

1(9)/2009-TPS
GOVERNMENT OF INDIA
Department of Information Technology
NATIONAL INFORMATICS CENTRE
A-Block, C.G.O. Complex, Lodhi Road, NEW DELHI-11 003

Dated: 18/05/2009

E.O.I. No.NIC/TPS/2009/07

**NOTICE FOR INVITING EXPRESSION OF INTEREST (EoI) from Solution Providers
using Business Intelligence Tools and System Integration**

Agricultural Informatics Division is implementing a project entitled "Data Warehouse for Ministry of Agriculture" under Development of Agricultural Informatics and Communication (DAIC) Scheme of the Department of Agriculture & Cooperation. Under the project, Enterprise Data Warehouse (EDW) solution is to be delivered. The EDW will provide a single repository of data related to – Agricultural statistics, land use, crop production and crop prices to be used for analysis, forecasting, advance estimation, mining etc. The underlying hypothesis of this work would be to answer strategic questions posed by policymakers and researchers. An Enterprise Data Warehouse (EDW) (ETL, OLAP, Reporting, Data Visualization, Dash Board, Scorecard etc) with exploration tools from data-mining domains are envisaged.

State of Art Data Warehousing and Data Mining proposals are invited from presently competent OEMs of software tools associated with handling & upkeep of services based on Data Warehousing , Business Intelligence & Data Mining having experience in delivery of solutions and training. The project envisages global solution, best practices and integrated services. The software company should have the capability to provide end-to-end integrated solution for Data Warehouse, Business Intelligence & Data mining on its own tool.

Scope of Work:

- **Framework for Advance Estimate Projections**
 - To evolve a unified Methodology of Crop Estimation (Advance Estimates) based on variable input parameters (Area, Production).
 - To facilitate Analysis of Variations in Estimations.
- **Impact analysis**
 - Impact analysis of various factors (Rainfall, Temperature, flood, humidity, frost etc) affecting crop yield.
- **Framework for establishing an Alert System for the MoA.**
 - The system should be able to provide early alerts based on business rules.
 - Suggest possible alerts on Source Data Inconsistency.
 - Alerts on Shifting of crops from minor to major category & vice-versa.
- **Online Comparison**
 - Framework / Technology on capture of data for internal processing from various web sites
- **Productivity levels as per Agro-Climatic Zones**
 - To exhibit Study of variations of Yield as per agro-climatic zones
- **Land use pattern study**
 - Distribution of Agricultural Land
 - Selected Categories of Land
 - Percentage Distribution of Gross Cropped Area across different crops

- State-wise percentage coverage of Irrigated Area under Principal crops
- Cropping Pattern
- Irrigation Intensity
- **Time series analysis (statistical analysis and forecasting)**
- **Crop analysis / Crop Rules**
- **Dashboard display of National Income & Socio-Economic Indicators**

The sealed Proposals (*) signed by the Authorized Signatories of the Agency with office seal / Stamp must reach in the office of Section Officer, Tender Process Section, National Informatics Centre, A-Block, CGO Complex, Lodi Road, New Delhi 110003 **on or before 17/06/2009 upto 12.30 hrs, which would be opened on the same day i.e., 17/06/2009 at 15.00 hrs.** Tenders may be called for specific jobs from technically qualified vendors.

(*) The proposal should address the following Specifications:

1. Storage (Approximately for 10 Tb)
2. OS , Database Server
3. Servers (Data Warehouse / Mining / BI)
4. Software Tools (Database, ETL, OLAP, Data Quality, Reporting & Data Mining)
5. Implementation Strategy
6. Time Frame of Completion
7. Training for development and user teams
8. GIS technology Interface
9. Annual Maintenance Support after completion
10. Perpetual Software Licenses

Technical and financial proposals will be later asked for from the short listed vendors who respond to this EOI.

Eligibility Criteria:

1. The Agency must have its own or its franchise office in Delhi or National Capital Region. (Give details and please enclose documentary proof of the same.)
2. The Agency should enclose latest balance sheet.
3. The Agency should have experience of deploying Data Warehouse and Data Mining solutions for projects in govt. sector in India or elsewhere. (details to be attached)
4. The Agency should have at least two years of operational experience of integrating Data Warehousing, Business Intelligence and Data Mining tools. The details of project implementation should be attached.

For technical clarifications please contact: Shri Rakesh Vardhan, Technical Director & Project Coordinator, Agricultural Informatics Division, NIC, 011-24368336, rvardhan@nic.in.

Interested parties may view and download the E.O.I. document containing the detailed terms & conditions, free of cost from the website <http://tenders.gov.in>.

(Anju Syal)
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