## Ref. No.: NWSDB/SBD/SUP/Water Meter/FC(5-25 Million)/Ver1

**REVISED ON 24-07-2019**

**THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST**

**REPUBLIC OF SRI LANKA**

**MINISTRY OF CITY PLANNING, WATER SUPPLY AND HIGHER EDUCATION**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND DELIVERY OF …………. Volumetric displacement type**

**………..mm domestic water meters & spare parts**

**CONTRACT No.: ......................................**

**Volume 2**

**REVISED ON 24-07-2019**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**GALLE ROAD**

**RATMALANA**

**SRI LANKA**

**…………………..**

**MONTH & YEAR**

**Volume 1 of Document NWSDB/SBD/SUP/ Water Meter/FC/Ver1**

**Revised on 24-07-2019**

**is a part and parcel of this Bidding Document. This Bidding Document (Volume 2) shall be read in conjunction with the above mentioned Volume 1. Volume 1 of this document is not provided with this Bidding Document and it is available for purchasing at Tenders & Contracts Division, NWSDB, Galle Road, Ratmalana or Tenders & Contracts Division of Respective Regional Support Centres of NWSDB. It is the responsibility of the Bidder to purchase volume 1 of this document.**

* **The Bidding Data is a part of Instructions to Bidders and should be read in conjunction with the Instructions to Bidders.**
* **The Contract Data is a part of General Conditions of Contract and should be read in conjunction with the General Conditions of Contract.**

Revised on 24-07-2019

DOCUMENT ISSUANCE CERTIFICATE

(To be filled at the time of issue by the authorised issuing officer)

1. STANDARD SPECIMEN DOCUMENT NUMBER : NWSDB/SBD/SUP/Water Meter/FC

(5-25Million)/Ver 1

1. CONTRACT NUMBER: …………………………………………………………………

3 a) ISSUED TO : .............................................................................................................…

...........................................................................................................................……….

b) ADDRESS: .................................................................................................................…

................................................................................................................................……

c) TELEPHONE NUMBER: ..............................................................................................

d) FACSIMILE NUMBER: ………………………………………………………………

4. a) TENDER FEE : Rs. …................................. RECEIVED IN CASH/ BANK DRAFT

b) COURIER FEE Rs. ……………………………………………………………………

c) RECEIPT/BANK DRAFT NUMBER: ..........................................................................

5. NUMBER OF COPIES ISSUED : ..............................................………………………...

6. NUMBER OF CANCELLED COPIES ISSUED :. ….............................…………...……

7. CANCELLED COPY FEE : Rs………………….… RECEIVED/NOT RECEIVED

(IN CASH/BANK DRAFT)

8. a) ISSUING OFFICER : ....................................................................................……...…

b) DESIGNATION : .........................................................................................................

c) SIGNATURE : ...............................................................................................................

9. PLACE OF ISSUE : ....…...................................................................................................

10. SEAL : ............................................................................................................................…

11. DATE : .................................................……...... TIME : ......……....................................

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Revised on 15-02-2018

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**CHECKLIST OF SUBMISSIONS**

# CHECKLIST OF SUBMISSIONS

* **Note: Please mark ’Y’ in the cages under the “remarks” column if submissions are made.**

‘N’ or ‘N/A’ should be marked for cases of ‘No submissions’ and ‘not applicable’ respectively.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Reference | | Remark\* |
| (a) | Quality Assurance Certificates for items offered/Bidder. | Page No.  1 - 4 | Clause No.  2.1 (b) |  |
| (b) | Certified copy of business registration | Page No. 1 - 5 | Clause No.  2.1 (d) |  |
| (c) | Documentary evidence to establish eligibility of Bidding. | Page No. 1 – 4, 1- 5 | Clause No. 2.1 |  |
| (d) | Number of samples meters of volumetric type complete with end connections and washers | Page No. 1- 5 | Clause No. 2.1 |  |
| (e) | Documentary evidence to establish qualifications for the performance of the Contract | Page No. 1 - 5, 1-6 | Clause No.2.2 |  |
| (f) | The Bidder’s technical and production capability necessary to perform the Contract | Page No. 1 – 6 | Clause No.  2.2 (b) |  |
| (g) | In the case of a Bidder offering to supply components under the Contract which the Bidder does not manufacture or otherwise produce, authorization by the manufacturer or producer of Goods as his accredited agent. | Page No. 1 - 6 | Clause No.  2.2 (b) |  |
| (h) | The agreement of the Bidder to confirm that the supply will be made in accordance with the Delivery Schedule. | Page No. 1 - 6 | Clause No. 2.2 (b) |  |
| (i) | Documentary evidence to establish that goods offered are from an eligible source and origin | Page No. 1 - 6 | Clause No.3 |  |
| (j) | Certified copy of factory audited report | Page No. 1 - 6 | Clause No.  2.2 (b) |  |
| (k) | Certified copy of Product Catalogue | Page No. 1 - 6 | Clause No.  2.2 (e) |  |
| (l) | End user certificate for the successful performance of the supplied meters. | Page No. 4 – 1 | Clause No.  2.2 (c) |  |
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| (n) | Subsequent Addendum/Addenda (if any) | Page No. 1 - 9 | Clause No. 8 |  |
| (o) | Duly completed section 1 to 12 of Bidding Documents. (Bidder shall fill the Schedule of Particulars, BOQ etc., indicating any deviations to specifications under the corresponding schedule of particulars) | Page No.  1– 10 | Clause No.  10.1 (a) |  |
| (p) | Product Conformity Certificates | Page No.  1 - 11 | Clause No. 10.3 |  |
| (q) | Certified copy of the VAT registration certificate. | Page No. 1 - 12 | Clause No. 11.5 |  |
| (r) | Bid Security | Page No. 1 - 14 | Clause No. 13 |  |
| (s) | Proof of Authorisation | Page No. 1 - 15 | Clause No. 15.3 |  |
| (t) | Certificates of registration of the contract with the registrar of public contracts as per the Act No. 3 of 1987. | Page No.  1-25 | Clause No. 38 |  |
| **Any other document as given below:** | |  |  |  |

Revised on 27-01-2018

**INVITATION FOR BIDS**

**MINISTRY OF CITY PLANNING, WATER SUPPLY AND HIGHER EDUCATION**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**INVITATION FOR BIDS**

**SUPPLY AND DELIVERY OF …………. Volumetric displacement type**

**………..mm domestic water meters & spare parts**

**CONTRACT No.: ………………………………………………**

**--------------------------------------------------------------------------------------------------------------------**

1. The Chairman, Department Procurement Committee, National Water Supply and Drainage Board (NWSDB), Galle Road, Ratmalana, Sri Lanka, on behalf of National Water Supply & Drainage Board (NWSDB) will receive sealed bids for the Supply and Delivery of …………. Volumetric Displacement Type………..mm Domestic Water Meters & Spare Parts up to closing of bids at ……………. hours on …………. .

2. Bids shall be submitted in the documents available at the office of the Assistant General Manager (Tenders and Contracts), National Water Supply & Drainage Board (NWSDB), Galle Road, Ratmalana, Sri Lanka between 09:00 hours to 15:00 hours on normal working days up to ...................................., upon payment of a non refundable fee of Rs. ……………….../= plus applicable VAT.

3. Bidding Documents may be inspected free of charge at the office of the Assistant General Manager (Tenders and Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka.

4. Bidding Documents will be issued only to eligible Bidders or their local accredited agents for Supply and Delivery of …………. Volumetric Displacement Type………..mm Domestic Water Meters & Spare Parts upon production of a letter of request for documents on a business letterhead together with the Certificate of Registration of the Contract as per the Act No. 3 of 1987 with the Registrar of Public Contract.

5. Alternative offers shall not be accepted. Offers with alternative offers in one document will be rejected without assigning reasons.

6. Sealed bids may be either dispatched by registered post or hand delivered to the Assistant General Manager (Tenders & Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka.

7. All Bids shall be accompanied by a bid security of Rupees ………………………….. and the bid security shall be valid up to ………………*(Insert Date)*

8. Bids will be opened immediately after the closing of Bids, at the office of the Assistant General Manager (Tenders and Contracts) NWSDB, Galle Road, Ratmalana, Sri Lanka. Bidders or their authorised representatives may be present at the opening of bids. Late Bids will be rejected.

9. For further details, please contact the Assistant General Manager (Tenders and Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka on telephone number 94 -11-2635885 or 94-- 11-2638999 or facsimile number 94 -11-2635885.

**Chairman,**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

Revised on 16-01-2019

**MINISTRY OF CITY PLANNING, WATER SUPPLY AND HIGHER EDUCATION**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**INVITATION FOR BIDS**

**SUPPLY AND DELIVERY OF …………. Volumetric displacement type**

**………..mm domestic water meters & spare parts**

**CONTRACT No.: ………………………………………………**

1. The Chairman , Project Procurement Committee,…………………………………………………. ……………………………………………………………………..*(Insert Relevant Project Office Address)* on behalf of National Water Supply & Drainage Board (NWSDB) will receive sealed bids for the Supply and Delivery of …………. Volumetric Displacement Type………..mm Domestic Water Meters & Spare Parts up to closing of bids at ……………. hours on …………. .

2. Bids shall be submitted in the documents available at the office of the …………………………………………………………………………………………………….. *(Insert Relevant Project Office Address)*between 09:00 hours to 15:00 hours on normal working days up to ...................................., upon payment of a non refundable fee of Rs. ……………….../= plus applicable VAT.

3. Bidding Documents may be inspected free of charge at the office of The Chairman, Project Procurement Committee,……………………………………………………………………………. …………………………...……………*(Insert Relevant Project Office Address)*

4. Bidding Documents will be issued only to eligible Bidders or their local accredited agents for Supply and Delivery of …………. Volumetric Displacement Type………..mm Domestic Water Meters & Spare Parts upon production of a letter of request for documents on a business letterhead together with the Certificate of Registration of the Contract as per the Act No. 3 of 1987 with the Registrar of Public Contract.

5. Alternative offers shall not be accepted. Offers with alternative offers in one document will be rejected without assigning reasons.

6. Sealed bids may be either dispatched by registered post or hand delivered to The Chairman, Project Procurement Committee, …………………………………………………………………… …………………………………… *(Insert Relevant Project Office Address)*

7. All Bids shall be accompanied by a bid security of Rupees ………………………….. and the bid security shall be valid up to ………………*(Insert Date)*

8. Bids will be opened immediately after the closing of Bids, at the office of The Chairman, Project Procurement Committee,…………………………………………………………………………….. ……………………………………………………. *(Insert Relevant Project Office Address)*Bidders or their authorised representatives may be present at the opening of bids. Late Bids will be rejected.

9. For further details, please contact The Chairman, Project Procurement Committee, ……………………………………………………………………………………………………… *(Insert Relevant Project Office Address)* on telephone number…………………or facsimile number ………………

**Project Director,**

**…………………………………..WSP**

Revised on 16-01-2019

**3. FORM OF BID**

**THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA**

**MINISTRY OF CITY PLANNING, WATER SUPPLY AND HIGHER EDUCATION**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND DELIVERY OF …………. Volumetric displacement type**

**………..mm domestic water meters & spare parts**

**CONTRACT No.: ..............................................**

**FORM OF BID**

The Chairman,

Department of Procurement Committee,

National Water Supply & Drainage Board,

Galle Road,

Ratmalana.

Sri Lanka.

I/We, the undersigned, having authority to sign this Bid and having read and fully acquainted myself/ourselves with the contents of the Information and Instructions to Bidders and Terms and Conditions of Bid and Delivery Schedule pertaining to the above Bid, along with Bills thereto, do hereby undertake to supply the Goods and Services referred to therein, in accordance with the aforesaid Instructions, Terms and Conditions for a total Bid price of foreign currency in United States Dollars (US$)…………………………………………………………………………………………(in words) US $……………………………………………………………………...(in figures) and Sri Lanka Rupees ……………………………………………………………………………… …………………………………………………..………………………………………..……………… (in words) RS. …………………………………….…………………………………………..(in figures) (excluding VAT) The make up of the aforesaid total Bid Price is given in the accompanying Bills of Quantities

I/We confirm that this offer shall be open for acceptance until as given in the Bidding Data and that it will not be withdrawn or revoked prior to that date.

I/We attach hereto the following documents as part of my/our Bid.

1. Duly completed sections 1 to 12 of Bid Documents

2. Documentary evidence to establish eligibility of Bidder.

3. Documentary evidence to Establish qualification to consider for the responsiveness to the contract

4. Documentary evidence to establish that goods are offered from an eligible source and origin.

5. Documentary evidence to establish eligibility of goods offered.

6. Bid Security

7. Documentary evidence to establish qualifications for the performance of the Contract.

8. Bidding Data

9. Duly filled Appendices.

10. Any other document.

Revised on 16-01-2019

I/We declare that the photostat copies of documents and certificates submitted as part of my/our Bid are true copies of such documents and certificates. Also in case of ISO 9001: 2015 certificate(s), and Product Conformity Certificate (s) as listed in the specifications I/we confirm that I/we have verified that the certificate issuing authority has accreditation to issue same and materials offered conform to the ISO 9001 : 2015 certificates and the specified Product Conformity Certificates and other Certificates specified.

I/We further agree to the right of the Board to debar me/us from participating in its future Bids in the event that my/our submitted copies or documents are found to be forged or tampered with.

I/We understand that you are not bound to accept the lowest Bid and that you reserve the right to reject any or all Bids or to accept any part of a Bid without assigning any reasons thereto.

I/We undertake to adhere to the Delivery Schedule given in the Contract Data.

My/Our Bank Reference is as follows: ...........................................................…………..........................

...………..........................................................................................................…………...........................

Signature of Bidder : ....................................................................................……………….......…...

Name of Bidder : ................................................................................………….................

Address : ..............................................................................................………

Capacity : ……………………………………………………………………

Telephone Number : ...............................................................................................………

Facsimile Number : .....................................................................…………........................

Date : ....................................................................................………………

**Witnesses**

1. Signature : ....................................................................................………………

Name :- ................................................................................................………

Address : .................................................................................................………

Capacity : …………………………………………..

2. Signature :.....................................................................................………………

Name :- ................................................................................................………

Address :…………..............................................................................................

Capacity ………………………………………………………

Revised on 16-01-2019

**THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA**

**MINISTRY OF CITY PLANNING, WATER SUPPLY AND HIGHER EDUCATION**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND DELIVERY OF …………. Volumetric displacement type**

**………..mm domestic water meters & spare parts**

**CONTRACT No.: ..............................................**

**FORM OF BID**

The Chairman, Project Procurement Committee,

National Water Supply & Drainage Board,

...........................................................

...........................................................

I/We, the undersigned, having authority to sign this Bid and having read and fully acquainted myself/ourselves with the contents of the Information and Instructions to Bidders and Terms and Conditions of Bid and Delivery Schedule pertaining to the above Bid, along with Bills thereto, do hereby undertake to supply the Goods and Services referred to therein, in accordance with the aforesaid Instructions, Terms and Conditions for a total Bid price of foreign currency in United States Dollars (US$)…………………………………………………………………………………………(in words) US $……………………………………………………………………...(in figures) and Sri Lanka Rupees ……………………………………………………………………………… …………………………………………………..………………………………………..……………… (in words) RS. …………………………………….…………………………………………..(in figures) (excluding VAT) The make up of the aforesaid total Bid Price is given in the accompanying Bills of Quantities

I/We confirm that this offer shall be open for acceptance until as given in the Bidding Data and that it will not be withdrawn or revoked prior to that date.

I/We attach hereto the following documents as part of my/our Bid.

1. Duly completed sections 1 to 12 of Bid Documents

2. Documentary evidence to establish eligibility of Bidder.

3. Documentary evidence to Establish qualification to consider for the responsiveness to the contract

4. Documentary evidence to establish that goods are offered from an eligible source and origin.

5. Documentary evidence to establish eligibility of goods offered.

6. Bid Security

7. Documentary evidence to establish qualifications for the performance of the Contract.

8. Bidding Data

9. Duly filled Appendices.

10. Any other document.

Revised on 16-01-2019

I/We declare that the photostat copies of documents and certificates submitted as part of my/our Bid are true copies of such documents and certificates. Also in case of ISO 9001:2015 certificate(s), and Product Conformity Certificate (s) as listed in the specifications I/we confirm that I/we have verified that the certificate issuing authority has accreditation to issue same and materials offered conform to the ISO 9001 : 2015 certificates and the specified Product Conformity Certificates and other Certificates specified.

I/We further agree to the right of the Board to debar me/us from participating in its future Bids in the event that my/our submitted copies or documents are found to be forged or tampered with.

I/We understand that you are not bound to accept the lowest Bid and that you reserve the right to reject any or all Bids or to accept any part of a Bid without assigning any reasons thereto.

I/We undertake to adhere to the Delivery Schedule given in the Contract Data.

My/Our Bank Reference is as follows: ...........................................................…………..........................

...………..........................................................................................................…………...........................

Signature of Bidder : ....................................................................................……………….......…...

Name of Bidder : ................................................................................………….................

Address : ..............................................................................................………

Capacity : ……………………………………………………………………

Telephone Number : ...............................................................................................………

Facsimile Number : .....................................................................…………........................

Date : ....................................................................................………………

**Witnesses**

1. Signature : ....................................................................................………………

Name :- ................................................................................................………

Address : .................................................................................................………

Capacity : …………………………………………..

2. Signature :.....................................................................................………………

Name :- ................................................................................................………

Address :…………..............................................................................................

Capacity ………………………………………………………

Revised on 16-01-2019

**4. BIDDING DATA**

The Bidding Data is a part of Instructions to Bidders and should be read in conjunction with the Instructions to Bidders.

If there is a discrepancy found in the Instructions to Bidders and the Bidding Data, the Content in the Bidding Data shall supersede the Content in the Instructions to Bidders of This Document.

*(Note: What is typed in italic letters are guide lines to prepare the Bidding Data and they shall be removed after preparation of the Bidding Data.)*

Revised on 16-01-2019

**BIDDING DATA**

*(Please note that the clause numbers given here under are that of Instruction to Bidder)*

**Clause Reference Number**

**Instructions to Bidders**

(1.1) The Supplier is expected to supply the following items of materials

……………..…………………………………………………………………………

……………..…………………………………………………………………………

(2.1j) **Submission of Samples**

Every tenderer shall submit 07 (seven) samples meters of ………mm volumetric type complete with end connections and washers for inspection and testing by National Water Supply & Drainage Board.

All samples shall be well packed in a suitable plastic box, sealed and labeled to facilitate identification.

The samples shall truly represent the meters offered to be supplied under this contract in every aspect. No samples will be returned and the cost of providing samples shall be borne by the tenderers.

2.2. Qualification

2.2 (a) (i) Bidder shall have manufactured and supplied ……………. nos.

…………mm. diameter during last five years out of which ……nos shall be for countries with tropical conditions similar to Sri Lanka (Document evidence to justify shall be submitted)

2.2 (b)

(ii) Financial Capacity of the latest year

Working Capital \*1 + present available credit facilities for the company\*2 + credit facilities exclusively for this contract - 0.1 x current work commitments\*3 > Rs……………\*4

\*1 Working Capital = Current Assets – Current Liabilities

\*2 A letter to prove the availability of credit facilities issued by a Bank

within a month prior to date of closing of Bids.

\*3 current work commitment = work remaining uncompleted

(Documentary evidence to justify shall be submitted)

\*4 *15% of Contract Price*

2.2 (c) End user Certificates

Certificates of performance shall be obtained from end users of countries other than the manufacturing country and forwarded along with the offer.

Such end users should have purchased …….. No. of lots each of which consisting of more than ……….. meters, during the last 05 years.

Revise on 16-01-2019

End user certificates shall contain,

i. Name of the end user

ii. Name of the contact person

iii. Phone number, fax No., e-mail address, web address, etc.

iv. Mail address

v. Name of relevant project/local authority/water authority etc.

vi. Description of the purchases made

vii. Dates purchased

viii. Full details of performance of relevant meters i.e. performance within the specifications, durability, lifetime etc.

Offers not accompanying these certificates shall be considered as substantially non-responsive.

(4) Funds required for this contract is available under ……………………………………

(6.2) The address for the purchase of Bidding Document/ Clarification of Bidding Document is,

Assistant General Manager(Tenders & Contracts),

National Water Supply & Drainage Board(NWSDB),

Galle Road, Ratmalana.

FAX 011 – 2635885 TEL. 011-2635885

(13.2) The amount of Bid Security shall be ........…………………............ Sri Lanka Rupees.

(13.3) The validity of Bid Security shall be up to ………… *(specify the date)*.

(14.1) The period of Bid Validity shall be 91 Days from the date of closing of Bid.

(17.2) (a) The inner and outer envelopes shall be addressed as follows:

The Chairman, Department Procurement Committee,

C/o, Assistant General Manager (Tenders Contracts),

National Water Supply and Drainage Board,

Galle Road, Ratmalana,

Sri Lanka.

c) “Not to be opened before ………(Time) on ………….. (Date)”

(18.1) The Procurement Committee’s address for the purpose of Bid submission (and on behalf of the Board) and Bid opening is;

Department Procurement Committee,

C/o, Assistant General Manager (Tenders Contracts),

National Water Supply and Drainage Board,

Galle Road, Ratmalana,

Sri Lanka.

(18.2) The deadline for submission of Bid

Date:………………………. Time: ……………………………….

Revised on 24-07-2019

* 1. The place for opening of Bids,

Department Procurement Committee,

C/o, Assistant General Manager (Tenders Contracts),

Tenders & Contract Branch,

National Water Supply and Drainage Board,

Galle Road,

Ratmalana,Sri Lanka

(33.2) The prevailing rate of stamp duty on contracts for supply of goods is nil.

(34.1) The amount of Performance Guarantee shall be 10% of the Contract Price.

**BIDDING DATA**

*(Please note that the clause numbers given here under are that of Instruction to Bidder)*

**Clause Reference Number**

**Instructions to Bidders**

(1.1) The Bidder is expected to supply the following items of materials

……………..…………………………………………………………………………

……………..…………………………………………………………………………

(2.1j) **Submission of Samples**

Every tenderer shall submit 07 (seven) samples meters of ………mm volumetric type complete with end connections and washers for inspection and testing by National Water Supply & Drainage Board.

All samples shall be well packed in a suitable plastic box, sealed and labeled to facilitate identification.

The samples shall truly represent the meters offered to be supplied under this contract in every aspect. No samples will be returned and the cost of providing samples shall be borne by the tenderers.

2.2. Qualification

2.2 (a) (i) Manufacturer shall have manufactured and supplied ……………. nos.

…………mm. diameter during last five years out of which …….nos. shall be for countries with tropical conditions similar to Sri Lanka Documentary evidence to justify shall be submitted).

2.2 (b)

(ii) Financial Capacity

Working Capital \*1 + present available credit facilities for the company\*2 + credit facilities exclusively for this contract - 0.1 x current work commitments\*3 > Rs……………\*4

\*1 Working Capital = Current Assets – Current Liabilities

\*2 A letter to prove the availability of credit facilities issued by a Bank

within a month prior to date of closing of Bids.

\*3 current work commitment = work remaining uncompleted

(Documentary evidence to justify shall be submitted)

\*4 *15% of Contract Price*

2.2 (c) End user Certificates

Certificates of performance shall be obtained from end users of countries other than the Country of Origin and forwarded along with the offer.

Such end users should have purchased …….. No. of lots each of which consisting of more than ………….. meters, during the last 05 years.

Revise on 16-01-2019

End user certificates shall contain,

i. Name of the end user

ii. Name of the contact person

iii. Phone number, fax No., e-mail address, web address, etc.

iv. Mail address

v. Name of relevant project/local authority/water authority etc.

vi. Description of the purchases made

vii. Dates purchased

viii. Full details of performance of relevant meters i.e. performance within the specifications, durability, lifetime etc.

Offers not accompanying these certificates shall be considered as substantially non-responsive.

.(4) Funds required for this contract is available under ……………………………………

(6.2) The address for the purchase of Bidding Document/ Clarification of Bidding Document is,

The Chairman, Project Procurement Committee,

National Water Supply & Drainage Board

………………………………..,

………………………………..*.*

FAX ……………. TEL. ……………..

(13.2) The amount of Bid Security shall be ........…………………............ Sri Lanka Rupees.

(13.3) The validity of Bid Security shall be up to ……………………… *(specify the date)*.

(14.1) The period of Bid Validity shall be 91 Days from the date of closing of Bid.

(17.2) (a) The inner and outer envelopes shall be addressed as follows:

The Chairman, Project Procurement Committee,

………………………………..,*(specify the Address)*

………………………………..*.*

c) “Not to be opened before ………(Time) on ………….. (Date)”

(18.1) The Procurement Committee’s address for the purpose of Bid submission (and on behalf of the Board) and Bid opening is;

The Chairman, Project Procurement Committee,

……………………………….., *(specify the Address)*

………………………………..*.*

(18.2) The deadline for submission of Bid

Date:………………………. Time: ……………………………….

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(21.1) The place for opening of Bids,

The Chairman, Project Procurement Committee,

……………………………….., *(specify the Address)*

………………………………..*.*

(33.2) The prevailing rate of stamp duty on contracts for supply of goods is nil.

(34.1) The amount of Performance Guarantee shall be 10% of the Contract Price.

**5 CONTRACT DATA**

* **GENERAL**
* **DELIVERY SCHEDULE**
* **PAYMENT SCHEDULE**

The Contract Data is a part of Conditions of Contract and should be read in conjunction with the General Conditions of Contract.

If there is a discrepancy found in the General Conditions of Contract and the Contract Data, the Content in the Contract Data shall supersede the Content in the General Conditions of Contract.

*(Note: What is given in italic letters are guide lines to prepare the Contract Data and they shall be removed offer preparation of the Contract Data.)*

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Contract Data

*(Please note that the Clause nos. given hereunder are that of Conditions of Contract)*

**Clause Reference Number**

### General Conditions of Contract

1.1 (f) Contract Period is ……….. Days from the date of acceptance of the bid.

1.1 (g) The Employer is

Name: National Water Supply and Drainage Board.

Address: Galle Road, Ratmalana.

1.1 (h) The Engineer is

General Manager,

National Water Supply and Drainage Board.

Galle Road, Ratmalana.

3.2 The Engineer's Representative shall be the (PD/DGM of relevant

RSC) ……………………………………………………………………..

………………………………of the National Water Supply and Drainage Board.

10.2 The Goods shall be delivered at such places, in such quantities and within

such periods as prescribed in the attached Delivery Schedule.

15.2 The validity of warranty shall be 36 months in accordance with the .

& 15.6 General Conditions of Contract

23.1 The amount of Liquidated Damages shall be Rs. ………..…. per Day of delay.

Limit of Liquidated Damages shall not exceed 10% of Contract Price.

31.1 Purchaser’s address for notice purposes shall be as follows:

(a) General Manager,

National Water Supply and Drainage Board,

Galle Road,

Ratmalana,

Sri Lanka.

Facsimile Number: Colombo, 011-2635885

e – Mail : gmnwsdb@sltnet.lk

Supplier’s address for notice purposes shall be as follows:

…………………………………………………………….

…………………………………………………………….

…………………………………………………………….

…………………………………………………………….

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DELIVERY SCHEDULE

[The Purchaser shall fill in this table, with the exception of the column “ Bidder’s offered Delivery date” to be filled by the Bidder]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item  No. | Description of Goods | Quantity | Unit | Final  Destination as specified in Bidding Data *[insert place of Delivery]* | Delivery Date | |
| **Purchaser’s delivery date as per the contract** | **Bidder’s offered Delivery date [to be**  **provided by the bidder]** |
| 01 | Bill No.1 |  |  |  |  |  |
|  |  |  |  |  |  |  |
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**PAYMENT SCHEDULE**

Letter of Credit will be opened by the Purchaser. No Advance payment will be made.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **STAGE OF PAYMENT** | | **STAGE OF CONTRACT** | | **DOCUMENT TO BE SUBMITTED** | **AMOUNT OF PAYMENT** | **REMARKS** |
| **(A) Foreign Payment** | | | | | | |
| 1 | First installment | On shipping the items part or fully | | * Copies of the Supplier’s invoice showing description of Goods, quantity, unit price, total amount and HS Code Number; * 3 copies of clean on-board bill of lading marked freight prepaid. * Copies of packing list identifying contents of each package and measurements * Manufacturer’s warranty certificate as per clause 15 hereof. * Inspection certificates, issued by the Accredited Lab/ Independent inspection agency. * Manufacturer’s Inspection and Test Certificate * Certificate of origin * Certificate of conformity to the standards specified in the specifications. | 75% of foreign component of the items shipped on Letter of Credit. |  |
| 2 | Balance foreign component | Final acceptance by the Engineer based on the delivery testing and passed in test performed and other obligations. | | On production of a Final Acceptance Certificate issued by the Engineer.  Engineer’s Representative’s approval for the balance payment of Foreign Component. | Balance 25% of the foreign component shall be paid. | The total Contract Sum shall become payable within 60 Days from the date of the Engineer’s Final Acceptance Certificate |
| **(B) Local Payment** | | | | | | |
| 3 | First Payment | | On delivery and stacking of the Goods at site/stores, testing and passed in test performed | Document providing the delivered Goods and tests passed in test performed are in compliance with the contract. | 90% of the Local component of the Contract Price less Agents commission and Bank charges | Sri Lanka Rupees  component by a cheque in favour of the supplier. |
| 4 | Balance Local Payment | | Final acceptance by the Engineer for the delivery and other obligations | A written request for balance payment in the form of an invoice based on the BOQ and Engineer’s approval for the payment | 10% of the Local component of the Contract Price less Agent’s commission and remaining Bank charges. | The total Contract Sum shall become payable within 60 Days from the date of the Engineer’s Final Acceptance Certificate. |
| 5 | Agent’s Commission | | On Final Acceptance Certificate. | A written request for the Agent’s Commission and Engineer’s Representative’s approval for the payment | As requested by the Contractor in their offer. |  |

Revised on 24-07-2019

**7. SCHEDULE OF PARTICULARS**

**SCHEDULE OF PARTICULARS**

**NOTES**

1. The bidder shall complete the questionnaire pertaining to the materials which he offers and return it with his tender and shall give all details relevant to the materials offered.

2. All test reports specified by the Board shall be submitted at the time of delivery of materials at the stores and the supply of material shall not be considered as complete for purposes of payment until the material is tested and accepted by the Engineer.

3. The bidder should fill in completely the Questionnaire attached herewith. The tender is liable to be rejected if the required details are not furnished.

1. The bidders are necessarily be required to complete fully the schedule of particulars given in the bidding document for Water Meters
2. where catalogues, technical literature and drawings accompanying the bid, their references should be quoted in the Schedule of Particulars;

6. The bidders are necessarily be required to complete fully the schedule of particulars given in the Bidding document for Water Meters to be supplied under this contract and other fittings & accessories.

7. Where the bidder's specification is not conforming to the minimum specification, the offer will not be accepted;

**FORM 1**

### GENERAL DETAILS OF BIDDER

**Company Name** :

**1. Head Office Address** :

E Mail Address :

Telephone No. Fax No.

**2. Regional Office Address (If any) :**

E Mail Address :

Telephone No. Fax No.

**3. a) Factory Address** :(The factory at which offered meters are manufactured & assembled)

E Mail Address :

Telephone No. Fax No.

1. **Production Capacity**

|  |  |  |
| --- | --- | --- |
| **Factory** | **Size of meter (mm)** | **Annual Production Capacity (Units/Year)** |
|  | 15 |  |
|  | 15 |  |
|  | 15 |  |

1. Outsourced Factory Names & Address(in case some of the parts are outsourced from different manufactures)

**Factory 1.**

Name:

Address :

List of components outsourced to this factory :

1

2.

3.

4.

Web Address, e – mail, telephone, Fax and all contact details :

**Factory 2.**

Name :

Address :

List of components outsourced to this factory :

1

2.

3.

4.

Web Address, e – mail, telephone, Fax and all contact details :

**FORM 2**

**Schedule of Particulars**

**1. Details of Manufacture (Product) Standard & ISO Series Certificate**.

1. Manufacture (Product) Standard

2. Whether Bidder & Subcontractors posses ISO 9001:2015 certificate

Date of issue of the Total Quality Assurance certificate

Date of Expiry

**2** Name & Address of the Inspection Agency who issued the Quality Management System Certificates (ISO 9001:2015)

………………………………………………………………………………………………

………………………………………………………………………………………………

…………………………………………………………………………

E Mail Address :

Telephone No. Fax No.

**3 Name & Address of the Inspection Agency selected for inspection and testing of meters to be supplied under this contract**.

………………………………………………………………………………………………

………………………………………………………………………………………………

E Mail Address :

Telephone No. Fax No.

**4 Name & Address of Local agent (if any) :**

………………………………………………………………………………………………

………………………………………………………………………………………………

E Mail Address :

Telephone No. Fax No.

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**5 Company and Year of incorporation**

**Main line of Business :**

**………………………………………………………………………………………………**

**………………………………………………………………………………………………**

1. Since :
2. Since :
3. Since :
4. Since:

Attach copy of certificate of registration and ownership.

**FORM 3**

## Schedule of Particulars

|  |  |  |
| --- | --- | --- |
| **No.** | **Meter Designation -** | **DN 15** |
| **1.**  **2.**  **3.**  **4.**  **5.**  **6.**  **7.**  **8.**  **9.**  **10.**  **11.**  **12.**  **13.**  **13.**  **14.**  **15.** | Make  Model  Country of Origin  Address of manufacturing factory  Addresses of outsourced factories (for component parts)  Standard to which water meters are Manufactured  Metrological Class  Body materials  Meter thread size  Length of meter  Length of meter with connectors  Thread size of end connections  Maximum working pressure  a). Forward Flow  b). Reverse Flow  Permanent flow rate  Starting flow  Head loss at permanent flow rate |  |

|  |  |  |
| --- | --- | --- |
| **No.** | **Meter Designation** | **DN 15** |
| **16.**  **17.**    **18.**  **19.**  **20.**  **21.**  **22.**  **23.**  **24.**  **25.**  **26.**  **27.**  **28.**  **29.** | Head loss at over load flow rate  Meter reset to zero at  Minimum indicated digit value  Maximum possible working temperature without affecting the meter performance  What types of anti-tamper facility provided?  Is non return valve incorporated?  Is a strainer provided?  Are the markings & inscriptions as per  Specifications  Units of registration  Is certificate of compliance attached.  Are accuracy & Head loss curves attached.  Is delivery periods as per specification  Is the information as per Clause 2.1 provided.   1. Name & Address of Local Agent 2. Indicate facilities (After sales services availability of spare parts & workshop facilities provided by the Local Agent) |  |

**FORM 4**

**DETAILS OF USERS WHO HAVE PURCHASED MORETHAN 5,000 METERS**

|  |  |  |
| --- | --- | --- |
| **METER MANUFACTURER …………………………………….** | | |
| **DOCUMENT EVIDENCE OF FOREIGN END USERS WHO PURCHASED LOTS OF MORE THAN 5,000 METERS DURING LAST 05 YEARS**. | | |
| **1.** | Name of end user |  |
| **2.** | Name of contact person |  |
| **3.** | Contact phone number |  |
| **4.** | Fax No & E – mail address |  |
| **5.** | Address |  |
| **6.** | Name of project/water authority/  Local authority |  |
| **7.** | Location of project/water /local authority |  |
| **8.** | Number of meters purchased |  |
| **9.** | Date of delivery |  |
| **10.** | Date of completion |  |

**FORM 5**

**DETAILS OF CURRENT CONTRACTS**

Applicants should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent has been received, or contracts approaching completion but for which an unqualified, full completion certificate has yet to be issued.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name & Address of Client** | **No. of Meters with outstanding Supply** | | **Value in US Dollars** |
| **Size** | **Quantity – Nos.** |
|  |  |  |  |
|  |  |  |  |
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**8. DEVIATIONS FROM SPECIFICATIONS**

**DEVIATIONS FROM SPECIFICATIONS**

**Preamble**

The bidder is required to list all deviations of materials, production methodology etc. from the Specification including such information as has already been given elsewhere in the bidding Documents. The information shall be in sufficient detail to enable the Purchaser to make a realistic assessment of the effect of such deviations on the performance or life of the materials to be supplied.

**Deviation**

**9. BILLS OF QUANTITIES**

* **Preamble Notes on Pricing**
* **Bills of Quantities**
* **Summary of Bills**

**PREAMBLE NOTES ON PRICING**

1. **General**

1.1 The bidder's attention is specifically directed to the Form of Bid , Instructions to Bidders, Conditions of Contract, Contract Data, Delivery Schedule, Schedule of Particulars and Specifications which are to be read in conjunction with the Bills of Quantities. The following notes are given to assist in pricing the Bills of Quantities and enable the supplier to arrive at the total Bid Price. The Bidder shall insert rates and prices for the supply and delivery of water meters and **water meter** spare parts in strict accordance with the specifications.

2. **Description of Items**

2.1 Descriptions attached to the items in the Bills of Quantities are only in sufficient detail to ensure identification of the work described in the specification.

3. **Rates and prices**

3.1 In pricing the items of the Bills of Quantities, the bidder shall cover himself and will be deemed to have covered himself for:

a) All services and goods which according to the true intent and meaning of the contract may be reasonably inferred as necessary for completion of Supply & Delivery of the goods in sound condition to the Stores which is specified in Contract Data.

b) All the duties, obligations, liabilities and responsibilities which the Contract documents place upon the bidders in connection with or in relation to the Contract.

c) All costs arising out of inspection except inspection as per Clause 8.5 of General Conditions of Contract, testing, packing, transportation, clearing, loading, unloading, stacking, shipping line charges, warehouse rent, any demurrages, Agents Commission if any and other minor expenses.

d)All Costs including all taxes and duties and other charges imposed outside Sri Lanka on raw materials, production, manufacture, sales, transport and any other cost that may be incurred of all goods**.**

e) Import duties, business taxes, income and all other taxes except customs duty and port charges that may be levied in purchaser’s country (Sri Lanka).

f) Cost of accessories not specially listed, but necessary for proper completion.

g) Price charged by the supplier for the preceding incidental services.

h) Custom’ duties, import license fees and port charges levied on the goods supplied under contract shall be directly paid by the Purchaser as per Clause 32.4 of the General Conditions of Contract.

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3.2 Bidder shall include FOB price under Foreign cost and all local costs which are incurred in Sri Lanka including Agency Commission under Local Cost. Freight and Inspection and Testing by Independent Testing Agency shall be included in the summary of Bills.

3.3. FOB, Freight, C&F Agency commission and other Local Cost shall be given in the “Breakdown of summary of Bills “ for Evaluation and payment purposes. “Other Local Cost” means all local expenses excluding agency commission.

3.4 Insurance shall be done by the Purchaser.

3.5 Shipping shall be done as specified in the Clause 37 of Instruction to Bidders.

3.6 Quoted price of spare parts shall be valid for a period of 2 years from the date of award of the Contract.

4. A rate and/or price is to be entered against each item in the Bills of Quantities whether quantities are stated or not. If a bidder does not quote for a item of a bill , the particular bill shall be considered as incomplete and that bill shall not be taken for evaluation.

1. The Bills of Quantities contains Volumetric Displacement Type Water Meters & Spare Parts only.
2. Cost of Inspection and Testing by the Independent Inspection and Testing Agency shall be as per the Clouse 8 of the Conditions of Contract.

7. The rates and/or prices entered against items in the Bills of quantities shall be excluding the VAT as the VAT is considered separately.

Revised on 24-07-2019

**BILL OF QUANTITIES**

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**CONTRACT NO : ……………………………………**

**BILL NO. 1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item No.** | **Description** | **Qty** | **Unit** | **Rate** | | **Amount** | |
| **Foreign**  **Component**  **(FOB)**  **USD** | **Local**  **Component**  **SLRs.** | **Foreign**  **Component**  **(FOB)**  **USD** | **Local**  **Component**  **SLRs.** |
| 1.  2. | Supply & delivery of 15mm (DN 15) Volumetric Displacement type water meters with 2 nos. End-Connectors,2 Nos. Coupling nuts and seals conforming to specifications  Spare parts as mentioned in clause 4 of the specification  (Itemized price list shall be submitted with the bid)  (**Prices for the spare parts should be valid for two years from the date of award of contract)** |  | Nos.  Sets |  |  |  |  |
|  | Total carried forward to summary, Page No 9-4 |  |  |  |  |  |  |

Revised on 24-07-2019

**SUMMARY OF BILL NO. 01**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Unit** | **Amount** | |
| **Page Number** | **Foreign Cost**  **(USD)** | **Local Cost**  **(SL Rs.)** |
| Total of Page No. 9-1 | - |  |  |
| Freight | Sum |  |  |
| Cost of Inspection and testing by Independent Testing & Inspection Agency | Sum |  |  |
| Summary of Bill No 01  Carried to the Page No. 9-6 | - |  |  |

Name of the Inspection Agency : …………………………………………………………..…

…………………………………………………………………………………………………

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

Revised on 24-07-2019

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**BREAK DOWN OF SUMMARY OF BIILS**

|  |  |  |
| --- | --- | --- |
|  | **Amount** | |
| **Foreign Cost**  **(USD)** | **Local Cost**  **(SL Rs.)** |
| FOB (Net) | ……………………… |  |
| Freight | ……………………… |  |
| C&F | ……………………… |  |
| Agency Commission in SL Rupees (as a percentage of or in relation to the FOB Price)  Other Local Cost |  | ...................................  …………………..… |
|  |  |  |

**Note :-** Details given in the page shall not carry forward to the Summary of Bills. This is only a break down for evaluation purposes.

Revised on 24-07-2019

#### NATIONAL WATER SUPPLY AND DRAINAGE BOARD

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**CONTRACT NO. : ……………………………………….**

**SUMMARY OF BIILS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Bill No.** |  | **Amount** | |
| **Foreign cost**  **(USD)** | **Local Cost**  **(SL Rs.)** |
| 01 | Supply and Delivery of ……….. Nos. of Volumetric Displacement type ……… mm. Water Meters and spare parts. |  |  |
|  | Sub Total |  |  |
|  | Less Discount (if any) |  |  |
|  | Total of Bid carried to Form of Bid (excluding VAT) in page no. 3-1. |  |  |

VAT Registration Number:…………………………………………………………………….

(A copy of the VAT registration certificate shall be annexed.)

Note: - The NWSDB VAT Registration No: - 4090 31820 7000

Revised on 24-07-2019

**10. SPECIMEN FORMS**

* **BID SECURITY**
* **CONTRACT AGREEMENT**
* **PERFORMANCE GUARANTEE**

#### LETTER OF ACCEPTANCE

**FORM OF BID SECURITY**

…………………… [*issuing agency’s name, and address of issuing branch or office*]

………………………

………………………..

Beneficiary : Chairman

National Water Supply and Drainage Board

Galle Road, Ratmalana

Date……………… BID SECURITY No : ………………………

We have been informed that …………………………………………………………. [*name of the Bidder ; if joint venture, list* *complete legal names of partners*] (*hereinafter called “the Bidder*”) has submitted to you its bid dated ……………….. [*insert date*] (*hereinafter called “ the Bid*”) for the execution / supply of ………………………………………………………….

.[*name of contract*] under Contract No……………………………… .

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Security.

At the request of the Bidder, we ……………………………………………………….. [*name of issuing agency*] hereby irrevocably under take to pay you any sum or sums not exceeding in total an amount of ………………………. [*amount in figures*] ………………….. ……………………………………….[*amount in words*] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation (s) under the bid conditions, because of the Bidder:

(a). has withdrawn its Bid during the period of bid validity specified ; or

(b). does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter “the ITB” ) or

(c ). having been notified of the acceptance of its Bid by the Employer/ Purchaser during the period of Bid validity , (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Security shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder, or (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the Bidder was unsuccessful, otherwise it will remain in force up to ………………… [*insert date*].

Consequently, any demand of payment under this Security must be received by us the office on or before that date………………………………….

………………………………………………

[*Signature (s) of authorized representative (s)*]

**THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF**

Revised on 27-01-2018

**SRI LANKA**

**MINISTRY OF CITY PLANNING, WATER SUPPLY AND HIGHER EDUCATION**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**CONTRACT No.: ……………………………………**

**CONTRACT AGREEMENT**

Contract Agreement made and entered into between the National Water Supply and Drainage Board, a corporate body duly established under the provisions of the National Water Supply and Drainage Board Law No. 2 of 1974 and having its Head Office at Ratmalana in Sri Lanka (hereinafter sometimes referred to as "the Board") of the one part and Messrs : ………………………………….………………………………………………………………..… ………….....................................................................................................................……………...which duly incorporated under the laws of Democratic Socialist Republic of Sri Lanka and having registered It's office at………………………………………………………………………

………………………………………………………………………………..(hereinafter called "the Supplier" which term of expression shall where the context so requires or admits mean and include its successors and permitted assigns) of the other part.

WHEREAS the Board is desirous of entering into a contract with the Supplier for the supply and installation of ........…………………..................................................................................... ………………………………………….. to ....................................... at locations as specified in the Delivery Schedule and has accepted a Bid by the Supplier for the execution and completion of such works.

AND WHEREAS the Bills of Quantities or Schedule of Rates and Specifications and General Conditions of Contract describing the Works to be done have been prepared by the Board and the same have been signed by the parties hereto.

NOW it is hereby agreed as follows:

Revised on 16-01-2019

1. For the consideration hereinafter mentioned the Supplier shall, upon and subject to the conditions hereto annexed, complete the Works referred to in the said Bills of Quantities or Schedule of Rates and in the said Specifications and Conditions of Contract to the entire satisfaction of the Board on or before the.............................................………………..............................................…….........................................................…..…………………………………………………………………………………………………………………………………..subject to extras, omissions and variations to be determined by the Engineer as hereinafter provided.

2. The said General Conditions of Contract, the said Specifications, the said Bills of Quantities or Schedule of Rates, (a detailed list whereof is annexed hereto,) Instructions to Bidders, Contract Data, Bidding Data and Schedule of Particulars and Form of Bid, all duly signed by the Board and the Contractor shall for all purposes whatsoever be read, regarded and construed as part and parcel of the Agreement.

3. The Supplier will be paid for the said execution of the Works the sum of ……...........................................…...................……(Rs................................) hereinafter sometimes referred to as the "Contract Price" or such as shall become payable hereunder according to the terms of the Contract.

4. As security for the due and proper performance and fulfillment of this contract and for the due payment of all claims to which the Board may be entitled hereunder, the Contractor hereby undertakes to maintain to the Board with a Guarantee in favor of the Board from a Bank approved by the Engineer, as surety…….................................................................................…………… ……………………………………………………………………..(Rs.............……....) which said Performance Guarantee shall remain in force and shall not be discharged until the Engineer shall have granted a Final Certificate to the effect that the Contractor has duly discharged and completed all his obligations under this contract and that there is no sum whatever due to the Board at the date of such Final Acceptance Certificate under this Contract.

5. The following terms used in this Agreement and or in the Specifications shall be understood as having the meanings hereby ascribed to them, namely;

1. "The Procurement Committee" shall mean the Procurement Committee appointed for the purpose of determining the Tender.
2. "The Contractor" or "The Supplier" shall mean the person or persons, firm or firms, company or companies who have contracted for the supply and delivery of the materials, equipment and installation herein specified and includes its successors and permitted assigns.

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1. "The Chairman" shall mean the officer for the time being holding the office of or acting as the Chairman, National Water Supply and Drainage Board.
2. "The Engineer" shall mean the Officer for the time being holding the Office of or acting to the General Manager, National Water Supply and Drainage Board.
3. "The Engineer's Representative" shall mean the authorized Representative of the Engineer immediately responsible for the supervision of the Works or any other person appointed from time to time by the Engineer to act as Engineer and notified in writing to the Contractor.
4. "The Government" shall mean the Government of the Democratic Socialist Republic of Sri Lanka.
5. "The Purchaser" or "The Board" shall mean the National Water Supply and Drainage Board.
6. "Months" shall mean calendar months.
7. "The Contract Documents" shall mean the Instructions to Bidders, Contract Data, Bidding Data, Schedule of Particulars, the General Conditions of Contract, the Form of Bid, the Specifications, Bill of Quantities, Addenda, Articles of Agreement and their annexure.
8. "The Contract Price" shall mean the sum stated in the Letter of Acceptance payable to the Contractor for the supply of Goods and Services in accordance with the provisions of the Contract.
9. "The Works" shall mean the supply, delivery and Installation of Goods and the Services.
10. "Variation" shall mean any alteration of the description of any item in the Bill of Quantities or of the Specifications which in the opinion of the Engineer, is required for the perfect completion of the Works outlined in the Agreement.
11. "RS or SL Rs." shall mean Sri Lanka Rupees.

IN WITNESS WHEREOF the parties hereto have set their hands and seal to these presents at the places and dates hereinafter mentioned.

Signed by the said ..............................................................…………. Chairman, National Water Supply and Drainage Board and…………………… ... Board Member of the National Water Supply and Drainage Board at ………………………......................……………… on the ............................................... day ..................…………........………….……….……………….. of………………..………................................Two Thousand and ………………………….. …….……………….in the presence of the following Witnesses.

Chairman ...................……................. Board Member ....................…

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

WITNESSES

Signature 1: ….………........................ Signature 2 : ........................

Name :……………………………. Name :…………………..

Address ...........................…….... Address :………………

………………………. ……………………….

Signed by the said ................................................................................ in the capacity of .............................................at..................................on the ……………………........ day of.........………………... Two Thousand and ............. in the presence of the following Witnesses.

……................................

Signature of Supplier

WITNESSES

Signature 1: .....................…….. Signature 2 :.……….....................

Name : ……………………… Name : …..……………………

Address ................................. Address ................................

................................. ................................

Capacity ……………………….... Capacity ………………………....

**FORM OF PERFORMANCE SECURITY (Unconditional)**

Revised on 16-01-2019

…………………………..[ *Issuing Agency’s Name and Address of issuing Branch or Office*]

…………………………..

…………………………..

Beneficiary : Chairman

National Water Supply and Drainage Board

Galle Road, Ratmalana

Date ……………..

**PERFORMANCE SECURITY No**.: …………………………………………………..

We have been informed that …………………………………………………………….. [*name of Contractor/Supplier*] (*hereinafter called “the Contractor”)* has entered into Contract No. …………………….. dated ………………. with you, for the Supply & installation of ………………………………………………………………………………….. [*name of contract and brief description of Works*] (*hereinafter called “the Contract*”).

Furthermore, we understand that according to the conditions of the Contract, a performance security is required.

At the request of the Contractor, we ………………………………………… [*name of Agency*] hereby irrevocably under take to pay you any sum or sums not exceeding in total and amount of ………………… [*in figures*] ……………………………………… …………[*in words*] , such sum being payable in the types and proportions of currencies in which the Contract Price is payable , upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation (s) under the Contract, without your needing to prove or to show grounds for your demand or the sums specified therein.

This shall expire, no later than the ………………… day of ………………… , 20 …………… [*28 Days* *beyond the scheduled contract completion date*] and any demand for payments under it must be received by us at this office on or before that date.

………………………………………………….

[*Signature (s*)]

Signature and seal of the guarantor

T&C/

Revised on 24-07-2019

………………………………

………………………………

………………………………

………..-2011

**Regd. Post**

Ms. ……………………………………….

……………………………………………

……………………………………………

Dear Sirs,

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**CONTRACT NO: …………………………………..**

**Letter of Acceptance**

We are pleased to inform you that your offer submitted on ……………………*[date]* on the above tender, amounting to United States Dollars ……………………..……………… ……………………………….……………….(US$......................./=) Plus Sri Lanka Rupees ……………………………………………………………………….…………………………. (LKR………………………..) Plus Custom Duties has been accepted subject to the following conditions.

* Applicable VAT will be payable on production of Tax Invoices. The Registered No. for NWSDB for VAT is 4090318207000.
* ……………………………………………………………. Volumetric Displacement Type Domestic Water Meters and Spare Parts

Inspection and Testing of goods should be carried as per Clause 8 of General Conditions of Contract with respect to quantity, quality and loading prior to shipment and certificates should be forwarded to Deputy General manager (…………….)

All Water Meters and Spare Parts under this contract shall be delivered at such places, in such quantities as specified in the Delivery Schedule and Contract Period is ……………………… months from the date hereof.

The liquidated damages for any delay beyond the above period shall be LKR …………....../= per shipment per Day not exceeding 10% of the total contract price.

Revised on 24-07-2019

An advance payment of 20% of the Contract Price could be obtained after signing the agreement on production of an advance payment guarantee in the prescribed format from a recognized bank. Operating in Sri Lanka approved by the Central Bank of Sri Lanka.

Performance Security in the form of demand guarantee in the prescribed format (a copy annexed) from a recognized bank operating in Sri Lanka approved by the Central Bank of Sri Lanka for an amount of 10% of the total Contract Price valid for a period of 28 Days beyond the Contract Period from the date hereof shall be submitted within 14 Days from the date hereof.

Please acknowledge receipt of this letter by a return fax and make arrangements to sign the Agreement by prior appointment with the Asst. General Manager (Tenders & Contracts) within 28 Days.

Engineer’s Representative of this contract is …………………………………..

Please contact Deputy General Manager (………………..) on Tele No. …………….. for further action on this contract.

Yours faithfully,

**National Water Supply & Drainage Board**

**General Manager**

Cc: 1. Secretary, Ministry of City Planning, Water Supply and Higher Education.

1. Auditor General – Duplicate offer and a copy of the Tender Board decision attached.
2. Addl. General Manager (…………)
3. Deputy General Manager (…………)
4. Deputy General Manager (Finance)
5. Deputy General Manager (IA)
6. Asst. General Manager (……………)
7. Chief Engineer (…………………….)

Stores Copy

Revised on 24-07-2019

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**11. APPENDICES**

**APPENDIX 1- DETAILS OF SIMILAR MANUFACTURES COMPLETED WITHIN THE LAST THREE YEARS AND ONGOING**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name and Address of Employer** | **Name and details of**  **Contract** | **Value of**  **Contract** | **Period of**  **Contract**  **Date** | | **Remarks**  **(Completed/ ongoing**  **etc)** | **Value of work**  **remaining**  **incomplete** |
| **From** | **To** |
|  |  |  |  |  |  |  |

Revised on 27 -01-2018

**APPENDIX 2 - FINANCIAL STATEMENT**

Summary of assets and liabilities based on the audited financial statements for the last three financial years (Current statement may be unaudited) together with the Financial Performance as indicated in the following schedule shall be submitted.

If the business has not been in operation for three years following schedule shall be submitted for the period that the business has been in operation together with the aforesaid financial statements.

Bidders whose financial capability is marginally less to undertake this bid may show credit facilities available to them from a Banks. (supported by a letter from Bank, issued one month prior to closing of Bids).

# Financial performance for the last 3 years

|  |  |  |  |
| --- | --- | --- | --- |
| Year | xxxx | xxxx | xxxx |
| Turnover from Contracting |  |  |  |
| Fixed Assets (FA) |  |  |  |
| Current Assets (CA) |  |  |  |
| Current Liabilities (CL) |  |  |  |
| Long Term Liabilities (LL) |  |  |  |
| Net Worth = Total Assets – Total Liabilities |  |  |  |
| Current Ratio = Current Assets Current Liability |  |  |  |
| Liquidity Ratio = Current Assets(except stock) Current Liability |  |  |  |
| Gearing Ratio = Debt Capital x 100 Total Capital Employed |  |  |  |
| Turnover x 100  Total Operating Assets |  |  |  |
| Net Profit x 100  Total Assets |  |  |  |

# APPENDIX 2A – AUTHORIZATION FOR BANK REFERENCES

Revised on 29-09-2017

**BIDDER SHALL FILL THIS FORM AND PROVIDE WITH THE BID**

……………………….[Bidder’s Name]

………………………………[Address]

…………………………………………

…………………………………………

Manager………………………[Name of Bank]

…………………………….[Address]

………………………………………

………………………………………

Dear sir,

We hereby Authorize the National Water Supply & Drainage Board, on behalf of the procurement Committee, to seek reference of Bank details in order to evaluate the financial statues of our company M/s………………………………………………………………………………………

…………………………………………………………………….[contract Name] in Connections

with the ………………………………………………………………........[Contract Number] bid,

submitted by Us.

Yours faithfully,

…………………………..

…………………………..

Authorized office of the Bidder.

**Note:-** If there are more than one bank, separate letters should be submitted for each Bank

APPENDIX 3 - LETTER FOR CONFORMATION OF CAPABILITY OF

Revised on 24-07-2019

PRODUCTION AND SUPPLY ACCORDING TO

DELIVERY SCHEDULE

[Address of the Bidder]

…………………………………………..

………………………………………….

………………………………………….

Chairman, Procurement Committee,

………………………………………………,

…………………………………….

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**Contract No…………………………………….**

We, ……………………………………………………………….[*name of Bidder*] of….. ………………………………………………………………………… ……………

………………………………………………………………………………..…………….*[address of manufacturer]*confirm that we have sufficient production capacity to produce the quantity of ……mm volumetric displacement domestic type water meters submitted in our bid and shall deliver them according to the delivery schedule indicated in the bid.

…………………………….. ……………………………..

Authorised Officer of the Bidder. Seal of the Company.

Revised on 24-07-2019

APPENDIX 4 - MANUFACTURER’S AUTHORIZATION TO SIGN THE

CONTRACT

[This letter of authorization should be on the letter head of the Bidder and should be signed by a person with the proper authority to sign documents that are binding on the Bidder. The bidder shall include it in its bid].

Date : [insert date (as day, month and year) of Bid Submission]

No. : [insert contract number]

To : Chairman, Procurement Committee,

……………………………………….,

………………………………….

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**Contract No…………………………………….**

We …………………………………………*[insert complete name of Bidder],* who are Bidders of …….mm volumetric displacement domestic type Water meters and spare parts, having factories at ……………………………………….…………*[insert full address of Bidder’s factories],* do hereby authorize …………….………………………….. *[insert complete name and address of Bidder]* to submit a bid, the purpose of which is to supply ………… numbers of …….mm volumetric displacement domestic type Water meters and spare parts supplied by us, …………………………………….. *[insert name of the Bidder]* and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 15 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Duly authorized to sign this Authorization on behalf of : ……………………………*[insert complete name of the Bidder]*

Signed : …………………………………*[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name : ………………………………………………………..*[insert complete name(s) of authorized representative(s) of the Bidder]*

Title : …………………………………….. *[insert title]*

Dated on …………………….. day of …………………………….*[insert date of signing].*

Appendix 5 - BIDDER’s Authorization to sign the Contract

Revised on 24-07-2019

[The Bidder shall require to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letter head of the Bidder and should be signed by a person with the proper authority to sign documents that are binding on the Bidder. The bidder shall include it in its bid].

Date : [insert date (as day, month and year) of Bid Submission]

No. : [insert contract number]

To : Chairman, Procurement Committee,

…………………………………………….,

……………………………………

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**Contract No…………………………………….**

We …………………………………………*[insert complete name of the Bidder]*, who ……………………………………….…………*[insert full address of Bidder]*, do hereby authorize …………….………………………….. *[insert complete name of Bidders authorize officer who signs the contract]* to submit a bid on behalf of our company and to subsequently negotiate and sign the Contract. We will supply the goods as per the Contract.

Specimen Signature …………………………………………………………

Signed : …………………………………*[insert signature(s) of authorized representative(s) of the Bidder]*

Name : ……………………………………………………….*.[insert complete name(s) of authorized representative(s) of the Bidder]*

Title : …………………………………….. *[insert title]*

Duly authorized to sign this Authorization on behalf of : ……………………………*[insert complete name of Bidder]*

This is to certify that the seal and signatures of legal representative and authorized person affixed to power of attorney attached hereto are found to be authentic.

………………………………

Signature of Attorney at Law

……………………………..

Seal of Attorney at Law

Revised on 24-07-2019

Revised on 27-01-2018

**Appendix 6 - TOR for the Independent Inspection Agency**

|  |  |  |
| --- | --- | --- |
|  | **Test** | **Measurement Value** /  **Observation Comments** |
| 1 | Q1 (min. flow) |  |
| 2 | Q2 (transitional flow) |  |
| 3 | Q3 (Permanent flow) |  |
| 4 | Pressure test (acc. to the pressure rating in cl.5.3.4) |  |
| 5 | Non return valve test |  |
| 6 | Pressure loss test (acc. to the figures in  cl. 5.3.5) |  |
| 7 | Overall dimensions & thread dimensions |  |
| 8 | Magnetic test (if applicable) |  |

APPENDIX 7 - BIDDER’s Warranty for the goods (supplied under the contract)

[Address of the Bidder]

…………………………………………..

………………………………………….

………………………………………….

Chairman,

National Water Supply and Drainage Board,

Galle Road, Ratmalana, Sri Lanka

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**Contract No…………………………………….**

We, ……………………………………………………………….[*name of Bidder*] of ………………………………………………………………………………………………………………….…………………………………..…….*[address of Bidder]*warrant that the goods supplied under this contract are new, unused, of the most recent or current models and have incorporated all recent improvements, and no defects arising out of the design, material or workmanship from any act that may be develop under normal use of the supplied goods.

If there is any defects during the warranty period specified in the Clause 15 of the General Conditions of Contract, we shall attend to repair or replace the defective goods with all reasonable speed without any cost to the Purchaser.

Also we enclose further details in the given table below.

|  |  |
| --- | --- |
| **Part/ Section** | **Warranty period** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

………………………………………… ..…………….………

Authorised Officer of the Manufacturer. Seal of the Company.

Name :……………………………………

Revised on 24-07-2019

Revised on 01-06-2017

APPENDIX 8 - BIDDER’S awareness of the TOR for Independent Inspection Agency

[Address of the Bidder]

…………………………………………..

………………………………………….

………………………………………….

Chairman, Procurement Committee,

……………………………………………..,

………………………………………….

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**Contract No…………………………………….**

We, ……………………………………………………………….[*name of Bidder*] of ………………………………………………………………………………………………………………….………………………………………………………………..…….*[address of Bidder]*confirm that we have noticed that

a) Appendix 6 – TOR for Independent Inspection Agency

b) Clause 8.1 of General Conditions of contract

………………………………………… ..…………….………

Authorised Officer of the Manufacturer. Seal of the Company.

Name :……………………………………

APPENDIX 9 - BIDDER’S GUARANTEE for the REPLACEMENT OF UNACCEPTABLE goods supplied under the contract

Revised on 24-07-2019

[Address of the Bidder]

…………………………………………..

………………………………………….

Chairman,

National Water Supply and Drainage Board,

Galle Road, Ratmalana, Sri Lanka

**SUPPLY AND DELIVERY OF ………….. NOS. OF**

**VOLUMETRIC DISPLACEMENT TYPE**

**…………. mm. DOMESTIC WATER METERS AND SPARE PARTS**

**Contract No…………………………………….**

We, ……………………………………………………………….[*name of Bidder*] of ………………………………………………………………………………………………………………….…………………………………..…….*[address of Bidder]* guarantee that we shall unconditionally undertake to replace any unacceptable goods supplied under this contract with no additional cost to the employer ensuring timely completion of the project.

If any case we fail to replace the unacceptable goods, we agree that the NWSDB shall not make balance 25% payment and encash the Performance Guarantee. We further aware that NWSDB will immediately suspend issuing bidding documents to us and thereafter action shall be taken to blacklist us.

………………………………………… ..…………….………

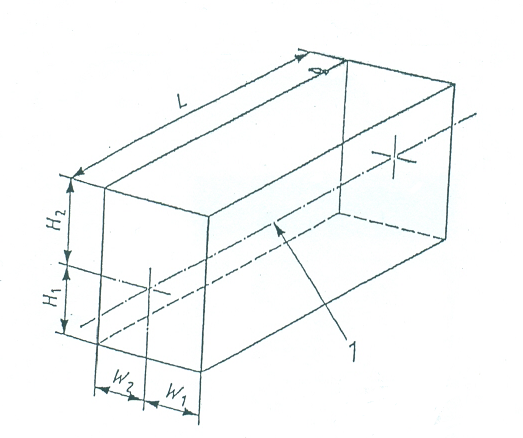
Authorised Officer of the Manufacturer Seal of the Company

Name :……………………………………

**Appendix 10 – Format for Bidder’s Test certificates**

Revised on 27-01-2018

**APPENDIX (A) - METER SIZE AND OVERALL DIMENSIONS**

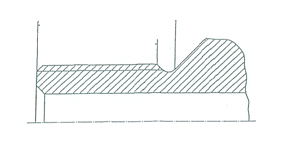


**Key**

1 - Pipe Axis

H1,H2, L, W1 and W2 define the height, length and width respectively of a cuboid within which the water meter contained (the cover being at right angle to its closed position). H1, H2, W1, W2 are maximum dimensions. L is a fixed value with specified tolerances.

**Figure 1 – Meter Size and Overall Dimensions**



b

****

Figure 2 – Threaded connection

**APPENDIX (B )**

ISO 40641:2005(E)

**TABLE 1 – WATER METER DIMENSIONS**

Dimensions in millimeters

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Size**  **DNa** | **amin** | **bmin** | **Lb**  **(Preferred)** | **Lb**  **(Alternatives)** | **W1 ;W2** | **H1** | **H2** |
| 15 | 10 | 12 | 165 | 80,85,100,105,110,114,115,130,134,135,145,170,175,180,190,200,220 | 65 | 60 | 220 |
| 20 | 12 | 14 | 190 | 105,110,115,130,134,135,165,175,  195,200,220,229 | 65 | 60 | 240 |
| 25 | 12 | 16 | 260 | 110,150,175,200,210,225,273 | 100 | 65 | 260 |
| 32 | 13 | 18 | 260 | 110,150,175,200,230,270,300,321 | 110 | 70 | 280 |
| 40 | 13 | 20 | 300 | 200,220,245,260,270,387 | 120 | 75 | 300 |
| 50 |  |  | 200 | 170,245,250,254,270,275,300,  345,350 | 135 | 216 | 390 |
| 65 |  |  | 200 | 170,270,300,450 | 150 | 130 | 390 |
| 80 |  |  | 200 | 190,225,300,305,350,425,500 | 180 | 343 | 410 |
| 100 |  |  | 250 | 210,280,350,356,360,375,450,650 | 225 | 356 | 440 |
| 125 |  |  | 250 | 220,275,300,350,375,450 | 135 | 140 | 440 |
| 150 |  |  | 300 | 230,325,350,450,457,500,560 | 267 | 394 | 500 |
| 200 |  |  | 350 | 260,400,500,508,550,600,620 | 349 | 406 | 500 |
| 250 |  |  | 450 | 330,400,600,660,800 | 368 | 521 | 500 |
| 300 |  |  | 500 | 380,400,800 | 394 | 533 | 533 |
| 350 |  |  | 500 | 420,800 | 270 | 300 | 500 |
| 400 |  |  | 600 | 500,550,800 | 290 | 320 | 500 |
| 500 |  |  | 600 | 500,625,680,770,800,900,1000 | 365 | 380 | 520 |
| 600 |  |  | 800 | 500,750,820,920,1000,1200 | 390 | 450 | 600 |
| 800 |  |  | 1200 | 600 | 510 | 550 | 700 |
| >800 |  |  | 1.25xDN | DN | 0.65xDN | 0.65xDN | 0.75xDN |
| DN: Nominal size of flanges and threaded connections | | | | | | | |
| Tolerance on length: | | | DN: 15 to DN 40-0/-2 mm: | | | | |
| DN: 50 to DN 300 – 0/-3 mm: | | | | |
| DN: 350 to DN 400-0/-5 mm. | | | | |
| Tolerances on lengths of meters greater than DN 400 shall be agreed upon between the user and manufacturer. | | | | | | | |

**APPENDIX (C)**

**ISO 2859:1:199**

**TABLE 1 – SAMPLE SIZE CODE LETTERS (SEE 10.1 AND 10.2)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Lot Size** | **Special Inspection Levels** | | | | **General Inspection Levels** | | |
|  | **S-1** | **S-2** | **S-3** | **S-4** | **I** | **II** | **III** |
| 2 to 8 | A | A | A | A | A | A | B |
| 9 to 15 | A | A | A | A | A | B | C |
| 16 to 25 | A | A | B | B | B | C | D |
| 26 to 50 | A | B | B | C | C | D | E |
| 51 to 90 | B | B | C | C | C | E | F |
| 91 to 150 | B | B | C | D | D | F | G |
| 151 to 280 | B | C | D | E | E | G | H |
| 281 to 500 | B | C | D | E | F | H | J |
| 501 to 1 200 | C | C | E | F | G | J | K |
| 1 201 to 3 200 | C | D | E | G | H | K | L |
| 3 201 to 10 000 | C | D | F | G | J | L | M |
| 10 001 to 35 000 | C | D | F | H | K | M | N |
| 35 001 to 150 000 | D | E | G | J | L | N | P |
| 150 001 to 500 000 | D | E | G | J | M | P | Q |
| 500 001 and over | D | E | H | K | N | Q | R |

**APPENDIX (D ) - DETAILS REFERRED TO IN CONDITIONS OF**

**CONTRACT**

Minimum amount of third party insurance SL Rs 1,000,000.00

for any one incident, number of incidents unlimited

****

**Appendix (F) - Factory Inspection/Audit report**

**Factory Inspection/ Audit report**

The Whole Manufacturing Process, Whole Manufacturing System and the Whole facility shall be audited by the Certification Agency and issue the relevant certifications.

Certification agency shall certify whether the above adhere to the intended proper practices and report any steps of the procedures skipped by the manufacturers. The inspection/ Audit process shall carry out comprehensive surveillance of the above.

**Scope of the Inspection/ Audit**

1. General Information
2. Foreign Trade Capacity
3. Product Research and Development Capacity
4. Quality Management System and Product Certification
5. Product Capacity & Quality Control
6. Photos

**Part A : General Information**

**Section 1 : Company Overview**

|  |  |  |  |
| --- | --- | --- | --- |
| 1.1 Legal Validity |  | | |
| Does the Company have a  Valid business license? | Yes No Others | Valid Date |  |
| Year of establishment |  | Registration Number |  |
| Registered Address |  | | |
| Actual Address |  | | |
| Is the annual review done  By local authority  (Industrial & Commercial  Bureau ?) |  | | |
| Registered Capital |  | | |
| Name of the legal  representative |  | | |
| Business Scope |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.2 Basic Information | | | |
| Contact Person |  | E – Mail |  |
| Phone Number |  | Fax Number |  |
| URL/Web Address |  | | |
| Company type | Manufacture Foreign Trader Combined | | |
| Type of ownership  Type of owner ship | Limited Company Public company Joint Venture  Stated-owned Private Owner Wholly foreign-owned  enterprises | | |
| Subsidiary factory/ies |  | | |
| Product  Manufactured/sold scope |  | | |

|  |
| --- |
| 1.3 Company Building Information |
| According to:  Land certificate Real estate certificate  Lease agreement  The land occupy about : sq. meters  The workshop occupy about : sq. meters |

**Section 2 Human Resources**

**2.1 company (Organization) Chart**

|  |  |  |
| --- | --- | --- |
| **2.2 Explanation of Code and Employee Details** | | |
| **Code** | **Department** | **Numbers of Employees** |
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
| E |  |  |
| F |  |  |
| G |  |  |
| H |  |  |
| Number in total | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **2.3 key staff** |  |  |  |
| **Title** | **Full Name** | **Education** | **Working experience for trade/total experience** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Remark :Above information of key staff was based on interview with company representatives.**

**Part B : Foreign Trade Capacity**

**Section 1 : Export Overall Situation**

|  |  |
| --- | --- |
| **1.1 Export Overall Situation** | |
| Does the company have a valid export license ? | Yes No |
| The Export license registration  Number ? |  |
| The number of foreign trading staff with relevant trading experience ? | Within 1 year …. 2-05 years  5 – 10 years …. Over 10 years ….  Total Staff … |
| The language freely used by foreign trade staff |  |
| Annual revenue of previous year |  |
| Estimated export revenue for this  year |  |
| Oversea agent |  |
| Nearest port |  |
| Acceptable quotation | FOB CIF |
| Acceptable payment type | LC T/T |
| What is the company’s projected  average lead time from PO  confirmation to production EX works  delivery ? |  |

**Section 2 : Export Business Capacity**

|  |  |  |
| --- | --- | --- |
| **2.1 Market Distribution** | | |
| **Market** | **Main Project** | **% of total Business Volume**  **(last year)** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Remark : Above information of business volume was claimed by company representative. Include data for all exports to Europe, North America and Japan**

**Section 3 : Supplier Management**

|  |  |  |
| --- | --- | --- |
| **3.1 Supplier Management** | | |
| **Item** | **Content** | **Observation/Comments** |
| 1 | Does the company  established and implement  an effectives suppliers’  assessment procedure ? | Have the written procedures and followed records  Have the written procedures but no records  Have the relevant records without written procedure  Have no written procedures or followed records |
| 2 | Does the company have  An updated list of approved suppliers ? | The approved Suppliers list was updated in ….  Have the written suppliers without approved signature or date  Provide the some suppliers names  No approved suppliers list |

**Section 4 :After Sale Service Capacity**

|  |  |  |
| --- | --- | --- |
| **4.1 After Service capacity** | | |
| **Item** | **Content** | **Observation/ comments** |
| 1 | Is there a procedure to conduct random  Product inspection after final packaging in  Place ? | Have clear standards and written inspection  Records  No written standards but had inspection  Reports  Have the procedures but no inspection records  It’s not necessary to carry out the inspection |
| 2 | Is there a clear procedure for handing  Customer complaints ? | Has the clear procedure and followed  Records  Has the procedure but no written records  No written procedures or records |
| 3 | Can the finished / packaged product be  Traced by lot identification to the  Appropriate raw materials test reports ? | Have the procedure to trace the raw  Materials  Can trace main materials  Can trace production data  Can’t trace products |
| 4 | Are corrective & preventive actions  Mechanism established and implemented  Effectively (including the suppliers /sub-  Contractors control, incoming inspection, process control, final inspections and  Customer complaint ) ? | Has the clear procedure and followed  Records  Has the procedure but no written records  No written procedures or records |

**Part C : Product report & Development Capacity**

|  |  |
| --- | --- |
| * 1. **Product Research and Development capacity** | |
| The amount of R&D and relevant working Experience | Within 1 year staff …. 2 – 5 years staff …  5 – 10 years Staff …. Over 10 years staff  Total engineers …. |
| What is the main job responsibility for R&D engineers ? |  |
| Does the company have its own brand for the company, or ODM , OEM, others ? |  |
| Is there any relevant design input, output,  Review, verification and validation  Documentation available to the auditor for review? |  |
| Does the R&D staff normally have any special  Software to design new products ?  If yes , please list the main software. |  |
| Does the company have an effective design  Change control procedure in place ? |  |
| Please list the patent certifications and  Qualifications license. |  |

**Part D : Quality Management System and Product Certification**

|  |  |
| --- | --- |
| * 1. **Quality Management System and Product Certification** | |
| Has the company obtained a valid certification for their quality management system ? such as ISO9001 , QC80000 and etc. |  |
| Is product certification done in terms of selling  Designation (UL for US,CCC for china, CE for  Europe…..) at the company ?   1. product certification list ? if has 2. sample of product certification , if has (at least one key products) ? 3. Copy of product certification sample (01 – 05 key products , if has ) ? |  |

**Part E : Production Capacity & control**

**Section 1 : Production Capacity**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.1 Production Situation (Top three Product Categories)** | | | |
| **Product Category** | **Capacity on top month** | **Average Capacity** | **Total in 2011** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Section 2 : Production process Control**

|  |  |  |
| --- | --- | --- |
| **2.1 Production Process Control** | | |
| **Item** | **Content** | **Observations/ Comments** |
| 1 | Are the Environmental Conditions, Such as  Tidiness and cleanliness being controlled and  Suitable for the operation performed ? | Very tidy  Normal  Need to improve  Very poor |
| 2 | Are the following items / documents provided  At appropriate location and under control  When necessary ? | Work instructions/procedures  Workmanship standard/acceptance  Golden sample /Approval sample  Product picture  Verbal by workshop director |
| 3 | Are written instructions available for incoming materials inspections/testing ?  Is the relevant record maintained ? | Has instructions and uniformly followed  Has instructions but no written records  Check the products by packing staff |
| 4 | Are written inspections/ testing instructions  Available for finished products ?  Is the relevant record maintained ? | Have instructions and uniformly followed  Have instructions but no written records  Check the products by packing staff |

|  |  |  |
| --- | --- | --- |
| **Item** | **Content** | **Observations/ Comments** |
| 5 | What type of inspections is used for finished  Products ? | Random inspections  100% inspection  visual inspection  function inspection |
| 6 | Are non- conforming units clearly marked/segregated to prevent accidental dispatch? | Marked and segregated  Segregated but not marked clearly  Not found in site |
| 7 | How are the non – conforming units handled ? | Repaired and re-inspection  Picked out  Used under control  Others |

**Section 3 : Company Development/ Expansion Plans**

|  |  |  |
| --- | --- | --- |
| **3.1 Company Development/Expansion Plans** | | |
| **Item** | **Company Development Action(s)** | **Timeframe** |
|  |  |  |
|  |  |  |

**Part H : Photos of documents**

**Section 1 : photo of documents**

**Description : Business License**

**Description : Lease Agreement**

**Description : Patent Certificate**

**Section 2 : Photos of Company**

**2.1 Photos of Company and product sample**

**Description : Company Gate**

**Description : Workshop**

**Description : Office**

**Description : Warehouse**

**Description : Showroom**

**Appendix (G) – In process inspection certificate**

**(during production inspection)**

**In Process Inspection Certificate(During Production Inspection**)

Inspection agency shall carry out the inspections when 20% of the order quantity has

been produced so as to ensure that the contractual obligations regarding product specifications and other requirements have fulfilled and complied with.

**Scope and Procedure**

Sample size selection from the lot

Sample size code letter shall be selected from table 1 – sample size code Letters in appendix D depending on the Lot size and General Inspection Level 1.

Then the table 2 – A – Single Sampling Plans for normal inspections (Master Table) in Appendix E shall be employed for sample size determination and allowable failure percentage.

Following are the inspection levels to be used:

Accepting Quality Limit – 2.5

Single Sample

Normal inspection

From the above, Sample size shall be obtained from table 2- A in Appendix E. Subsequently a sample of the above size is selected from lot using standard Random Tables.

Each meter in the sample shall be subjected to the following parameters & features.

1. Q1
2. Q2
3. Q3
4. Pressure Test (no Leak-pass, any leak-fail)
5. Magnetic Test (Response to the magnet- fail, No response –pass)
6. Non –return valve test (function-pass, not function –fail)
7. Pressure loss test
8. Overall dimensions 7 thread dimensions
9. Any meter failing in any of the above eight tests shall be considered to have failed totally.

**Visual Inspections**

All components parts being used in the manufacture of the meters to be supplied under this

Contract shall be carefully inspected for their quality.

i.e. precision of machining, casting, surface finish etc.

alignments, tolerances between matching parts, positioning of parts in the subassemblies and overall assembly etc.

**apeendix (H) – Pre Production certificate**

**Pre Product Certificate**

Inspection Agency shall inspect all individual components to be used in the manufacturing and assembly process of the meters to be supplied under this contract.

Inspections to be carried out,

1. Visual
2. Measurements (acc. to manufacturer’s specifications, QA plan data)
3. Fits & tolerances (acc. to Manufacturer’s specifications, QA plan data)
4. Mating of parts (proper fit, alignment etc)
5. Machined surfaces

Parts to be subjected to these tests,

1. Brass housing
2. Polymer/plastic wheels of the mechanism
3. Other polymer/ plastic parts of the mechanism
4. Non return valve
5. Counter assembly (parts, liquid sealing)
6. Working chamber /parts
7. Lid, pin etc. assembly
8. End connecter brass unions/ huts, seals etc
9. Meter sealing for tamper proofing
10. Other parts of the meter assembly

**appendix ( I ) – Qulaity control/assurance system certificate**

**Quality Control / Assurance system Certificate**

Verification and certifications whether the manufacturer has a documentary Quality(control) plan for the materials, manufactured and sub – contracted parts in the production process.

Quality plan formats shall generally include,

Part number & Description

Measurements Method

Quantity to be checked

Frequency

Specification limits

Deviation/Defects

Actions on Deviations/Defects

Responsible division/person

Description of the Sampling Procedure, Standards used for Sampling.

**Appendix 11 –** **AFFIDAVIT BY THE BIDDER**

I ………………………………………… of ………………………………………… being a ……………………… (Buddhist or any other religionist), do hereby solemnly sincerely and truly declare and affirm as follows.

01. I am the Affirmant above named.

02. I hereby declare that I have applied for the contract of National Water Supply and Drainage Board bearing No: …………………………………….. and my spouse or dependent does not work in National Water Supply and Drainage Board on permanent, casual or contract basis.

The foregoing affidavit having been

read over and explained to the

affirmant above named who having

understood its nature content and Before me ……………………

context affirmed hereto and set his Declarant

usual signature hereto in ……………...

on this ………….……………… day

of …………….…….. 201..

……..…………………

Justice of the peace /

Commissioner for Oaths

**APPENDIX 12 - LETTER FOR CONFORMATION OF ISSUING CERTIFICATE ACCREDITED LAB/ INDEPENDENT INSPECTION AGENCY ON PROPER FUNCTIONING OF THE WATER METERS.**

Address}

……………………………………

……………………………………

……………………………………

Chairman, Procurement Committee,

National Water Supply and Drainage Board,

Galle Road, Ratmalana, Sri Lanka

**Supply and Delivery of …………………….Nos of Volumetric Displacement Type ……………………mm Domestic Water Meters and Spare Parts**

**Contract No ………………………………………………..**

We ……………………………………..……………………………………………………of ………………………………………………………………………………………………….. (Address Of Bidder) Certinity That We Unconditionally Undertake That Accretadeted Lab/ Independent Inspection Agency Issue A Certificate Ensuring That Water Meters Inspection Shall Fit Properly And Adequetely To Ensure Proper Functioning.

…………………………………… …………………………

Authorized Signature Of Bidder Company Seal

Revised on 16-01-2019

**APPENDIX 13 - SAMPLE OF ENDURANCE TEST CERTIFICATE**

1. **Background Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Order No. :**  **Coordinator :** | | | | | |
| **Description of commodity (Name, Model, Quantity…..)** | | | | | |
| **Buyer (Name, Address…..)** | | | | | |
| **Seller (Name, Address…..)** | | | | | |
| **P/I No.** | **N/A** | | | | |
| **LC No.** | **N/A** | | | | |
| **Others.** | **N/A** | | | | |
| **Nature of inspection** | **Item** | **Satisfactory** | | **Non conforming** | |
|  |  |  |  |  |
| **Item** | **Satisfactory** | **Non conforming** | **Rejected** | **Subject to buyer’s evaluation** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **Instrument**

During the inspection, the following instrument calibration status has been checked for inspection.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **ID No.** | **Measuring range** | **Calibrated**  **(Yes/ No/ NA)** | **Certificate No.**  **(Optional)** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |

1. **Quantity check**
   1. **Reference documents**
   2. **Method of quantity check**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Description** | **REQ. quantity** | **ACT. quantity** | **Remark** |
|  |  |  |  |  |

1. **Marking check**
   1. **Reference documents**
   2. **Sample size**
   3. **Mark on water meter**
   4. **Remarks**
2. **Visual Quality Check**
   1. **Sample size**
   2. **Remarks**
3. **Dimension check**
   1. **Sample size**
   2. **Reference documents**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Serial No.** | **Overall Length** | **G3/4” thread on body** | **G3/4” thread on nuts** | **R1/2” thread on nipple** |
|  |  |  |  |  |  |

* 1. **Remarks**

1. **Witness testing**
   1. **Sample size**
   2. **Reference document**
   3. **Hydraulic pressure test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Phase 1** | **Phase 2** | **Results** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. **Measurement – error test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Flow rate point** | **Flow rate (L/h)** | **Permissible error** | **Result** | **Water meter reading (L)** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

* 1. **Non return test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Pressure** | **Time** | **Results** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. **Pressure loss test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Pressure loss** | | **Results** |
|  |  | **Required** | **Checked** |  |
|  |  |  |  |  |
|  |  |  |  |  |

**For Q3 (1600 L/h)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Pressure loss** | | **Results** |
|  |  | **Required** | **Checked** |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. **Endurance Test**
     1. **Measurement – Error test after continuous endurance test**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Flow rate point** | **Flow rate (L/h)** | **Permissible error** | **Error** | **Max. Variation** | **Variation** | **Water Meter reading (L)** |
|  |  |  |  |  |  |  |  |

* + 1. **Measurement – Error test after discontinuous endurance test**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Flow rate point** | **Flow rate (L/h)** | **Permissible error** | **Error** | **Max. Variation** | **Variation** | **Water Meter reading (L)** |
|  |  |  |  |  |  |  |  |

**Measurement error results**

**Data sheet 1**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Q4** | | | **Q3** | | **Q2** | | **Q1** | |
|  | **100L** | | | **100L** | | **10L** | | **1L** | |
|  | **Start** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Data sheet 2 (after continuous endurance test)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Q4** | | | **Q3** | | **Q2** | | **Q1** | |
|  | **100L** | | | **100L** | | **10L** | | **1L** | |
|  | **Start** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Data sheet 3 (after discontinuous endurance test)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Q4** | | | **Q3** | | **Q2** | | **Q1** | |
|  | **100L** | | | **100L** | | **10L** | | **1L** | |
|  | **Start** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

* 1. **Remarks**

**APPENDIX 14 - SAMPLE OF PRE- SHIPMENT TEST CERTIFICATE**

1. **Background Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Order No. :**  **Coordinator :** | | | | | |
| **Description of commodity (Name, Model, Quantity…..)** | | | | | |
| **Buyer (Name, Address…..)** | | | | | |
| **Seller (Name, Address…..)** | | | | | |
| **P/I No.** | **N/A** | | | | |
| **LC No.** | **N/A** | | | | |
| **Others.** | **N/A** | | | | |
| **Nature of inspection** | **Item** | **Satisfactory** | | **Non conforming** | |
|  |  |  |  |  |
| **Item** | **Satisfactory** | **Non conforming** | **Rejected** | **Subject to buyer’s evaluation** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **Instrument**

**During the inspection, the following instrument calibration status has been checked for inspection.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **ID No.** | **Measuring range** | **Calibrated**  **(Yes/ No/ NA)** | **Certificate No.**  **(Optional)** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |

1. **Quantity check**
   1. **Reference documents**
   2. **Method of quantity check**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Description** | **REQ. quantity** | **ACT. quantity** | **Remark** |
|  |  |  |  |  |

1. **Marking check**
   1. **Reference documents**
   2. **Sample size**
   3. **Mark on water meter**
   4. **Remarks**
2. **Visual Quality Check**
   1. **Sample size**
   2. **Remarks**
3. **Dimension check**
   1. **Sample size**
   2. **Reference documents**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Serial No.** | **Overall Length** | **G3/4” thread on body** | **G3/4” thread on nuts** | **R1/2” thread on nipple** |
|  |  |  |  |  |  |

* 1. **Remarks**

1. **Witness testing**
   1. **Sample size**
   2. **Reference document**
   3. **Hydraulic pressure test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Phase 1** | **Phase 2** | **Results** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. **Measurement – error test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Flow rate point** | **Flow rate (L/h)** | **Permissible error** | **Result** | **Water meter reading (L)** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

* 1. **Non return test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Pressure** | **Time** | **Results** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. **Pressure loss test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Pressure loss** | | **Results** |
|  |  | **Required** | **Checked** |  |
|  |  |  |  |  |
|  |  |  |  |  |

**For Q3 (1600 L/h)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Serial No** | **Pressure loss** | | **Results** |
|  |  | **Required** | **Checked** |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Measurement error results**

**Data sheet 1**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Q4** | | | **Q3** | | **Q2** | | **Q1** | |
|  | **100L** | | | **100L** | | **10L** | | **1L** | |
|  | **Start** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Data sheet 2 (after continuous endurance test)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Q4** | | | **Q3** | | **Q2** | | **Q1** | |
|  | **100L** | | | **100L** | | **10L** | | **1L** | |
|  | **Start** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Data sheet 3 (after discontinuous endurance test)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Q4** | | | **Q3** | | **Q2** | | **Q1** | |
|  | **100L** | | | **100L** | | **10L** | | **1L** | |
|  | **Start** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** | **Finish** | **Error (%)** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**7.8 Remarks**