

## **EXPRESSION OF INTEREST ( EOI ) FOR NATMO**

### **Setting up of Geo Portal for NATMO for provision of geo-spatial data/ information services**

**National Atlas and Thematic Mapping Organisation (NATMO)** invites Expression of Interest (EOI) from reputed, established and reliable System Integrators (SI) for the development of a Geo Portal for NATMO for provision of web-based geo-spatial data/ information services.

While the EOI responses may contain indicative commercially relevant information, it would not be construed as a commercial bid. Eligible EOI bidders will be called for their presentation on proposed work flow/ system solution fulfilling the objectives and scope of the above job. Request for proposal (RFP) will be issued to all eligible EOI bidders.

The deadline for submission of the EOI bid is 1500 Hrs. (IST) on 14-09-2016. EOI shall be submitted in two copies in sealed envelope clearly super scribing on top of the envelope **"Expression of Interests (EOI) for Development of NATMO Geo-portal"**.

Name of the Firm, EOI No and Bid Due Date & Time shall also be clearly written on the sealed envelope. Sealed envelope containing EOI shall be submitted at the following address:

Shri. Sajikrishnan K  
Scientific Officer & Coordinator, Technical Group I  
National Atlas & Thematic Mapping Organisation (NATMO)  
Ministry of Science & Technology  
Department of Science & Technology  
Government of India  
7<sup>th</sup> Floor, CGO Complex  
DF Block, Sector I  
Salt Lake, Kolkata 700 064

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### **1. QUALIFICATION CRITERIA:**

- i. The Firm should have proven experience of successful development and maintenance of portals/ geo portals offering standards-based data/ product/ application services/ GIS functionalities of Service Oriented Architecture (SOA) as given in the objectives.
- ii. The Firm should have a minimum annual turnover of Rs.5 crores for geospatial software development related activities and submitted audited financial statements over the last three years.
- iii. The Firm should be having a team of minimum 25 Software development personnel along with a requisite number of project managers. The firm should have sufficient hardware experts to handle the project.
- iv. For all the above, the firm should furnish the documentary evidences like. Registration certificates/documents, organization bye-laws etc.

## **2. OBJECTIVES:**

To develop the NATMO geo-portal and the underlying database towards organizing, securing and facilitating delivery and sharing of geospatial metadata/ data/ products /application services to end users as per ISO/OGC standards. The geoportal will be linked to the NSDI Portal to facilitate the above delivery, sharing, and discovery of geospatial data/ information through a common gateway.

## **3. SCOPE OF PROJECTS:**

National Atlas and Thematic Mapping Organisation (NATMO) has the intent to develop a Geoportal to disseminate the digital data in open standard by creation of a digital library accessible over web. As NATMO is a part of the NSDI, it intends to share all its spatial data sets not only through its own Geoportal but through the common gateway of the NSDI portal.

### **Geo-portal development work will include:**

- i. Organisation of a relational database of all data sets provided by NATMO for machine-based search, retrieval and updating on the web based on sound design considerations.
- ii. Creation of OGC/ ISO compliant Web services (CS-W, WMS, WFS/ GML etc.) from the spatial data residing in the spatial RDBMS for consumption by standard GIS/ DSS tools available on the client at the user end.
- iii. Creation and provisioning of metadata for the seamless data layers/ data assets of NATMO.
- iv. Provisioning for consuming the standard ISO/ OGC web services created by commercially available other compliant web publishers and web service providers.
- v. Creation of meta-data based catalog service as per OGC and ISO standards with various search criterion for the Geo-spatial data products and web services.
- vi. Incorporation of requisite functionalism and necessary customization required for organizing the data delivery mechanism (including the various download options through HTTP or FTP etc.) for the Geo-spatial data products and web services as per the requirement of NATMO.
- vii. Development of Geo-visualization functionalism including the OGC styling tools and other customized tools and utilities for the data products and web services as per the requirements of NATMO and other stake holders. Incorporation of NATMO data products, web services licensing terms and conditions in accordance with the Government of India Spatial Data Policies and Guidelines.
- ix. Provisioning for receiving the online payment towards the delivery of the data products and web services of NATMO as per the India Government Spatial Data Policies and Guidelines.
- x. Multi-tier data security and web security layers are to be incorporated based on International standards and technological tools for similar functional Geo-portals. All cyber security guidelines and web security guidelines of the Government of India/ West Bengal should be complied. All essential clearances/ certifications for security audit for the Geo-portal from the CERT-IN (Ministry of Information Technology) will be secured by the vendor.
- xi. Tablet compatible field applications are to be developed for different platforms as per the requirements of NATMO so that NATMO official or any authorized person can digitize and update

maps from the field also.

xii. Map viewer with functionalism and customized tools to display/overlay various data products and web services with or without styling as per the requirements of NATMO and other stake holders like West Bengal Govt. Departments.

xiii. Development of Mobile Apps as per the data availability and requirement of NATMO

xiv. Development of NATMO's work force in NATMO.

xvi. Two years maintenance cum support with one year extension.

xv. Any other functionality and development required for running the user applications based on the ISO and OGC compliant web services of NATMO and other stake holders like West Bengal Govt Departments in light of the point (vi) and (vii) given above.

#### **4. ELIGIBILITY CRITERIA:**

Each bidder has to submit the following information and documents in support while submitting the proposal in response to the EOI:

a. Company details describing the technical capabilities and achievements in the requisite Functional Domain.

b. Mandatory technical details about the Functional Geo-Portal completed by the vendor:

- i. Types of data delivery product and web services.
- ii. Technologies used in development.
- iii. Functionalism offered in the portal.
- iv. Types of licensing terms incorporated for product and service delivery.
- v. Security layers incorporated with details about the technology used.
- vi. Certifications for security and OGC compliance services obtained.

c. Experience in India, and/or other key markets.

d. Detailed work flow/ system solution proposed for completion of the work.

#### **5. WORK SCHEDULE:**

Following schedule will be followed for EOI and RFP:

- i. Open invitation for EOI is being issued to invite all prospective bidder(s).
- ii. Interested bidders should submit their EOI bids along with credentials, proposed work flow/ system and other details.
- iii. EOI will invite eligible bidders for presentation of proposed workflow/system.
- iv. RFP will be prepared and issued to the eligible bidders of the EOI.
- v. Bidders will submit their RFP bids as stipulated in the RFP document.

vi. While the Expression of Interest has been prepared in good faith, NATMO does not make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statement or omission herein, or the accuracy, completeness or reliability of information contained herein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this request, even if any loss or damage is caused by any act or omission on its part.

vii. Bidders are requested to keep the information and details strictly confidential. NATMO is looking for support and co-operation of the Bidder in getting fully responsive Expression of Interest.

viii. NATMO shall not be responsible for any expense incurred by Bidder in connection with the preparation and delivery of the EOI or other expenses.

ix. NATMO reserves the right to reject any or all the Expressions of Interest without assigning any reason thereof.

x. The process of inviting EOI is for ascertaining various options available to NATMO. After evaluation / examination of the offers, NATMO may at its sole discretion decide further course of action.

xi. NATMO shall carry out evaluation of the bidders based on the parameters mentioned in the evaluation sheet available at **Annexure-A**. The bidder, who will score seventy (70) or more than that mark will be eligible for the next course of action.

xii. NATMO reserves the right to deal with the proposal in any manner without assigning any reasons for the same. The decision of NATMO in this regard shall be final.

#### **Tentative schedule of activities:**

<b>Activity</b>	<b>Date</b>
Issue of EOI.	7 <sup>th</sup> Sept, 2016
Last date for query may be Emailed to – <a href="mailto:saji.krishnan@gov.in">saji.krishnan@gov.in</a> (in .xls/.xlsx/.doc format only).	13.00 HRS 19 <sup>th</sup> Sept, 2016
Submission of EOI	13.00 HRS 27 <sup>th</sup> Sept, 2016
Presentation by shortlisted vendors as per Annexure A	12.00 HRS onwards 30 <sup>th</sup> Sept, 2016
Shortlisting of EOI by NATMO and intimating to vendors by email	13.00 HRS 7 <sup>th</sup> Oct, 2016
Preparation and issue of RFP to the selected bidders of EOI. 2 Bids system [Technical] & [Financial]	13.00 HRS 19 <sup>th</sup> Oct, 2016
Submission of RFP	13.00 HRS 1 <sup>st</sup> Nov, 2016
Evaluation of RFP	13.00 HRS 4 <sup>th</sup> Nov, 2016

Intimation to the technically qualified vendors	13.00 HRS 7 <sup>th</sup> Nov, 2016
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## Annexure A

### EVALUATION SHEET

**Note:** The maximum score for each criterion is indicated in the table. A score of 70% of the Total Score is the required eligibility of the bidder for RFP submission.

Criteria	Description	Score	Maximum
<b>Experience in similar Projects</b>	<ul style="list-style-type: none"> <li>Have they built Geoportal/ clearinghouse /spatial database of similar scope and functionality?</li> <li>Overall appropriateness of the team's background, experience and qualifications</li> </ul>		<b>20</b>
<b>Design skills</b>	<ul style="list-style-type: none"> <li>Quality of design of previous Geoportals/ clearinghouse /spatial database as cited in their submission and similarity of their clients and those sites to our own.</li> </ul>		<b>20</b>
<b>Understanding of the project via understanding of NATMO operation</b>	<ul style="list-style-type: none"> <li>Understanding of Clearinghouse and Data Dissemination in respect to NATMO?</li> <li>Do they demonstrate an understanding of the project?</li> </ul>		<b>20</b>
<b>Project management methodology/Work</b>	<ul style="list-style-type: none"> <li>Quality and appropriateness of PM methodology.</li> </ul>		<b>10</b>
<b>Value of additional relevant skills and experience</b>	<ul style="list-style-type: none"> <li>Value of any additional skills/solutions — e.g. the technologies used by them that could be utilised on development of SDI— or suggestions for innovative approaches.</li> </ul>		<b>10</b>
<b>Deployment Plan</b>	<ul style="list-style-type: none"> <li>Resources (H/W, S/W and peripherals like UPS etc.)</li> <li>Execution Plan (Gant Chart)</li> </ul>		<b>10</b>
<b>The responding organisation</b>	<ul style="list-style-type: none"> <li>Size, time in business, professionalism as evident in the company profile</li> </ul>		

	<ul style="list-style-type: none"> <li>Has the organisation won any significant and relevant awards?</li> <li>Overall quality and professionalism of the presentation of their submission</li> </ul>		<b>5</b>
	<b>Total</b>		<b>100</b>

Comments:

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Evaluated by: \_\_\_\_\_ Date: \_\_\_\_\_

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