

**Ref. No.: NWSDB/SBD/S&I/Sewage Pump (20kW-30kW)/FC/ Ver1**

*Revised on 14-06-2024*

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

**MINISTRY OF .....**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING SETS  
AND ACCESSORIES  
(20kW -30kW)**

**..... SEWERAGE SCHEME/ PROJECT**

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

*Revised on 14-06-2024*

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**GALLE ROAD,**

**RATMALANA.**

**SRI LANKA**

**.....  
Month & Year**

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**DOCUMENT ISSUANCE CERTIFICATE**

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

1. STANDARD DOCUMENT REFERENCE NUMBER: NWSDB/SBD/S&I/Sewage Pump  
(20kW-30kW)/FC/Ver 1
  
2. CONTRACT NUMBER : .....
  
3. a) ISSUED TO : .....
- b) ADDRESS : .....
- c) TELEPHONE NUMBER : .....
- d) FACSIMILE NUMBER : .....
  
4. a) NON REFUNDABLE TENDER FEE : Rs. .... RECEIVED/NOT RECEIVED  
IN CASH/BANK DRAFT
- b) 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 BUSINESS REGISTRATION NUMBER : .....
  
9. a) ISSUING OFFICER : .....
- b) DESIGNATION : .....
- c) SIGNATURE : .....
  
10. PLACE OF ISSUE : .....
  
11. SEAL : .....
  
12. DATE : ..... TIME : .....

# **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' shall be marked for cases of 'No submissions' and 'Not applicable' respectively.

		Reference		Remarks *
		Instructions to Bidders		
(a)	Documentary evidence to establish eligibility of bidder.	Page No 1 -5, 1- 6	Clause No. 4 -1	
(b)	Certified copy of business registration.	Page No. 1 - 6	Clause No. 4.1 (vii)	
(c)	The Bidder's technical and production capability necessary to perform the Contract.	Page No. 1 - 6	Clause No 4.2 (iii)	
(d)	Documentary evidence to establish qualifications for the performance of the Contract.	Page No. 1 - 6, 1- 7	Clause No. 4.2	
(e)	The agreement of the manufacturer or producer to confirm that the supply will be made in accordance with the Delivery Schedule.	Page No. 1 - 7	Clause No. 4.2 (v)	
(f)	In the case of a bidder offering to supply Goods under the Contract which the bidder does not manufacture or otherwise produce, authorisation by the manufacturer or producer of Goods as his accredited agent.	Page No. 1 - 7	Clause No. 4.2 (vi)	
(g)	Documentary evidence to establish that goods and related services offered are from an eligible source and origin.	Page No. 1 - 7	Clause No. 5	
(h)	Duly completed all sections 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 -7, 1-8, 1 - 10	Clause No. 11.1 (a)	
(i)	Subsequent Addendum/Addenda. (if any)	Page No. 1 - 10	Clause No. 11.1 (h)	
(j)	Product Conformity Certificates and Quality Management System Certificates for items offered.	Page No. 1- 10	Clause No. 11.1	
(k)	Proof of Authorization.	Page No. 1 - 10	Clause No. 11.1 (m)	
(l)	Copies of relevant standards used.	Page No. 1 - 10	Clause No. 11.1 (k)	
(m)	Certified Copy of the VAT Registration Certificate.	Page No. 1 - 12	Clause No. 14.4	
(n)	Bid Security.	Page No. 1 - 15	Clause No. 20	
(o)	Certificates of registration of the contract with the registrar of public contracts as per the Act No. 3 of 1987. (If required)	Page No. 1-26	Clause No. 47	
	<b>Any other document as given below:</b>	Page No. 1 – 11	Clause No. 11.1 (p)	

# **INVITATION FOR BIDS**

MINISTRY OF .....

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**INVITATION FOR BIDS**

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING  
SETS AND ACCESSORIES**

.....SEWERAGE SCHEME/ PROJECT

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

1. The Chairman, Department Procurement Committee, National Water Supply and Drainage Board,(NWSDB),Galle Road, Ratmalana, Sri Lanka on behalf of the National Water Supply & Drainage Board now invites sealed bids for the Supply & Installation of ..... for ..... Sewerage Scheme 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 in cash.
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 those who are manufacturers or their local accredited agents for supply and installation of sewage pumping sets and accessories 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. To be eligible for contract award, the successful bidder shall not have been blacklisted
6. Alternative bids shall not be accepted.
7. Sealed bids may be either dispatched by registered post or hand delivered to the Assistant General Manager (Tenders and Contracts), National Water Supply & Drainage Board (NWSDB), Galle Road, Ratmalana, Sri Lanka to receive on or before the closing time. Late bids will be rejected.
8. All Bids shall be accompanied by a bid security of Rupees.....and the bid security shall be valid upto.....(*Specify the Date*).
9. Bids will be opened immediately after the closing of Bids, at the office of Assistant General Manager (Tenders and Contracts), National Water Supply & Drainage Board (NWSDB), Galle Road, Ratmalana, Sri Lanka. Bidders or their authorised representatives may be present at the opening of bids.
10. For further details, please contact the Assistant General Manager (Tenders and Contracts), NWSDB, Galle Road, Ratmalana, Sri Lanka on telephone number 94 -11-2605328 or 94-11-2638999 Ext. 1750 or facsimile number 94 -11-2635885.

**Chairman**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**



MINISTRY OF .....

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**INVITATION FOR BIDS**

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING  
SETS AND ACCESSORIES**

.....SEWERAGE SCHEME/ PROJECT

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

1. The Chairman, Project Procurement Committee, National Water Supply and Drainage Board (NWSDB), .....  
.....(*insert relevant Address*) on behalf of the National Water Supply & Drainage Board now invites sealed bids for the Supply & Installation of .....for ..... Sewerage Scheme up to closing of bids at ..... hours on .....
2. Bidding documents are available at the office of the .....  
.....(*insert relevant 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 in cash. .
3. Bidding Documents may be inspected free of charge at the office of The Chairman, Project Procurement Committee, National Water Supply & Drainage Board (NWSDB).....(*Insert relevant Address*)
4. Bidding Documents will be issued only to those who are manufacturers or their local accredited agents for supply and installation of sewage pumping sets and accessories 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.
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8. All Bids shall be accompanied by a bid security of Rupees.....and the bid security shall be valid up to.....(*Specify the Date*).
9. Bids will be opened immediately after the closing of Bids, at the office of The Chairman, Project Procurement Committee, National Water Supply & Drainage Board (NWSDB) .....  
..... (*Insert relevant Address*). Bidders or their authorised representatives may be present at the opening of bids. Late Bids will be rejected.
10. For further details, please contact The Chairman ,Project Procurement Committee, National Water Supply & Drainage Board(NWSDB), .....  
.....(*Insert relevant Address*) on telephone number .....or facsimile number .....

**Project Director,**  
..... **WSP**

**MINISTRY OF .....**  
**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**  
**INVITATION FOR BIDS**  
**SUPPLY AND INSTALLATION OF SEWAGE PUMPING**  
**SETS AND ACCESSORIES**  
**.....SEWERAGE SCHEME/ PROJECT**  
**CONTRACT No.: .....**

1. The Chairman, Regional Procurement Committee, National Water Supply and Drainage Board (NWSDB), .....  
.....(*Insert Relevant RSC Address*) on behalf of the National Water Supply & Drainage Board(NWSDB) now invites sealed bids for the Supply & Installation of .....for ..... Sewerage Scheme up to closing of bids at ..... hours on .....
2. Bidding documents are 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 in cash.
3. Bidding Documents may be inspected free of charge at the office of The Chairman, Regional Procurement, National Water Supply and Drainage Board (NWSDB) .....  
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4. Bidding Documents will be issued only to those who are manufacturers or their local accredited agents for supply and installation of sewage pumping sets and accessories 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.
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.....(*Insert relevant RSC Address*) to receive on or before the closing time. Late bids will be rejected.
8. All Bids shall be accompanied by a bid security of Rs. .... and the bid security shall be valid up to .....(*Insert Date*).
9. Bids will be opened immediately after the closing of Bids, at the office of The Chairman, Regional Procurement Committee, National Water Supply & Drainage Board (NWSDB).....  
.....(*Insert relevant RSC Address*). Bidders or their authorized representatives may be present at the opening of bids. Late Bids will be rejected.
10. For further details, please contact The Chairman, Regional Procurement, National Water Supply and Drainage Board (NWSDB).....  
.....(*Insert relevant RSC Address*) on telephone number .....or facsimile number .....

**Deputy General Manager,**  
**RSC .....**

# **1. - INSTRUCTIONS TO BIDDERS**

## **2. GENERAL CONDITIONS OF CONTRACT**

### **3. FORM OF BID**

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

**MINISTRY OF .....**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING  
SETS AND ACCESSORIES**

**.....SEWERAGE SCHEME**

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

**FORM OF BID**

The Chairman,  
Department Procurement Committee,  
National Water Supply & Drainage Board  
Galle Road,  
Ratmalana

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 Tender 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 Rupees .....  
.....  
..... (in words) (LKR.....)  
(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 Bidding Documents.
2. Documentary evidence to establish eligibility of bid.
3. Documentary evidence to establish that goods and related services are offered from an eligible source and origin.
4. Documentary evidence to establish eligibility of goods offered.
5. Bid Security.
6. Documentary evidence to establish qualifications for the performance of the Contract.
7. Contract Data.
8. Bidding Data.
9. Duly filled Appendices.
10. Any other document.

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, 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 series certificates and the specified product standard certificates.

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 Contract Data.

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

.....

Signature of Bidder : .....

Name of Bidder : .....

Address : .....

Telephone Number : .....

Facsimile Number : .....

Date : .....

**Witnesses**

1. Name :- .....

Address : .....

Signature :- .....

2. Name :- .....

Address : .....

Signature :- .....

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

**MINISTRY OF .....**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING  
SETS AND ACCESSORIES**

**.....SEWERAGE SCHEME**

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

**FORM OF BID**

The Chairman,  
Project Procurement Committee,  
National Water Supply and Drainage Board,

.....  
.....(*Insert relevant Address*)

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 Tender 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 Rupees .....  
.....(in words)  
(LKR.....) (excluding VAT) The make up of the aforesaid total Bid Price is given in the accompanying Bills of Quantities.

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3. Documentary evidence to establish that goods and related services are offered from an eligible source and origin.
4. Documentary evidence to establish eligibility of goods offered.
5. Bid Security.
6. Documentary evidence to establish qualifications for the performance of the Contract.
7. Contract Data.
8. Bidding Data.
9. Duly filled Appendices.
10. Any other document.



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, 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 series certificates and the specified product standard certificates.

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 Contract Data.

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

.....

Signature of Bidder : .....

Name of Bidder : .....

Address : .....

Telephone Number : .....

Facsimile Number : .....

Date : .....

**Witnesses**

1. Name :- .....

Address : .....

Signature :- .....

2. Name :- .....

Address : .....

Signature :- .....

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

**MINISTRY OF .....**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING  
SETS AND ACCESSORIES**

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

**FORM OF BID**

The Chairman,  
Regional Procurement Committee,  
National Water Supply and Drainage Board,

.....  
.....(Insert relevant RSC Address)

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 Tender 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 Rupees ..... (in words) (LKR.....) (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 Bidding Documents.
2. Documentary evidence to establish eligibility of bid.
3. Documentary evidence to establish that goods and related services are offered from an eligible source and origin.
4. Documentary evidence to establish eligibility of goods offered.
5. Bid Security.
6. Documentary evidence to establish qualifications for the performance of the Contract.
7. Contract Data.
8. Bidding Data.
9. Dully filled Appendices.
10. Any other document.

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, 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 series certificates and the specified product standard certificates.

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 Contract Data.

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

Signature of Bidder : .....

Name of Bidder : .....

Address : .....

Telephone Number : .....

Facsimile Number : .....

Date : .....

**Witnesses**

1. Signature :- .....

Name :- .....

Address : .....

2. Signature :- .....

Name :- .....

Address : .....

## **4. BIDDING DATA**

The Bidding Data is a part of Instructions to Bidders and shall 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.

*(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.)*

## Bidding Data

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

**The following specific data for the goods & related services to be procured shall complement, supplement or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.**

### Instructions to Bidders

#### Clause Reference

**(1.1)** The Purchaser/ Employer is

Name : National Water Supply and Drainage Board

Address: Galle Road,  
Ratmalana

Name of Authorized Representative:  
The Chairman,  
National Water Supply & Drainage Board(NWSDB),  
Galle Road, Ratmalana.

The Works consist of \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

located at \_\_\_\_\_

Intended Completion Date is \_\_\_\_\_ Days from the Start Date.

Name of Contract: \_\_\_\_\_

Contract No.: \_\_\_\_\_

The office for collection of bid forms is  
Assistant General Manager (Tenders & Contracts)  
Tenders & Contract Section,  
NWSDB, Galle Road,  
Ratmalana.

The non-refundable fee is Rupees \_\_\_\_\_ Plus VAT,  
payable in cash.

The Bid forms will be issued until \_\_\_\_\_

(2.1) The source of funds is \_\_\_\_\_

4.2 (i) Minimum qualification to qualify for the award of the Contract is :  
Experience in Supply and Installation works of pumps at least one contract of a similar nature and complexity equivalent to the supply and Installation works over the last 5 years.

4.2(iv) Working Capital <sup>\*1</sup> + present available credit facilities for the company<sup>\*2</sup> + credit facilities exclusively for this contract - 0.1 x current work commitments<sup>\*3</sup> > Rs.....<sup>\*4</sup>

\*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 the estimated cost of the Bid.

## B. Contents of Bidding Documents

7.1 For **Clarification of bid purposes** only, the Employer's address is:

Assistant General Manager (Tenders and Contracts),  
National Water Supply and Drainage Board,  
Galle Road, Ratmalana.

Fax . 011 – 2635885      Tel:011-2605328

## C. Preparation of Bids

11.1 (o) The Bidder shall submit the following additional documents:

The information listed below shall be submitted with the offer to the Engineer for review. The submittals shall include:

1. Dimensioned cross sectional drawing of the pump complete with materials of manufacture.
2. Pump performance curves showing
  - Head (m) Vs flow (m<sup>3</sup>/h or l/s)
  - Pump efficiency Vs flow (m<sup>3</sup>/h or l/s)
  - Power required to drive pump (kW) Vs flow (m<sup>3</sup>/h or l/s)
  - NPSH Required (m) Vs flow (m<sup>3</sup>/h or l/s)
3. All motor information.
4. Proposed panel layout (indicators, meters, switches etc.)
5. Specification for MCCB's, MCB's, Busbars, Drives etc.
6. Specification for transducers, sensors etc.

Printed literature – supporting details given in the questionnaire.

- 17.3** Period of time the Goods are expected to be functioning.( for the purpose of spare parts): .....
- 19.1** The Bid shall be valid for ..... Days from the date closing of the bids as specified in the IFB..
- 20.1** Bid shall include a Bid Security in the format included in Section 11 Specimen Forms
- 20.2** The amount of the Bid Security shall be: Rs. ....
- 20.3** The validity period of the bid security shall be until.....(give a Date)

#### **D. Submission and Opening of Bids**

- 22.2 (ii)** The inner and outer envelopes shall be addressed to the following address.  
The Chairman, Department Procurement Committee,  
C/o, Assistant General Manager (Tenders & Contracts),  
National Water Supply and Drainage Board,  
Galle Road, Ratmalana,  
Sri Lanka.

- 22.2 (iii)** Name of the Contract: \_\_\_\_\_  
Contract no. \_\_\_\_\_

- 23.1** The Procurement Committee’s Address for the submission (on behalf of the Board) is;

The Chairman, Department Procurement Committee,  
C/o, Assistant General Manager(Tenders & Contracts),  
National Water Supply and Drainage Board,  
Galle Road, Ratmalana,  
Sri Lanka.

The deadline for submission of Bid

Date: ..... Time: .....

- 26.1** The place for opening of bids,  
Tenders & Contracts Section,  
National Water Supply and Drainage Board,  
Galle Road, Ratmalana,  
Sri Lanka.  
Date: ..... Time: .....

- 35.2 (xii)**
- i. Economic life of Pumping Unit .....Years.(*indicate figure*)
  - ii. Discounting Rate .....%.(*indicate figure*)
  - iii. Power Cost Rs ...../ kWh. (*indicate figure*)
  - iv. Annual Operation as mentioned in the particular specification

### **E. Evaluation and Comparison of Bids**

**42.1** Prevailing rate of stamp duty is nil

**43.1** The amount of performance security shall be .....% of the contract Price

**48.1** The equipment to be provided under this contract shall be suitable for installation and operation at elevations of about ..... m.(to be indicated) above sea level inside weather protected structures. Outside ambient temperatures range between ..... and ..... °C and water temperature varies between ..... and ..... °C.

Relative Humidity is expected to range between ..... and 100%. Atmosphere is dusty.



## Bidding Data

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

**The following specific data for the goods & related services to be procured shall complement, supplement or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.**

### Instructions to Bidders

#### Clause Reference

**(1.1)** The Purchaser/ Employer is

Name : National Water Supply and Drainage Board

Address: Galle Road,  
Ratmalana

Name of Authorized Representative:  
The Chairman,  
National Water Supply & Drainage Board(NWSDB),  
Galle Road, Ratmalana.

The Works consist of \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

located at \_\_\_\_\_

Intended Completion Date is \_\_\_\_\_ Days from the Start Date.

Name of Contract: \_\_\_\_\_

Contract No.: \_\_\_\_\_

The office for collection of bid forms is  
.....,  
National Water Supply & Drainage Board,  
.....  
.....  
*(Insert relevant Address)*

The non-refundable fee is Rupees \_\_\_\_\_ Plus VAT, payable in cash.

The Bid forms will be issued until \_\_\_\_\_

The source of funds is \_\_\_\_\_

**4.2 (i)** Minimum qualification to qualify for the award of the Contract is :  
Experience in Supply and Installation works of pumps at least one contract of a similar nature and complexity equivalent to the supply and Installation works over the last 5 years.

**4.2(iv)** Working Capital <sup>\*1</sup> + present available credit facilities for the company<sup>\*2</sup> + credit facilities exclusively for this contract - 0.1 x current work commitments<sup>\*3</sup> > Rs.....<sup>\*4</sup>

- \*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 the estimated cost of the Bid.

## **B. Contents of Bidding Documents**

**7.1** For **Clarification of bid purposes** only, the Employer's address is:

The Chairman, Project Procurement Committee,  
National Water Supply and Drainage Board,  
.....  
.....(Insert relevant Address)

Fax . ..... Tel:.....

## **C. Preparation of Bids**

**11.1 (o)** The Bidder shall submit the following additional documents:  
The information listed below shall be submitted with the offer to the Engineer for review. The submittals shall include:

1. Dimensioned cross sectional drawing of the pump complete with materials of manufacture.
2. Pump performance curves showing
  - Head (m) Vs flow (m<sup>3</sup>/h or l/s)
  - Pump efficiency Vs flow (m<sup>3</sup>/h or l/s)

- Power required to drive pump (kW) Vs flow (m<sup>3</sup>/h or l/s)
  - NPSH Required (m) Vs flow (m<sup>3</sup>/h or l/s)
3. All motor information.
  4. Proposed panel layout (indicators, meters, switches etc.)
  5. Specification for MCCB's, MCB's, Bus bars, Drives etc.
  6. Specification for transducers, sensors etc.

Printed literature – supporting details given in the questionnaire.

- 17.3** Period of time the Goods are expected to be functioning.( for the purpose of spare parts): .....
- 19.1** The Bid shall be valid for ..... Days from the date closing of the bids as specified in the IFB..
- 20.1** Bid shall include a Bid Security in the format included in Section 11 Specimen Forms
- 20.2** The amount of the Bid Security shall be: Rs: .....
- 20.3** The validity period of the bid security shall be until.....(give a Date)

#### **D. Submission and Opening of Bids**

- 22.2 (ii)** The inner and outer envelopes shall be addressed to the following address.

The Chairman, Project Procurement Committee,  
National Water Supply and Drainage Board,  
.....  
.....(Insert relevant Address)

- 22.2 (iii)** Name of the Contract: .....
- Contract No: .....

- 23.1** The Procurement Committee's Address for the submission (on behalf of the Board) is;

The Chairman, Project Procurement Committee,  
National Water Supply and Drainage Board,  
.....  
.....(Insert relevant Address)

The deadline for submission of Bid,

Date: ..... Time: .....

**26.1** The place for opening of bids,  
.....,  
National Water Supply and Drainage Board,  
.....,  
.....

Date: ..... Time: .....

- 35.2 (xii)**
- i. Economic life of Pumping Unit ..... Years. (*indicate figure*)
  - ii. Discounting Rate .....%.(*indicate figure*)
  - iii. Power Cost Rs ...../ kWh. (*indicate figure*)
  - iv. Annual Operation as mentioned in the particular specification

### **E. Evaluation and Comparison of Bids**

**42.1.** Prevailing rate of stamp duty is nil.

**43.1** The amount of performance security shall be .....% of the contract Price.

**48.1** The equipment to be provided under this contract shall be suitable for installation and operation at elevations of about ..... m.(to be indicated) above sea level inside weather protected structures. Outside ambient temperatures range between ..... and .....<sup>0</sup>C and water temperature varies between ..... and .....<sup>0</sup>C.

Relative Humidity is expected to range between ..... and 100%. Atmosphere is dusty.

## Bidding Data

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

The following specific data for the goods & related services to be procured shall complement, supplement or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

### Instructions to Bidders

#### Clause Reference

(1.1) The Purchaser/ Employer is

Name : National Water Supply and Drainage Board

Address: Galle Road,  
Ratmalana

Name of Authorized Representative:  
The Chairman,  
National Water Supply & Drainage Board(NWSDB),  
Galle Road, Ratmalana.

The Works consist of \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

located at \_\_\_\_\_

Intended Completion Date is \_\_\_\_\_ Days from the Start Date.

Name of the Contract \_\_\_\_\_  
Contract Number \_\_\_\_\_

The office for collection of bid forms is  
.....,  
National Water Supply & Drainage Board,  
.....,  
.....  
.....(Insert Relevant RSC Address)

The non-refundable fee is Rupees \_\_\_\_\_ Plus VAT,  
payable in cash.

The Bid forms will be issued until \_\_\_\_\_

(2.1) The source of funds is \_\_\_\_\_

4.2 (i) Minimum qualification to qualify for the award of the Contract is :  
Experience in Supply and Installation works of pumps at least one contract of a similar nature and complexity equivalent to the supply and Installation works over the last 5 years.

4.2(iv) Working Capital <sup>\*1</sup> + present available credit facilities for the company<sup>\*2</sup> + credit facilities exclusively for this contract - 0.1 x current work commitments<sup>\*3</sup> > Rs.....<sup>\*4</sup>

\*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 the estimated cost of the Bid.

### B. Contents of Bidding Documents

7.1 For **Clarification of bid purposes** only, the Employer's address is:

The Chairman, Regional Procurement Committee,  
National Water Supply & Drainage Board

.....

.....(Insert relevant RSC Address)

Fax . ..... Tel:.....

### C. Preparation of Bids

11.1 (o) The Bidder shall submit the following additional documents:

The information listed below shall be submitted with the offer to the Engineer for review. The submittals shall include:

1. Dimensioned cross sectional drawing of the pump complete with materials of manufacture.
2. Pump performance curves showing
  - Head (m) Vs flow (m<sup>3</sup>/h or l/s)
  - Pump efficiency Vs flow (m<sup>3</sup>/h or l/s)
  - Power required to drive pump (kW) Vs flow (m<sup>3</sup>/h or l/s)
  - NPSH Required (m) Vs flow (m<sup>3</sup>/h or l/s)

3. All motor information.
4. Proposed panel layout (indicators, meters, switches etc.)
5. Specification for MCCB's, MCB's, Busbars, Drives etc.
6. Specification for transducers, sensors etc.

Printed literature – supporting details given in the questionnaire.

- 17.3** Period of time the Goods are expected to be functioning.( for the purpose of spare parts): .....
- 19.1** The Bid shall be valid for ..... Days from the date closing of the bids as specified in the IFB.
- 20.1** Bid shall include a Bid Security in the format included in Section 11 Specimen Forms
- 20.2** The amount of the Bid Security shall be: Rs. ....
- 20.3** The validity period of the bid security shall be until.....(give a Date)

#### **D. Submission and Opening of Bids**

- 22.2 (ii)** The inner and outer envelopes shall be addressed to the following address.
- The Chairman, Regional Procurement Committee,  
National Water Supply & Drainage Board  
.....  
.....(*Insert relevant RSC Address*)
- 22.2 (iii)** Contract name: \_\_\_\_\_  
Contract no. \_\_\_\_\_
- 23.1** The Address for the submission of bids is
- The Chairman, Regional Procurement Committee,  
National Water Supply & Drainage Board  
.....  
.....(*Insert relevant RSC Address*)
- The deadline for the submission of bids.  
Date: ..... Time: .....

**26.1** The bid opening shall take place at:  
 .....  
 National Water Supply & Drainage Board  
 .....  
 .....(Insert relevant RSC Address)  
 Date: ..... Time: .....

- 35.2 (xii)**
- i. Economic life of Pumping Unit ..... Years.(indicate figure)
  - ii. Discounting Rate .....%. (indicate figure)
  - iii. Power Cost Rs ...../ kWh. (indicate figure)
  - iv. Annual Operation as mentioned in the particular specification

**E. Evaluation and Comparison of Bids**

**42.1.** Prevailing rate of stamp duty is nil.

**43.1** The amount of performance security shall be .....% of the contract Price

**48.1** The equipment to be provided under this contract shall be suitable for installation and operation at elevations of about ..... m.(to be indicated) above sea level inside weather protected structures. Outside ambient temperatures range between ..... and ..... °C and water temperature varies between ..... and .....°C.  
 Relative Humidity is expected to range between ..... and 100%. Atmosphere is dusty.



## **5. CONTRACT DATA**

The Contract Data is a part of General Conditions of Contract and shall 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.)*

## Contract Data

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

The following Contract Data shall supplement and / or amend the Conditions of Contract (CC). Whenever there is a conflict, the provisions herein shall prevail over those in the CC.

*[The Purchaser shall select insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]*

**1.1(g)** Defects Liability Period is 365 Days.

**1.1(i)** The Engineer is  
General Manager,  
National Water Supply and Drainage Board,  
Galle Road, Ratmalana.

**1.1(k)** The Purchaser / Employer is  
Name: National Water Supply and Drainage Board,  
Address: Galle Road, Ratmalana  
Name of Authorized Representative: The Chairman,  
National Water Supply & Drainage Board,;

**1.1 (o)** The Project Site(s)/Final Destination(s) is/are:

**1.1 (u)** The Start Date shall be 14 Days from the Letter of Acceptance.

**1.2** Name of Engineer's Representative : \_\_\_\_\_  
*(Fill the Name of PD / DGM of relevant RSC and Designation)*

**8.1** For **notices**, the Purchaser's address shall be:

Attention:

Address:

Telephone:

Facsimile number:

Electronic mail address:

**11.1** The Works consists of  
.....  
.....  
.....  
.....

**11.4** Contract period is .....

**12.1** Details of Shipping and other Documents to be furnished by the Supplier are;

- Work programme including Procurement of Pumps & Motor and Accessories
- Installation drawings
- Testing procedures
- Technical literatures
- Operation & Maintenance Manual
- Drawings
- Technical details required for Training of Operation Staff
- All documents requested for payment in **Clause 15** hereof
- All Technical details for Automation (if applicable only)
- Surge calculation (if applicable)
- Technical literatures of Surge Protection System (Electrical/Hydraulic)
- Any other document requested by the Employer/ Engineer

**13.27.1** Contractor shall supply operation and maintenance manuals before the testing of pumps at site and as built drawing within two weeks from the date of completion of the work.

**13.27.2** The Engineer shall withhold 5% of the Initial Contract Price.

**23** The minimum insurance covers shall be :

(a) The minimum cover for insurance of the Works and of Plant and Materials is 110% of the Initial Contract Price.

The maximum deductible for insurance of the Works and of Plant and Materials is 5% of the Initial Contract Price.

(b) The minimum cover for loss or damage to Equipment is the replacement cost of equipment

The maximum deductible for insurance of Equipment is 5% of the replacement cost of the equipment

- (c) The minimum cover for insurance of other property (other than the Site) is (to cover the building and property adjacent to the site and reinstatement of.....)
- (d) The minimum cover for personal injury or death, for third party and employees of the Employer and other persons engaged by the Employer in the Works is Rs 1,000,000 per event, **number of events are unlimited**
- (e) The minimum cover for personal injury or death,
  - for the Contractor's workmen is Rs 1,000,000 per event , number of events are unlimited.
  - Contractor's employees other than workmen is Rs 1,000,000 per event , number of events are unlimited.

**23.8** Marine Insurance shall be in an amount equal to 110% of the CIF value of the goods from “warehouse to Warehouse” on “all risk” Basis.

**25.1** Tests to be performed as per the specification.

Material

Performance

Assembling

Any other test which affect for the durability and the trouble free operation of the good

Inspections to be done

Manufacture’s test - Comprehensive

Independent Inspection Agency - comprehensive

**26.1** Liquidated damages is Rs..... per Day

The maximum amount of liquidated damages shall be 10% of the Contract Price

**27.3** The comprehensive warranty shall be valid up to three years from the date of taking over for trouble free operation.

The warranty shall cover following items/parts (Generally pumps and motors)

.....

**27.5** Attend to repairs within ..... Days from the Notification.

**43.0** The contractor shall provide the following in three copies at least **14 Days** before handing over of the equipment.

- 1 Certified copies of all performance test results of pumps and motors.
- 2 Manufacturer's Certification that all pumping units, motor control equipment is fully in conformance with the specification along with shipping documents.
- 3 Operation and Maintenance manuals of Pumps and Motors.
- 4 Control wiring diagrams for Electrical Panels. (Including Automatic Controls).
- 5 Spare Parts Manuals.

### DELIVERY SCHEDULE

Item No.	Description of Goods	Quantity	Unit	Final Destination [insert place of Delivery]	Delivery Date
					Purchaser's delivery date as per the contract
01	Pumps				
02	Motor				
03	Accessories				

## 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	
<b>(A) Foreign Payment</b>					
1	First installment	On shipping the items part or fully	<ul style="list-style-type: none"> <li>◆ Copies of the Supplier's invoice showing description of Goods, quantity, unit price, total amount and HS Code Number;</li> <li>◆ 3 copies of clean on-board bill of lading marked freight prepaid.</li> <li>◆ Copies of packing list identifying contents of each package and measurements</li> <li>◆ Manufacturer's warranty certificate as per <b>Clause 15</b> hereof.</li> <li>◆ Inspection certificates, issued by the nominated inspection agency.</li> <li>◆ Manufacturer's Inspection and Test Certificate</li> <li>◆ Certificate of origin</li> <li>◆ Certificate of conformity to the requirements specified in the specifications.</li> </ul>	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 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. Submission of Bank guarantee for 5% of Contract Price as a retention money.	Balance 25% of the foreign component .	The Foreign component of Contract Sum shall become payable within <u>60 Days</u> from the date of the Engineer's Final Acceptance Certificate.
<b>(B) Local Payment</b>					
3	First Payment of supply bill	On delivery and stacking of the Goods at site	Document providing the delivered Goods and passed in test performed are in compliance with the specifications.	90% of the Local component of the Contract Price less Bank charges	Sri Lanka Rupees component by a cheque in favour of the supplier.
4	Balance Local Payment of supply bill	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 remaining Bank charges.	The total Contract Sum shall become payable within <u>60 Days</u> from the date of the Engineer's Final Acceptance Certificate.
5	Installation Bill (Local )payment	On Final Acceptance Certificate.	A written request for the Engineer's Representative's approval for the payment.	As requested by the Contractor in their offer.	

## 6. SPECIFICATION

<ul style="list-style-type: none"><li>• SPECIFICATION FOR SUPPLY &amp; INSTALLATION OF AUTO COUPLING TYPE WET WELL ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS AND ACCESSORIES (WET WELL BELOW 30KW)</li></ul>	6ae-1 to 6ae-19
<ul style="list-style-type: none"><li>• SPECIFICATION FOR SUPPLY &amp; INSTALLATION OF AUTO COUPLING TYPE DRY WELL ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS AND ACCESSORIES (DRY WELL BELOW 30KW)</li></ul>	6ag-1 to 6ag-19





## **7. SCHEDULE OF PARTICULARS**

- **WET/DRY WELL below 30kW**

***SCHEDULE OF PARTICULARS FOR  
AUTO COUPLING  
TYPE WET/DRY WELL ELECTRICALLY DRIVEN  
SUBMERSIBLE PUMPS AND ACCESSORIES***

**(OUT PUT HYDRAULIC POWER BELOW 30 KW AT THE SPECIFIED OPERATING POINT AS PER  
THE SPECIFICATION)**

**WET/DRY WELL below 30 kW**

**SUPPLY & INSTALLATION OF AUTO COUPLING TYPE WET/ DRY  
WELL ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

**SCHEDULE OF PARTICULARS**

**NOTES**

1. The Bidder shall complete the questionnaire pertaining to the equipment, which he offers, and return with his tender and give all details relevant to the equipment offered.
2. All equipment shall be interconnected electrically and mechanically and all necessary wiring, earths etc. on the load side of the circuit breaker, fuses, identification labels and sundries shall be supplied. Wiring is to be in PVC conduit where necessary.
3. All equipment shall be capable of operation in a damp tropical climate, with temperature between 20 °C and 40 °C (60 °F and 104 °F) and relative humidity of 70% to 100%.
4. Each unit or complete equipment shall be provided with a diagram of connection on a plate of metallic or other materials, fixed in a suitable place.
5. Unless otherwise specified, all materials, equipment and protective devices shall conform to the relevant B.S.S. and to the requirements of the Ceylon Electricity Board.
6. All test results, literature, manuals, spares list etc. shall be supplied with the equipment at the time the equipment is delivered at site and the supply of equipment shall not be considered as complete for purpose of payment until the documents specified are delivered.
7. Important:  
**The Bidder shall fill in completely the Questionnaire attached herewith. The tender is liable to be rejected if the required details are not furnished.**

## 1.1. PUMPS & ACCESSORIES

This questionnaire shall be filled by the Bidder and supported with manufacturer's printed technical literature for each pumping station. If any information given in the questionnaire is found to differ at the final handing over, the contractor shall be held responsible for it and cost of improvement to meet the indicated specifications shall be recovered from any payments due to the contractor.

A separate schedule is to be provided for each different model number of pump hiring supplied.

No.	Description	NWSDB Requirement	Bidder's Proposal
1.1.1	ISO 9001:2015 Quality Management System Certificate available for manufacturer's work:		
1.1.2	Make and country of manufacturer:		
1.1.3	Country of origin:		
1.1.4	Type/Model No:		
1.1.5	Shaft Material & Relevant Standard:		
1.1.6	Casing Material & Relevant Standard:		
1.1.7	Material and internal coating of the housing and thickness		
1.1.8	Number of Stages:		
1.1.9	Delivery Diameters of Pumps:		
1.1.10	Impeller trimmed or original		
1.1.11	Actual Impeller diameter		
1.1.12	Nominal Operation Speed (rpm)		
1.1.13	Capacity at specified head L/s :		
1.1.14	Capacity at 10% less head L/s :		
1.1.15	Capacity at 10% more head L/s :		
1.1.16	Pump efficiency at specified head % :		
1.1.17	Shut off head of pump unit :		
1.1.18	Type of lubricant (oil) in the seal chamber (details of the oil should be mentioned) :		
1.1.19	Pump Bearing Numbers :		
1.1.20	Size of the solid particles can be handled :		
1.1.21	Impeller type & material, relevant material standard :		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.1.22	Impeller coating detail and coat thickness :		
1.1.23	Pump and motor coating details and thickness :		
1.1.24	Upper and lower seal material		
1.1.25	Details of Best Efficiency Point (BEP)		
	a. Capacity		
	b. Head		
	c. Power		
	d. Efficiency		
1.1.26	Details of Operating Point (OP)		
	a. Capacity		
	b. Head		
	c. Power		
	d. Efficiency		
1.1.27	Pump material details :		
	(A) Casing material:		
	a) Material testing report provide or not		
	b) Relevant material standard		
	c) Equivalent BS/DIN/JS/EN-GJS Standard		
	(B) Impeller material		
	a) Material testing report provide or not		
	b) Relevant material standard		
	c) Equivalent BS/DIN/JS/EN-GJS Standard		
	d)		
1.1.28	Paint details (If paint is available, following should be clearly specify)		
	a). Impeller:		
	i. Type of paint		
	ii. No of Coating		
	iii. Thickness of coating		
	iv. Paint supplier address		

No.	Description	NWSDB Requirement	Bidder's Proposal
	b). Pump Casting Internal paint details:		
	i. Type of paint		
	ii. No of Coating		
	iii. Thickness of coating		
	iv. Paint supplier address		
	c). Pump and Motor External paint details:		
	i. Type of paint		
	ii. No of Coating		
	iii. Thickness of coating		
	iv. Paint supplier address		

## 1.2. Motor

No.	Description	NWSDB Requirement	Bidder's Proposal
1.2.1	Is ISO 9001: 2015 Quality Management System Certificate available for manufacturer'		
1.2.2	Make and Country of Manufacture:		
1.2.3	Type/Model No.		
1.2.4	Class of Insulation:		
1.2.5	Temperature rise after 6 hours operation:		
1.2.6	Nominal operating voltage :		
1.2.7	Nominal operating frequency (Hz) :		
1.2.8	Full load speed (RPM)		
1.2.9	Number of Phases :		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.2.10	Allowable Supply Voltage fluctuation + % :		
1.2.11	Rated output KW :		
1.2.12	Power factor (Full load) :		
1.2.13	Power factor (3/4 load) :		
1.2.14	Power factor (1/2 load) :		
1.2.15	Current (Full load) A :		
1.2.16	Current (No load) :		
1.2.17	Degree of Protection of enclosure :		
1.2.18	Starting current :		
1.2.19	Motor Bearing Numbers :		
1.2.20	Motor efficiency at duty point :		
1.2.21	Are thermal sensors installed?		
1.2.22	Motor cooling method		
1.2.23	Maximum possible number of starts per hour		
1.2.24	Are moisture detectors installed?		
1.2.25	Water in oil sensor available or not		



### 1.3. General for Pumps & Accessories

No.	Description	NWSDB Requirement	Bidder's Proposal
1.3.1	Total weight of the unit		
1.3.2	Overall efficiency at duty point :		
1.3.3	Local agent, if available :		
1.3.4	No of similar pumps installed in Sri Lanka :		
1.3.5	Maximum allowable water temp :		
1.3.6	Maximum Overall diameter of Unit :		
1.3.7	Maximum allowable ambient temperature :		
1.3.8	Power absorbed by the pump at duty point		
1.3.9	Minimum operating head of the pump and relevant capacity:		
1.3.10	Power absorbed at operating point given in the above item No. 10:		
1.3.11	Pump efficiency at operating point given in the above Item No. 10.		
1.3.12	What are the special features in the system incorporated for withstanding corrosive atmosphere:		
1.3.13	Details of the registered workshop and facilities available		
1.3.14	After sales service available		

## 1.4. DUCTILE IRON PIPES AND FITTINGS

### 1.4.a. Flanged pipes

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.a i	Name & Address of Manufacturer's factory:		
1.4.a ii	Name and address of the Manufacturer's Agent in Sri Lanka:		
1.4.a iii	Port of shipment:		
1.4.a iv	Manufacturing Process:		
1.4.a v			
	• Class of pipe :		
	• Standard to which pipes conform to:		
	• Standard to which flanges conform to:		
1.4.a vi	Gaskets for flanged joints:		
	• Standard to which the product conforms to :		
	• Material:		
1.4.a vii	Bolts for flanges:		
	Dia. Length No. off for 1 set Material		
1.4.a viii	Thickness of internal lining:		
	• Cement:		
	• Cement type used for lining:		
1.4.a ix	Thickness of external coating:		
	• Bitumen:		
	• Zinc:		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.a x	Protection of pipes and pipe ends in transit:		
1.4.a xi	Nature of casting (i.e. Integrally Cast or welded):		
1.4.a xii	State whether welding is done under factory conditions at the point of manufacture in the case of welded pipes:		
1.4.a xiii	Availability of ISO 9001: 2015 Certificate for Quality Management System:		
1.4.a xiv	Indicate whether manufacturer's Identification mark cast/embossed on pipes:		

#### 1.4.b. Fittings (except Tees)

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.b i	Name & Address of Manufacturer's factory:		
1.4.b ii	Name & Address of Manufacturer's Agent's in Sri Lanka:		
1.4.b iii	Port of shipment:		
1.4.b iv	Manufacturing Process:		
	• Class of pipe :		
	• Standard to which fittings conforms to:		
	• Standard to which flanges conforms to:		
1.4.b. v	Ring for Tyton Joint:		
	• Standard to which product conforms to:		
	• Material:		
1.4.b vi	Bolts for flanges:		
	Dia. Length No. off for 1 set Material		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.b vii	Thickness of internal lining:		
	• Cement		
	• Cement type used for lining		
1.4.b viii	Thickness of external coating:		
	• Bitumen		
	• Zinc		
1.4.b ix	Nature of casting (i.e. Integrally cast or welded):		
1.4.b x	State whether welding is done under factory condition at the point of manufacture in the case of welded fittings.		
1.4.b xi	Protection of fittings in transit :		
1.4.b xii	Availability of ISO 9001: 2015 Certificate for Quality Management System:		
1.4.b xiii	Indicate whether manufacturer's Identification mark cast/embossed on fittings:		

#### 1.4.c. Tees

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.c i	Name & Address of Manufacturer's factory:		
1.4.c ii	Name and address of the Manufacturer's Agent in Sri Lanka:		
1.4.c iii	Port of shipment:		
1.4.c iv	Manufacturing Process:		
	• Class of tees:		
	• Standard to which tees conform to:		
	• Standard to which flanges conform to		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.c v	Ring for Tyton Joint:		
	<ul style="list-style-type: none"> <li>• Standard to which product conforms to:</li> </ul>		
	<ul style="list-style-type: none"> <li>• Material:</li> </ul>		
1.4.c vi	Bolts for flanges:		
	Dia. Length No. off for 1 set Material		
1.4.c vii	Thickness of internal lining:		
	<ul style="list-style-type: none"> <li>• Cement</li> </ul>		
	<ul style="list-style-type: none"> <li>• Cement type used for internal lining</li> </ul>		
1.4.c viii	Thickness of external coating:		
	<ul style="list-style-type: none"> <li>• Bitumen</li> </ul>		
	<ul style="list-style-type: none"> <li>• Zinc</li> </ul>		
1.4.c ix	Nature of casting (i.e. Integrally cast or welded):		
1.4.c ix	State whether welding is done under factory conditions at the point of manufacture in the case of welded tees.		
1.4.c x	Protection of fittings in transit:		
1.4.c xi	Availability of ISO 9001: 2015 Certificate for Quality Management System:		
1.4.c xii	Indicate whether manufacturer's Identification mark cast/embossed on tees:		

#### 1.4.d. Flanged Adaptors and Couplings

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.d. i	Name & Address of Manufacturer's factory:		
1.4.d. ii	Name and address of the Manufacturer's Agent in Sri Lanka:		
1.4.d. iii	Port of shipment:		
1.4.d. iv	<ul style="list-style-type: none"> <li>• Manufacturing Process:</li> </ul>		
	<ul style="list-style-type: none"> <li>• Standards to which flanged adaptors and couplings conforms to :</li> </ul>		
1.4.d. v	Ring for Adaptors & couplings:		
	<ul style="list-style-type: none"> <li>• Standard to which the product conforms:</li> </ul>		
	<ul style="list-style-type: none"> <li>• Material:</li> </ul>		
	<ul style="list-style-type: none"> <li>• Standard to which flanges conform to</li> </ul>		
1.4.d. vi	Bolts for coupling and flange Adaptor:		
	Dia. Length No. off for 1 set Material		
1.4.d. vii	Details of corrosion protection:		
1.4.d. viii	Protection of flanged adaptors and Couplings in transit :		
1.4.d. ix	Protection for buried Flange Adaptors (Materials proposed and quantities for each size adaptor):		
1.4.d. x	Availability of ISO 9001: 2015 Certificate for Quality Management System:		
1.4.d. xi	Indicate whether manufacturer's Identification mark cast/embossed on couplings:		

### 1.4.e. Valves & Accessories

A separate schedule is to be provided for each size of valve being supplied

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.e. i	Name & Address of the Manufacturer's factory:		
1.4.e. ii	Name and address of the Manufacturer's Agent (if any) in Sri Lanka :		
1.4.e. iii	Port of shipment:		
1.4.e. iv	Time for delivery of materials:		
	• Gate valves:		
	• Reflux valves:		
1.4.e. v	Packing and protection of valves in transit:		
	• Gate valves:		
	• Reflux valves:		
1.4.e. vi	Description of valves and reference to accompanying catalogue/pamphlets (if any)		
	• Gate valves:		
	• Reflux valves:		
1.4.e. vii	Specify the Standards to which the following items to be supplied under this contract comply with:		
	• Gate valves:		
	• Reflux valves:		
1.4.e. viii	Material of:		
	• Valve body:		
	• Valve Stem:		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.4.e. ix	Pressure rating of flanges:		
1.4.e. x	Standard to which flanges conform to:		
1.4.e. xi	External protection details of valve:		
1.4.e. xii	Availability of ISO 9001: 2015 Certificate for Quality Management System:		
1.4.e. xiii	Indicate whether manufacturer's Identification mark cast/embossed on valves:		
1.4.e. xiv	What is the type of no return valve (Ball type, Swim type, liver type)		
1.4.e. xv	Type of Non return valve		
	<ul style="list-style-type: none"> <li>• Non –slam closure available or not(Explain the non slamming mechanism with literature)</li> </ul>		
	<ul style="list-style-type: none"> <li>• Rapid closure type or not(Explain the rapid closing mechanism with literature)</li> </ul>		
	<ul style="list-style-type: none"> <li>• Adjustable weights available or not</li> </ul>		
	<ul style="list-style-type: none"> <li>• Can be adjust the Rapid closure time (Explain the mechanism with literature)</li> </ul>		
	<ul style="list-style-type: none"> <li>• Material of Body</li> </ul>		
	<ul style="list-style-type: none"> <li>• Materials of Ball or disk</li> </ul>		



## 1.5. GENERAL FOR DI PIPES, VALVES, FITTINGS & SPECIALS

### 1.5.1. DI Pipes, Fittings & Specials

1.5.1.1 Name and address of the Insurance Corporation/Company, which will insure the materials between the place of manufacture and the final point of delivery:

1.5.1.2 Time for delivery of materials

<b>Material</b>	<b>Date of Shipping</b>	<b>Date of Delivery At Site</b>
1. Flanged pipes		
2. Fittings		
3. Adaptors & Couplings		
4. Accessories		

- i. Indicate whether all DI pipes, tees, bends & reducers are from the same source of manufacture (DI pipes & fittings from different sources of manufactures will not be accepted)
- ii. Supplies of similar nature carried out during the last three years.
- iii. Indicate whether ISO 9001: 2015 series for Quality Management System obtained for following products.

<b>Material</b>	<b>ISO 9001: 2015 Quality Management System obtained (Yes/No)</b>
1. Flanged pipes	
2. Fittings	
3. Adaptors & Couplings	
4. Accessories	

## 1.5.2. Valves

1.5.2.1 Name and address of the Insurance Corporation/Company, which will insure the materials between the place of manufacture and the final point of delivery:

a) Time for delivery of materials

<b>Material</b>	<b>Date of Shipping</b>	<b>Date of Delivery At Site</b>
1. Gate Valves		
2. Reflux Valves		
3. Accessories		

b) Supplies of similar nature carried out during the last three years.

1.5.2.2 Indicate whether ISO 9001: 2015 series for Quality Management System obtained for following products.

<b>Material</b>	<b>ISO 9001: 2015 Quality Management System obtained (Yes/No)</b>
1. Gate Valves	
2. Reflux Valves	
3. Accessories	

## 1.6. CONTROL PANEL

A separate schedule is to be provide for each control panel.

No.	Description	NWSDB Requirement	Bidder's Proposal
1.6.1	Capacity of incoming pannel (kW)		
1.6.2	Capacity of each starter (kW)		
1.6.3	Name of manufacture of the panel		
1.6.4	Make, model, rating and breaking capacity of MCCB in		
	a) Incoming section		
	b) Motor starting section		
	c) Auxiliary section		
1.6.5	Interlocking in the off position available		
1.6.6	Make and capacity of the contractors in the panel		
1.6.7	Make, Model and range of relays		
	a) Overload relays		
	b) Time delay		
	c) Voltage monitoring		
	d) Phase protection		
	e) Earth leakage		
	f) Other (Specify every relays in the panel)		
1.6.8	Make of panel enclosure and whether complies with the specifications.		
1.6.9	Details of earth fault protection		
	a) Type		
	b) Make & Model		
	c) Ratings		
	d) Short circuit capacity (kA)		
1.6.10	Details of the junction boxes		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.6.11	Details of auto transformer (tapping ratios shall be mentioned)		
1.6.12	Thermal overloads available for the auto transformer		
1.6.13	Control voltage		
1.6.14	Enclose paint details		
	a. Type of paint		
	b. No of Coating		
	c. Thickness of coating		
	d. Paint supplier address		
1.6.15	Power incoming section		
	a. Whole panel dimensions & weight		
	b. Power incoming section dimensions & weight		
	c. Ammeter range		
	d. Voltmeter range		
	e. Cos Ø meter range		
	f. Details of indicating bulbs		
1.6.16	Power motor starting section		
	a. Whole panel dimensions & weight		
	b. Power incoming section dimensions & weight		
	c. Voltmeter range		
	d. Cos Ø meter range		
	e. Details of indicating bulbs		
1.6.17	Cable		
1.6.17.1	Cable from Change over to panel to incoming section		
	a). Make		
	b). Type		
	c). Size (mm <sup>2</sup> )		

No.	Description	NWSDB Requirement	Bidder's Proposal
1.6.17.2	Cable from incoming section to starter		
	a). Make		
	b). Type		
	c). Size (mm <sup>2</sup> )		
1.6.17.3	Submersible motor Cable (Starter to motor)		
	a). Make		
	b). Type		
	c). Size (mm <sup>2</sup> )		
1.6.17.4	Control cables		
	a). Make		
	b). Type		
	c). Size (mm <sup>2</sup> )		

	Description	Make	Size (mm <sup>2</sup> )	Type (Core/Armour)	Material (Cu/Al)	Length
1	Cable from CEB panel to starter					
2	Cable from motor starter to junction box					
3	Submersible motor cable					
4	Control cables					

## **8. DEVIATION FROM SPECIFICATION**

## DEVIATIONS FROM SPECIFICATIONS

### Preamble

The Bidder is required to list any deviations of materials workmanship etc. from the Specifications including such information as has already been given elsewhere in the Bidding Documents. The information shall be in sufficient detail to enable the Engineer to make a realistic assessment of the effect of such deviations on the performance or life of the materials to be supplied and also such deviation if any shall be subject to **Clause 29** of Instructions to Bidders.

The list shall also include deviations from the Specifications relating to the mode of operation and/or control of any item of equipment, and any deviations from the specified design requirements for plant components.

### Deviations

### Note:

Additional sheets shall be attached as necessary

## **9. LIST OF DRAWINGS**



## LIST OF DRAWINGS

<b>Drg. No.</b>	<b>Description</b>

## **10. BILL OF QUANTITIES**

**SUPPLY & INSTALLATION OF AUTO COUPLING TYPE WET/DRY  
WELL ELECTRICALY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**BILL OF QUANTITIES**

NOTES

**1. Documents to be read in conjunction with the Bill of Quantities**

1.1 Attention is directed to the Form of Bid, Notice to Bidders, Instructions to Bidders, Conditions of Contract, Specifications and Appendices, which are to be read in conjunction with the Bill of Quantities.

**2. Description of Items**

2.1 General obligations and general descriptions of work and material given in the Conditions of Contract and the Specifications are not necessarily repeated in the Bill of Quantities.

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

2.3 Reference is to be made to the Conditions of Contract, Specifications and the Appendices for detailed information.

**3. Contracts to be priced completely**

3.1 The Bidders may price one or more of the Bills in the Bill of Quantities. Each priced bill must be complete by itself and the final summary, covering all bills, must be completed.

**4. Rates and Prices to be fully inclusive**

4.1 In pricing the items of the Bills, the Bidder shall cover himself and will be deemed to have covered himself for:-

a) All services and materials which according to the true intent and meaning of the contract may be reasonably inferred as necessary for completion of delivery/installation of the materials and equipment in sound condition to the site as indicated in the schedule of requirements.

b) All obligations, liabilities and responsibilities that the Contract Documents place upon the Bidders in connection with or in relation to the Contract.

4.2 The Bidder shall include in his Bided prices, unless itemised separately for:-

- (a) All costs arising out of inspection and testing at the place of manufacture.
  - (b) All costs of packing as specified or as required for export overseas and storage.
  - (c) All costs and insurances of delivering the materials to the site/stores as indicated in the Schedule of Requirements.
  - (d) All costs incurred in the installation of pumps/control panels and all necessary accessories according to the drawings and specifications.
5. Bids with unit prices which are so unbalanced as to be detrimental to the Employer's interests may be rejected or cause rejection, at the discretion of the Employer.
  6. Unit rates accepted by the Employer shall be held good and effective until the work is completed and accepted by the Employer.
  7. A rate and/or price is to be entered against each item in the Bill of Quantities whether quantities are stated or not. The cost of any item against which a rate has not been entered shall be deemed to be covered by other rates in the corresponding bill.
  8. All bends, tees & reducers shall be from a single source of manufacture. Fittings from different sources of manufactures shall not be accepted. ISO 9001: 2015 for quality assurance issued by an accredited body shall be forwarded along with the Bid for all items offered.
  9. Cost of combined allowance for pre-shipment inspection for two Engineers by the Employer shall be for the entire duration as per the **Clause 8.2** of the Conditions of Contract. If any shortage is found, the supplier shall bear the additional cost.
  10. Cost of Inspection and Testing by the Independent Inspection and Testing Agency shall be as per the **Clause 25** of the Conditions of Contract.



**SUPPLY OF AUTO COUPLING TYPE WET/DRY WELL  
ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**SUMMARY OF BILL NO. 01**

<b>Page Number</b>	<b>Amount (LKR.)</b>
Page No. 10 - .....	
<b>Total of Page No.10 - ..... Carried to Summary of Bills in Page No. 10 - .....</b>	

**SUPPLY OF AUTO COUPLING TYPE WET/DRY WELL  
ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

**CONTRACT No. ....**

**BILL OF QUANTITIES**

**BILL No 02: Supply Bill**

Item No.	Description	Qty.	Unit	Rate		Amount	
				Foreign (FOB) USD	Local LKR.	Foreign (FOB) USD	Local LKR.
1	Supply of wet/dry well auto coupling type electrically submersible sewage pumping sets as specified in the specification of capacity ..... against a total head of ..... with duck foot bend, SS guide rails as shown in the drawing & ..... long Stainless Steel lifting chain as per the specifications. The each pump shall provide minimum of ..... long submersible power cables up to the panel board. (All Stainless Steel material to be SS316)	03	Nos.				
2	Supply of Identical Pump above with .....m long Stainless Steel lifting chain and minimum of .....m long submersible power cable as per the specifications. (The pump to be kept at the stores as a spare)	01	No				
3	Supply of DI pipes & fittings and specials as per the drawing ..... including, Non return Valves(PN...,DN...), Sluice valves(PN...,DN...), Flange Adaptors, Couplings, with required all necessary accessories(pressure gauges, etc.)to full fill the requirement as per the drawing. (Rate to include all necessary pipes supporting arrangement as per drawing.)	-	Item				
4	Supply of floor/wall mounted type electrical panel complete with all necessary accessories, switchgears, cables, earth system, Junction box(IP68) etc, and level monitoring equipments as float sensors/ultrasonic level sensors and their cables for the above pumps as per the specification.	-	Item				
	Total of page No. 10- ..... carried to Summary in page 10 – .....						

Item No.	Description	Qty	Unit	Rate		Amount	
				Foreign (FOB) USD	Local LKR.	Foreign (FOB) USD	Local LKR.
5	Supply of spares, as specified in specifications for satisfactory operation of the pumps. (Bidder shall submit an itemized and priced list of spares).	-	Item				
6	Supply of four complete sets of pump catalogues, manuals, spare parts manuals etc. as specified in specification	-	Item				
	<b>Total of page No. 10- .... carried to Summary in page 10 – ....</b>						



**SUPPLY OF AUTO COUPLING TYPE WET/DRY WELL  
ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**SUMMARY OF BILL NO. 02**

Page Number	Unit	Amount	
		Foreign (USD)	Local (LKR.)
Page No. 10 - ....	-		
Page No. 10 - ....	-		
Freight	Sum		
Cost of Inspection and Testing by Independent Testing & Inspection Agency as per clause no 25 of Conditions of Contract.	Sum		
<b>Total of Page No.10 - .... Carried to Summary of Bills in Page No. 10 - ....</b>	-		

**SUPPLY OF AUTO COUPLING TYPE WET/DRY WELL  
ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**BILL OF QUANTITIES**

**BILL No 03: Installation Bill**

Item No.	Description	Qty.	Unit	Rate Local (LKR.)	Amount Local (LKR.)
1	Installations of pumps, pipe & fittings and accessories supplied under above Item No 2 & 4. including all necessary supporting arrangements as per drawings (Rate to include for construction of suitable concrete foundations, metal and welding, breaking and making good of walls and floor]	-	Item		
2	Installation of the panel and level monitoring equipment's supplied under above Item 06 and with all accessories, laying & fixing cables etc. Including construction of panel supporting structures using Grade 20 concrete.	-	Item		
3	Testing and commissioning of all above equipment to the satisfaction of Engineer.	-	Item		
	<b>Total of page No. 10- .... carried to Summary in page 10 – ....</b>				

**SUPPLY OF AUTO COUPLING TYPE WET/DRY WELL  
ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**SUMMARY OF BILL NO. 03**

<b>Page Number</b>	<b>Amount (LKR.)</b>
Page No. 10 - ....	
<b>Total of Page No.10 - .... Carried to Summary of Bills in Page No. 10 - ....</b>	

**SUPPLY & INSTALLATION OF AUTO COUPLING TYPE WET/ DRY  
WELL ELECTRICALY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**SUMMARY OF BILLS**

Bill No.	Description	Amount	
		Foreign (USD)	Local (LKR.)
01	General Bill	.....	.....
02	Supply of auto coupling type wet/dry well electrically driven submersible pumps and accessories	.....	.....
03	Installation of auto coupling type wet/dry well electrically driven submersible pumps and accessories	.....	.....
04	.....	.....	.....
.....	.....	.....	.....
	<b>Sub Total 1 carried forwarded to Grand Summary</b>		

**SUPPLY & INSTALLATION OF AUTO COUPLING TYPE WET/ DRY  
WELL ELECTRICALLY DRIVEN SUBMERSIBLE PUMPS  
AND ACCESSORIES**

CONTRACT No. ....

**GRAND SUMMARY**

Bill No.	Description	Amount LKR
<b>A</b>	<b>Sub Total 1</b>	
<b>B</b>	Less : Provisional Sums (if any)	
<b>C</b>	<b>Sub Total 2 (A-B)</b>	
<b>D</b>	Less : Discount (if any) .....	
<b>E</b>	<b>Sub Total 3 (C-D)</b>	
<b>F</b>	Add : Provisional Sums (if any)	
<b>G</b>	<b>Sub Total 4 (E+F)</b>	
<b>H</b>	Add : Contingencies 10% ( for Sub Total 4)	
<b>I</b>	<b>Grand Total (G+H) carried to Form of Bid (excluding VAT)</b>	
<b>J</b>	VAT (.....%)	
<b>K</b>	<b>Grand Total Including VAT ( I+J )</b>	

VAT Registration Number : .....

(A copy of the VAT Registration Certificate shall be annexed.)

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

## **11. SPECIMEN FORMS**

- **BID SECURITY**
- **CONTRACT AGREEMENT**
- **PERFORMANCE GUARANTEE**
- **ADVANCE PAYMENT SECURITY**
- **LETTER OF ACCEPTANCE**
- **RETENTION MONEY GUARANTEE FORM**

**FORM OF BID SECURITY (Unconditional)**

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

.....  
.....

Beneficiary : Chairman  
National Water Supply and Drainage Board  
Galle Road, Ratmalana

Date..... BID GUARANTEE 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 Guarantee.

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 Guarantee 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 Guarantee 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  
SRI LANKA**

**MINISTRY OF .....**

**NATIONAL WATER SUPPLY AND DRAINAGE BOARD**

**PROCUREMENT OF SUPPLY AND INSTALLATION OF**

.....  
  
...../SEWERAGE SCHEME

**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 Its office at .....  
.....(hereinafter called "the Contractor" 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 Contractor for the supply and installation of .....  
..... to ..... at locations as specified in the Delivery Schedule and has accepted a Bid by the Contractor 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:



1. For the consideration hereinafter mentioned the Contractor 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 Tenderers, Contract data, Bid Data and Schedule of Particulars and Form of Tender, 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 Contractor 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;

(a) "The Procurement Committee" shall mean the Procurement Committee appointed for the purpose of determining the Tender.

(b) "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.

- (c) "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.
- (d) "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.
- (e) "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.
- (f) "The Government" shall mean the Government of the Democratic Socialist Republic of Sri Lanka.
- (g) "The Purchaser" or "The Board" shall mean the National Water Supply and Drainage Board.
- (h) "Months" shall mean calendar months.
- (i) "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.
- (j) "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.
- (k) "The Works" shall mean the supply, delivery and Installation of Goods and the Services.
- (l) "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.
- (m) "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 Contractor

WITNESSES

Signature 1: ..... Signature 2 : .....  
Name : ..... Name : .....  
Address ..... Address .....  
.....

**FORM OF PERFORMANCE GUARANTEE (Unconditional)**

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

Beneficiary : Chairman  
National Water Supply and Drainage Board  
Galle Road, Ratmalana

Date .....

**PERFORMANCE GUARANTEE 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”] 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 guarantee 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 Defects Liability Period] 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

Witness  
Name : .....

Signature : .....

T&C/  
.....  
.....  
.....

.....[Date]

**Regd. Post**

Ms. ....  
.....  
.....

Dear Sirs,

**SUPPLY AND INSTALLATION OF SEWAGE PUMPING SETS AND ACCESSORIES  
FOR ..... SEWERAGE SCHEME**

**CONTRACT NO: .....**

**LETTER OF ACCEPTANCE**

We are pleased to inform you that your offer submitted on .....[date] on the above bid, amounting to United States Dollars ..... (US\$...../=) Plus Sri Lanka Rupees ..... (LKR.....) has been accepted.

- Applicable VAT will be payable on production of Tax Invoices. The Registered No. for NWSDB for VAT is 4090318207000.
- Pumps and Accessories shall be from .....

Inspection and Testing of goods shall be carried as per **Clause 25** of General Conditions of Contract with respect to quantity, quality and loading prior to shipment and certificates shall be forwarded to .....

All Pumps & Accessories 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 Day not exceeding 10% of the total Contract Price.

An advance payment shall not be paid for this contract.

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 Defects Liability Period, from the date hereof shall be submitted within 14 Days from the date hereof. Performance Security shall be denominated in the currency of contract and proportionate to the each currency.

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

**. FORM OF RETENTION MONEY GUARANTEE**

.....  
[ Issuing Agency’s Name, and Address of Issuing Branch or Office]

**Beneficiary :** .....  
.....  
.....[Name and Address of Employer :insert relevant Address]

**Date :** .....

**RETENTION MONEY GUARANTEE No.:** .....

We have been informed that .....  
[name of Contractor/supplier] (Hereinafter called “the Contractor”) has entered into Contract  
No..... [Reference number of the contract]  
dated ..... with you, for the execution of .....  
..... [Name of contract and brief  
description of Works] (Hereinafter called “the Contract”).

Furthermore, we understand that, according to the Government procurement Guideline and the decision  
taken by the Board of Directors of the National Water Supply & Drainage Board to release retention  
money when it reaches 5% of Contract Price, the Employer would release to the  
sum.....[amount in figures]  
(.....)  
[amount in words] is to be made against and unconditional on demand guarantee acceptable to the  
Employer

At the request of the Contractor, we .....  
[name of agency] hereby irrevocably undertake 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  
Contractor is in breach of its obligation under the Contract .

This guarantee shall expire, on .....[28 Days beyond the Defects  
Notification period/ Defects Liability Period].

Consequently, any demand for payment under this guarantee must be received by us at this office on or  
before that date.

.....  
[Signature(s)]  
Signature and seal of the guarantor

Witness  
Name : .....  
Signature.....

## **12. APPENDICES**



**APPENDIX 1A- DETAILS OF SIMILAR SUPPLIES COMPLETED WITHIN THE LAST FIVE YEARS AND ONGOING**

<b>Name and Address of Employer</b>	Name and details of Contract	Value of Contract	Period of Contract	Remarks (Completed/ ongoing etc)	Value of work remaining incomplete

**APPENDIX 1B- DETAILS OF SIMILAR INSTALLATIONS COMPLETED WITHIN THE LAST 05 YEARS AND ONGOING**

Name and Address of Employer	Name and details of Contract	Value of Contract	Period of Contract	Remarks (Completed/ ongoing etc)	Value of work remaining incomplete

## APPENDIX 2 - SCHEDULE OF TECHNICAL PERSONS & FACILITIES

### 1. Details of Workshops

Location	Minimum Facilities Required	Available facilities	Remarks
	<ul style="list-style-type: none"> <li>- General Engineering tools</li> <li>- Hydraulic pressure</li> <li>- Precision measuring tools</li> <li>- Power factor</li> <li>- Clipon meter</li> <li>- Power analyzer</li> <li>- Flow meter</li> <li>- Pressure gauges</li> <li>- Motor starters</li> <li>- Meggar</li> </ul>		

### 2. Stocks of Spare Parts

Item	Minimum No required	Availability	Remarks
Bearings			
Packings			
Circlips& similar specials fasteners			
Lantern rings			
Wear rings			

### Technical Staff

Mechanical Engineer /or	01
Electrical Engineer	01
Technical officer (Mechanical/Electrical)	01
Mechanic	01
Electrician	01

### APPENDIX 3 - 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. (see note below).

#### 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 = $\frac{\text{Current Assets}}{\text{Current Liability}}$			
Liquidity Ratio = $\frac{\text{Current Assets(except stock)}}{\text{Current Liability}}$			
Gearing Ratio = $\frac{\text{Debt Capital} \times 100}{\text{Total Capital Employed}}$			
$\frac{\text{Turnover}}{\text{Total Operating Assets}} \times 100$			
$\frac{\text{Net Profit}}{\text{Total Assets}} \times 100$			

**APPENDIX 3A – AUTHORIZATION FOR BANK REFERENCES**

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

..... *[Bidder's Name]*  
.....*[Address]*  
.....  
.....

Manager ..... *[Name of Bank]*  
.....*[Address]*  
.....  
.....

Dear Sir,

I hereby Authorize the National Water Supply & Drainage Board, on behalf of the Procurement Committee, to seek references of Bank details in order to evaluate the financial statues of our company M/s .....  
.....*[Bidder's Name & Address]* in connections with the ..... *[Contract Name & Number]* bid, submitted by us.

Yours faithfully,

.....  
.....  
Authorized officer of the Bidder.

Note : If there are more than one bank, separate letters shall be submitted for each bank.

**APPENDIX 4 - CONFIRMATION OF CAPABILITY OF PRODUCTION AND SUPPLY ACCORDING TO DELIVERY SCHEDULE.**

[Address of the Manufacturer]

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

Chairman,  
Procurement Committee,

**Bid for Supply & Installation of Sewage Pumping Sets and Accessories**

**Contract No.....**

We, .....[*name of manufacturer*] of  
.....[*address of manufacturer*] confirm  
that we have sufficient production capacity to produce the quantity of M&E Equipment  
submitted in our bid and shall deliver them according to the delivery schedule indicated in the  
bid.

.....  
Authorised Officer of the Manufacturer.

.....  
Seal of the Company.

Name: .....

Certified by

.....  
Authorized officer of the Bidder

.....  
Seal of the Company

Name : .....

**APPENDIX 5 - MANUFACTURER’S AUTHORIZATION TO SIGN THE CONTRACT**

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

We .....[insert complete name of Manufacturer], who are official manufacturers of M&E Equipment having factories at .....[insert full address of Manufacturer’s factories], do hereby authorize ..... [insert complete name of Bidder] to submit a bid the purpose of which is to provide, M&E Equipment manufactured by us ..... [insert name] and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with **Clause 27** of the General Conditions of Contract, with respect to the Goods offered by the above firm.

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

Name : .....[insert complete name(s) of authorized representative(s) of the Manufacturer]

Title : ..... [insert title]

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

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

## APPENDIX 6 - SCHEDULE OF PLANT AND EQUIPMENT PROPOSED FOR PUMPS, INSTALLATIONS

**Note:**

1. The categories indicated below are only the minimum requirement proposed by NWSDB for information. The Bidder shall declare the actual plant and equipment that he proposes to use for the execution of the works. These plant and equipment shall be in usage for not more than five years after their first purchase/use.

Item	Description	Minimum No. Proposed by NWSDB	Minimum No. Provide by the contractor	Minimum Period Proposed	Remarks (hired/own)
	<b>Mechanical</b>				
1	Dial gauge				
2.	Complete tool box				
3.	Allen Key set (Standard sizes)				
4.	Hand Roller 2 – 3 ton				
5.	Disc Grinding machine				
6.	Drilling machine (Both steel and concrete)				
7.	Welding Plant (Arc)				
8.	Gas Welding Plant (Oxy Estelline)				
9.	3 Jaw Puller				



<b>Item</b>	<b>Description</b>	<b>Minimum No. Proposed by NWSDB</b>	<b>Minimum No. Provide by the contractor</b>	<b>Minimum Period Proposed</b>	<b>Remarks (hired/own)</b>
10	Grease gun				
11.	Vernier, micro screw gauge, outside/inside caliper				
12	Measuring tape (steel)				
13	Level gauge				
14	Slip gauge				
15.	General Pliers, Nose pliers, hammer etc				
16.	Tripod				
17	Mobile Crane (up to 5 tons)				
18.	Air Compressor with all painting accessories.				
19.	Decibel meter				
20	Vibration pen				
21.	Thermo meter				
22.	Tacho meter				
23	Filing set				
24.	Safety Equipments when handling chemicals and others				

Item	Description	Minimum No. Proposed by NWSDB	Minimum No. Provide by the contractor	Minimum Period Proposed	Remarks (hired/own)
	<b>Electrical</b>				
25.	Clip-on meter				
26.	Power analyzer				
27.	Hydraulic Crimping tool				
28.	Single Phase up to 5 KVA Generators.				
29.	Three phase 5 – 50 KVA Generators.				
30	Three Phase 50 – 100 KVA Generators.				
31	Three Phase 100 – 200 KVA Generators.				
32.	Necessary instruments & items for site lighting.				
33.	Insulation resistance tester				
34.	Earth resistance tester				

**APPENDIX 7 - BIDDER’S AUTHORIZATION TO SIGN THE CONTRACT**

[The Bidder shall require to fill in this Form in accordance with the instructions indicated. This letter of authorization shall be on the letter head of the Bidder and shall 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  
.....  
.....

**Bid for Supply & Installation of Sewage Pumping Sets and Accessories**

**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

In the place of (..... address)  
Date .....

**APPENDIX 8 - TOR FOR THE INDEPENDENT INSPECTION AGENCY**

**Inspection of Pump Meter Assemblies**

	<b>Test</b>	<b>Measurement Value / Observation Comments</b>
01.	<p><b><u>Visual Tests</u></b></p> <p>Casting , Machining, Welding ,</p> <p>Dimensions, finish data like fillets, corners etc.</p> <p>Surface finish, surface preparation, painting.</p> <p>Alignment of the whole assembly.</p>	
02.	<p><b><u>Test Set – up / facilities</u></b></p> <p>Suitability of the factory test set – up for the specified pump tests.</p> <p>Suitability of the instrumentation for measurements, data transfer / storage / processing ,report generation, including acceptable calibration.</p>	
03.	<p>Status of the tested equipment, whole set –up, Instrumentation etc after running for an adequate time stabilization.</p> <p>Temperature at various points.</p> <p>noises</p> <p>vibrations</p> <p>leakages</p> <p>distortions</p> <p>Cavitation</p> <p>Others</p>	

	<b>Test</b>	<b>Measurement Value / Observation Comments</b>
04.	Measurements ( General)  Voltage  Currant  Power  Power Factor  Insulation Resistance  (others specific to the particular contract)	
05.	Operational Measurements  flow rate  delivery pressure  suction pressure  power drawn by motor	
06.	Hydrostatic Test  For pumps between 20 – 75 kw.  Test the components at 150% of the pump shut off head for 10 minutes.  For pumps larger than 75 kw.  Test the components at 150% of the pump shut off head for 30 minutes.	

**APPENDIX 9 - MANUFACTURER'S AWARENESS OF THE TOR FOR INDEPENDENT INSPECTION AGENCY**

[Address of the Manufacturer]

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

Chairman,  
Procurement Committee,

**Bid for Supply & Installation of Sewage Pumping Sets and Accessories**

**Contract No.**.....

We, .....[*name of manufacturer*] of

.....  
.....[*address of*

*manufacturer*]confirm that we have noticed that

- a) Appendix 8 – TOR for Independent Inspection Agency
- b) **Clause 25.1** of Conditions of Contracts

.....  
Authorised Officer of the Manufacturer.

.....  
Seal of the Company.

Name :.....

Certified by

.....  
Authorized officer of the Bidder

.....  
Seal of the Company

Name :.....

**APPENDIX 10 - MANUFACTURER'S WARRANTY FOR THE GOODS (SUPPLIED UNDER THE CONTRACT)**

[Address of the Manufacturer]

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

Chairman,  
 National Water Supply & Drainage Board,  
 Galle Road, Ratmalana,

**Bid for Supply & Installation of Sewage Pumping Sets and Accessories**

**Contract No.**.....

We, .....[*name of manufacturer*] of  
 .....[*address of manufacturer*]  
 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 27** 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.

<b>Part/ Section</b>	<b>Warranty period</b>

.....  
 Authorised Officer of the Manufacturer.

.....  
 Seal of the Company.

Name : .....

Certified by

.....  
 Authorized officer of the Bidder

.....  
 Seal of the Company

Name : .....

**APPENDIX 11- GUIDELINES FOR THE ACCEPTANCE OF PUMP AND MOTOR ASSEMBLES AT NWSDB SITES BY INSPECTION TEAM**

	<b>Activity / Test</b>	<b>Measurements / Value / observation Comments.</b>
01.	Preparation of list of finalised and agreed list of parameters, delivery scope, submittals etc. of parameters, after PC – Procurement Committee approval, any subsequent amendments.	
02.	Manufacturer  Country of Origin  Make  Model  Delivery of Test reports ( 3 <sup>rd</sup> party / Manuf./ client.)	
03.	Compliance of the whole delivery scope with finalised client’s requirements.	
04.	Compliance of the specification of equipment , spare , tools, submittals etc.	
05.	Compliance of the installation with the manufacturer’s recommendations.	
06.	Compliance of the test instruments with properly carried out calibration.	
07.	Suitability of the instrumentation for measurement, logging, processing etc of the test data with regard to range, accuracy, least count etc.	
08.	Observation of the whole set-up after running the assembly until stabilisation.	



	<b>Activity / Test</b>	<b>Measurements / Value / observation Comments.</b>
09.	<p>Get the measurements for 05 operating points.</p> <p>1. Shut off 2. Oper. Point 3. Max. recommended Point 4. a point between (1) &amp; (2) above 5. a point between (2) &amp; (3) above</p> <p>1. Current 2. Voltage 3. Power drawn by motor 4. Flow rate 5. Suction pressure 6. Delivery pressure</p>	
10.	<p>Tabulate measurements , calculations</p> <p>Flow rate Pressure Power drawn by pump Power drawn by motor Pump efficiency Overall efficiency ( any other particular to this contract)</p>	
11.	<p>Any deviations of the test results from the submitted test reports (3<sup>rd</sup> party / manuf./ client)</p>	
12.	<p>Observations / Comments on the deviations.</p>	
13.	<p>Acceptance / rejection of the equipment with justifications.</p>	

**APPENDIX 12 – AFFIDAVIT BY THE BIDDEER**

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 context affirmed hereto and set his usual signature hereto in ..... on this ..... day of ..... 20.....

Before me

.....  
Declarant

.....  
Justice of the Peace /  
Commissioner for oaths