

BARBADOS WATER AUTHORITY

TENDER FOR THE SUPPLY OF WATER METERS

August 2008

1. GENERAL

- 1.1 The Barbados Water Authority, the sole supplier of potable water to the public of Barbados and with a customer base of 100,000 connections, hereby invites bids for the supply of domestic water meters primarily in order to replace some that have stopped working in the distribution system.

A longer term aim of this invitation is to assist in determining the most suitable meter for the Barbadian environment with a view towards standardisation. Barbados is a coral island where the water is moderately hard and sometimes produces lime scale that can stop the meter. The Authority is also very revenue conscious and is well aware of the negative effects of loss of meter accuracy with age.

All meters are **read manually** on a monthly basis by a team of meter readers who visit the various premises and enter the reading into hand held computerized devices.

Against this background the Authority requests bids for the supply of:

- (a) 8,400 conventional water meters, and
- (b) 3,000 "smart" water meters

- 1.2 For further information please contact the General Manager at the Barbados Water Authority, telephone number 427-3990 between the hours of 8.15 am and 4.30 pm.

2. INSTRUCTIONS TO TENDERERS

2.1 All tenderers must supply the following information in their bids. Failure to provide the information will render the bid void: -

- a. Registration number of company;
- b. Country in which company is registered;
- c. The date on which the company was first incorporated;
- d. A copy of company's Certificate of Incorporation, as evidence that the company is in existence at the date of the bid. Failure to provide the Certificate of Incorporation will render the tender void;
- e. In the case of sole proprietorships or partnerships, the names and addresses of owners must be supplied. If the business is registered under the Registration and Business Names Act, a copy of the registration must be provided.
- f. Tenderers in the case of local companies must enclose clearance certificates from the Director of National Insurance and the Commissioner of Inland Revenue indicating whether or not there are any outstanding payments due to these authorities by the tenderers.
- g. Local tenderers must provide a copy of their VAT Registration Certificate.

- h. Tenders should be submitted in sealed envelopes marked “**Tender for the Supply of Water Meters**” and addressed to:-

**The Chairman
Audit, Finance and Tenders Committee
Barbados Water Authority
Manor Lodge
Green Hill
St Michael**

to reach the office no later than Friday September 26, 2008 at 4.30pm.

- j. Tenders are to be placed in the Tenders Box which is located at the Barbados Water Authority’s office at Manor Lodge, Green Hill, St. Michael.
- k. No Tender will be considered unless it complies with the conditions set out in this notice.
- l. The Barbados Water Authority does not bind itself to accept the lowest or any tender.
- 2.2 All prices must be quoted CIF Barbados or US Dollars. Prices quoted in US dollars will be evaluated using the prevailing exchange rate at the close of the tender.
- 2.3 It is the responsibility of the supplier to make all the necessary arrangements for letters of credit or other credit documents as deemed necessary in order to procure the goods. The Barbados Water Authority will not pay for any such documents.
- 2.4 The BWA reserves the right to refuse any tender for the delivery of goods

and services that does not conform with the requirements of this document.

2.5 The successful tenderer will be required to enter into a formal contract with the Barbados Water Authority.

2.6 Interested bidders may choose to respond via courier to the above address.

3. PERFORMANCE SECURITY

- 3.1 The successful Tenderer shall furnish the performance security in a form acceptable to the BWA within twenty-seven (27) days of the receipt of notification of award from the BWA. The performance security must be in a sum equivalent to ten percent (10%) of the contract price.
- 3.2 The performance security shall be valid for one (1) year after the date for completion of Suppliers obligations, and shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the BWA and shall be in one of the following forms:-
- a. A bank guarantee irrevocable letter of credit, issued by a bank located in the Barbados or abroad, acceptable to the BWA and in the form provided in the Bidding Documents or another form acceptable to the BWA; or
 - b. A cashiers cheque, or certified check payable to the BWA or cash.
- 3.3 The performance security will be discharged by the BWA and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations, including any warranty under the Contract.

SPECIFICATIONS

Conventional Meters

These shall be of **metric registration**, suitable for use in measuring potable domestic cold water, and meeting or exceeding Class C (ISO4064 / BS5728) specifications. The body of the meter must be of **bronze**.

Critical requirements to be met or exceeded are, but not limited to, those listed below:

Quantity	5,300	3,100
Meter Size	½ Inch	¾ Inch
Accuracy	± 2%	± 2%
Maximum Flow Rate (cubic metres/ hour)	3	5
Continuous Flow Rate “ “	1.5	2.5
Transitional Flow Rate “ “	22.5	37.5
Minimum Flow Rate (litres per hour)	15	25
Starting Flow “ “	5.7	5.7
Meter Length	114MM	165MM
Display Resolution	0.0001 m3	0.0001 m3
Maximum Display	9,999 m3	9,999 m3
Working Pressure Rating	16 Bar	16 Bar
End Threads	BS1387	BS1387
Non Return Valve	Yes	Yes

All meters must be painted in **ICI Yellow Seat D1B** or equivalent and included in all Bids should be information on the following:

1. The normal lifespan of the meter being quoted
2. A profile of loss of accuracy over lifespan of meter

Bidders are required to submit a **sample** (unpainted) of each meter being offered.

“Smart” Meters

These shall be of **metric registration** meeting or exceeding Class C (ISO4064 /BS5728) specifications, must be capable of operating unaffected by grit and particulates, and must **not** measure air in instances where the water supply has been interrupted. The measurement of air is a source of irritation to consumers and the Authority is seeking ways of addressing their concerns. As the Authority is also concerned to protect its revenues, these meters must also retain accuracy over their entire lifetime.

The meter can be of **metal or plastic body** but where plastic is used, it must be suitable for tropical outdoor application where there is almost daily sunshine and where climatic temperatures can vary between 25-32 degrees Celsius.

Critical requirements to be met or exceeded include, but are not limited, to those listed below:

Quantity	2,000	1,000
Meter Size	½ Inch	¾ Inch
Accuracy	± 2%	± 2%
Maximum Flow Rate (cubic metres/ hour)	3	5
Continuous Flow Rate “ “	1.5	2.5
Transitional Flow Rate “ “	22.5	37.5
Minimum Flow Rate (litres per hour)	15	25
Starting Flow “ “	5.7	5.7
Meter Length	114MM	165MM
Display Resolution	0.00001 m3	0.00001 m3
Maximum Display	9,999 m3	9,999 m3
Working Pressure Rating	16 Bar	16 Bar
End Threads	BSP Male	BSP Male
Non Return Valve	Yes	Yes

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1. The normal lifespan of the meter being quoted

2. A profile of loss of accuracy over lifespan of meter

Bidders are required to submit a **sample** (unpainted) of each meter being offered.