



## **DELHI JAL BOARD**

**NAME OF WORK** – 2nd Expression of interest (EOI) from the manufacturers of 15 mm dia water meters.

**Executive Engineer (Project)W-I**

**DELHI JAL BOARD**

**Room No.511, Varunalaya Phase-I**

**Jhandewalan, Karol Bagh**

**New Delhi – 110 005**

**TENDER DOCUMENT**

**Name of Work.** : 2nd Expression of interest (EOI) from the manufacturers of 15 mm dia water meters.

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**DELHI JAL BOARD: GOVT. OF NCT**

**OFFICE OF THE EXECUTIVE ENGINEER (PROJECT) W – I ROOM**

**NO.511:VARUNALAYA PHASE-I: KAROL BAGH, NEW DELHI-05**

No: F.2 ( )/E.E (Project) W-I/2015

Dated:

**EXPRESSION OF INTREST (EOI)**

On behalf of DJB, EE (Project) W-I invites Expression of Interest (EOI) from the manufacturers of 15 mm dia water meters as per the Delhi Jal Board specifications, for short listing their makes / brands/models, to be used on existing /new water connections.

Last date & time for tender download	: 05.02.2016 up to 2.45 PM
Date of pre-bid meeting	: 08.01.2016 at 4.00 PM
Last date and time for online submission of tender	: 05.02.2016 up to 3.00PM
Date/Time opening of Technical Bid	: 05.02.2015 at 3.05 PM

Note: Makes/Models/Manufacturers' qualifying the EOI invited on 09.05.2015 need not apply again. All other brands / models including those empanelled before 09.05.2015 needs to apply afresh for empanelment. EOI document may be downloaded from DJB website <http://www.delhijalboard.nic.in> .

EE (Project) W-I

Copy to:-

1. Vice Chairman, DJB-for kind information pl.
2. Secy to CEO / Mem.(A) / Mem.(F) / Mem.(WS) / Mem.(Dr.) /Addl. CEO /DOR / CVO. for kind information.
3. C.E.(Projects)W/East/Central/South/West/Planning
4. Dir. (F&A)/S.E (Project) W-I/II/(P)W
5. Jt. Director F&A,I-II,/ Jt. Dir.(Rev.)Hq/ AO (Proj.)/AAO. (Proj).
6. PRO consultant – To Publish in leading News Papers for wide publicity.
7. EE(EDP) for uploading the EOI on DJB wesite.

EE (Project) W-I

## **DELHI JAL BOARD**

### **OFFICE OF THE EXECUTIVE ENGINEER (PROJECT) W-I**

**VARUNALAYA, PHASE-I, JHANDEWALAN, NEW DELHI- 110005**

#### **EXPRESSION OF INTREST (EOI)**

The Delhi Jal Board invites Expression of Interest (EOI) from the manufacturers of 15 mm dia water meters as per the Delhi Jal Board specifications, for short listing their makes / brands/models, to be used on existing /new water connections. Note: Makes/Models/Manufacturers' qualifying the EOI invited on 09.05.2015 need not apply again. All other brands / models including those empanelled before 09.05.2015 needs to apply afresh for empanelment.

- There are about 21Lacs nos of metered water connections all over Delhi. Out of this, about 20 lacs are 15 mm dia water connections. About 10 lacs 15 mm dia water meters are non functional. The water meters are either private or DJB. There are some un-metered connections also in City, since the water meters play vital role in revenue generation of the DJB, it is absolutely necessary to review the entire metering aspects & revamp it in view of the latest technological advancements in metering.
- Expression of Interest therefore, is called by this notice from water meter Manufacturers which will enable the DJB to short list the water meter manufacturers/brands/models, enabling further to formulate & implement the scheme of metering, thereby collecting the revenue as per the actual water consumed by the citizens of Delhi, implementing the schemes & conducting Water Audit, and provide citizens with commendable services.

For selection of makes / brands / manufacturer/models, the demonstration / testing will be carried out and after conducting such demonstration, the DJB may suggest certain modifications. The meter manufacturer shall implement / incorporate all the modifications & suggestions as suggested by the DJB.

#### **PRE-BID MEETING-**

Pre-bid meeting will be held in the chamber of CE (Water) Project, Room no. 12, Varunalya Ph-I, Jhandewalan Delhi. Pre-bid queries may be given in soft copy on or before meeting at email address: [eepw1.djb@nic.in](mailto:eepw1.djb@nic.in), [ee1.djb@gmail.com](mailto:ee1.djb@gmail.com), [se.pwater@yahoo.in](mailto:se.pwater@yahoo.in)

#### **A) WATER METER ELIGIBILITY & SELECTION CRITERIA:-**

The water meter manufacturer shall submit details of meter/ model offered i.e. size, construction material etc., and one sample of each model of water meters for short listing them for further detailed examination / testing.

## **i) WATER METER**

1. The water meter shall be, inferential type, multi jet, magnetically coupled, having dry dial, Class 'B' conforming to IS-779 with up to date amendments or ISO 4064:2005 standards with ISI/EEC/OIML/MID certification mark shall be with protection class of IP-68.
2. Water meter should have been duly tested and passed as per the relevant standards and specifications from Fluid Control Research Institute (FCRI) Kerala or any other approved lab for performance test supported with test certificate. However, DJB will again get it tested from Fluid Control Research Institute (FCRI) Kerala before empanelling.

### **Material of construction:**

- a) 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 meters as per IS 779 (with latest amendments) or ISO 4064: 2005 with latest amendments.
- b) The body of the meter shall be of either Brass or Bronze. The firm shall specifically mention in the offer, the metal 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 supported with test certificate.
- c) 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. However, the spindle and bearings inside the hydraulic chamber shall be made of polished stainless steel with hard metal tip/ sapphire.
- d) The internal pressure cup shall be made of low-ferrous brass not exceeding 0.02% Fe contents / Engineering plastic or any other suitable material to comply with the IS provisions and IP 68 protection class. The case of the meter shall be painted with thermal painting externally & internally. The internal painting materials should be of food grade material / safe for human uses and not affect human health (Health certificates should be included in the bidding documents).
- e) Variation in weight of the meter will be permissible to  $\pm 5\%$  of the weight indicated by the bidder in his technical bid.
- f) Each meter should be supplied in separate individual box with its accessories and test certificates and guarantee card indicating year of manufacture, unique ID by manufacture, date of approval of DJB with validity of the same.

- g) Supply shall be made strictly as per the sample meters including the weight as approved by the Board.
- h) **Markings On The Body Of The Meter:-**
- h) **(a) Marking on dial/ cap.**
- i) Class “B”
  - ii) Multijet/ Model
  - iii) Magnetic Type
  - iv) As per IS: 779 with upto date amendments OR ISO: 4064- with upto date amendments
  - v) ISI OR EEC or OIML Code No.
  - vi) IP-68 compliance
  - vii) Make/Brand
  - viii) Unique ID. / Year of Manufacture.
  - ix) Date of approval of DJB with validity of the same.
- h) **(b) Embossing/ engraved on meter body.**
- i. 15 mm
  - ii. Direction of flow of water on both sides of the body of meter.

## 2.1 **The Totalizer and Totalizer Shield:-**

The totalizer shall be designed in such a way that if the totalizer protective cover is broken for a reason or another the totalizer cannot be removed from its place. Manufacturer may use desired material for their particular model which satisfy the IS provisions and IP 68 protection class and guarantee period of 5 years.

## 2.2 **Totalizer :-**

- A] It shall be of straight reading type
- B] The totalizer shall register in cubic meter units
- C] The totalizer reading should be able to read upto a least count of 1 ltr.
- D] The totalizer shall consist of a row of minimum five on-line consecutive  
Digits to read at least 99,999 m<sup>3</sup>.
- E] Another three digits or pointers shall register flows in litres and be of a different colour.
- F] The totalizer should be of closed type.
- G] The totalizer must be suitable for test on an electronic or mechanical test bench.

H] Totaliser shall be made of copper CAN having appropriate thick mineral glass cover or any other suitable material required to maintain IP 68 protection class and guarantee of 5 years.

I] Meter will be provided with monolithic seal with copper or SS wire.

## **ii). SELECTION CRITERIA:-**

The selection of water meter will be done on the basis of overall documents/certificates and lab testing performance. The sample water meters to undergo Accuracy, Lifecycle / Endurance test & IP-68 class tests at FCRI, Palakkad, Kerala only and the cost of testing to be borne by the bidders. The eligible manufacturers shall be informed in writing, within the period of one month, along with dates for further submission of samples for testing.

**1. Lab Testing:** The lab testing shall include following tests as IS-779 standards. The same will be conducted at FCRI, Palghat.

- j) Accuracy, Lifecycle & Endurance testing of water meters.
- iii) IP 68 testing of water meter.
- iv) Any other test required/ specified by IS.

## **2. Approval and validity –**

**After passing report from FCRI brand and model will be approved for use in DJB with terms and conditions attached initially for a period of three years. After expiry of validity period the manufacturers will have to submit model approval (MAP) from FCRI for each model to be approved for DJB.**

## **NOTE:**

- i) DJB reserves the rights to get the meters tested any time & withdraw the approval accorded.
- ii) The approvals accepted for such additional makes / brand / manufacturer, does not guarantee any business to any water meter manufacturer / firm / institution, by the DJB.
- iii) The approval accorded will be treated as additional facility for the selection of such make / brand / manufacturer, model for the appointed contractors or public for supply and installation of such water meter for future.

## **C) DOCUMENTS TO BE SUBMITTED ALONG WITH THE APPLICATION OF EOI:**

### **In following Sequence:-**

1. Latest ISI OR ISO 9001 Certification of the manufacturer.
2. Name of make & model of water meter, along with technical details, etc.
3. Accuracy class of the water meter along with sizes, for which the manufacturer seek the approval.
4. ISI/ EEC / MID / OIML pattern approval certificates along with validity extension



copies, if the EEC approval certificates are in foreign language other than English, translated version of the same in English to be submitted by the applicant.

5. Confirm that the manufacturer will produce the original certificates of ISI/EEC / MID / OIML for verification by the DJB.
6. Attested Copies of all the applicable Certificates.
7. Company profile / Memorandum of article / Partnership deed.
8. Manufacturing facility details and testing facility details available with them. All supplied water meters to be supplied with a test report.
9. Details of Technical staff & other staff available on permanent establishment with the Co. and the organization structure.
10. Material specifications
11. The experience certificate for similar type of work carried out under any local / Govt bodies if available.
12. Undertaking that his firm is not black listed by any State/Central Govt. /Board or public sector undertaking at the time of submission of EOI.
13. The name and addresses of authorised dealers in Delhi/NCR.

#### **D. SUBMISSION OF EOI:-**

The EOI shall be submitted physically along with the documents cited above (in above sequence) and non-refundable processing fees of Rs. 5,000/- (Rupees Five thousand only) though electronic submission as under:

- i) Bidder shall submit the processing fee amount electronically on or before the last date and time of the bid in DJB A/c No.90231010012261 at Syndicate Bank, Rani Jhansi Road branch, New Delhi (IFSC /RTGS code No SYNB0009023) through bidder's banker. Since the amount is less than Rs. one lac the same may be remitted through NEFT. EOI number shall be inserted before the beneficiary name and date & time of closing of bid should be inserted either before the Bidder's address or Bidder's name as shown below:-

Account No.	90231010012261
Beneficiary Name/in favour of	⟨EOI No.⟩/ ⟨Item No.⟩ Delhi Jal Board
Bidder's name	⟨Date and time of closing⟩ Bidder's name
Address	⟨Bidder's address⟩

- ii) The bidders having their account with any branch of Syndicate bank should contact Syndicate Bank Rani Jhansi Road on phone no. 23613994, Mobile No.9968309023 and Fax no. 23528976 to ensure submission of processing fee in correct Syndicate Bank accounts.
- iii) Processing fee received without complying with above instructions shall be liable for rejection.”

The offers shall be received on stipulated date & in time. After scrutinizing the same, the offers confirming to the aforesaid criteria shall be treated as 'Responsive' offers & it shall be communicated to them, for further processing & giving demonstration / testing, etc, as mentioned in EOI.

**NOTE:**

The processing fee above is non refundable and non transferable.

***EOI may be downloaded from Web Site <http://www.delhijalboard.nic.in> and attaching the relevant documents as mentioned above and submit the same along with one sample water meter, manually in the office of EE(Project)W-I, Room No.511, Varunalaya, Phase-I.***

The eligible manufacturers shall be informed in writing/ by mail, within the period of One month, along with dates for further demonstration, testing, etc.

The DJB reserves the right to reject all or any offers without assigning any reason thereof.

**Executive Engineer (Project) W- I**

## TERMS & CONDITIONS OF EMPANELMENT

Besides qualifying by submitting complete application with sample meter & successful testing of submitted sample at FCRI, all the brand/ manufacturer will be required to comply with following conditions before empanelment:-

1 All meters will be given guarantee for a minimum period of 5 years from the date of selling. Each Guarantee card will indicate address/ K.No of consumer & unique ID of the meter issued to the purchaser/consumer who will submit a copy of the same to the DJB at the time of installation.

2 Manufacturer will provide list of its authorised dealers/ retailers and provide authorization letter to DJB.

3. Manufacturer will provide a toll free no. for consumers, where consumer may register their complaints. Manufacturer will also facilitate consumers testing of water meters at designated workshop in Delhi setup by him or in collaboration with other manufacturers/existing labs. A Nominal fixed fee as decided by DJB / as per DJB policy shall only be payable by the consumer to the lab for testing. In case meter is found defective, testing charges deposited by the consumer to the lab shall be refunded and meter repaired/replaced free of cost. Meter shall be brought by the consumer at lab.

4. Manufacturer will enter into agreement with DJB to sell the meters directly or through dealers with in MRP i/c 5 years guarantee. Any violation shall be dealt seriously which will include de-panelling from registration.

5. One sample of each model offered for empanelment is to be submitted alongwith EOI. Technically qualified manufacturers will be informed for submitting 6 samples of each model offered in the office of EE(Proj)W-I. Out of 6 sample meters received, 4 will be sealed in the presence of manufacturer. Sealed sample meters will be handed over to him for sending to FCRI for testing. Cost of testing including transportation will be borne by the manufacturer. After passing of sample meters, the manufacturer will be asked to submit bank guarantee money of Rs. 5.0 lacs valid initially for a period of 5 years. In case of complaints of consumers are not satisfactorily resolved, DJB reserves the right to liquidate BG and attend the same at the risk and cost of manufacturer i/c delisting of the manufacturer.

6. DJB reserves the rights to take the samples from the manufacturing unit/dealer/retailer /installed at site and get the meters tested any time from FCRI during empanelled period.

Executive Engineer (Project) W- I