



Govt. of Bihar

Panchayati Raj Department


Notice Inviting request for supply, installation and management of sensors and IOT control unit at ward level piped water supply scheme with real time monitoring on dashboard including report and alert features and 5 years operation and maintenance under Mukhyamantri Gramin Peyjal Nischay Yojna in the district of Sitamarhi.

Ref. No.:01/2020/D.P.R.O. Office Dumra, Sitamarhi E-Tender

Dated:-

1. Proposals are invited for supply, installation and management of sensors and IOT control unit at ward level piped water supply scheme with real time monitoring on dashboard including report and alert features and 5 years operation and maintenance under Mukhyamantri Gramin Peyjal Nischay Yojna in the district of Sitamarhi
2. Detailed Terms of Reference and RFP document can be downloaded from <https://sitamarhi.nic.in>
3. Brief Details for bidding are as below

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|---------------------------------|--|
| Cost of RFP Document | Non Refundable Rs. 5,000/- (Rupees Five Thousand Only) to be paid in the form of DD drawn in favor of District Panchayati Raj Officer payable at Sitamarhi |
| Earnest money deposit | Rs. 1,00,000/- (Rupees One Lakh only) in form of account payee DD/FD/Bankers Cheque, BG from any scheduled Bank Issued within state. |
| Pre-Proposal Meeting | 15.02.2020 at 11:30 A.M. at District Panchayat Raj Officer's Chamber, District Collectorate, Dumra, Sitamarhi |
| Last Date for Submission of Bid | 29.02.2020 at 03:00 P.M at DPRO office Sitamarhi |
| Technical Bid Opening | 13.03.2020 at 03:00 P.M. at DPRO's Chamber, District Collectorate, Dumra, Sitamarhi |


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District Magistrate,
Sitamarhi

Govt. of Bihar
Panchayati Raj Department
REQUEST FOR PROPOSAL (RFP)

For
Supply, Installation and Management

For

- A. Sensors and IOT Control unit at Ward level Piped Water Supply Scheme **(Hardware)**
- B. Real time monitoring of data on Dashboard with report and Alert features **(Software)**

Under

Mukhyamantri Gramin Peyjal Nischay Yojna
(Including Operation and maintenance for 5 years)

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Mukhyamantri Gramin Peyjal Nischay Yojana is being implemented in 270 Gram Panchayats of Sitamarhi district by Panchayati Raj Department, Bihar. Its aim is to provide clean drinking water through piped water supply to every household in rural area.

The Scheme has different components such as Boring, PVC water storage tank with staging, Submersible Motor pump, Rising main and Distribution pipe lines including house connections.

1. Project Objective and Scope of Work

There are about 3799 wards being covered in 17 blocks of Sitamarhi district. Each ward has an average 183 households. Panchayati Raj dept. aims to build and maintain technology based infrastructure that helps to monitor piped water supply at each ward level including operation and maintenance for 5 Years. Following are the requirements for ward level piped water supply monitoring system.

- a. Quantity of Water extracted from borewell per day.
- b. Consistent functionality of each scheme.
- c. Dashboard- To monitor status of above parameters for each ward and prepare ward wise reports of the above facts and figures at district level as well as state level as per requirement.

2. Purpose of RFP

The purpose of this RFP is to select and enter into a contract with a qualified firm for the Supply, Installation, Operations and Maintenance of IOT based ward level Piped Water Schemes within districts.

This RFP is designed to provide interested bidders with sufficient basic information to submit proposals meeting minimum requirements but is not intended to limit a proposal's content or exclude any relevant or essential data.

3. Solution Description

The Overall solution is described in three parts:

The qualifying firm shall provide IOT based solution for Piped Water Supply monitoring at ward level by providing necessary hardware- sensors for Quantity and Quality as per IS specification of water extracted and Control Unit. All the necessary arrangements must be made to send data to their server/centralized server in specific format. All these have to be managed by qualifying firm. There should be provision to store the data in internal memory in case of network non-availability and whenever network is available it should send/upload the saved data to their server such that no data is missed/lost.

The qualifying firm shall develop remote monitoring dashboard and provide access to State, District, Block and Panchayat level officers. The software solution should also generate necessary reports on daily/weekly/monthly and yearly basis and automate the reports availability to concerned officer's

email id. The web based software solution should generate alert notifications to concerned support staff through SMS and eMail.

The qualifying firm shall have necessary support servicing staff at district head quarter to maintain the IOT system functional. The qualifying firm should meet 48 hours of service level agreements (SLA) and within that timeframe either repair or replace the faulty part and make the IOT system functional.

4. Eligibility Criteria

Proposals not complying with minimum eligibility criteria, as enumerated below, will be rejected and will not be considered for evaluation of technical bid. The proposal should adhere to the following minimum eligibility criteria:-

1. The bidder must have proper ISO certificate.
2. The Bidder may be a firm that is a private entity, a state-owned enterprise or Government-owned enterprises.
3. The bidder firm should have a registered number of
 - (i). GSTN where his business is located
 - (ii). Income Tax/PAN number
4. Bidder should have an average annual turnover of at least 1 crore during last 3 consecutive years.
5. Bidder should deposit Rs. 5,000/- (Rupees five thousand only) duly pledged in favor of District Panchayati Raj Officer payable at Biharsharif as RFP fee (Non Refundable).
6. Bidder should submit Bid security (earnest money deposit) to an amount of Rs. 1,00,000/- (Rupees one lakh only) duly pledged in favour of District Panchayati Raj Officer payable at Dumra, Sitamarhi in form as mentioned in clause 6.

5. Number of Proposal

- a. If a bidder submits more than one proposal, such proposals shall be disqualified.
- b. Proposal will remain valid till a period of 180 days after date of submission. The employer will make its best effort to complete negotiations within this period. In case of need, the employer may extend the validity period of their Proposals.

6. Bid Security (Earnest Money Deposit)

- a. The bid security amount Rs. 1,00,000.00 (Rupees One Lakh only) duly pledged in favour of District Panchayatri Raj Officer, payable at Dumra, Sitamarhi shall be in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the scheduled Indian banks issued within state in an acceptable form. The bid security is to remain valid for a period of 225 days.

- b. The Client shall reject any bid not accompanied by appropriate bid security, as non-responsive.
- c. The bid security of the successful Bidder shall be returned as promptly as possible once he has signed the Contract and furnished the required performance security.
- d. Bid securities of the unsuccessful bidders shall be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract to successful bidder.
- e. The bid security may be forfeited:
 - (a). If a Bidder withdraws its bid during the period of bid validity.
 - (b). If the successful Bidder fails to:
 - (i). Sign the Contract within required time frame;
 - (ii). Furnish the performance security.

7. Clarifications and Amendments to RFP Documents

- a. Bidder may request a clarification of any clause of the RFP document up to seven days before the date of Pre-bid meeting. Any request for clarification must be sent in writing to undersigned.
- b. At any time before the submission of Proposals, the Client may, whether at its own initiative, or in response to a clarification requested by a firm, amend the RFP by issuing an addendum. The addendum shall be uploaded on website and will be binding on them. To give Consultants reasonable time in which to take an amendment into account in their Proposals, the Client may at its discretion, if the amendment is substantial, extend the deadline for the RFP submission.

8. Preparation of The Proposal

- a. Bidder's Proposal (the Proposal) will consist of two (2) components
 - (i). **Envelope I:** Bid Security (as mentioned in clause 6), Bid Document Fee, and evidences of proving Technical Eligibility.
 - (ii). **Envelope II:** The Financial Proposal.
- b. Bid Security, Bid Document Fee, evidences of proving Bid Eligibility and Technical Proposal as mentioned in clause 8a. above shall be placed in Envelope I. If the bid security, Bid Document Fee and evidences supporting bid eligibility are found proper, then only financial proposals will be entertained.
- c. The Proposal, as well as all related correspondence exchanged by the bidder and the employer, shall be in English. All reports prepared by the bidder shall also be in English and will be covered with non-disclosure agreement.
- d. The Proposal should include a cover letter signed by person(s) with full authorization to make legally binding contractual (including financial) commitments on behalf of the firm.

9. Award of Proposal

The employer will award the proposal to the bidder whose bid has been determined to be substantially responsive to the RFP and who has offered the lowest price.

Notwithstanding above, the employer reserve the right to accept or reject any bidder, and to cancel the Bidding process and reject all bids, at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidders of the ground for the Employer's action.

10. Time of Completion

The firm have to complete all the construction/installation/testing work within 4 (Four) months. After successful commissioning to the satisfaction of employer 5 years O & M Work will start followed by 30 (Thirty) days of **trial run period**.

11. Penalty for delay

In case of delay in completion of services, a enalty equal to 0.10% of the contract price per day subject to a maximum 10% of the contract value will be imposed and shall be recovered from payments due/performance security. However in case of delay due to reasons beyond the control of the bidder, suitable extension of time will be granted.

12. Action for Deficiency in Services

a. Bidder liability towards the employer

Bidder shall be liable to indemnify the employer for any direct loss or damage accrued or likely to accrue due to deficiency in service rendered by him.

b. Warning/Debarring

In addition to the penalty as mentioned in para 11, warning may be issued to the erring bidder for minor deficiencies. In the case of major deficiencies in the execution of the work involving time and cost overrun and adverse effect on reputation of employer, other penal action including forfeit the performance security, Blacklisting debarring for certain period may also be initiated as per policy of employer.

13. Release of Security Deposit

Security deposit will return after 6 months after completion of O & M period and after the satisfaction of employer as well as after recovery of any dues.

14. Performance Security Deposit

The bidder will furnish within 10 days of the issue of Letter of Acceptance (LOA), an unconditional Bank Guarantee/Fixed Deposits/Other liquid deposits duly pledged in favour of District Panchayati Raj Officer, payable at State Bank Of India, Dumra, Sitamarhi from any scheduled Bank within state for an amount **equal to 2% of the Contract amount** towards Performance Security valid for a period of Six months beyond the date of completion of 5 (Five) years O & M period.

- I. Financial Bid is opened to only those bidder who fulfills the clauses as Mentioned in clause 4 of eligible Criteria. Bidder is advised to quote their price in words also. In case of any discrepancy price quoted in word will acceptable.
- II. While bidding, the bidder firm shall mention

1. Supplied material,
 2. Freight/transportation charge,
 3. Pre installation visit charge,
 4. Installation charge,
 5. Mechanical enclosure cost (to protect the device from rain and dust) etc.
- b. Opex (Operational Expense) shall cover
1. Data charge,
 2. Server charge,
 3. Warranty replacements,
 4. Support manpower cost,
 5. Logistics cost etc.

The rate should inclusive of all taxes including GST, duties etc and time to time changes in any taxes by Government will also adherent.

15. Payment Terms

- a. The Payment shall be made to bidder on quarterly basis. The Annual Maintenance period will start after the complete commissioning and functionality of IOT device and after 30 days to trial and run period.
- b. **Breakup**
- 10% of the contract amount shall be paid as mobilization advance on issue of LOI/LOA against bank guarantee valid for period of its adjustment in next three stage payments @ 3% 3% and 4% each.
 - 10% of the contract amount shall be paid after completion of 25% of installations & operation.
 - 15% of the contract amount shall be paid after completion of 50% of installation & operations.
 - 20% of the contract amount shall be paid after completion of 75% of installation & operations.
 - 20% of the contract amount shall be paid after completion of 100% installation & operations.
 - 7% each year towards successful maintenance for 5 years on quarterly basis.

Dispute of any form shall be heard and decided by District Collector, Dumra, Sitamarhi.


District Magistrate,
Sitamarhi