



## HYDERABAD METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

### INVITATION TO e'TENDER

e'tender No.72(3<sup>rd</sup> call) /CGM(E)/Rev.Cir./AMR-SWC/2015-16, Dated:15-03-2016.

HMWSSB invites Bids from interested firms (Single Entities, Consortium / Authorized Dealers / Suppliers) for supply, installation, testing, commissioning and on site Comprehensive Annual Maintenance(CAM) for five years of clear water meters of sizes ranging from **25mm to 300mm dia.** conforming to ISO : 4064, Class-'B' standard with its latest amendments (or) IS :779 (or) IS 2373 with its latest amendments which have ISI/EEC certification mark with Automatic Meter Reading (AMR) with GSM technology of about **979nos.** CONNECTIONS IN HMWSSB's Jurisdiction under various O&M DIVISIONS (**Remote meter reading over GSM with GPRS communication technology seamlessly sending data directly to HMWSSB's existing AMR meters Server SIDE SOFTWARE MODULE from AMR meter (Or) can send data to HMWSSB Revenue Billing and other Modules as per HMWSSB requirement though web service duly maintaining the server at the vendor end.**

#### 1.0 The bidder shall meet the following qualifying criteria:

- i. The bidder /consortium partner shall be in the business of executing automatic metering solutions for potable water sector in any two years in the recent past **10 years block period.**
- ii. Bidder /consortium partner shall have past experience in Projects of experience with a proven technology for a minimum of **245 nos.AMR meters with GSM** technology (not less than 25mm dia size) conforming to ISO: 4064, Class 'B' standard or IS 779 or IS 2373 in one or more contracts added together in any two years in the past **Ten** years.(specified financial years i.e., they should be immediately preceding the financial year in which tenders are invited) .
- iii. The bidder /consortium partner shall have an annual turnover of minimum **Rs:122.50 Lakhs** in any one year, during the period of past **ten** financial years.(specified financial years i.e., they should be immediately preceding the financial year in which tenders are invited) C.A. certified balance sheets should be furnished along with necessaries.
- iv. The bidder / Consortium partner shall have past experience in Projects of experience with a similar technology for a **minimum of 15 months period as successful completion of annual maintenance** for AMR meters in one or more contracts added together in the past ten years block period.

**Note:** a) The above prime conditions shall be satisfied by the bidder or any one partner of the consortium.



- b) Tenderers will have to state clearly their willingness to execute the works at the **percentage excess or less** or at par over the Estimate Contract Value indicated at Schedule-'A'. A higher class contractor is allowed to tender for works falling in lower class without getting himself registered in the lower category.

## 2.0 Scope of works to be carried out under this contract.

- i. Supplying, installation, testing, commissioning and on site Comprehensive Annual Maintenance (CAM) basis of clear water meters of **979 nos.**(CANs) which varies in sizes from **25mm to 300mm dia.** conforming to ISO : 4064, Class-'B' standard with its latest amendments or IS :779 or IS 2373 with latest amendments which have ISI/EEC certification mark with Automatic Meter Reading (AMR) with GSM technology. Meters are to be fixed at consumer premises and shall enable Remote meter reading over GSM with GPRS communication technology seamlessly sending data directly to HMWSSB's existing AMR meters Server **SIDE SOFTWARE MODULE** kept at HMWSSB data centre from AMR meter (OR) **though web service duly maintaining the server at the vendor end.** The data shall be integrated with existing revenue billing system data base in the specified formats by the HMWSSB officials. As GPRS is faster and cheaper as well as permits real time data acquisition when required. Hence, GPRS should be the default method of data transfer with automatic feed back by SMS in case of GPRS failure. The default communication method should be GPRS; in case of GPRS failure (low signal level) SMS communication should be used.
- ii. All components like GSM modem, AMR unit and Meter should conform to IP68 if they are integrated in a single unit. In case GSM modem/ End unit is designed separately from AMR meter they should conform to minimum of IP67 protection class.
- iii. If GSM modem / End unit is proposed separately from the AMR meter the communications between meter and GSM modem/ end unit must be wireless. If integrated AMR meter is proposed then Meter, AMR unit and GSM modem can connect together with or without wire and no wire should be exposed outside.
- iv. **Design of suitable software, frequency range of AMR meters and suitable mechanism for transferring the data from Meter to end unit and then to Central Server of HMWSSB.**
- v. Capturing of Meter Readings (data collected) from AMR unit to HMWSSB's existing AMR meters central server available at Head Office, Khairatabad, Hyderabad directly (Or) **to RBS server by web services from vendor server.**
- vi. The AMR unit shall be provided with backup battery working and maintained for a minimum period of Five (5) years.
- vii. Repairs & construction of meter chambers with RCC and tamper proof MS cover including lock & key arrangement as per specifications at **979 nos.** locations are included. Meter chambers are to be constructed for all pipe sizes and for pipe sizes 50mm and above either separate or combined meter strainer chambers are also to be constructed.
- viii. The agency is required to establish a local office (service centre) for attending day to day work.
- ix. The agency is required to place at least two (2) nos.of Software Engineers with suitable qualifications at HMWSSB's Office, Hyderabad to monitor & analysis of meter



- reports of day to day work.
- x. The AMR meters are to be maintained (on site Comprehensive annual Maintenance) for a period of **five (5) years** after successfully commissioning of AMR metering system, ie supplying, installing, testing & commissioning of AMR metering system with an initial **Twelve (12) months period**.
  - xi. The agency is required to take sufficient protective measures for the safety of the AMR meters and other accessories provided under the contract.
  - xii. The agency is required to generate hourly basis daily, weekly, monthly reports as prescribed by HMWSSB officials. Formats shall be Tab / Comma separated value.
  - xiii. The successful tenderer is required to impart training to HMWSSB's departmental staff during the maintenance period.
  - xiv. The bidder is requested to quote capital cost of AMR meters & Cost for on site Comprehensive annual Maintenance for each unit competitively for five years including the necessary required items as per scope of work at site conditions.
  - xv. The agency shall provide AMR meters of one manufacturer's make for a particular size with the specifications mentioned in tender document but all meters shall be integrated with the existing software module of HMWSSB (OR) to the server of vendor.
  - xvi. AMR meters including all necessary ancillaries such as Meter interface unit etc shall be erected at a time without any time lag in between.
  - xvii. The above work is being taken up under **"DCW-SWC (AMR meters cost) & also partly initially met from Board Funds"** and to be executed for the HMWSSB on the basis of LS Tender percentage basis.
  - xviii. The bidder shall quote uniform rate for entire five years contract period.
  - xix. The bidder shall quote Cost towards recovery of Capital Cost of AMR meters, strainers (wherever required) & cost for onsite comprehensive annual maintenance for five years including monthly consumption reports for all metered CANs, construction of meter and strainer chambers where ever required as per specifications with lock & key arrangements etc., including all taxes & duties etc complete.
  - xx. The rate quoted for L.S. tender on percentage basis is final and the bidder will be eligible for proportionate quoted percentage rate to each size of AMR meter or rounding off to nearest rupee only for entire quantity and also in future to be added quantities as per NIT bid provisions.
  - xxi. **Inspection & Testing:**
    - a) The contractor shall arrange the inspection of manufacturer's factory premises to the Officials of HMWSSB of AMR meters project of HMWSSB/Quality Control officials of HMWSSB/any Third Party Inspection agency appointed by HMWSSB to inspect the water meters and other material at manufacturing premises and to witness the required tests as per Specifications and as per standard tests (ISO standards etc;) as applicable for water meters with their own cost, if required by the Board.
    - b) The contractor shall be responsible to arrange the inspection at Manufacturers Premises for a minimum number of two officers for inspection call at their own cost.

### **3.0 SCHEDULE OF IMPORTANT DATES FOR THE BID :**



Issue of Bid Documents ie down load start from e'procurement platform ie <a href="http://www.eprocurement.gov.in">www.eprocurement.gov.in</a>	15-03- 2016 @ 02.00PM
Last date for submission of Bids through on-line	01-04-2016 @ 3.00PM
Technical bid opening date & time	01-04 -2016 @3.30PM
Price bid opening date & time	After completion of technical bid evaluation and should be approved by tender committee tentavely on or after 11-04-2016 @3.30PM.

- a) Further details can be obtained from the office of the Chief General Manager (Engg.), Revenue Circle, HMWS&SB, Khairatabad, Hyderabad- 500004, during office working hours.
- b) All those bidders who are interested to participate through e'bidning for the subject work can participate in the pre-bid meeting to seek clarifications on the bid, if any.
- c) Technical Bids shall be accompanied by proof of Eligibility.
- d) Hard copies shall be accompanied by Earnest Money Deposit (EMD) of **Rs:4,90,300=00** (Rupees :Four lakh Ninety Thousand and Three hundred only) in the form of DD / BG drawn in favour of HMWSSB, Hyderabad. The same shall be uploaded through on-line with e'procurement platform and EMD in original shall be enclosed in a sealed cover at the time of submission of hard copies to the tender inviting authority before opening date & time of price bid.
- e) HMWSSB reserves the right to reject, cancel at any time any or all Bids with out assigning any reasons thereof.

