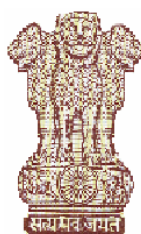


**Government of Meghalaya  
Office of the Chief Engineer, PHE,  
Meghalaya : : Shillong**



**Supply of Water Meters  
conforming to IS 779 (Latest Amendment )  
or ISO 4064: 1993**

**Bid Document**

**(Instructions to Bidders, Bid Form, General Conditions,  
Special Conditions, Technical Specifications, etc.. )**

**September, 2019**

**Government of Meghalaya  
Office of the Chief Engineer, PHE.,  
Meghalaya, Shillong : 793 001**


No.CE/PHE/TB:49/2017-18/24

Dated the 30<sup>th</sup> August 2019

**Quotation Notice**

Sealed Quotations affixing non-refundable Court Fee Stamp of ₹ 1,000.00 (Rupees One thousand) only is hereby invited from reputed Manufacturers for Supply of Water Meters (Item Rate Contract) ISI Marked, Different Sizes conforming to IS 779 (Latest Amendment ) or ISO 4064: 1993 for the year 2019-2020 and shall be received upto 15:00 Hr. of 01.10.2019 in the office of the Undermentioned.

The Detailed Quotation Notice may be obtained from the Office of the Undermentioned on application and on payment of ₹ 1,000.00 (Rupees One Thousand) only in cash on any working days upto 15:00 Hrs. of 30.09.2019.

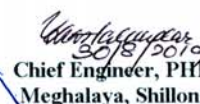
  
30/8/2019  
Chief Engineer, PHE.,  
Meghalaya, Shillong.

Memo No.CE/PHE/TB:49/2017-18/24 'A'

Dated the 30<sup>th</sup> August 2019

Copy to :

1. The Principal Secretary to the Govt. of Meghalaya, PHE Department, Shillong for favour of information.
2. The DIPR, Meghalaya, Shillong for information with a request to arrange for publication of the same in one English local daily and one Khasi/Garo local daily newspaper. 4 (Four) spare copies are enclosed herewith.
3. The SIO, NIC for information with a request for hoisting the Quotation in the Meghalaya website.
4. The Chief Engineer, MWSSO, Environment & Sanitation, Meghalaya, Shillong for information and wide publicity.
5. The Addl. Chief Engineer, PHE., Zone-I, Shillong/Zone-II, Garo Hills, Tura/Zone-III, Shillong/Planning & Monitoring Cell, Shillong for information and wide publicity.
6. The Superintending Engineer (PHE), G.S. Circle, Shillong/Rural Circle, Shillong/Tura Circle, Tura/Simsangiri Circle, Williamnagar/Electrical Circle, Shillong/Ri-Bhoi Circle, Nongpoh for information and wide publicity.
7. The Executive Engineer (PHE), Electrical Division, Mawphlang/ Shillong/ Jowai ; GSWS Division I/ GSWS Division II ; Nongstoin Division ; Mawkyrwat Division ; Mairang Division ; Sohra Division ; S & D Division ; Hills Division ; Investigation Division ; RWS Division Jowai; Umsning Division ; Nongpoh Division ; Tura Division ; Tura North Division ; Ampati Division ; Baghmara Division ; Simsangirri Division & Resubelpara Division for information and wide publicity.
8. Notice Board.

  
30/8/2019  
Chief Engineer, PHE.,  
Meghalaya, Shillong.

## I. Detailed Specifications, Terms and Conditions of Tender Invited vide Quotation Notice No.CE/PHE/TB:49/2017-18/24, Dated the 30<sup>th</sup> August 2019

- Name of work : Supply of Water Meters (Item Rate Contract) ISI Marked, Different Sizes conforming to IS 779 (Latest Amendment) or ISO 4064: 1993
- Eligibility : Reputed Manufacturers.
- Date of sale of tender paper : Detailed Quotation Notice may be obtained from the Office of the Undermentioned on application and on payment of ₹ 1,000.00 (Rupees One Thousand) only in cash on any working days upto 15:00 Hrs. of 30.09.2019.
- Bid Security : ₹ 1,00,000.00 (Rupees One Lakh) only in the form of FDR.
- Date of Opening of tender paper : Quotation shall be received upto 15:00 Hrs. of 01.10.2019 and shall be opened at 15:00 Hrs. of 01.10.2019 in the presence of the Quotationer(s) or their authorized representatives who would like to be present.

## II. Eligibility Criteria.

### 2.1 History of Non-Performance of Contract.

Sl. No.	Particulars	Criteria/ Requirement
a	History of non-performing contracts	Non-performance of a contract did not occur within the last 3 (Three) years prior to the deadline for application submission, based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract, and where all appeal instances available to the bidder have been exhausted

### 2.2 Financial Situation

Sl. No.	Particulars	Criteria/ Requirement
a	History of Financial Performance	Submission of audited balance sheets for the last 3 (Three) years i.e. 2016-17, 2017-18 & 2018-19 to demonstrate the current soundness of the bidders financial position and its prospective long term profitability.
b	Annual Turnover	Annual Turnover of ₹ 5.00 Crore each for the last 3 (Three) years from 2016-17, 2017-18 & 2018-19 of Water Meters alone.

### 2.3 Experience

Sl. No.	Particulars	Criteria/ Requirement
a	General Production Experience	<p>(i) Should demonstrate to have registration with Govt. approved inspection agency like DGS &amp; D besides having valid license issued by Bureau of Indian Standards (BIS) for a minimum period of 5 (Five) years to manufacture/produce Water Meters of diameter 15mm to 600mm as per IS 779 (latest amendment) or ISO 4064:1993. Should provide certificate from the concerned agency to ensure that the installed capacity of the factory alongwith the size range is sufficient to cater the tendered quantity.</p> <p>(ii) Should demonstrate the authority to put standard marks of Bureau of Indian Standards on pipes by obtaining a certification marks licence, as per ISO 4064:1993 by Bureau of Indian Standards.</p> <p>(iii) Should demonstrate 5 (Five) years experience in manufacturing the entire range of Water Meters of Diameter 15mm to 1000mm as per IS 4064:1993.</p>

Sl. No.	Particulars	Criteria/ Requirement
c.	Debarment Experience	A declaration in the form of Affidavit on a non-judicial stamp paper of ₹ 10.00 duly affirmed before a Notary Public/1 <sup>st</sup> Class Magistrate should be submitted as per format given in Proforma I, Section VIII stating clearly that on the date of submission of the tender, the applicant is not debarred/delisted/disallowed/ blacklisted for supply of Water Meters to any Govt. Deptt. /Govt. Undertaking / Statutory Body / Municipality/ Municipal corporation in India. If any such incident is otherwise discovered, the applicants tender/ Order shall be cancelled summarily without assigning any reason whatsoever.

**NB :** *In the event of Non-Production of valid documents by the Bidders, against Sl. a; b &c above, the Bid of the Bidders will be summarily rejected without assigning any reason thereof.*

### III. Terms & Conditions :

3.1 Reputed Manufacturers having valid BIS/MID Certification are entitled to quote for the work.

3.2 The Quotation must be affixed with non-refundable Court Fee Stamp ₹ 1,000.00 (Rupees One Thousand) only purchased in Meghalaya without which no quotations will be considered.

3.3 The rates should be quoted for delivery at PHE Stores and the materials are to be supplied to different Divisional stores under the Department.

3.4 The quoted rate for each item should be inclusive of GST & Other Charges, packing, handling, insurance charges etc., safe and secured delivery including loading and unloading at both ends without any extra charges, FOR destination.

3.5 All rates must be quoted in English language, both in figure and in words and in case there is any discrepancy between the rates in figures and in words, the rates in words shall be considered as the correct one.

3.6 The Accepted Rates must be valid for a period of 24 (Twenty Four) months from the date of Approval. The Employer reserves the right to extend the validity of offered rates for a further period as necessary for which no claim shall be entertained.

3.7 The Quotationer(s) should also enclose the upto date Sales Tax Clearance Certificate /Income Tax Clearance Certificate/Professional Clearance Certificate/Meghalaya Finance (Sale Tax) Registration Certificate/GST Registration No. failing which quotation will not be considered.

3.8 The Quotationer(s) should furnish his/her full name and address, Registration No. etc. on the body of the tender itself.

3.9 Bidder shall submit an undertaking in their letterhead to the Department that input tax credits reimbursed to them as per GST regime has been considered while quoting the rate.

3.10 Over writing or cancellation in the Quotation, should bear the Signature of the Quotationer(s).

3.11 Every page of the Quotation must be signed by the Quotationer(s).

3.12 The Name of the work should be superscribed on the body of the Sealed Cover containing the Quotation.

3.13 The Chief Engineer reserves the right to reject any or all the Quotations received without assigning any reason thereof and also reserves the right to accept any quotations in full or in part.

3.14 The PHE Department/Purchase Board does not bind itself to accept the lowest rate and reserves the right to offer the lowest rates to any or all the Quotationer(s) without assigning any reason thereof.

3.15 Payment shall be made after receipt of the materials in good condition duly verified by the responsible officer of the Department as per specifications to be mentioned in the supply order.

3.16 The acceptance of quotation in part only shall not effect the liability of the Quotationer(s) for due performance of the supply.

3.17 The Department shall at any time entitles to cancel, increase or decrease the quantity of materials ordered, without any claim of compensation from the Quotationer(s).

3.18 The materials offered shall be as per relevant Indian Standard Specifications with latest amendments. The Quotationer(s) should limit their offer for materials bearing ISI Certifications mark only. Quotationer(s) are required to supply sample of each item if directed by the Department. Quotations with incomplete/doubtful specifications will be summarily rejected.

3.19 The selected suppliers shall have to furnish necessary test certificate from the manufacturer for the materials supplied if the Department is in doubt about quality and desired so.

3.20 The selected supplier will have to replace defective materials if found and detected after supply, free of cost including all other charges.

3.21 Failure on the part of the selected supplier to comply with any of the conditions of the supply order will empower the Department to forfeit the security deposit of the supplier and subsequent cancellation of Supply Order.

3.22 The Quotationer(s) having quoted the lowest rate if refuses to carry out the work as per the lowest quoted rate shall be liable to the forfeiture of security deposit as also cancellation of registration in the department.

3.23 In case of any dispute between the supplier and the consignee the decision of the Chief Engineer shall be final and binding on all concerned.

3.24 The Department will not entertain any claim for enhancement of rate thereof once accepted.

#### **IV. Technical Specification for Mechanical type wireless AMR Compatible Residential Water Meters**

**Short Description:** The water meters from 15mm to 1000mm sizes shall be compatible with wireless AMR technology and that it must be magnetically coupled, multijet, inferential type dry dial, IP 68 class protection, Class B water meters with nuts and nipples, manufactured in accordance with ISO 4064 standard and as per IS:779. The meter shall be fully AMR ready when retrofitted with AMR module. The meter manufacturer must also have the necessary software to make it fully AMR functional. The meter manufacturer must give 5 (Five) years warranty for the meters to be supplied.

**Detailed Description:** The wireless AMR compatible water meters must be manufactured as per ISO 4064:1993 standard and shall conform to IS:779 (latest amendment), shall be tested at FCRI, Palakkad for performance test and endurance test. On successful testing of samples at FCRI, the supply as per provisions of IS, from the ready lot shall be accepted. The cost of testing at FCRI shall be borne by the manufacturer which can be added to cost of meters while submitting bid. The meters shall be complete with fittings and in built strainer and duly sealed with copper wire to protect against tampering. The supplier shall provide documents to establish the fact that they have already supplied more than 30,000 similar AMR compatible meters before the date of this tender. The meter shall have a valid BIS/MID certification and the manufacturer must submit valid FCRI test certificate with their bids.

##### **Material of construction:**

2.4 The manufacturer shall provide specific details of materials used for various parts of the meter which must meet the specifications for the material of construction of the individual parts of the meter as per IS:779 (latest amendment) or ISO 4064:1993.

2.5 The body of the meter shall be either Brass or Bronze. The Firm shall specifically mention in the offer the material used in manufacturing. Material that come in contact with the water supply shall withstand 2 ppm parts per million) of chlorine residual in the water supply and shall be resistant to corrosion.

2.6 The water meter and accessories shall be manufactured from materials of adequate strength and durability. The materials, which come in contact with the potable water, shall not create a toxic hazard, shall not support microbial growth and shall not give rise to unpleasant taste or discoloration in the water supply.

2.7 The spindle and bearings inside the hydraulic chamber shall be made of polished stainless steel with hard metal tip/sapphire.

2.8 The internal pressure cup shall be made of low ferrous brass not exceeding 0.02% Fe contents/Engineering plastic. Furthermore the internal pressure cup should overlap the meter body.

2.9 The lower case of the meter shall be extremely painted with thermal painting. The painting materials should be safe for human uses and not affect human health. The painting colour shall be decided in consultation with the department after order of award.

2.10 Variation in weight of the meter will be permissible to  $\pm 5\%$  of the weight indicated by the bidder in their technical bid.

2.11 Each meter should be supplied in separate individual box with its accessories and in house test certificates and warranty card for free repair/replacement for 5 (Five) years from the date of manufacture.

2.12 Supply shall be made strictly as per sample meters including the weight as approved by Board after testing at Fluid Control Research Institute, Palakkad.

## **Markings on the body of the meter:**

### **A. Marking on the dial/cap**

1. Class “B”
2. Multijet
3. BIS code No.
4. As per IS 779 & ISO 4064
5. Brand Name
6. Date of Manufacture
7. Customer Name (Optional)
8. Magnetic type

### **B. Embossing/ engraved on meter body**

1. DN Size
2. Direction of flow of water.

## **Totalizer and Totalizer Shield:**

The totalizer shall be designed in such a way that if the totalizer protective glass is broken for a reason or other, the totalizer cannot be removed from its place. The totalizer protective cover shall be made of sturdy glass or Engineering plastic subject to clear visibility till end of contract period guaranteed by the bidder. The totalizer shall be:

- 2.13 Straight reading type with 5 inline digits.
- 2.14 Shall register in cubic meters
- 2.15 Shall be made of Copper Can (for IP 68).

## **V. Price Schedule**

**5.1** The Bidder shall quote their rates itemwise in the Price Schedule (Section I) FOR Destination anywhere in Meghalaya including GST as well as statutory levies imposed by the State/Central Govt (**Section I: & Section II: Price Schedule**) .

## Section – I

### Price Schedule

#### A. Mechanical Water Meters.

Sl No.	Nominal sizes of pipes	Type	Ex-Works price per meter	Freight & Insurance Charges	GST & Other Levies payable		Total Price per No. FOR Destination (₹)	
					GST	Other Levies (Specify)	In figure	In words
1.	15mm	Domestic Water Meters						
2.	20mm							

Sl No.	Nominal sizes of pipes	Type	Ex-Works price per meter	Freight & Insurance Charges	GST & Other Levies payable		Total Price per No. FOR Destination (₹)	
					GST	Other Levies (Specify)	In figure	In words
1.	25mm	Commercial Water Meters						
2.	32mm							
3.	40mm							



Sl No.	Nominal sizes of pipes	Type	Ex-Works price per meter	Freight & Insurance Charges	GST & Other Levies payable		Total Price per No. FOR Destination (₹)	
					GST	Other Levies (Specify)	In figure	In words
1.	50mm	Bulk Water Meters						
2.	65mm							
3.	80mm							
4.	100mm							
5.	125mm							
6.	150mm							
7.	200mm							
8.	250mm							
9.	300mm							
10.	350mm							
11.	400mm							
12.	450mm							
13.	500mm							
14.	550mm							
15.	600mm							
16.	700mm							
17.	750mm							
18.	800mm							
19.	850mm							
20.	900mm							
21.	950mm							
22.	1000mm							

## Section – II

## Price Schedule

**B. Electro-Magnetic Water Meters.**

Sl No.	Nominal sizes of pipes	Type	Ex-Works price per meter	Freight & Insurance Charges	GST & Other Levies payable		Total Price per No. FOR Destination (₹)	
					GST	Other Levies (Specify)	In figure	In words
1.	15mm	Domestic Water Meters						
2.	20mm							

Sl No.	Nominal sizes of pipes	Type	Ex-Works price per meter	Freight & Insurance Charges	GST & Other Levies payable		Total Price per No. FOR Destination (₹)	
					GST	Other Levies (Specify)	In figure	In words
1.	25mm	Commercial Water Meters						
2.	32mm							
3.	40mm							

Sl No.	Nominal sizes of pipes	Type	Ex-Works price per meter	Freight & Insurance Charges	GST & Other Levies payable		Total Price per No. FOR Destination (₹)	
					GST	Other Levies (Specify)	In figure	In words
1.	50mm	Bulk Water Meters						
2.	65mm							
3.	80mm							
4.	100mm							
5.	125mm							
6.	150mm							
7.	200mm							
8.	250mm							
9.	300mm							
10.	350mm							
11.	400mm							
12.	450mm							
13.	500mm							
14.	550mm							
15.	600mm							
16.	700mm							
17.	750mm							
18.	800mm							
19.	850mm							
20.	900mm							
21.	950mm							
22.	1000mm							

Signature :

Name :

Designation :

Common Seal :