

Immediate

No.3/7/1(15)2012-NSDI
Government of India
Ministry of Science & Technology
Department of Science & Technology

East Block-7, Level 5, Sector- 1,
R.K. Puram, New Delhi,
Dated: October, 2017.

Corrigendum

Subject: Corrigendum to RFP for “Setting up of National Data Registry for National Spatial Data Infrastructure (NSDI), Department of Science & Technology (DST)” dated 4th Aug,2016.

The undersigned is directed to refer to the RFP floated by this Department in the above subject matter and further O.M of even no. dated 20.10.2017 vide which a list of selected bidders was released by NSDI, DST after Stage-1 evaluation.

2. During the stage I evaluation, bidders offered a diverse set of solutions both open source and COTS-based causing their overall (both technical and financial) comparison difficult. Therefore on the basis the recommendations of Technical Committee on NDR, the competent authority has decided to specify the scope of the process of normalisation and permit commercial bid revision/ re-submission through this corrigendum (**Para on Stage II on page3,Paras 16(b) and 16(h) on page 6; and Section 29 on page 10**). This is required to be done as per the details mentioned below in order that the selected bidders could to provide additional technical details of their proposed solutions and re-submit their commercial/financials bids.
3. Therefore, the following corrigendum **as per Annexure-I** to the above RFP is being issued **to proceed with the subsequent stages of evaluation and processes.**
4. **In addition to the above**, the following are also requested/re-iterated to facilitate the evaluation:
 1. As per the “Para ‘C’: Other Requirements”, shortlisted bidders from Stage-I Evaluation may confirm their willingness in writing to the undersigned latest by 31th Oct, 2017 for their participation in the subsequent stages of the Bid Evaluation Process.
 2. Validity of the EMD deposited by each shortlisted vendor should be extended for a further period of six months.

3. Core sample data sets for the pilot implementation of the NDR for Stage-II Evaluation will be accessible at the NSDI Website URL from 1st Nov,2017 onwards in GML / Shp format and will be intimated by e-mail.
4. The Username and Password for accessing the data should be collected from the undersigned in person or e-mail (nsdi@nic.in) on request.
5. If additional data from the matching map extent is to be used by the bidder for proposed use cases of pilot Implementation, the same may be used with prior approval of the undersigned.
6. A set of eight excel spreadsheets (one for summary and seven for different locations) have been provided in the NSDI Website (www.nsdindia.gov.in) for use in financial bid preparation and submission. Both hard and soft copies of the financial bids complete in all respect should be provided in the sealed cover as prescribed in the RFP on or before 15-Nov-2017.
7. Date of evaluation of the pilot implementation (likely to be held in December 2017) will be informed separately.
8. There is no provision of any compensation or any financial support for the pilot implementation (Stage-II)


(Agusthia Minj)

Under Secretary to the Government of India.

Copy to:-

1. Avenion India Pvt. Ltd.
2. IIC Private Limited.
3. ROLTA India Private Limited
4. RSI Softech Pvt. Ltd.

Corrigendum to Request for Proposal (RFP) No. 3/7/1(15)2012/NSDI dated 4th Aug-2016 for Setting up a National Data Registry (NDR) for National Spatial Data Infrastructure (NSDI)

The following are the details of the corrigendum to various sections of the RFP mentioned page wise.

A. Criteria for Stage II Evaluation (Page 3):

The following technical evaluation criteria are added with marking scheme under the Stage II evaluation in Page 3 of the RFP:

- (i) Overall Architecture showing NDR Node/ Data Node (max: 10 marks)
- (ii) Conceptual to Physical Data Model Conversion (max: 10 marks)
- (iii) Use of ISO/ OGC standards for interoperability (max: 10 marks)
- (iv) Search/ discovery/ crawling Strategy for periodic metadata updation at the central NDR Node from Data Nodes (max: 10 marks)
- (v) Security strategies at NDR Node/ Data Node/ Data Flow or Exchange in Network (max: 10 marks)
- (vi) Use case implementation involving single/ multiple/ cross domain data sets (max: 10 marks)
- (vii) Use of data sets from the NSDI WFS and other data from outside sources (max: 10 marks)
- (viii) Content of the NDR Registers (max: 10 marks)
- (ix) Data/ Register Maintenance Strategy (max: 5 marks)
- (x) Access strategy to Services (WMS/ WFS/ GML/ CSW) (max: 5 marks)
- (xi) User Access/ Role Management Strategy (max: 5 marks)
- (xii) User Interface (max: 5 marks)

B.1 Para 16(b) and 16(h) on page 6 of the RFP be revised and read as follows:

Para 16(b):

The second envelope shall be super scribed with the name of work and the words "NDR-Price Bid(Financial)" in capital letters. It shall contain full details of the price & commercial conditions. Any deviation from our standard conditions shall be specifically spelt out. In providing NDR solutions, cost of each item of hardware, software, connectivity, services, manpower etc. should be provided separately to facilitate normalisation and comparison of bid prices. Proforma for providing the financial details is given in Annexure IV of the Bid Document.

Para 16(h):

No bid be modified subsequent to the deadline for submission except for providing detailed cost break-up of the hardware, software, connectivity or services etc. to facilitate the process of normalisation in terms of deployment of equipment, tools, and manpower etc. and comparison of the prices."

C: The following be added to Section 29 on page 10 of the NDR RFP on "Special Conditions pertaining to Website/ National Data Registry":

- (i) Normalisation in terms of deployment of equipment, tools, and manpower etc. has been necessary to ensure completeness and consistency of the bids, and will be done primarily using a bidder's un-priced commercial bids to be submitted separately by him from the closed and sealed price bids. At the time of evaluation, the NDR TC may review the bidder's components for system sizing, components, product licences, and the developmental and operational efforts and suggest changes, if any, by using already quoted unit prices if applicable or requesting incremental bids. However, major omission of bid components may lead to rejection of the commercial bids.
- (ii) For the NDR operationalisation, 7 (seven) Data Nodes are required to be set up - one NDR Node at NSDI (New Delhi), five Organisational Data Nodes (SOI Hyderabad, GSI New Delhi, FSI Dehradun, NBSS&LUP Nagpur, and MoSPI New Delhi, alternate NATMO Kolkata; alternate CPCB Delhi), and one State Data Node (KSCST, Bengaluru; alternate UCOST Dehradun). Final decision on accommodating the Data Node is subject to necessary approvals by each of the participating organisations being taken separately through the NSDI mechanism.
- (iii) Each of the above 7 Nodes is required to be equipped with separate systems consisting of three rack-mountable or blade servers - one database server, one application server and one web server - with 10 TB of data capacity at NDR Node and 5 TB each at each of the Organisational Data Nodes for 25 concurrent users. SAN storage with usable data storage capacity should be provided that a bidder should relate to raw disk size based on his own equipment/ tools. Networking (router, LAN Switch) and security (device-based firewall with IDPS) equipment with leased line are required to be provided.
- (iv) With a total of 1000 users and 25 concurrent users at a given time, a response time of approximately 100 milliseconds is expected at the server system for 5-10 KB of data (metadata and spatial data) retrieval/ display and of approximately 1 second for a 100 KB of data.
- (v) Cost of human resources for NDR development and maintenance should be approximately 200 person-months of initial development as a lump sum and is in addition to the cost of hardware/ software/ connectivity infrastructure deployment and maintenance, tools, training and support for Open Source-based solutions or updates/ patches/ upgrades/ maintenance in case of Commercial-of-the-shelf (COTS)-based solutions.
- (vi) At least one System & Application Administrator level person should be available at each of the 7 locations during the 1st year of the development and testing to ensure 24x7 availability of the Central (NSDI) or Organisational (Individual Agency Level) Data Node. During the 2nd year, a System Engineer having knowledge of GIS applications and capable of providing first level support may be available at each of the NDR Node/ Data Nodes for only one shift.

applications and capable of providing first level support may be available at each of the NDR Node/ Data Nodes for only one shift.

- (vii) Over and above the 200 person-months' of developmental effort being provided, there may be a need for NSDI to assign additional development work outside what is already covered in the RFP during the maintenance period of about 5 years. In support of this assignment and costing, each bidder should provide the unit rate of manpower cost as a part of the total cost of ownership (TCO). This may be used by NSDI over the period of 5 years.
- (viii) An Excel spreadsheet has been provided with the corrigendum for defining the broad components of the NDR infrastructure across all the 7 locations that need to be provided for in terms of the details of the hardware, software; applications; networking; security etc; their specifications/ configuration; quantity; unit price; costs. Solutions may require addition of missing items, If any, over and above the suggested ones for improved effectiveness and efficiency of the registry or geospatial information updation, access and delivery.
- (ix) Each component of the solution should be individually scalable and cloud-ready so that it should be possible to host the NDR System from a Geospatial Cloud proposed to be developed under NSDI/ SOI Plan of Activity approximately in a year's time.
- (x) Both COTS and OS solutions should have the respective costs for license/ support/ training/ maintenance break ups, as applicable, to facilitate comparison.
- (xi) Each of the Nodes should have all the geospatial tools having NDR capabilities with 25 concurrent users (as mentioned above) doing CSW, WMS, WFS calls for the applications. Required benchmarking will be done by NSDI for ascertaining availability of these tools and services.
- (xii) The Technical Bid should be complete in terms of the justification or the rationale as to how the sizing of the hardware, software, connectivity, and manpower resources have been done to facilitate benchmarking at the time of evaluation.
- (xiii) At the central NDR location, the bidder should provide a separate development platform consisting of various developmental and testing tools including operational components for pre-release testing. This development and test facility of NSDI should have separate servers and workstations sized appropriately for a 5-member team.
- (xiv) At the NDR Central Facility in NSDI, an Open Source-based Facilities Management Software should preferably be provided to help monitor operations and performance of all system components of NDR including servers, networks, security, etc.

D. Other requirements

Considering that the stage I evaluation of the bids is over, and commercial bids were submitted several months ago and not opened yet, the shortlisted bidders are

permitted to indicate their willingness to continue their participation in the RFP process by extending their price validity offers or re-submitting their fresh price bids in the wake of revision of prices and/ or introduction of GST during the intervening period. Bidders are encouraged to provide latest models and versions of their hardware/software for their solutions.
