

**SURVEY OF INDIA**  
**(Department of Science & Technology)**  
**Surveyor General's Office, Dehradun, Uttarakhand**

**NOTICE INVITING TENDER**  
for  
**ESTABLISHMENT OF GEOSPATIAL DATA & LOCATION BASED SERVICES PLATFORM**  
**EOI No: S- 253 /15-M-1 Dated 30/4/2024**

Survey of India is inviting Expression of Interest for execution of "Establishment of Geospatial data & Location Based Services Platform" on the lines of NGDR and UGI based registry and exchange respectively under the aegis of National Geospatial Policy.

The EOI with complete terms and conditions are available on the CPP portal i.e. <https://eprocure.gov.in/eprocure/app> as well as on Survey of India website: [www.surveyofindia.gov.in](http://www.surveyofindia.gov.in) (for reference only). EOI submitted in any other manner will not be accepted. Responders are required to obtain Digital signature from designated firms (available on e-proc). Portal and then register with the Government of India e-procurement platform and submit their response by using their user ID and Digital Signature.

EOI must be submitted online on <https://eprocure.gov.in/eprocure/app> (website) on or before the date and time for receipt of EOI, and the techno-commercial response of the EOI will be opened online on the specified time and date for opening of EOI as given below. Any response or modifications received outside e-procurement system will not be considered. If the office happens to be closed on the date of opening of the EOI as specified, the EOI will be opened on the next working day at the same time. The electronic bidding system would not allow any late submission of EOI.

For queries / clarifications on content of Tender document, please contact, Director, NGD, Survey of India, Dehradun (Uttarakhand) - 248001 on email [ngdc.soi@gov.in](mailto:ngdc.soi@gov.in).

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|-----|--|---|
| (a) | Date of pre-proposal conference                        | 13.05.2024 (11:00 hrs)  |
| (b) | Last date and time for receipt of EOI                  | 31.05.2024 (17:00 hrs)  |
| (c) | Time and date of opening of techno-commercial response | 03.06.2024 (10:00 hrs)  |
| (d) | Place of pre-proposal conference                       | Conference Hall of O/o Director NGD, Survey of India, Dehradun-248001 (Uttarakhand) |
| (e) | Place of Opening of techno-commercial response         | Conference Hall of O/o Director NGD, Survey of India, Dehradun-248001 (Uttarakhand) |



**SURVEY OF INDIA**  
**(Department of Science & Technology)**  
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**Project: "Establishment of Geospatial data & Location Based Services Platform"**

**Request for "Expression of Interest (EOI)"**

Survey of India is inviting Expression of Interest for execution of "Establishment of Geospatial data & Location Based Services Platform" on the lines of NGDR and UGI based registry and exchange respectively under the aegis of National Geospatial Policy (NGP).

**Context:** Effective utilization of Geospatial Data for innovation and Value-Added Services.

The above platform is envisaged to facilitate consumption of all types of geospatial data, products and location services as and when available with SOI and other govt./non-govt. organizations registered on the platform fostering innovative use of geospatial information in a seamless way for the industry at large to ably support the national digital economy moment.

**Process:** The interested parties shall be asked to carry out a PoC. SOI may provide sample data as required/desired by the responders of EOI of approx. 100 sq.km. area consisting datasets of multiple fundamental themes from multiple departments which can be collected from O/o Director NGD, Survey of India, Dehradun. The responders would have to make a demonstration of the platform capabilities as mentioned in the 'List of Features' broad reference in Annexure 1 of the EOI document. Responders are encouraged to suggest/demonstrate more details/features as they seem relevant to this POC.

A shortlist of interested parties shall be prepared based on the outcome of the PoC. A detailed RFP shall subsequently be shared with those shortlisted parties for submitting a techno-commercial response as per the GOI Procurement policy.

**Deliverable of the Project:**

Deployment of Integrated platform that acts as a common interface allowing users to access, query, analyze, and visualize geospatial data from multiple sources/Service Providers (e.g., satellite imagery, aerial photographs, LiDAR point cloud data, geo-physical data (gravity, magnetic, etc), demographic data, etc.) and geospatial services (e.g., web mapping services (WMS, WFS, WCS, etc), geocoding services, routing services, API services, etc.) in a seamless and consistent manner on the lines of NGDR and UGI as per Annexure 1.

For the POC, the capabilities of the proposed solution for the list of features needs to be demonstrated. The cost of the PoC is to be borne by respective firms.

The EOI with complete terms and conditions are available on the CPP portal i.e. <https://eprocure.gov.in/eprocure/app> as well as on Survey of India website: [www.surveyofindia.gov.in](http://www.surveyofindia.gov.in) (for reference only).



**Pre-proposal conference:**

The Pre-proposal conference will be held on 13-05-2024 at Conference Hall of O/o Director NGD, Survey of India, Dehradun to clarify the issues and respond to any queries raised by prospective Responders. The prospective Responders, if cannot attend the pre-proposal conference will be required to raise their queries on CPP portal.

**Critical Date Sheet & Venue:**

Published Date & Time	01/05/2024 at 10:00 Hrs (Server Time).
EOI Document Download/Sale Start Date	01/05/2024 at 10:00 Hrs (Server Time).
Date of pre-proposal conference	13.05.2024 (11:00 hrs)
EOI Submission Start Date & Time	14.05.2024 (10:00 hrs) (Server Time).
EOI Submission Closing Date & Time	31.05.2024 (17:00 hrs) (Server Time).
Techno-commercial Opening Date & Time	03.06.2024 (10:00 hrs) (Server Time).
Place of pre-proposal conference	Conference Hall of O/o Director NGD, Survey of India, Dehradun-248001 (Uttarakhand)



List of Features of the proposed solution -

**Broad Features of the Platform:**

- Open and Seamless API based architecture.
- Integrated platform (data and geo services) for seamless User Experience.
- Pipelines for data exchange in diverse formats through universal exchange methods.
- The platform should facilitate collaboration among:
  - Data Partners
  - Service Partners
  - Application and Solution Partners (Web/Mobile etc.)
- The proposed system should also ensure security for:
  - Data
  - Metadata
  - Privacy
  - User/Service Provider
  - Authorization

**Desired Building Blocks of the Platform:**

**1. NGDR Registry**

The data registration on the platform should have key information regarding the data, ownership, metadata information for the proposed NGDR. It should be modelled to facilitate various services for end users such as Data Catalog for data search & discovery of data assets with the right context and Metadata Registry to define and drive adoption of a common, well-structured, and documented data schema.

**2. NGDR Services**

The system should be open and interoperable to ingest different data formats to the same real-world scenario. It should support Versioning and Tagging for better discovery and usage. It should also have rules and constraints for Temporal, Spatial, Subscription, User Profile, Object/Data, Scheduling, Query Optimization. It should also be able to create services such as Data Catalog Services, Metadata Services, Data conflation service, Data validation check etc.



### 3. UGI Exchange

The system should have workflow capable of on-boarding and validating users. It should ensure users are authenticated to access UGI exchange and validate and authorize all data requests.

The user on boarding and validation workflow for UGI should involve User Registration to register for UGI services through portal/mobile app; User Validation to grant authorisation for UGI Services as per its role and level of Data access and Data Delivery through API Services

The system should also have a workflow for Service/data provider on-boarding and validation. It should ensure that only trusted and authorized providers are on-boarded.

### 4. Map on Demand

Map on demand from underline data with options for choice of content, scale, etc.



## ITR (Instruction to Responders):

The Interested parties are requested to submit their response on the following format:

- Understanding of the Project
- Broad Architecture of the proposed System
- Approach
- Implementation Methodology
- Company Profile and Relevant Experience

## Prequalification Criteria for Implementation Partner

- Experience of developing a platform with successful track record for last 3 years for serving sufficiently high online transactions as well a consumer app with sufficient high downloads.
- Experience of developing and deploying Web & Mobile based applications – for Consumer Enterprises & Government as well as having proven in-house skill sets to build & operate large services platform both in terms of technical resources as well as solution offering in last 03 years.
- It should be an Indian entity.

## Shortlisting Criteria

- Combined capability to offer Integrated Location & Content Services.
- Capability to deploy platform agnostic online, on premise & hybrid solution.
- The proposed system should be in compliance with NGP.
- The participating firms would be required to make a presentation at O/o Director, NGD, Survey of India, Dehradun. The date and time will be intimated later.
- The firms participating in the PoC will be shortlisted based on evaluation of their capabilities to demonstrate list of features as stated in Annexure 1.