the funding pattern and development of projects on ground.

This platform also acts as an interface between the State Government and Citizens to view any geotagged photos, near specific location, providing project status information both in terms of physical and financial achievements.

Thus, a noble attempt towards experiment of the Information Technology based Geographical Information System (GIS) platform to monitor the developmental activities in this toughest hilly terrain part of Indian states by the Planners and the Executives. This project has earned many accolades from geospatial experts for its effectiveness in monitoring the physical infrastructures and real time data for informed decision making and planning of resources by the planners.

In the 3rd (Third) version of mobile application development, it is proposed to enhance the capability of capturing of data through mobile application so that field mapping becomes much easier and more readily available to field staffs for capturing information on railway track, power transmissions, road network, farmland, agricultural land, waste land, forest plantation area, built up area etc and so forth. It is believed that with additional features like polyline, point and polygon in GIS platform will help their workflow, accuracy and quality of data, which can help to achieve better and more accurate data from the ground.



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In the current version of the mobile application, it supports the data collection by placing point marker on the area of interest. This new version will have functionalities content of drawing polygon, polyline and points vector layer to map the assets and areas in a friendly environment of contents visible and easy to recognise by the end users in both devices of mobile and desktop. Version 3 will also have Project Proposal Module for better segregation of proposed, ongoing and completed projects. This way, it will help to overcome the redundancy in data collection & give more transparency to the monitoring system.

SCOPE OF WORK:

The project scope is to upgrade the existing features to provide better ways to manage the current monitoring activity. Current version of the geotagging mobile application supports the data collection by placing point marker on the area of interest. The requirement is to develop an additional GIS features like polyline, points & polygon for data capturing in GIS framework to gather, manage and analyse the spatial locations and stacking layers of information for map visualizations in mobile and desktop devices and a Project Proposal Module for better segregation of proposed, ongoing and completed projects.

The following add-on modules developments are to be implemented within the Geo-Tagging application:

- 1. Development of Arunachal Monitoring System Analytics Module**
- 2. Line and Polygon Feature Geo-tagging for Mobile Application**
- 3. Development of Project Proposal Module**

Based on the experience of using the system for 3 (three) years necessary was felt for a Module to accept or reject proposed project where Department of Planning can approve or reject a proposed project based on its feasibility. As every year numbers of projects are proposed but not every project is sanctioned or approved.



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The current system relays all geotagged project directly to Dashboard and the proposed Project Proposal Module will let only the approved or sanctioned project to Dashboard and rejected projects shall remain in Project Proposal Module.

Project Proposal Module shall also be enabled for Department Level User so to track which projects has been approved and which not.

Project Proposal Module will help Mobile App Users to select Project Proposal and Sanctioned Project before geo-tagging enabling Web-Portal to segregate Project Proposal and sanctioned Projects and keeping records of those Project Proposal which are accepted and sanctioned by the Government and the rejected project proposals. Thus, helping the decision makers keeping track of project proposals and sanctioned projects for better planning and analysis.

4. Notification/Alert Messaging Module

A feature to send SMS to every registered Field Officers or email to every users based to selected Department or all shall be developed to send them important notification or messages related to projects, system updates or any other information.

5. Miscellaneous updates/changes/new features in Mobile Application

6. Miscellaneous updates/changes/new feature in Web-Dashboard

Following are the miscellaneous updates/features requested by various executing departments to be added in Web-Portal:

DASHBOARD:

1. Search Geo-tagged Projects by Field Officer Name, Mobile Number and Email ID (For Admin Only)
2. Search projects by Filter – Number of Visits (1,2,3,4 & >4)

USER REGISTRATION MODULE:

1. Edit Name, Mobile Number and Email ID option for ADMIN Panel to update user's contact details on their request under APPLICATION USERTAB.



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MIS MODULE

1. Structure Type Filter option is required.
2. Username Filter option is required to filter the MIS entered by a particular MIS user. (For Admin Only)
3. Options to fill up utilized (spent) and unutilized (unspent) funds shall be provided in MIS module.
4. Option to Add and Delete Department
5. Option to Add and Delete Source of Funding

DEPOSIT WORK MODULE

A module for viewing the progress of Deposit work by the beneficiary department is required.

HELP MODULE

Feedback Option in Web-portal needs to be integrated along with the User Registration Form in Downloadable format in Help Page section of web-portal.

- ❖ As the solution required is dynamic, most of the functionalities shall be discussed with the Solution Provider and developed.
- ❖ All the rights reserved by SRSAC and its decision shall be final.
- ❖ Jurisdiction shall be within Itanagar High Court, Itanagar, Arunachal Pradesh.

BID REJECTION CRITERIA

Besides other terms and conditions highlighted in the tender document, bids may be rejected under the following circumstances:

General Rejection Criteria

- a. Bids submitted without tender document fee.
- b. Financial bids of more than and less than 10% over and above the estimated cost of the project of approximately Rs 50.00 lacs, shall be considered as unreasonable and therefore, liable to be rejected forthwith.
- c. Bids submitted without or proper EMD
- d. Conditional bids are liable to be rejected.
- e. If the information provided by the bidder is found to be incorrect/misleading at any stage/time during the tendering process.



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- f. Any effort on the part of the bidder to influence the bid evaluation, bid comparison to contract award decisions
- g. Bids received by the SRSAC after the last date and time prescribed for receipt
- h. Bids without signature of the person (s) duly authorized on required pages of the bid
- i. Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the bidder

Technical/commercial rejection criteria

- a. Technical bid containing commercial details
- b. Revelation of financials in any form or by any reason before opening the commercial bid
- c. Failure to furnish all information required by the tender document on submission of the bid not substantially responsive to the tender document in every respect
- d. Solution Provider not quoting for the complete scope of the work as indicated in the tender documents, addendum if any and any subsequent information given to the Solution Provider
- e. Solution Provider not complying with technical and general terms and conditions as stated in the tender document
- f. The bidder not confirming unconditional acceptance of full responsibility of providing services in accordance with the scope of the work
- g. If the bid does not confirm to the timelines indicated in the bid
- h. Incomplete bid

Public Opening and Evaluation of Financial proposals:

After the technical evaluation is completed, the SRSAC shall inform the technically short listed SP(s) who have submitted proposals, the technical scores obtained by their technical proposals, and shall notify those SP(s) whose proposals did not meet the minimum qualifying mark or were considered non-responsive to the tender document and ToR, and their financial proposals will be returned unopened after completing the selection process.



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Financial proposals of only those firms who are technically qualified shall be opened publicly on the date and time specified in the presence of the SP/or their representatives who choose to attend. The financial proposal of the SP(s) who met the minimum qualifying mark will then be inspected to consider that they have remained sealed and unopened.

These financial proposals shall be then opened, and the total financials read aloud and recorded. The SRSAC shall prepare a record of the public opening of financial proposals. SPs should ensure that there are no arithmetic errors or over-writings in the financial proposals as otherwise the proposal shall be liable for rejection.

Short listing SP: The bidder who obtains 75% marks and above are to be treated as qualified for Financial Bid. Financial bids of only such qualified SP(s) will be opened.

Evaluation Process:

The financial bids shall be opened only for the Technically Qualified bidders. The date, time and venue of the opening of financial bids shall be as per the data sheet. The authorized representatives of the Technically Qualified bidders may be present during the financial bid opening process. The financial bids shall be scrutinized for their conformity to the specified formats and signatures. The financial bids not in specified format and/or not with signature of the authorized representatives shall be summarily rejected. The evaluation of the financial bids will be based on the combined Quality and Cost Based Selection (QCBS) Method. Scrutiny and evaluation of the financial bids shall be conducted as follows.

In the event of difference between the financial mentioned in figures and words, the financial in words shall be considered valid and binding.

Scores of the financial bid evaluation would be weighed on a scale of 20. The Bidder with the lowest Financial Quote shall be awarded 100 marks. The marks obtained by the bidders in the financial bid evaluation shall be considered as Financial Score (FS).



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The financial bid Score of the other Technically Qualified bidders shall be computed as per the following formula.

$$FS = 100 \times (P_{min} / P_b)$$

Where,

FS = Financial Bid Score for the bidder under consideration

P_{min} = minimum financial quoted by any bidder

P_b = financial quoted by the bidder under consideration

The Technical Score (TS) and the Financial Bid Score (FS) secured by each bidder shall be subjected to the Technical Weightage WT = 0.80 (the weight given to the technical bid); W_p = 0.20 (the weightage given to the financial bid). The combined score (S) for the bidder shall be computed as per the following formula.

$$S = (TS \times 0.8) + (FS \times 0.2)$$

The bidder securing the highest combined score (S) shall be considered as the successful bidder and considered for award of the contract.

Scrutiny and evaluation of Financial Bids shall be conducted based only on the following criteria:

- The Estimate Cost of this Work with Tax = Rs. XXXXXXXX (In Word-
- Only the Total Quoted financial in the bid inclusive tax, submitted by the bidders will be considered for evaluation as a principle of budgetary constraint.
- Abnormally low quotes below the estimated cost shall be treated as unviable from quality and feasibility considerations and shall be summarily rejected.

Negotiations

The SPs who is recommended for award of the contract will be called for both technical and financial negotiations, the details of which are outlined below:

Negotiations will be held at the date and address indicated. Representatives conducting negotiations on behalf of the SP must have written authority to negotiate and conclude a contract.



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Technical negotiations: Negotiations will include a discussion of the technical proposal, the proposed technical approach and methodology, work plan, and organization and staffing, and any suggestions made by the SP to improve the terms of reference. The SRSAC and the SP(s) will finalize the ToR, staffing schedule, work schedule, logistics, and reporting. These documents will then be incorporated in the Contract as description of services. Special attention will be paid to clearly defining the inputs and facilities required from the SRSAC to ensure satisfactory implementation of the assignment. The SRSAC shall prepare minutes of negotiations which will be signed by the representatives of both SRSAC and SP.

Financial negotiations: After the technical negotiations are over, financial negotiations should be carried out in order to reflect any change in financials due to change in scope of work or due to clarification on any aspect of the technical proposal during the technical negotiations. Under no circumstance, the financial negotiation shall result in to increase in the financial originally quoted by the SP.

If applicable, it is the responsibility of the SP, before starting financial negotiations, to contact the local tax authorities to determine the local tax amount to be paid by the SP under the contract. The financial negotiations will include a clarification (if any) of the SP’s tax liability, and the manner in which it will be reflected in the contract; and will reflect the agreed technical modifications in the cost of the services.

Availability of professional staff/experts: Having selected the SP on the basis of, among other things, an evaluation of proposed professional staff, the SRSAC expects to negotiate a contract on the basis of the professional staff named in the proposal. Before Contract negotiations, the SRSAC will require assurances that the professional staff will be actually available. The SRSAC will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or for reasons such as death or medical incapacity. If this is not the case and if it is established that professional staff were offered in the proposal without considering their availability, the SP may be disqualified. Any proposed substitute shall have equivalent or better qualifications and experience than the original candidate and be submitted by the SP within the period of time specified in the letter of invitation to negotiate.



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Award of contract and commencement of work

After completing the negotiation, the SRSAC shall issue a Letter of Acceptance/Intent, notifying the award of contract to the selected SP, who is L1, and promptly notify all other SP(s) who have submitted proposals about the final decision. After the Contract signature, the SRSAC shall return the unopened financial proposals to the unsuccessful SP(s).

After fulfilling all the formalities/ preconditions mentioned in the standard form of contract, the SP will sign a contract on a stamp paper worth 100/- within 15 days of issuance of the letter of acceptance. The project completion period is with respect to the date of signing of the contract.

Security Deposit: Within 15 days after receipt of the Letter of Acceptance/Intent, the successful SP will have to furnish along with the agreement a security deposit @ 3 % of the value of the Contract, in the form of a Bank Guarantee in DD on any Nationalized Bank (drawn in favour of Director, State Remote Sensing Application Centre, Govt. of Arunachal Pradesh) valid for 18 months from the date of letter of intent with a provision of its further extension/ revalidation up to the period of warranty of the total solution whichever is later.

The SP is expected to commence and complete the assignment/job at the location specified within 6 months after signing the contract.



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Eligibility Criteria:

Criteria, sub-criteria, and point system for the evaluation of Technical Proposals are:

Sl. No.	Criteria	Marks
1	Specific experience of the Consultant relevant to the scope of the Tender Document: a) Experience in development of geoportal and web application (Each Project 5 mark, maximum 20 marks) b) Experience of consultant working in North East India relevant to the scope of the Tender Document.	30 20 10
2	Experience in carrying out Satellite based Monitoring and development of geotagging projects.	10
3	Empanelment and Certifications and documents of Consultant: a) Registered Company/Firms, GST. b) Empanelment with SRSAC, Itanagar b) ISO 9001:2015 & ISO 27001:2013	10 4 3 3
4	Financial Status of Consultant: Average Turnover for last 3 audited financial years a) More than 3 crores INR b) More than 2 crores and less than 3 crores c) More than 1 crores and less than 2 crores	10 10 5 3
5	Presentation of the proposed methodology, Technical Approach & work plan relevant to the scope of the Tender document.	30



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6	Key professional staff qualifications and competence for the assignment: a) Lead Developer b) Development team c) Project manager d) Image Processing Professional e) GIS Professional	10 2 2 2 2 2
Total points for the six criteria (1 to 6)		100

