Ref. No.: NWSDB/SBD/S&I/ Water Pump (below 30kW)/LC /Ver2

Revised on 04-06-2024

GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

SUPPLY AND INSTALLATION OF WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES (Below 30 kW) (Local Currency)

CONTRACT No.:

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

GALLE ROAD,

RATMALANA.

SRI LANKA

(MONTH & YEAR)

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

1.	STAN	IDARD DOCU	MENT REFE	ERENCE	NUMBER: NWSDB/SBD/ S&I/Water Pump/LC/Ver2
2.	CONT	FRACT NUMB	ER :		
3.	a)	ISSUED TO	:		
	b)	ADDRESS	:		
	c)	TELEPHONE	NUMBER	:	
	d)	FACSIMILE	NUMBER	:	
4.	a)	NON REFUND TENDER FEI			RECEIVED/NOT RECEIVED SH/BANK DRAFT
	b)	RECEIPT/BA	NK DRAFT	NUMBE	R :
5.	NUM	BER OF COPIE	ES ISSUED	:	
6.	NUM	BER OF CANC	ELLED CO	PIES ISS	UED :
7.	CAN	CELLED COPY	FEE :		
8	BUSI	NESS REGISTI	RATION NU	MBER	:
9.	a)	ISSUING OF	FICER	:	
	b)	DESIGNATIO	DN	:	
	c)	SIGNATURE		:	
10.	PLAC	E OF ISSUE		:	
11.	SEAL	<i>.</i> :			
12.	DATE	E :			TIME :

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CHECKLIST OF SUBMISSIONS

CHECKLIST OF SUBMISSIONS

* Note: Please mark 'Y' in the cages under the 'Remarks' column if submissions are made. 'N' or 'N/A' should be marked for cases of 'No submissions' and 'Not applicable' respectively.

No.	Checklist	Refere Instructions		Remarks *
(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, 1 - 7	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, authorization 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. 1-9	Clause No. 11.1 (a)	
(i)	Subsequent Addendum/Addenda (if any)	Page No. 1 - 9	Clause No. 11.1 (h)	
(j)	Product Conformity Certificates and Quality Management System Certificates	Page No. 1- 10	Clause No. 11.1(k)	
(k)	Company Registration	Page No. 1 - 10	Clause No. 11.1 (m)	
(1)	Other Document comprising the bid	Page No. 1 - 10	Clause No. 11.1 (n)	
(m)	Certified Copy of the VAT Registration Certificate	Page No. 1 - 11, 1 - 12	Clause No. 14.4	
(n)	Bid Security	Page No. 1 - 14, 1 - 15	Clause No. 20	
(0)	Certificates of registration of the contract with the registrar of public contracts as per the Act No. 3 of 1987. (If required) Any other document as given below:	Page No. 1-25	Clause No. 47	

INVITATION FOR BIDS

MINISTRY OF

NATIONAL WATER SUPPLY AND DRAINAGE BOARD INVITATION FOR BIDS

SUPPLY AND INSTALLATION OF WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES

.....WATER SUPPLY SCHEME

CONTRACT No.:

- 3. Bidding Documents may be inspected free of charge at the office of the Assistant General Manager (Tenders and Contracts Section), NWSDB, Galle Road, Ratmalana, Sri Lanka.
- 4 Bidding Documents will be issued only to those who submit a written application on the bidder's official letterhead to the address indicated in the bid notice and a proof of payment of the non-refundable document fee as specified in the Bid notice.
- 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 Section), 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 the Assistant General Manager (Tenders and Contracts Section), NWSDB, Galle Road, Ratmalana, Sri Lanka. Bidders or their authorised representatives may be present at the opening of bids.
- For further details, please contact the Assistant General Manager (Tenders Contracts Section), NWSDB, Galle Road, Ratmalana, Sri Lanka on telephone number 94-11-2605328 or 94-11-2638999 Extension 1750 or facsimile number 94 -11-2635885.

Chairman, NATIONAL WATER SUPPLY AND DRAINAGE BOARD

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

INVITATION FOR BIDS

SUPPLY AND INSTALLATION OF WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES

...... WATER SUPPLY SCHEME

CONTRACT No.:

1.	The Chairman, Regional Procurement Committee, (Insert Name of the RSC) of the National Water Supply and Drainage Board (NWSDB),
	(Insert Relevant RSC)
	Address) now invites sealed bids for supply and Installation of
	Bids at hours on
2.	Bidding documents are available at the office of the
	payment of a non-refundable fee of Rs
3.	Bidding Documents may be inspected free of charge at the office of the
4.	Bidding Documents will be issued only to those who submit a written application on the bidder's official letterhead to the address indicated in the bid notice and a proof of payment of the non-refundable document fee as specified in the Bid notice.
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 office of
	<i>Relevant RSC Address)</i> to receive on or before the closing time. Late bids will be rejected.
8.	All Bids shall be accompanied by a bid security of Rupeesand the bid security shall be valid up to
9.	Bids will be opened immediately after the closing of Bids, at the office of the
	Bidders or their authorized representatives may be present at the opening of bids.
10.	For further details, please contact the
Depu	ity General Manager

National Water Supply & Drainage Board

(Insert Relevant RSC Address)

.....

v

MINISTRY OF

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

INVITATION FOR BIDS

SUPPLY AND INSTALLATION OF WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES

...... WATER SUPPLY SCHEME

CONTRACT No.:

The Chairman, Project Procurement Committee, (Insert Name of 1. the Project) of the National Water Supply and Drainage Board (NWSDB), sealed bids for supply and Installation of for Water Supply Scheme up to closing of Bids at hours on 2. Bidding documents are available at the office of the(Insert Relevant Project Office Address) between 09:00 hours to 15:00 hours on normal working days up to, upon payment of a non refundable fee of Rs.plus applicable VAT and additional amount of Rs. if the Bidding document is to be dispatched by courier. Bidding Documents may be inspected free of charge at the office of the 3.(Insert Relevant Project Office Address). 4. Bidding Documents will be issued only to those who submit a written application on the bidder's official letterhead to the address indicated in the bid notice and a proof of payment of the non-refundable document fee as specified in the Bid notice. 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 office of Relevant Project Office 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 Rupees.....and the bid 9. Bids will be opened immediately after the closing of Bids, at the office of the (Insert Relevant Project Office Address) Bidders or their authorized representatives may be present at the opening of bids. For further details, please contact the......(Insert Relevant Project 10. number **Project Director** National Water Supply & Drainage Board (Insert Relevant Project Office Address)

1. INSTRUCTION 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 WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES

..... WATER SUPPLY SCHEME

CONTRACT No.:

FORM OF BID

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

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(s), 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	:
Capacity	:
Name	:
Address	:
2. Signature	:
Capacity	:
Name	:
Address	:

••

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

SUPPLY AND INSTALLATION OF WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES

FOR WATER SUPPLY SCHEME

CONTRACT No.:

FORM OF BID

The Chairman, Regional Procurement Committee,

.....,

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

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

- 1. Duly completed Sections 1 to 12 of Bid Documents.
- 2. Documentary evidence to establish eligibility of Bidder.
- 3. Documentary evidence to Establish qualification to consider for the responsiveness to the contract.
- 4. Documentary evidence to establish that goods are offered from an eligible source and origin.
- 5. Documentary evidence to establish eligibility of goods offered.
- 6. Bid Security.
- 7. Documentary evidence to establish qualifications for the performance of the Contract.
- 8. Bidding Data.
- 9. Duly filled Appendices.
- 10. Any other document.

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 9001:2008/2015 certificate, and Product conformity certificate (s) as listed in the specifications. I/we confirm that I/we have verified that the certificate issuing authority has accreditation to issue same

and materials offered conform to the ISO 9001:2015 certificates and the specified product 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 the Contract Data.

Signature of Bidder	:
Name of Bidder	:
Address	:
Capacity	:
Telephone Number	:
Facsimile Number	:
Date	:
Witnesses	
1. Signature	:
Name	·
Address	:
Capacity	:
2. Signature	·
Name	·
Address	:
Capacity	·

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

SUPPLY AND INSTALLATION OF WATER PUMPING SETS, MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES

FOR WATER SUPPLY SCHEME

CONTRACT No.:

FORM OF BID

The Chairman, Project Procurement Committee,

.....,

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

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

- 1. Duly completed sections 1 to 12 of Bid Documents.
- 2. Documentary evidence to establish eligibility of Bidder.
- 3. Documentary evidence to Establish qualification to consider for the responsiveness to the contract.
- 4. Documentary evidence to establish that goods are offered from an eligible source and origin.
- 5. Documentary evidence to establish eligibility of goods offered.
- 6. Bid Security.
- 7. Documentary evidence to establish qualifications for the performance of the Contract.
- 8. Bidding Data.
- 9. Duly filled Appendices.
- 10. Any other document.

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, and Product conformity certificate (s) as listed in the specifications I/we confirm that I/we have verified that the

certificate issuing authority has accreditation to issue same and materials offered conform to the ISO 9001:2015 certificate 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 the Contract Data.

My/Our Bank Reference is as follows:		
Signature of Bidder	:	
Name of Bidder	:	
Address	:	
Capacity	:	
Telephone Number	:	
Facsimile Number	:	
Date	:	
Witnesses		
1. Signature	:	
Name	·	
Address	:	
Capacity	:	
2. Signature	:	
Name	·	
Address	:	
Capacity	:	

4. BIDDING DATA

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

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

(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 Instruction to Bidder)

The following specific data for the goods and 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.

ITB Clause Reference	A. General
1.1	The Purchaser / Employer is
	Name: National Water Supply and Drainage Board Address: Galle Road - Ratmalana Sri Lanka
	Name of authorized Representative :
	The Chairman, National Water Supply and Drainage Board Galle Road - Ratmalana Sri Lanka
	The Works consist of
	located at
	Intended Completion Date is Days from the Start Date.
	Name of the Contract :
	Contract no.
	The office for collection of bid forms is Assistant General Manager (Tenders & Contracts 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 funding is:

- **4.1 (x)** Add to Clause Joint Ventures are not acceptable.

Total monetary value of the supply/supply & installation works performed for the last five years is Rs.....Mn

- **4.2 (iv)** Working Capital *1 + present available credit facilities for the company *2 + credit facilities exclusively for this contract 0.1 x current work commitments *3 > Rs...... *4 .
 - *1 Working Capital = Current Assets Current Liabilities
 - *2 A letter to prove the availability of credit facilities issued by a Bank within a month prior to date of closing of Bids.
 - *3 current work commitment = work remaining uncompleted (Documentary evidence to justify shall be submitted)
 - *4 80% of estimated cost of the Bid.

B. Contents of Bidding Documents

7.1 For <u>Clarification of bid purposes</u> only, the Employer's address is:

Assistant General Manager (Tenders and Contracts Section),

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 (m³/h or l/s)
 - Pump efficiency Vs flow (m³/h or l/s)
 - Power required to drive pump (kW) Vs flow (m³/h or l/s)
 - NPSH Required (m) Vs flow (m³/h or l/s)
- 3. All motor information.

	 Proposed panel layout (indicators, meters, switches etc.) Specification for MCCB's, MCB's, Busbars, Drives etc. Specification for transducers, sensors etc. Printed literature – supporting details given in the questionnaire.
15.1	The bidder shall quote the Contract Price in Sri Lankan Rupees.
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) [This shall be filled by T&C Section]
	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 Section), National Water Supply & Drainage Board, Galle Road, Ratmalana.
22.2 (iii)	Name of the Contract:
23.1	The Procurement Committee's Address for the submission (an on behalf of the Board) and Bid opening is; The Chairman, Department Procurement Committee, C/o Assistant General Manager (Tenders & Contracts Section), National Water Supply & Drainage Board, Galle Road, Ratmalana The deadline for the submission of bids is as specified in the IFB
	Date Time

The place for opening of bids, Assistant General Manager (Tenders & Contracts) Section, National Water Supply & Drainage Board, Galle Road, Ratmalana
Date Time : Immediately after closing of bids
 i. Economic life of Pumping Unit Years. ii. Discounting Rate%. iii. Power Cost Rs/kWh. iv. Annual Operation as mentioned in the particular specification.
E. Evaluation and Comparison of Bids
Prevailing rate of stamp duty is nil.
The amount of performance security shall be 10 % of the contract Price.
The amount of Advance payment is 20% of the contract value.
Advance payment Guarantee shall be obtained at the contractor's cost.
The equipment to be provided under this contract shall be suitable for installation and operation at elevations of about
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 Instruction to Bidder*) The following specific data for the goods and 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.

ITB Clause Reference

A. General

1.1

The Purchaser / Employer is

Name: National Water Supply and Drainage Board Address: Galle Road - Ratmalana Sri Lanka

Name of authorized Representative :

The Chairman, National Water Supply and Drainage Board Galle Road - Ratmalana Sri Lanka

The Works consist of

.....located at

Intended Completion Date is Days from the Start Date.

Name of the Contract :

Contract no.

The office for collection of bid forms is The Chairman, Regional Procurement Committee,

.....

.....

[Insert the 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 funding is:			
4.1 (x)	Add to Clause Joint Ventures are not acceptable.			
4.2 (i)	Minimum qualification to qualify for the award of the Contract is : Experience in Supply and Installation works of at least one contract of a similar nature and complexity equivalent to the supply and Installation works of kW (<i>indicate figure</i>) over the last 5 years.			
	Total monetary value of the supply/supply & installation works performed for the last five years is RsMn			
4.2 (iv)	Working Capital *1 + present available credit facilities for the company *2 + credit facilities exclusively for this contract - 0.1 x current work commitments *3 > Rs			
	 *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 80% of estimated cost of the Bid. 			
	B. Contents of Bidding Documents			
7.1	For <u>Clarification of bid purposes</u> only, the Employer's address is:			
	The Chairman, Regional Procurement Committee,			
	Fax Telephone			
	C. Preparation of Bids			
11.1 (0)	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 $(m^3/h \text{ or } l/s)$
- Pump efficiency Vs flow (m³/h or l/s)

	 Power required to drive pump (kW) Vs flow (m³/h or l/s) NPSH Required (m) Vs flow (m³/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.				
	7. Printed literature – supporting details given in the questionnaire.				
15.1	The bidder shall quote the Contract Price in Sri Lankan Rupees.				
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 [This shall be filled by T&C Section]				
	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,				
	[Insert the relevant RSC address]				
22.2 (iii)	Name of the Contract :				
	Contract no.				
23.1	The Procurement Committee's Address for the submission (an on behalf of the Board) and Bid opening is;				
	The Chairman, Regional Procurement Committee,				
	[Insert the relevant RSC address]				
	The deadline for the submission of bids is as specified in the IFB				

26.1 The place for opening of bids,

Date Time : Immediately after closing of bids

- **35.2 (xii)** i. Economic life of Pumping Unit ____ Years.
 - ii. Discounting Rate ___%.
 - iii. Power Cost Rs/ kWh.
 - 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 10 % of the contract Price
- **45.1** The amount of Advance payment is 20% of the contract value.

Advance payment Guarantee shall be obtained at the contractor's cost.

48.1 The equipment to be provided under this contract shall be suitable for installation and operation at elevations of about m above sea level inside weather protected structures. Outside ambient temperatures range between and⁰C and water temperature varies between and⁰C.

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 Instruction to Bidder*) The following specific data for the goods and 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.

ITB Clause Reference	A. General					
1.1	The Purchaser / Employer is					
	Name: National Water Supply and Drainage Board Address: Galle Road - Ratmalana Sri Lanka					
	Name of authorized Representative :					
	The Chairman, National Water Supply and Drainage Board Galle Road - Ratmalana Sri Lanka					
	The Works consist of					
	located at					
	Intended Completion Date is Days from the Start Date.					
	Name of the Contract :					
	Contract no					
	The office for collection of bid forms is Chairman, Project Procurement Committee,					
	The non-refundable fee is Rupees Plus VAT, payable in cash					
	The Bid forms will be issued until					

2.1	The source of funding is:				
4.1 (x)	Add to Clause Joint Ventures are not acceptable.				
4.2 (i)	Minimum qualification to qualify for the award of the Contract is : Experience in Supply and Installation works of at least one contract of a similar nature and complexity equivalent to the supply and Installation works of kW (<i>indicate figure</i>) over the last 5 years.				
	Total monetary value of the supply/supply & installation works performed for the last five years is RsMn				
4.2 (iv)	Working Capital *1 + present available credit facilities for the company *2 + credit facilities exclusively for this contract - 0.1 x current work commitments *3 > Rs *4 .				
	 *1 Working Capital = Current Assets – Current Liabilities *2 A letter to prove the availability of credit facilities issued by a Bank within a month prior to date of closing of Bids. *3 current work commitment = work remaining uncompleted (Documentary evidence to justify shall be submitted) *4 80% of estimated cost of the Bid. 				
	B. Contents of Bidding Documents				
7.1	For <u>Clarification of bid purposes</u> only, the Employer's address is: The Chairman, Project Procurement Committee,				
	[Insert the relevant Project Office address]				
	Fax Telephone				
	C. Preparation of Bids				
11.1 (0)	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 (m³/h or l/s) Pump efficiency Vs flow (m³/h or l/s) Power required to drive pump (kW) Vs flow (m³/h or l/s) NPSH Required (m) Vs flow (m³/h or l/s) 				

	4. Pr	oposed panel la	yout (indicators, meters, switches etc.)			
	5. Sp	pecification for	MCCB's, MCB's, Busbars, Drives etc.			
	6. Sp	pecification for	transducers, sensors etc.			
	7. Pr	inted literature	- supporting details given in the questionnaire.			
15.1	The bidder shall quote the Contract Price in Sri Lankan Rupees.					
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 <i>shall be filled by T&C Section</i>]		urity shall be until(give a Date) [This				
		D. Submiss	sion and Opening of Bids			
22.2 (ii)	The inner and outer envelopes shall be addressed to the following address.					
	The Chairman, Project Procurement Committee,					
			relevant Project Office address]			
	Fax		Telephone			
22.2 (iii)	Name of the Contract :					
	Contract no					
23.1	The Procurement Committee's Address for the submission (an on behalf of the Board) and Bid opening is;					
		The Chairm	nan, Project Procurement Committee,			
		[Insert the r	relevant Project Office address]			
	The deadline for the submission of bids is as specified in the IFB					
	Date		Time			

26.1 The place for opening of bids,

	•••••	
	•••••	
	[Insert the rel	evant Project Office address]
Date		Time : Immediately after closing of bids

35.2 (xii) i. Economic life of Pumping Unit ____ Years.

- ii. Discounting Rate ___%.
- iii. Power Cost Rs/ kWh.
- 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 10 % of the contract Price
- **45.1** The amount of Advance payment is 20% of the contract value.

Advance payment Guarantee shall be obtained at the contractor's cost.

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 should be read in conjunction with the General Conditions of Contract.

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

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

Contract Data

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

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

[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 <u>,</u> National Water Supply & Drainage Board,					
1.1 (o)	The Project Site(s)/Final Destination(s) is/are:					
	(Location)					
1.1 (u)	The Start Date shall be 14 Days from the Letter of Acceptance.					
1.2	Engineer's Representative:					
	(Project Director / Deputy General Manager of relevant RSC)					
8	For notices , the Purchaser's address shall be:					
	Attention:					
	Address:					
	Telephone:					
	Facsimile number:					
	Electronic mail address:					

11.1	The Works consist of						
11.4	Cont	Contract period is					
12	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					
	-	eration & Maintenance Manual					
		Built Drawings					
		hnical details required for Training of Operation Staff					
		documents requested for payment in ITB Clause 15					
		All Technical details for Automation (if applicable only)					
		Surge calculation (if applicable)					
		Technical literatures of Surge Protection System (Electrical/Hydraulic)					
13.27.1	Cont pum	Any other document requested by the Employer/ Engineer 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 with hold 5% of the Initial Contract price.					
22.3	Contractor shall not produce or sell any items under the name of National Water Supply & Drainage Board to a third party.						
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 the equipment.					
		The maximum deductible for insurance of Equipment is 5% of the replacement cost of the equipment.					
	(c)	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					

- (d) The minimum cover for personal injury or death,
 - for the Contractor's workmen is Rs. 1,000,000 per event, number of events and 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

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 Liquidated damages are 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, Motors and panel boards and other equipment)

- 27.5 Attend to repairs within Days from the Notification.
- **43.3** 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 (as per BOQ)	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

	STAGE OFSTAGE OFPAYMENTCONTRACT		DOCUMENT TO BE SUBMITTED	AMOUNT OF PAYMENT	REMARKS
01	Advance Payment	After signing of Contract Agreement	 A written request for payment in the form of an invoice A bank guarantee for the equivalent amount The performance Guarantee 	20% of the initial contract price	Refer clause 15.3.1
02	Interim Payment	On delivery to site	 Document to be submitted a) Written request for the payment in the form of Invoice based on BOQ. b) Engineer's Representative's approval for the payment. c) Manufacturer's warranty certificate as per Clause 15 hereof. d) Manufacturer's Inspection and Test Certificate e) Certificate of origin f) Certificate of conformity to the requirements specified in the specifications. g) Inspection and test certificate by the third party inspection agency. 	Up to 60% of the Initial Contract Price	Refer clause 15.3.2
03	Payment on taking over	On taking over by the Engineer for the delivery installation and testing	 a) A written request for final (balance) payment in the form of an invoice based on the BOQ. b) Engineer's Representative's approval for the payment. c) Submission of Bank guarantee for 5% of Contract price as a retention money. d) On production of a Taking Over Certificate issued by the Engineer. 	Up to 100% of the initial Contract price	Refer clause 15.3.4
04	Final Payment (Release of retention)	Successful completion of the contract after 28 days beyond defects liability Period.	a). Written request for the release of retention moneyb) Final Acceptance Certificate	Release the retention guarantee.	Refer Clause 15.3.4

6. SPECIFICATIONS

•	SPECIFICATIONS FOR MOTOR DRIVEN SELF LUBRICATED	6y-1 to 6y-18
	VERTICAL TURBINE PUMPING	
	SETS AND ACCESSORIES	
•	SPECIFICATIONS FOR BORE	6z-1 to 6z-15
	HOLE TYPE SUBMERSIBLE	
	PUMPING SETS AND	
	ACCESSORIES	
•	SPECIFICATIONS FOR	6aa-1 to 6aa-19
	HORIZONTAL SHAFT DRIVEN	
	DOUBLE SUCTION	
	CENTRIFUGAL PUMPING SETS	
	AND ACCESSORIES	
•	SPECIFICATIONS FOR END	6ab-1 to 6ab-18
	SUCTION VERTICAL DELIVERY	
	BACK PULL – OUT	
	CENTRIFUGAL PUMPING SETS	
	AND ACCESSORIES	
•	SPECIFICATIONS FOR VERTICAL	6ac-1 to 6ac-18
_	SHAFT DRIVEN DOUBLE	oue 1 to oue 10
	SUCTION CENTRIFUGAL	
	PUMPING SETS AND	
	ACCESSORIES	
•	SPECIFICATIONS FOR	6ad-1 to 6ad-18
	VERTICALLY/HORIZONTALLY	
	MOUNTED IN LINE BOOSTER	
	PUMPING SETS AND	
	ACCESSORIES	

7. SCHEDULE OF PARTICULARS

(Select the Specification and Schedule of Particulars which are applicable to the particular contact)

SCHEDULE OF PARTICULARS

TABLE OF CONTENTS

PAGE NUMBER

1	Vertical Turbine Pumping Set	7 - 2
2	Schedule of Particulars of Bore hole type submersible Pumping Sets and Accessories.	7 - 5
3	Schedule of Particulars of Horizontal shaft driven double suction Centrifugal Pumping Sets and Accessories.	7 - 10
4.	Schedule of Particulars of End Suction Vertical delivery back pull – out Centrifugal Pumping sets and Accessories.	7 – 15
5.	Schedule of Particulars of Vertical shaft driven double suction Centrifugal Pumps Sets and Accessories.	7 - 20
6.	Schedule of Particulars of Vertically / Horizontally Mounted In Line Booster Pumps.	7 - 25

1.0 VERTICAL TURBINE PUMPING SET

1.1 Pump

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
1.1.1	Make and country of origin		
1.1.2	Туре		
1.1.3	Model		
1.1.4	Number of stages		
1.1.5	Speed (RPM)		
1.1.6	Capacity at specified head (m ³ /hr)		
1.1.7	Efficiency at duty point		
1.1.8	Minimum submergence required		
1.1.9	Pump casing materials :		
1.1.10	Impeller material		
1.1.11	Pump shaft material		
1.1.12	Wear ring material		
1.1.13	Column pipe material		
1.1.14	Column shaft (Drive shaft) material		
1.1.15	Spider bush material		
1.1.16	Type of column pipe joint		
1.1.17	Type of coupling		
1.1.18	Type of thrust bearing		
1.1.19	Silt handling capacity		
1.1.20	Shut off head		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
1.1.21	Max. power absorbed by the pump		

1.2 Motor

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
1.2.1	Make and Country of Origin		
1.2.2	Model		
1.2.3	Туре		
1.2.4	Nominal Supply voltage, frequency and number of phases		
1.2.5	Allowable voltage fluctuations		
1.2.6	Synchronous speed		
1.2.7	Full load output power		
1.2.8	Full load current		
1.2.9	Power factor at 100% at 75% : at 50% : Of full load:		
1.2.10	Class of insulation		
1.2.11	Enclosure protection class (IP No.)		
1.2.12	Motor operation rating		
1.2.13	Motor Bearing No. a. Drive end b. Non drive end		
1.2.14	Design life of bearings		
1.2.15	Motor efficiency at 100% at 75% :		

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
	at 50% :		
1.2.16	Overall efficiency of pumping set at duty point		
1.2.17	Temperature rise after 6 hrs. at 400 V.		

1.3 L.T. Panel and Starters :

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
1.3.1	Make and country of origin		
1.3.2	Make of Main MCCB Whether earth fault trip available		
	Whether adjustable thermal trip available		
1.3.3	Rating of Main MCCB		
1.3.4	Make of MCBB		
1.3.5	Rating of MCBB		
1.3.6	Make of supply voltage monitor		
	Whether U/V or O/V adjustable		
	Whether supply imbalance protection available		
	Whether phase reversal protection available		
1.3.7	Make of surge diverters		
1.3.8	Rated voltage of surge diverters		
1.3.9	Type of starter		
1.3.10	Make of starter		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
1.3.11	AC3 rating of contactors 1. 2. 3.		
1.3.12	Make of water level switch		
1.3.13	Type/Operation of water level switch		
1.3.14	Rating of Auto Transformers (if applicable)		

1.4 Cables

*(**NWSDB requirement** to be filled by the Engineer)

		Mak	xe	Size	e	Тур	e	Mater	ial	Lengt	Length	
No.	Description	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement	Bidder's	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's	
1.4.1	CEB to change over											
1.4.2	Generator to change over (if applicable)											
1.4.3	Change over to incoming MCCB (if applicable)											
1.4.4	CEB to Incoming MCCB if applicable)											
1.4.5	Incoming to LT panel											
1.4.6	LT panel to motor starter											
1.4.7	Motor starter to motors											
1.4.8	Control cables in LT panel											

2.0 SCHEDULE OF PARTICULARS OF BORE- HOLE TYPE SUBMERSIBLE PUMPING SETS AND ACCESSORIES

2.1 Pump

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
2.1.1	Make and country of origin		
2.1.2	Туре		
2.1.3	Model		
2.1.4	Speed (RPM)		
2.1.5	Capacity at specified head (m ³ /hr)		
2.1.6	Efficiency at duty point		
2.1.7	Number of stages		
2.1.8	Overall efficiency		
2.1.9	Pump casing materials		
2.1.10	Impeller material		
2.1.11	Pump shaft material		
2.1.12	Casing wearing material		
2.1.13	Max. external diameter of pump assembly		
2.1.14	Impeller wearing material		
2.1.15	Impeller diameter (mm)		
2.1.16	Max. impeller diameter (mm)		
2.1.17	Shut – off head (m)		
2.1.18	Pump bearing nos. a) Drive end		
2.1.19	Designed life of pump bearings		
2.1.20	Power absorbed by the pump at duty point		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
2.1.21	Max. power absorbed by the pump		
2.1.22	Shaft Intermediate Bearing Nos.		
2.1.23	Type of the Drive Shaft Bearings		
2.1.24	Designed life of Drive Shaft Bearings		
2.1.25	Critical Speed of Drive Shaft		

2.2 Motor

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
2.2.1	Make and Country of Origin		
2.2.2	Model		
2.2.3	Туре		
2.2.4	Nominal Supply voltage, frequency and number of phases		
2.2.5	Allowable voltage fluctuations		
2.2.6	Synchronous speed		
2.2.7	Full load output power		
2.2.8	Full load current		
2.2.9	Power factor at 100% at 75% at 50% of full load		
2.2.10	Class of insulation		
2.2.11	Enclosure protection class (IP No.)		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
2.2.12	Motor operation rating		
2.2.13	Motor Bearing No. a. Drive end b. Non drive end		
2.2.14	Design life of bearings		
2.2.15	Motor efficiency at 100% at 75% at 50%		
2.2.16	Overall efficiency of pumping set at duty point		
2.2.17	Temperature rise after 6 hrs. at 400 V.		

2.3 L.T. Panel and Starters

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
2.3.1	Make and country of origin		
2.3.2	Make of Main MCCB Whether earth fault trip available Whether adjustable thermal trip available		
2.3.3	Rating of Main MCCB		
2.3.4	Make of MCB's		
2.3.5	Rating of MCB's		
2.3.6	Make of supply voltage monitor Whether U/V or O/V adjustable Whether supply imbalance protection available Whether phase reversal protection		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
	available		
2.3.7	Make of surge diverters		
2.3.8	Rated voltage of surge diverters		
2.3.9	Type of starter		
2.3.10	Make of starter		
2.3.11	AC3 rating of contactors		
	1.		
	2.		
	3.		
2.3.12	Make of water level switch		
2.3.13	Type/Operation of water level switch		
2.3.14	Rating of Auto Transformers (if applicable)		

2.4 Water level guard

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
2.4.1	Make and country of origin		
2.4.2	type		

2.5 Cables

*(NWSDB requirement to be filled by the Engineer)

No.	Description	Mak	· ·	Size	,	Туре	9	Mater	ial	Leng	gth
100	Description	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal		Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal
2.5.1	CEB to change over										
2.5.2	Generator to change over (if applicable)										
2.5.3											
2.5.4	CEB to Incoming MCCB (if applicable)										
2.5.5											
2.5.6	LT panel to motor starter										
2.5.7	Motor starter to motors										
2.5.8	Control cables in LT panel										

3.0 SCHEDULE OF PARTICULARS OF FOR HORIZONTAL SHAFT DRIVEN DOUBLE SUCTION CENTRIFUGAL PUMPING SETS AND ACCESSORIES

3.1 Pump

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
3.1.1	Make and country of origin		
3.1.2	Туре		
3.1.3	Model		
3.1.4	Number of stages		
3.1.5	Speed (RPM)		
3.1.6	Capacity at specified head (m ³ /hr)		
3.1.7	Efficiency at duty point		
3.1.8	NPSH required at duty point(m)		
3.1.9	Safety margin required for over and above NPSHR (m)		
3.1.10	Pump casing materials		
3.1.11	Impeller material		
3.1.12	Pump shaft material		
3.1.13	Shaft sleeve material		
3.1.14	Casing wearing material		
3.1.15	Impeller wearing material		
3.1.16	Impeller diameter (mm)		
3.1.17	Max. impeller diameter (mm)		
3.1.18	Shut – off head (m)		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
3.1.19	Pump bearing nos. a) Drive end		
3.1.20	Designed life of pump bearings		
3.1.21	Power absorbed by the pump at duty point		
3.1.22	Max. power absorbed by the pump		
3.1.23	Shaft Intermediate Bearing Nos.		
3.1.24	Type of the Drive Shaft Bearings		
3.1.25	Designed life of Drive Shaft Bearings		
3.1.26	Critical Speed of Drive Shaft		

3.2 Motor

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
3.2.1	Make and Country of Origin		
3.2.2	Model		
3.2.3	Туре		
3.2.4	Nominal Supply voltage, frequency and number of phases		
3.2.5	Allowable voltage fluctuations		
3.2.6	Synchronous speed		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
3.2.7	Full load output power		
3.2.8	Full load current		
3.2.9	Power factor at 100% at 75% at 50% of full load		
3.2.10	Class of insulation		
3.2.11	Enclosure protection class (IP No.) :		
3.2.12	Motor operation rating		
3.2.13	Motor Bearing No. a. Drive end b. Non drive end		
3.2.14	Design life of bearings		
3.2.15	Motor efficiency at 100% at 75% at 50%		
3.2.16	Overall efficiency of pumping set at duty point		
3.2.17	Temperature rise after 6 hrs. at 400 V.		

3.3 L.T. Panel and Starters:

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
3.3.1	Make and country of origin		
3.3.2	Make of Main MCCB Whether earth fault trip		

No.	Description	NWSDB requirement	Bidder's Proposal
	available	(to be filled by the Engineer)	
	Whether adjustable thermal trip available		
3.3.3	Rating of Main MCCB		
3.3.4	Make of MCB's		
3.3.5	Rating of MCB's		
3.3.6	Make of supply voltage monitor		
	Whether U/V or O/V adjustable		
	Whether supply imbalance protection available		
	Whether phase reversal protection available		
3.3.7	Make of surge diverters		
3.3.8	Rated voltage of surge diverters		
3.3.9	Type of starter		
3.3.10	Make of starter		
3.3.11	AC3 rating of contactors		
	1.		
	2.		
	3.		
3.3.12	Make of water level switch		
3.3.13	Type/Operation of water level switch		
3.3.14	Rating of Auto Transformers (if applicable)		

3.4 Cables

*(**NWSDB requirement** *to be filled by the Engineer*)

		Mak	e	Size		Тур	e	Mater	ial	Length	
No.	Description	NWSDB Requirement *	Bidder's Proposal								
3.4.1	CEB to change over										
3.4.2	Generator to change over (if applicable)										
3.4.3	Change over to incoming MCCB (if applicable)										
3.4.4	CEB to Incoming MCCB (if applicable)										
3.4.5	Incoming to LT panel										
3.4.6	LT panel to motor starter										
3.4.7	Motor starter to motors										
3.4.8	Control cables in LT panel										

4.0 SCHEDULE OF PARTICULARS OF END SUCTION VERTICAL DELIVERY BACK PULL – OUT CENTRIFUGAL PUMPING SETS AND ACCESSORIES

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
4.1.1	Make and country of origin		
4.1.2	Туре		
4.1.3	Model		
4.1.4	Number of stages		
4.1.5	Speed (RPM)		
4.1.6	Capacity at specified head (m3/hr)		
4.1.7	Efficiency at duty point		
4.1.8	NPSH required at duty point(m)		
4.1.9	Safety margin required for over and above NPSHR (m)		
4.1.10	Pump casing materials		
4.1.11	Impeller material		
4.1.12	Pump shaft material		
4.1.13	Shaft sleeve material		
4.1.14	Casing wearing material		
4.1.15	Impeller wearing material		
4.1.16	Impeller diameter (mm)		
4.1.17	Max. impeller diameter (mm)		
4.1.18	Shut – off head (m)		

4.1 Pump

NWSDB/SBD/S&I/Water Pump (below 30kW) /LC: Schedule of Particulars DPC: RPC: PPC - November 2023 – Version 2

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
4.1.19	Pump bearing nos. a. Drive end		
4.1.20	Designed life of pump bearings		
4.1.21	Power absorbed by the pump at duty point		
4.1.22	Max. power absorbed by the pump		
4.1.23	Shaft Intermediate Bearing Nos.		
4.1.24	Type of the Drive Shaft Bearings		
4.1.25	Designed life of Drive Shaft Bearings		
4.1.26	Critical Speed of Drive Shaft		

4.2 Motor

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
4.2.1	Make and Country of Origin		
4.2.2	Model		
4.2.3	Туре		
4.2.4	Nominal Supply voltage, frequency and number of phases		
4.2.5	Allowable voltage fluctuations		
4.2.6	Synchronous speed		
4.2.7	Full load output power		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
4.2.8	Full load current		
4.2.9	Power factor at 100% at 50% at 75% of full load		
4.2.10	Class of insulation		
4.2.11	Enclosure protection class (IP No.)		
4.2.12	Motor operation rating		
4.2.13	Motor Bearing No. a. Drive end b. Non drive end		
4.2.14	Design life of bearings		
4.2.15	Motor efficiency at 100% at 50% at 75%		
4.2.16	Overall efficiency of pumping set at duty point		
4.2.17	Temperature rise after 6 hrs. at 400 V.		

7.3 L.T. Panel and Starters:

No.	DescriptionNWSDB requirement(to be filled by the Engineer)		Bidder's Proposal
4.2.1			
4.3.1	Make and country of origin		
4.3.2	Make of Main MCCB		
	Whether earth fault trip available		

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
	Whether adjustable thermal trip available		
4.3.3	Rating of Main MCCB		
4.3.4	Make of MCB's		
4.3.5	Rating of MCB's		
4.3.6	Make of supply voltage monitor Whether U/V or O/V adjustable Whether supply imbalance protection available Whether phase reversal protection available		
4.3.7	Make of surge diverters		
4.3.8	Rated voltage of surge diverters		
4.3.9	Type of starter		
4.3.10	Make of starter		
4.3.11	AC3 rating of contactors 1. 2. 3.		
4.3.12	Make of water level switch		
4.3.13	Type/Operation of water level switch		
4.3.14	Rating of Auto Transformers (if applicable)		

4.4 Cables

*(**NWSDB requirement** *to be filled by the Engineer*)

		Mak	· ·	Size		Тур	e	Mater	ial	Lengt	th
No.	Description										
		NWSDB Requirement *	Bidder's Proposal								
4.4.1	CEB to change over										
4.4.2	Generator to change over (if applicable)										
4.4.3	Change over to incoming MCCB (if applicable)										
4.4.4	CEB to Incoming MCCB (if applicable)										
4.4.5	Incoming to LT panel										
4.4.6	LT panel to motor starter										
4.4.7	Motor starter to motors										
4.4.8	Control cables in LT panel										

5.0 SCHEDULE OF PARTICULARS OF VERTICAL SHAFT DRIVEN DOUBLE SUCTION CENTRIFUGAL PUMPS SETS AND ACCESSORIES

5.1 **Pump and Drive Shafts**

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
5.1.1	Make and Country of Origin		
5.1.2	Туре		
5.1.3	Model		
5.1.4	Number of stages		
5.1.5	Speed (RPM)		
5.1.6	Capacity at specified head (m ³ /hr)		
5.1.7	Efficiency at duty point (%)		
5.1.8	NPSH required at duty point (m)		
5.1.9	Safety margin required for over		
	and above NPSHR (m)		
5.1.10	Pump casing material		
5.1.11	Impeller material		
5.1.12	Pump shaft material		
5.1.13	Shaft sleeve material		
5.1.14	Casing wearing material		
5.1.15	Impeller wearing material		
5.1.16	Impeller diameter (mm)		
5.1.17	Max. Impeller diameter (mm)		
5.1.18	Shut-off head (m)		
5.1.19	Pump Bearing Nos.		
	a. Drive end		
	b. Non drive end		
5.1.20	Designed life of pump bearings.		
5.1.21	Power absorbed by the pump at		
	duty point		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
5.1.22	Max. Power absorbed by the		
	pump		
5.1.23	Make and country of origin of		
	drive shaft		
5.1.24	Length of each drive shaft		
5.1.25	Drive shaft intermediate bearing		
	Nos.		
5.1.26	Type of the drive shaft bearings		
5.1.27	Designed life of drive shaft		
	bearings		
5.1.28	Critical speed of drive shaft		
5.1.29	Length of drive shafts		
5.1.30	Total Number of drive shafts		

5.2 Motor:-

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
5.2.1	Make and country of origin:		
5.2.2	Model:		
5.2.3	Туре:		
5.2.4	Nominal supply voltage		
	frequency and number of		
	phase		
5.2.5	Allowable voltage fluctuation		
5.2.6	Synchronous speed		
5.2.7	Full load out put power		
5.2.8	Full load current		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
5.2.9	Power factor at 100%		
	at 75% at 50%		
	full load		
5.2.10	Class of insulation		
5.2.11	Enclosure protection class (IP		
	No)		
5.2.12	Motor operation rating		
5.2.13	Motor bearing No:		
	a. Drive end		
	b. Non drive end		
5.2.14	Designed life of bearings		
5.2.15	Motor efficiency at 100%		
5.2.16	Overall efficiency of pumping		
	set at duty point		
5.2.17	Temperature rise after 6 Hrs. at 400V		

5.3 L.T Panel and Starters:-

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
5.3.1	Make and Country of Origin		
5.3.2	Make of main MCCB		
5.3.3	 Indicate a) Whether earth fault trip is available:- b) Whether adjustable thermal trip is available:- 		
5.3.4	Rating of Main MCCB		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
5.3.5	Rating of starter MCCB	()	
5.3.6	Make of MCB's		
5.3.7	Rating's of MCBs		
5.3.8	Make of supply voltage monitor		
5.3.9	Indicate whether U/V or O/V and adjustable		
5.3.10	Indicate whether supply Imbalance protection is available		
5.3.11	Indicate whether phase reversal protection is available		
5.3.12	Make of surge diverters		
5.3.13	Rated Voltage of surge diverters		
5.3.14	Type of starter		
5.3.15	Make of starter		
5.3.16	AC-3 Rating of Contactors 1. 2. 3.		
5.3.17	Make of water level switch		
5.3.18	Type/Operation of water level switch		
5.3.19	Rating of Auto transformers (if applicable)		
5.3.20	Indicate whether thermal sensors provided in the auto transformer		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
5.3.21	Indicate whether all control wires in the starter and LT panel are lugged and connected		
5.3.22	Indicate whether all control wires are lugged and connected		
5.3.23	Indicate whether power factor correction capacitors are mounted		

5.4 Cables

*(NWSDB	requirement to	be filled b	by the	Engineer)
`	1	,	~	0 /

N		Mak	v	Size	,	Туре	e	Mater	ial	Lengt	th
No.	Description	NWSDB Requirement *	Bidder's Proposal								
5.4.1	CEB to change over										
5.4.2	Generator to change over (if applicable)										
5.4.3	Change over to incoming MCCB (if applicable)										
5.4.4	CEB to Incoming MCCB (if applicable)										
5.4.5	Incoming to LT panel										
5.4.6	LT panel to motor starter										
5.4.7	Motor starter to motors										
5.4.8	Control cables in LT panel										

6.0 SCHEDULE OF PARTICULARS OF VERTICALLY/HORIZONTALLY MOUNTED IN LINE BOOSTER PUMPS

6.1 Pump

			
No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
<u> </u>		(to be fitted by the Engineer)	
6.1.1	Make and country of origin		
6.1.2	Туре		
6.1.3	Model		
6.1.4	Number of stages		
6.1.5	Speed (RPM)		
6.1.6	Capacity at specified head (m3/hr)		
6.1.7	Efficiency at duty point		
6.1.8	NPSH required at duty point(m)		
6.1.9	Safety margin required for over and above NPSHR (m)		
6.1.10	Pump casing materials		
6.1.11	Impeller material		
6.1.12	Pump shaft material		
6.1.13	Shaft sleeve material		
6.1.14	Casing wearing material		
6.1.15	Impeller wearing material		
6.1.16	Impeller diameter (mm)		
6.1.17	Max. impeller diameter (mm)		
6.1.18	Shut – off head (m)		
6.1.19	Pump bearing nos. a. Drive end		
6.1.20	Designed life of pump bearings		
6.1.21	Power absorbed by the pump at duty point :		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
6.1.22	Max. power absorbed by the pump:		
6.1.23	Shaft Intermediate Bearing Nos. :		
6.1.24	Type of the Drive Shaft Bearings :		
6.1.25	Designed life of Drive Shaft Bearings :		
6.1.26	Critical Speed of Drive Shaft :		

6.2 Motor

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
6.2.1	Make and Country of Origin		
6.2.2	Model		
6.2.3	Туре		
6.2.4	Nominal Supply voltage, frequency and number of phases		
6.2.5	Allowable voltage fluctuations		
6.2.6	Synchronous speed		
6.2.7	Full load output power		
6.2.8	Full load current		
6.2.9	Power factor at 100% at 75% at 50% of full load		
6.2.10	Class of insulation		
6.2.11	Enclosure protection class (IP No.)		
6.2.12	Motor operation rating		

NWSDB/SBD/S&I/Water Pump (below 30kW) /LC : Schedule of Particulars DPC: RPC: PPC - November 2023 – Version 2

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
6.2.13	Motor Bearing No.		
6.2.14	Design life of bearings		
6.2.15	Motor efficiency at 100% at 75% at 50%		
6.2.16	Overall efficiency of pumping set at duty point		
6.2.17	Temperature rise after 6 hrs. at 400 V.		

6.3 L.T. Panel and Starters:

No.	Description	NWSDB requirement	Bidder's Proposal
		(to be filled by the Engineer)	
6.3.1	Make and country of origin		
6.3.2	Make of Main MCCB Whether earth fault trip available Whether adjustable thermal trip available		
6.3.3	Rating of Main MCCB		
6.3.4	Make of MCB's		
6.3.5	Rating of MCB's		
6.3.6	Make of supply voltage monitor		
	Whether U/V or O/V adjustable		
	Whether supply imbalance protection available		
	Whether phase reversal protection available		
6.3.7	Make of surge diverters		

No.	Description	NWSDB requirement (to be filled by the Engineer)	Bidder's Proposal
6.3.8	Rated voltage of surge diverters		
6.3.9	Type of starter		
6.3.10	Make of starter		
6.3.11	AC3 rating of contactors 1. 2. 3.		
6.3.12	Make of water level switch		
6.3.13	Type/Operation of water level switch		
6.3.14	Rating of Auto Transformers (if applicable)		

6.4 Cables

*(**NWSDB requirement** *to be filled by the Engineer*)

		Make	U	Size	,	Туре		Material		Length							
No.	Description	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal	NWSDB Requirement *	Bidder's Proposal	NWSDB	Bidder's Proposal						
6.4.1	CEB to change over																
6.4.2	Generator to change over (if applicable)																
6.4.3	incoming MCCB (if applicable)																
6.4.4	CEB to Incoming MCCB (if applicable)																
64.5	Incoming to LT panel																
6.4.6	LT panel to motor starter																
6.4.7	Motor starter to motors																
6.4.8	Control cables in LT panel																

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 35** 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

Bidder shall mention any deviation in Bidder's proposal with respect to the NWSDB requirement. (Scope of the work, Condition of Contract, Specification, Schedule of Particulars etc......)

Note:

Additional sheets should be attached as necessary

9. LIST OF DRAWINGS

LIST OF DRAWINGS

Drg. No.	Description

10. BILL OF QUANTITIES

PREAMBLE NOTES ON PRICING

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, Bidding data, Contract data, 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 Bid prices, unless itemized separately for: -
 - (a) All costs arising out of inspection and testing at the place of manufacturing
 - (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 manufacturing. Fittings from different sources of manufacturing shall not be accepted. ISO 9001:2015 for quality assurance issued by an accredited body should be forwarded along with the Bid for all items offered.
- 9. Cost of Inspection and Testing by the Independent Inspection and Testing Agency shall be as per the **Clause 25.6** of the General Conditions of Contract.

CONTRACT No.

BILL OF QUANTITIES

BILL No 01: General Bill

Item	Description	Qty.	Unit	Rate Local (LKR)	Amount Local (LKR)
1.	Provision for insurances during Installation period for the items in this bill. (Contractor's percentage adjustment for insurance - 2% on the relevant amount.)		p. sum		
2					
3					
4					
5					
	Total of Page No carried to Summary in Page No				

SUMMARY OF BILL NO. 01

Page Number	Amount
	LKR
Page No	
Page No	
Total of Page No Carried to Summary of Bills in Page No	

SUPPLY & INSTALLATION OF PUMPING SETS,

MOTOR CONTROL CENTRE (MCC) AND ACCESSORIES FOR

..... WATER SUPPLY SCHEME

CONTRACT No.

BILL OF QUANTITIES

-

BILL No 02: Supply Bill

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Item	Description	Qty.	Unit	Rate (LKR)	Amount (LKR)
1	Supply of wet 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 SS material to be SS316)	03	Nos.		
2	Supply of Identical Pump above withm long Stainless Steel lifting chain and minimum ofm 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 drawingincluding, 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		
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		
7					
	Total of Page Nocarried to Summary in Page No				

(This is a sample format for BOQ and may be changed as per the relevant work)

CONTRACT No.

SUMMARY OF BILL NO. 02

Page Number	Unit	Amount (LKR)
Page No	-	
Page No	-	
Cost of Inspection and Testing by Independent Testing & Inspection Ageney as per Clause No. 25 of GCC	Sum	
Total of Page No Carried to Summary of Bills in Page No	-	

Name of the Inspection Agency:

.....

.....

CONTRACT No.

BILL OF QUANTITIES

BILL No 03: Installation Bill

Item	Description	Qty.	Unit	Rate (LKR)	Amount (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]	03	Nos.		
2	Installation of the panel and level monitoring equipments supplied under above Item 06 and with all accessories, laying & fixing cables etc. Including construction of panel supporting structures using Grade 20concrete.	01	No		
3	Testing and commissioning of all above equipment to the satisfaction of Engineer.	-	Item		
	Total of Page Nocarried to Summary in Page No				

CONTRACT No.

SUMMARY OF BILL NO. 03

Page Number	Amount
	(LKR)
Page No	
Page No	
Total of Page No Carried to Summary of Bills in Page No	

CONTRACT No.

SUMMARY OF BILLS

Bill No.	Description	Amount (LKR)
01	General Bill	
02	Supply Bill	
03	Installation Bill	
A	Sub Total (1)	
В	Less: Provisional Sums	
C	Sub Total (2) (A-B)	
D	Less: Discount (if any)	
E	Sub Total (3) (C-D)	
F	Add : Provisional Sums	
G	Sub Total 4 (E+F)	
Н	Add: Contingencies 10% (for Sub Total 4)	
Ι	Grand Total (G+H) carried to Form of Bid in page 3-1(excluding VAT)	
J	VAT (%)	

VAT (applicable rate%) Rs. (LKR)

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 GURANTEE**

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 BID GUARANTEE No : Date..... the Bidder] (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. of issuing agency] hereby irrevocably under take to pay you any sum or sums not exceeding in total an amount of [amount in figures] 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 does not accept the correction of errors in accordance with the Instructions to Bidders (b). (hereinafter "the ITB") or having been notified of the acceptance of its Bid by the Employer/Purchaser during the (c). 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 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)] NWSDB/SBD/S&I/Water Pump (below 30kW) /LC : Specimen Forms

NWSDB/SBD/S&I/Water Pump (below 30kW) /LC : Specimen Forms DPC: RPC: PPC - November 2023 – Version 2

THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

CONTRACT No.:

CONTRACT AGREEMENT

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

.....

..... which duly incorporated under the laws of Democratic Socialist Republic of Sri Lanka and having registered It's office at.....

(hanning the grant of the grant of the stand of the stand

.....(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.

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 Bidders, Contract Data, Bidding Data and Schedule of Particulars and Form of Bid, all duly signed by the Board and the Contractor shall for all purposes whatsoever be read, regarded and construed as part and parcel of the Agreement.

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.
- (1) "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	
ofTwo Thousa	nd and
in the presence of the following Witne	esses.

Chairman Board Member

NATIONAL WATER SUPPLY AND DRAINAGE BOARD

WITNESSES

Signature 1:	Signature 2 :
Name :	Name :
Address :	Address :
at	in the capacity of on theday ndin the presence of the following
WITNESSES	Signature of Contractor
Signature 1:	Signature 2 :
Name :	Name :
Address	Address
Capacity Cap	pacity

FORM OF PERFORMANCE 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 PERFORMANCE GUARANTEE No.: of Contractor/Supplier] (hereinafter called "the Contractor") has entered into Contract No. dated with you, for the Supply & installation of [name of contract and brief description of Works] (hereinafter called "the Contract"). Furthermore, we understand that according to the conditions of the Contract, a performance guarantee is required. 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

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.

[Signature (s)]

Signature and seal of the guarantor

Witness Name :

Signature :

FORM OF ADVANCE PAYMENT SECURITY

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

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

ADVANCE PAYMENT GUARANTEE No.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor.

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 :

.....

.....-20.....

Regd. Post

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Dear Sirs,

CONTRACT NO:

Letter of Acceptance

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

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

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

Performance Bond 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 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 Section) 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]

Date :

RETENTION MONEY GUARANTEE No.:

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

Witnes	s								
Name	:	 							
Signatu	ire	 							

12. APPENDICES

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

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

APPENDIX 1B -DETAILS OF SIMILAR INSTALLATION COMPLETED WITHIN THE LAST FIVE YEARS AND ONGOING

Name and Address of Employer	Name and details of Contract	Value of Contract	Period of Contract Date		(Completed/remainingDateongoingincomple	
			From	То	etc)	

APPENDIX 2 - SCHEDULE OF TECHNICAL PERSONS & FACILITIES

1. Details of Workshops

Location	Minimum Facilities Required	Available facilities	Remarks
	 General Engineering tools Hydraulic pressure Precision measuring tools Power factor Clipon meter Power analyzer Flow meter Pressure gauges Motor starters Meggar 		

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.

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 = <u>Current Assets</u> Current Liability			
Liquidity Ratio = <u>Current Assets (except stock)</u> Current Liability			
Gearing Ratio = <u>Dept Capital x 100</u> Total Capital Employed			
<u>Turnover</u> x 100 Total Operating Assets			
<u>Net Profit</u> x 100 Total Assets			

Financial performance for the last 3 years

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,

Yours faithfully,

Authorized office of the Bidder.

Note:- If there are more than one bank, separate letters should 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, Supply & Installation of Water Pumping Sets Motor Control Centre (MCC) and Accessories Water Supply Scheme Contract No..... We,[name of manufacturer] of..... we have sufficient production capacity to produce the quantity of Pumps and Accessories submitted in our bid and shall deliver them according to the delivery schedule indicated in the bid. Authorized Officer of the Manufacturer. Seal of the Company. Name: Certified by Authorized Officer of the Manufacturer. 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 should be on the letterhead of the Manufacturer and should 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,

Supply & Installation ofWater Pumping Sets Motor ControlCentre (MCC) and AccessoriesWater Supply SchemeContract No.....Contract No.....

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]

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

NWSDB/SBD/S&I/Water Pump (below 30kW) /LC: Appendices DPC: RPC: PPC - November 2023 – Version 2 12 - 7

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 should declare the actual plant and equipment that he proposes to use for the execution of the works. These plant and equipment should 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)
	Mechanical				
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				

Item	Description	Minimum No. Proposed by NWSDB	Minimum No. Provide by the contractor	Minimum Period Proposed	Remarks (hired/own)
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)
	Electrical				
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 should be on the letterhead of the Bidder and should be signed by a person with the proper authority to sign documents that are binding on the Bidder. The bidder shall include it in its bid].

Date : [insert date (as day, month and year) of Bid Submission] No. : [insert contract number]

To : Chairman, Procurement Committee

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

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

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 (<u> </u>	 	 	 	
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Da	te							

APPENDIX 8 - TOR FOR THE INDEPENDENT INSPECTION AGENCY INSPECTION OF PUMP MOTOR ASSEMBLIES

	Test	Measurement Value / Observation Comments
01.	Visual Tests Casting, Machining, Welding,	
	Dimensions, finish data like fillets, corners etc.	
	Surface finish, surface preparation, painting.	
	Alignment of the whole assembly.	
02.	<u>Test Set – up / facilities</u>	
	Suitability of the factory test set – up for the specified pump tests.	
	Suitability of the instrumentation for measurements, data transfer / storage / processing, report generation, including acceptable calibration.	
03.	Status of the tested equipment, whole set –up, Instrumentation etc after running for an adequate time stabilization.	
	Temperature at various points. noises	
	Vibrations	
	Leakages	
	Distortions	
	Cavitations	
	Others	
04.	Measurements (General)	
	Voltage	
	Currant	
	Power	
	Power Factor	
	Insulation Resistance	
	(others specific to the particular contract)	

	Test	Measurement Value /
		Observation Comments
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,	
Supply & Installation of	Water Pumping Sets Motor Control
Centre (MCC) and Accessories	Water Supply Scheme
Contract No	
We,	
a) Appendix 8 – TC	OR for Independent Inspection Agency
b) Clause 25 of Gener	ral Conditions of Contract
Authorized Officer of the Manufacturer.	Seal of the Company.
Name :	
Certified by	
Authorized Officer of the Manufacturer.	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 and Drainage Board,

Galle Road, Ratmalana, Sri Lanka.

Supply & Installation of Water Pumping Sets Motor Control Centre (MCC) and Accessories Water Supply Scheme Contract No.....

.....*[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.

Part/ Section	Warranty period

 Authorised Officer of the Manufacturer.
 Seal of the Company.

 Name :
 Certified by

 Authorised Officer of the Manufacturer.
 Seal of the Company.

 Name:
 Name:

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

	Activity / Test	Measurements / Value / observation Comments.
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 rd 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.	

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

APPENDIX 12 – AFFIDAVIT BY THE BIDDER

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

01. I am the Affirmant above named.

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

Before me	Declarant

.....

Justice of the Peace / Commissioner for oaths