No. ASSAC/Tech/146/2024/2118

Date: 13/12/2024

## Letter of Invitation

Quotation Ref. No.: ASSAC/Tech/146/2024/.2117....... Date: 13/12/2024

To:
1. C. E. INFO Systems Limited.( Email- ricky.saha@mapmyindia.com)
2. Stesalit Systems Limited (E-mail subrata.sengupta@stesalitsystems.com)
3. ARAHAS Technologies Private Limited (Email-saurabh@arahas.com, bdu@arahas.com)
4. Ramtech Software Solutions Pvt. Ltd (Email- rajnish@ramtech-corp.com)
5. Garuda UAV Soft Solutions Pvt. Ltd (Email-tender@garudauav.com)
6. Key point Technologies India Pvt. Ltd (Email-bbollu@keypoint-tech.com)
7. Sumato Globaltech Pvt. Ltd. (Email-sumatoglobal@gmail.com)
8. Secon Private Limited (Email-feedback@secon.in)
9. Science and Technology Park, Pune (Email-saurabh.varma@scitechpark.org.in)
10. Cyber SWIFT Infotech Pvt. Ltd (Email-info@cyberswift.com)
11. Sky map Global (INDIA) Private Limited (Email-sujan.thakur@skymapglobal.com)
12. Scan point Geomatics Ltd (Email- kanti.l@sgligis.com, sanjay.y@sgligis.com)
13. Indian Resources Information and Management Technologies Pvt. Ltd.  (Email-mail@inrimt.com)
14. AABSYS Information Technology Pvt. Ltd. (Email-PRITAM.BRAHMA@AABSYS.COM)
15. AMNEX Info technologies Pvt. Ltd (Email- bm@amnex.com)
16. IGIS Private Limited (Email-contact@igis.in, igis.dehradun@gmail.com)

Dear Sir/ Madam,

We had invited Quotation from qualified vendors as per list of empaneled vendors of ASSAC (Ref No ASSAC/ empanelment of Vendors/ 41/2022/2024/2058 dated 21.11.2024 for selection of suitable Firms to execute the task of development browser based Web GIS portal. As your Firm has been qualified for verticals (ix) i.e. **Geo-web portal development and web services (WMS/WFS/WCS etc.) by ASSAC** you are now invited to submit techno commercial proposal (two bid system)  against NIQ Ref. No.: ASSAC/Tech/146/2024 /2117 dated 13/12/2024 through online mode on or before 18.12.2024 latest by 2 pm. Detail Terms and Condition for selection of Bidders are mentioned in NIQ stated above.

1. The Notice inviting Techno Commercial Proposal  has  been addressed to all above  empanelled vendors through email as well as uploaded in ASSAC web site i.e. assac.assam.gov.in

2. It is not permissible to transfer this invitation to any other firm / vendors not shortlisted in ASSAC Empanelled list (Ref. ASSAC/ empanelment of Vendors/41/2022/2024/2058 dated 21.11.2024.

3. A firm will be selected based on laid down terms and conditions in Notice inviting Quotation in two bid system.

With kind regards

Encl NIQ NO. .: ASSAC/Tech/146/2024/2117

Date: 13/12/2024

Yours faithfully,

Director
ASSAC

অসম ৰাজ্যিক মহাকাশ প্ৰয়োগ কেন্দ্ৰ

(বিজ্ঞান, প্ৰযুক্তি আৰু জলবায়ু পৰিবৰ্তন বিভাগ, অসম চৰকাৰ)

**ASSAM STATE SPACE APPLICATION CENTRE**

**(Department of Science, Technology and Climate Change, Govt. of Assam)**

Bigyan Bhawan, Near ABC Point, G. S. Road, Guwahati -781005, Assam, India

*E-mail: dirassac2021@gmail.com*

M - 9411768991

P. I. N. Raju, Director

No. ASSAC/Tech/146/2024/ 2117         Date: 13/12/2024

## Notice Inviting Quotations

Online password protected quotation of Techno Commercial proposal (in two bid system: Technical and Financial) along with proof of I.P.O./D.D. of Rs. 20/- (Rupees twenty only) or Court fees of Rs. 8.25 only (non refundable) in favour of Director, Assam State Space Application Centre (ASSAC), Bigyan Bhawan, G.S. Road, Guwahati - 781005 is invited from **Empanelled Vendors** as selected vide office correspondence no. ASSAC/Empanelment of Vendors/41/2022/2024/2058 dated 21/11/2024.

The online quotations will be received up-to 02:00 P.M. of 18.12.2024. The same will be opened on the same day at 03:00 P.M. in presence of bidders or their representatives. Technical Proposal will be evaluated by the Tender Committee as per T & C. Password protected Financial Bid will be opened after evaluation of Technical proposal as per scope of work subject to compliance of T & C and necessary credentials sought for.

Director, ASSAC reserves the right to accept any offer that would be advantageous to the office and not binding to accept the lowest rate or reject all offers without assigning any reason thereof.

**Under Scope of Work:**

**1. Name of the Web based APP: Assam Urban (Waterbodies) App (AURA)**

A browser-based system, **responsive to web and any mobile device with chrome /edge browser installed into it. The system should be login based and independent users and their credentials should be shared for execution of mapping and marking and viewing activity. The same should also work offline.**

1. **The system developed will have various internal modules like;:**
    i. **User Management Module**: To handle creation/deletion of new/old users and assigning roles and responsibilities
    ii. **AURA Data Collection Module**: This module should incorporate Master Plan Data to be shared by ASSAC and that can be overlaid on Google satellite image (any other) for mapping and marking data on existing and newly identified waterbodies to validate the water body points (minimum 4 points) generated in the field by the survey user

III. **Data Collection Dashboard**: This dashboard should highlight the data masterplan wise. The data to be reflected shall be number of waterbodies mapped, marked and newly identified and surveyed along with progress monitored on daily, weekly and monthly basis. A dropdown menu of the masterplan along with list of waterbodies shall be provided.

IV. **AURA Map Visualization Module:** This Module should display the data collected and validated. It should display its attributes. It should have functionality such as basic GIS operations on the fly like zoom, pan, attribute display in table, coordinate finder, spatial search and buffer

V. As soon as the Surveyor clicks a zone the following attributed table (to be prepared in lab) should drop down.

| Sl. | Zone | UID of water body | Area as per Map | Area as per Revenue Record (to be shared by the Department) |
|-----|------|-------------------|-----------------|-------------------------------------------------------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

VI. **The surveyor then compare the water body as per following questionnaire and capture the same through the proposed AURA Application :**

| No. | Question | |
|-----|----------|---|
| 1 | Is the water body shown in the background map? (Yes/No) [#] | Dropdown List[#] |
| | **If Yes,** Unique Water body ID (UWID) (Auto generated in the format<br>Name of District _Master Plan_ Survey Zone No. _Serial no of water body) e.g. for Demow Master Plan in Sibsagar District in Zone No. 4 UWID shall be :<br>SIB_DEM_04_12<br>If **No**, System shall take the same format and generate the serial number. | Geo Tag Creation + additional attribute collection |
| 2 | Geo tagg points (minimum 4 points) shall be taken. | Geo Tag Creation |
| 3 | Date of Survey | Auto Fill |
| 4 | Name of Village/Ward* | Auto Fill |
| 5 | Name of Urban Local Body/Panchayat | Auto Fill |
| 6 | Local Name of the Water body | Typed by Surveyor |
| 7 | Type of Water body<br>(Beel/ Pukhuri/ Khal /River/Out flow/ Inflow Channels) [#] | Dropdown List[#] |
| 8 | Location Marking Facility and Changing the location (Positional distortion) | Functionality |
| 9 | Status of the Water body<br>(Private/ Government/ Community/ Religious/ Others) [#] | Dropdown List[#] |
| 10 | If its government, in above, Name of the Government Department | Typed by Surveyor |
| 11 | Is the water body under use? | Yes/No |
| 12 | If Use is Yes, specify the usage (Agriculture/Fishery/Others) [#] | Dropdown List[#] |
| 13 | Encroachment Status of the Water body (Yes/No/Partially) | Dropdown List[#] |

| | | |
|---|---|---|
| 13 a | If Yes, in above, Upload Evidence Photos (Geo-Tagged & Geo-fenced) | Photo Upload |
| 14 | Type of Development within 100 m of the Water body (No development/ Fully developed/Sparsely Developed) [#] | Dropdown List[#] |
| 14 a | Upload Photos (Geo-Tagged & Geo-fenced) | Photo Upload |
| 15 | Is there any Industry within 100 m (Yes/No) [#] | Dropdown List[#] |
| 15 a | Upload Photo Evidence Photos | Photo Upload |
| 16 | Any drain opening into the waterbody observed (Yes/No) [#] | Dropdown List[#] |
| 16 a | Upload Photo Evidence Photos | Photo Upload |
| 17 | Do migratory birds visit seasonally? (Yes/No) [#] | Dropdown List[#] |
| 18 | Remark on Water body. 1. Is the waterbody: Perennial/ Seasonal Is it cover by water hyacinth: Yes/No 2. Clarity of Water: Yes/ No | Dropdown items to be shared. |

*Will be provided by the ASSAC or Concerned Department conformal to GIS Standards like projection, geo-referenced and file format. (Shape file of Master Plan; Municipal Ward Map; ULB and Any other relevant data).

# Shall be an easy-to-use dropdown list for smart application filling.

VII. **The proposed AURA Application should be developed on free Google Maps API for satellite image display (Google Hybrid/Satellite or others as provided) in the background.** Apart from Google Maps API, there should be provision for Open Street map, ESRI Satellite Image. Flexibility for WMS file integration along with HR image (including Drone Image).

VIII. Finally, the following details along with the above data /information should be reflected in the website:

A.
1. Master Plan wise Schedule of water body
2. Map showing water body
3. **Details of the scheme and projects taken up with cost estimates**
4. The website shall be so designed as to enable
   a. Active participation by citizen.
   b. Adopt a water body by Private/ Corporate sector
   c. Attract CSR funding for preservation and conservation List of compatible projects

B. Schedule No.

Name of water body:

UID of Water body:

| Schedule of Land: | |
|---|---|
| District | |
| Mouza: | |

| Master Plan: | |
|---|---|
| Revenue Village | |
| **All Land of Dag Numbers :** | |

**N.B.**

i)The app should be able to generate digitized waterbody boundary map in GIS format

ii) Water bodies exempted from the schedule will be shared

## 2. Terms and Conditions to be followed by the Bidders

1. Proof of concept of similar nature of work along with sample should be submitted with technical proposal.

2. Work order and completion certificate of similar nature of work with technical proposal.
3. Timeline i.e. starting and completion of the similar work.
4. Self certification confirming that the work will be done within the stipulated time. If not, the company will be penalized and the payment will be held up and the work will be transferred to the other vendor who is in the second position / wait listed.

5. Number of resource person with respect to Web-based developer and Application developer.
6. Online quotation should be submitted in two bid system which should be password protected. Financial bid will opened for technically qualified bidders.

7. The mobile app developed is to be hosted at the ASSAC server. The vendor may specify their requirements (minimum specifications, if any) of the server.

8. The use of the dashboard and mobile app are to be demonstrated to ASSAC/TCPO personnel for familiarization and confidence of using it to geotag the waterbodies, collection of the ancillary information and the web portal.

9. **Project time line:** 2 weeks for Development activity w.e.f date of issue of Work Order followed by AMC for 12 months.

10. Letter of acceptance to be submitted by selected Bidder

11. **PROJECT COST TO BE QOUTED IN INR INCLUSIVE OF ALL TAXES**

- **One Time Web Development/Hosting/Migration  Cost: IN Rs.**

- **Annual Maintenance**: IN **Rupees for a period of 12 months**

Note: exemption from GST as per Notification should be produced with validity. Any change in tax regime due to future legislations by Govt. of India or State Govt. shall be made applicable with immediate effect & all taxes as levied & applicable has to be borne by Vendors.

## 12. Payment Terms:

- 90% pay on successful completion of the work. The balance will be released at the end of one year AMC.

13. Director, ASSAC reserves the right to cancel the agreement with prior notice, if the services of the supplier is not found satisfactory or due to negligence of duty of the driver or any other reason which may affect the course of journey.

14. Any dispute whatsoever will be confined and settled within the jurisdiction of the Gauhati High Court, Guwahati only.

Director
ASSAC

Director
Assam State Space Application Centre
Bigyan Bhawan, G S Road, Ghy-5