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West Bengal Electronics Industry Development Corporation Limited

WML Division

P-1, Taratala Road, Kolkata – 700 088

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Notice Inviting Application For Expression of Interest (EOI)

Notice Inviting EOI No. WML/EOI/19-20/0002 Dated 10/9/2019

FOR EMPANELMENT OF SERVICE PROVIDER FOR DASHBOARD SOLUTION IN REGARDS TO AGRICULTURE INFORMATION AND MANAGEMENT SYSTEM, WATER RESOURCES INFORMATION AND MANAGEMENT SYSTEM, WATER SHED MANAGEMENT SYSTEM & SMART CITY GEO-PORTAL.

Notice Inviting EOI No. WML/EOI/19-20/0002 Dated 10/9/2019

West Bengal Electronics Industry Development Corporation Limited – WML Division, a Govt of West Bengal undertaking, invites application from established Service Provider for DASHBOARD SOLUTION in regards to Agriculture Information and Management System, Water Resources Information and Management System, Water Shed Management System & Smart City Geo-Portal.

Brief Description	EOI Document fees (Rs.) [Non-returnable]	Last date & time of EOI submission	Date of opening of EOI
EMPANELMENT OF Service Provider	10000/- (in the form of DD)	30.09.2019	11.10.2019

For any Queries, Contact:

Shri A R Bhattacharya, Email : arupratanb@yahoo.com

Shri Joy Sen, Email: joy.wml2018@gmail.com

1. Application Documents

Application Documents should contain the following:

- a) Application for empanelment signed by the appropriate authority of the applicant in their letter head.
- b) Documents in support of Eligibility criteria towards :
 - i) Previous experiences as Service Provider for DASHBOARD SOLUTION in regards to Agriculture Information and Management System, Water Resources Information and Management System, Water Shed Management System & Smart City Geo-Portal.
 - ii) Financial – Last three Financial years Annual Accounts/IT Returns.
 - iii) Statutory documents as required to carry out business in India.
(Trade License, PAN card, GST Registration, Company profile)
 - iv) Other documents.

2. Scope of Work

Agriculture Information and Management System

Agriculture Information and Management Systems (AIMS) should be an integrated cropmanagement system that should be able to provide decision support and raise advisories to stake holders during the entire life cycle of the crop—from sowing to harvest.

AIMS should help the stake holders in making key decisions such as

- What crop to sow based on localized condition so rainfall, soil type, market Demand and access etc.
- When to prepare the fields for the agricultural season, when to sow the crops
- Whether the crops are under water stress and the Interventions required To mitigate the stress
- Whether the crops are likely To get infected by pest or disease and the interventions required to mitigate the damage
- The right mix of fertilizer to be used based on the current soil conditions and the crops that are sown

The AIMS modules should also provide in sights to the policy makers such as the acre age of crops that are sown based on satellite imagery analysis. The module should also have an automated Early Drought Warning manual that classifies are as drought prone based on various indices.

The system should have the following features as mentioned below.

- Crop Planning Module
- Weekly Date of Sowing Advisory
- Soil Moisture Stress Advisories
- Pest & Disease Prediction & Mitigation Advisories
- Satellite Based Crop Acreage Estimation
- Early Drought Warning System
- Rainfall
- Percent Available Soil Moisture (PASM)
- Vegetation Condition Index (VCI)
- Crop Sown Area

Water Resources Information and Management System

Water Resources Information and Management System (WRIMS) should be an authoritative system for all water resources related information. It should provide real-time visibility into water available from rainfall, reservoirs, canals, minor irrigation tanks, ground water and soil moisture. Combined with visibility into water demand, WRIMS should help the key decision makers for effective planning and management of Water resources for their state/region.

Decision Support Modules should help the key stakeholders make decision such as:

- How much water is required in the canal command area over the next two weeks and for the remainder of the season. How much water to be released at each of the off-take points
- Which villages are in deficit and activities to be taken up on the supply and demand side?
- Where is ground water being over exploited and water conservation activities to be taken to for improved recharge?
- Inflows expected into the key rivers and reservoirs, and how to optimise the operations of the lift irrigation schemes?
- Amount of excess runoff available in each village and how much to conserve based on the deficit sharing policy?
- Optimal way to fill minor irrigation tanks via lift/gravity from existing canals and rivers / rivulets ?

The system should have the following below mentioned features.

- Real-Time Visibility into Water Availability
- Canal Management
- Soil Moisture based Irrigation
- Water Audit
- Village Water Budget
- Water Conservation Management
- Flow Forecasting & Lift Irrigation Scheme
- Water Security Plan
- Interactive Geoportal with Static and Dynamic Layers

Water Shed Management System

Watershed Management System should be an integrated decision support solution that helps the public policy planners, administrators, watershed management officials, NGOs and citizens to plan their watershed activities more scientifically and maximize the

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impact. This solution should help in identifying the villages in deficit and estimating runoff available at the required reliability level, recommending additional water conservation activity that can be taken up taking into account the deficit and available runoff including the location and type of water and soil conservation activities to be taken up.

Watershed Management System should help the stakeholders in making key decisions such as:

- Which villages should be prioritized for water conservation work
- What water management strategies (supply/demand side) should be implemented
- How much additional runoff is available at the required reliability level
- What is the minimum additional capacity required to mitigate the identified water deficit or conserve available run-off in the deficit region
- How many water and soil conservation structures should be built in the village based on the village deficit and available run-off.
- Location and type of water and soil conservation that can be taken up in the village based on geology, geo-morphology, lineaments, soil type, LULC, slope and other GIS layers
- Enable field functionaries to validate the location and type of structures or modify as required using a mobile application
- Prioritise the soil and water conservation activities on a ridge to valley basis and funds available
- Track the progress of the activities

The below mentioned features should be part of the solution.

- Village Water Budget
- Networked Water Conservation Model
- Prediction of suitable zones and location for building water and soil conservation structures
- Mobile-app based validation
- Drone Based Social Audit

Final Takeaways from the Project:

- Optimal channelization of funds by focusing on villages that are drought prone
- Develop water security plan for villages that are usually drought prone
- Maximization in conserving run-off from rain fall
- Restoration of ground water table
- Improved visibility of process leading to better governance

Smart City Geo-Portal

Smart City Geoportal should be a unified Geo- spatial decision support platform that helps administrators to improve effectiveness and transparency in administration.

The Geoportal should provide a unified solution for various applications such as Property Tax, Water Charges, Grievances, Blackspots, Road quality, building deviation etc.

Smart City Geoportal should bring together data from GIS Survey, ERP data, satellite, drone survey, outputs from machine learning algorithms into one authoritative system of record, that can be used by Application specific Geoportals.

The features requirements are as mentioned below.

- Property Tax Geo-Portal
- Water Charges Geo-Portal

- Public Grievance Redressal
- Water Supply Network
- Drainage Network

Drone Based Monitoring should be able to cover the following points effectively:

- Building Compliance
- Green Cover Monitoring
- Road Quality Assessment

Blackspot monitoring

3. Eligibility Criteria

a) **Experiences:** The applicants should have executed atleast one Project in each of the below mentioned Projects for development of MIS and GIS Dashboardssimilar to the requirements mentioned in the Scope of work in the past 3 financial years

1. Agriculture management
2. Watershed Management
3. Water Resources Information and Mangement
4. Smartcity Geo-portal – GIS Analytics and Associated Dashboards

Applicants are also requested to submit credential vizlast three years' turn- over, infrastructure, details of manpower including technical manpower, preference of geographical area of opeartion and other facilities available with him.

- b) **Financial:** Minimum averageturnover in the last 3 (three) financial years should be Rs 10,00,00,000/- (Rs Ten Crores).
- c) **Statutory:** Applicants shall have all statutory compliances including but not Limited to Trade licence, GST Registration, PAN etc.
- d) Necessary EOI Fee for an amount of Rs. 10000.00 (Rupees TenThousands only)(Non Refundable) shall be submitted along with the bids through D.D drawn in favor of “West Bengal Electronics Industry Development Corporation Limited – WML Division” from any Schedule Bank payable at Kolkata.
- e) No Consortium is allowed.

4. Terms & Condition

- a) Intending Bidders may download the EOI documents from the website directly www.webel-india.com.
- b) Agreement will be initially valid for a period of two(2) years from the date of empanelment, which may be extended on mutual consent.
- c) EOI Fee must be submitted to Dy Manager (Commercial), West Bengal Electronics Industry Development Corporation Ltd – WML Division, P-1 Taratala Road, Kolkata 700088 under sealed covers on or before the last date of bid submission, otherwise the bid may be rejected. However, WBEIDC will not be held responsible for late delivery or loss of the D.D mailed through post/courier
- d) Bidders who are registered with **SSI** for the **EOI ITEMS** are exempted from deposit of EOI Fees up to the amount equal to their monetary limit. A proof regarding current registration with **SSI** for the **EOI ITEMS** will have to be attached and documented.
- f) Minimum average turnover in the last 3 (three) financial year should be Rs. 10,00,00,000 (Ten) Crores or above. *Supporting Documents to be submitted - copy of audited Financial A/c duly certified by CA/IT Return* is required as proof.
- e) The applicants should have executed atleast one Project in each of the below mentioned Projects for development of MIS and GIS Dashboards in the past 3 financial years. The aggregate value of all the projects should be minimum of Rs.15,00,00,000/- (Rupees Fifteen Crores Only)
1. Agriculture management projects
 2. Watershed Manemgement Projects
 3. Water Resources Information and Mangement
 4. Smartcity Geo-portal- GIS Analytics and Associated Dashboards

Work order copies along with job completion certificate from the customer duly self-attested are to be submitted.

- f) The company should have at present minimum 50 employees on their direct payroll – evidence copy to submit.
- g) *Applicants are* also requested to submit credential viz last 3 years turn over, infrastructure, details of manpower including technical manpower, ***preference of geographical area of operation***, if any, and other facilities.
- h) The organization should have minimum 4 years of experience in directly working with government departments
- i) The organization should have the experience of implementing an IT dashboard development based Govt work of minimum valuation INR 3 Cr.
- j) The organization should have experience of implementing AI and Machine Learning in development of Dashboards for any Government Projects
- k) The organization should have experience of developing and implementing dashboards for minimum 4 direct government orders.
- l) The organization should have past experience of implementing Agriculture / WRIMS / Water shed Management/ Smart city geo portal for state/ central Government agencies. Work order or completion certificate should be duly submitted proving the fact.
- m) Submission of self attested copies of the following documents. The applicant must possess:
 - i. Certificate of incorporation under the Companies Act, 1956/2013, if applicable.
 - ii. PAN Card,
 - iii. Income Tax Certificate or Certified copy of Income Tax Returns for the last three financial years, filed by the Bidder and acknowledged by the Income Tax Department,
 - iv. PF Registration Certificate, if applicable,
 - v. ESI Registration Certificate, if applicable,
 - vi. GST Registration Certificate,
 - vii. Latest GST Returns.

Notice Inviting EOI No. WML/EOI/19-20/0002 Dated 10/9/2019

- viii. Annual Reports for last three financial years Copy of audited Balance sheet & P/L A/c duly certified by CA/IT Return is required as proof.
- ix. Articles of Association and Memorandum of Association of the company/ Partnership Agreement, as applicable.
- x. Trade License.
- xi. CMMI level 3 or higher organization Certificates
- xii. ISO 27001:2013 and ISO 9001:2015 certified

All these certificates must be valid on the date of submission of Application. Copies of all the above certificates, as applicable, must be submitted as part of the eligibility criteria.

- n) The Applicants are required to give a declaration in their respective letter heads that they have not been banned at any point of time by any Government Agency/ Government Department / Public Sector Undertaking (PSU) / Board / Council or similar organization from doing business with such entity. If any Government Agency/ Government Department / PSU / Board / Council or similar organization have banned the applicant in the past, such facts required to be expressly disclosed.
- o) The selected prospective Service Provider may be asked to visit our office in Kolkata for meeting / presentation before / at the time of signing the “Agreement”.

Expression of interest (EOI) along with demand draft and all above mentioned document signed and stamped may please be send through reputed courier / speedpost / by hand to the following address in sealed envelope marked to:

Joy Sen, Dy Manager (Commercial)
**West Bengal Electronics Industry
Development Corporation Limited - WML Division**
(A Govt. of West Bengal Undertaking)
P-1 Taratala Road, Kolkata – 700088
Mobile – 9830385701

APPLICATION FORM

1	Name of the Company	
2	Address of the Company	
3	Director / Partner of the Company	
4	Establishment Year	
5	Contact Person Name & Mob No.	
6	GSTN No.	
7	Area / City/ State	
8	Turnover	2016-2017
		2017-2018
		2018-2019
9	Document Submitted	
	Trade License	
	Certificate of incorporation / Partnership Deed / MOA	
	PAN Card	
	GSTN Registration Certificate	
	Annual report	2016-2017
		2017-2018
		2018-2019
	Latest GST Returns	
	PF Registration Certificate	
	ESI Registration Certificate	
	List of Employees with Qualifications	
	CMMI & ISO Documents	
	Order copies in last 3 years related to subject matter.	