



**American Samoa Power Authority**

P.O Box PPB, Pago Pago AS 96799

Tel. (684) 699-3057

Email: [bids@aspower.com](mailto:bids@aspower.com); [procurement@aspower.com](mailto:procurement@aspower.com)

Website: [www.aspower.com](http://www.aspower.com)



**REQUEST FOR QUOTES (RFQ)**

**FOR**

**SUPPLY & DELIVERY ELECTRO-MECHANICAL EQUIPMENT, VALVES AND FITTINGS  
FOR KOKOLAND WELL #7 AND ILIILI GOLF #25 CONNECTION PROJECT**

**RFQ NO.ASPA20.058.ESD-WTR**

**Issuance Date:           SEPTEMBER 11, 2020**

**Closing Date:           OCTOBER 2, 2020**

**APPROVED FOR ISSUANCE:**

**WALLON YOUNG F.  
ASPA Executive Director**

## NOTICE TO OFFERORS

**ISSUANCE DATE:** September 11, 2020

**RFQ NO.** ASPA20.058.ESD-WTR

**PROJECT NAME:** **Supply & Delivery Electro-Mechanical Equipment, Valves and Fittings for Kokoland Well #7 and Iliili Golf #25 Connection Project**

**CLOSING DATE/TIME:** October 2, 2020 at 2:00 pm American Samoa Time

The American Samoa Power Authority (ASPA) invites qualified offerors to submit Quotes for the Supply & Delivery of Electro-Mechanical Equipment, Valves and Fittings for Kokoland Well #7 and Iliili Golf Well #25 Connection Project.

Scope of Purchase: The complete description of required deliverables is listed in the attached Scope of Purchase Quotation Form

Documents:

This Quotation may be viewed online on ASPA Website [www.aspower.com](http://www.aspower.com). Offerors may also pick up a complete package at:

ASPA Procurement Office  
Utu Abe Malae Operations Center  
Tafuna, American Samoa 96799

For more information about this RFQ, you may contact ASPA:

Renee Leotele Togafau Mata'utia  
Tel. (684) 699-3057  
[renee@aspower.com](mailto:renee@aspower.com)

The American Samoa Power Authority reserves the right to:

1. Reject all Quotations and reissue a new or amended RFQ;
2. Request additional information from any Offeror submitting a Quotation;
3. Negotiate a Contract with the firm selected for award; and
4. Waive any non-material violations of rules set up in this RFQ at its sole discretion.

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Approved for Issuance: WALLON YOUNG F., Executive Director



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**QUOTE SOLICITATION**

AMERICAN SAMOA POWER AUTHORITY:  
Procurement Office  
P.O. BOX PPB  
PAGO PAGO, AS 96799  
(684) 699-3057

**ISSUANCE DATE:** September 11, 2020  
**RFQ NO.** ASPA20.058.ESD-WTR  
**PROJECT NAME:** Supply & Delivery of Electro Mechanical Equipment, Valves and Fittings for Kokoland Well #7 and Iiili Golf Well #25 Connection Project  
**CLOSING:** October 2, 2020 at 2:00PM

1) This Request for Quote shall require an original and one PDF electronic copy to be submitted in a box, or other enclosure. All submittals must be received at ASPA Procurement Office no later than 2:00 p.m. on September 16, 2020. The envelope or box must be labeled:

**ASPA Procurement Office**  
**Attn: Renee Leotele Togafau Mata'utia**  
**P.O. Box PPB, Pago Pago, AS 96799.**  
**RFQ NO.ASPA20.058.ESD-WTR**

**PROJECT NAME: Supply & Delivery of Electro Mechanical Equipment, Valves and Fittings for Kokoland Well #7 and Iiili Golf Well #25 Connection Project**

Quotations must be in the actual possession of the Procurement Office at the location indicated, on or prior to the exact date and time indicated above. Final proposal, if sent electronically, must be sent to [renee@aspower.com](mailto:renee@aspower.com), subject line: "RFQ No. ASPA20.058.ESD-WTR." Five (5) hard copies are required for all proposals exceeding twenty-five (25) pages.

A copy of this solicitation and any addenda may be obtained from our Internet Website at: <http://www.aspower.com> by selecting the Procurement link and the associated solicitation number.

**Late submittals will not be opened or considered and will be determined as non-responsive.**

Any and all inquiries pertaining to the RFQ shall be sent or emailed to the Procurement Manager at [bids@aspower.com](mailto:bids@aspower.com) by September 18, 2020 at 2:00 pm, local time.

\*\*\*An Addendum will be issued to address all inquiries soon after.

The prevailing clock shall be ASPA Procurement clock. All Offerors shall provide sufficient written and verifiable information that responds to the requirements set forth herein, the Contract Documents, and in the Scope of Work OR Material Specifications.

Offerors may submit their Quotations through the following mean:

Electronic File Transfer – The Offeror may submit the Quotation using the electronic mail facility. This will enable the Offerors to upload Quotation file by email attachment. The Quotations must be uploaded before 2:00 PM on September 30, 2020, American Samoa Time.

**NOTICE TO OFFERORS:**

This Quotation is subject to the attached General Terms and Conditions of the Request for Quotes for:

RFQ NO.ASPA20.058.ESD-WTR  
Supply & Delivery of Electro Mechanical Equipment, Valves and Fittings for Kokoland Well #7 and Iliili  
Golf #25 Connection Project

The undersigned offers and agrees to furnish within the time specified, the articles and services at the price stated opposite the respective terms listed on the schedule provided, unless otherwise specified by an Offeror. In consideration of the expense of the American Samoa Power Authority in opening, tabulating, and evaluating this and other Quotations, and other considerations such as the schedule, the undersigned agrees that this Quotation shall remain firm and irrevocable for One Hundred Twenty Day (120) calendar days from the listed Quotation opening date or until a construction services agreement may be jointly enacted between ASPA and the undersigned party.

It is the responsibility of each Offeror before submitting a Quotation to (a) examine the documents contained in the Quotation package thoroughly; (b) visit the site or to otherwise become familiar with local conditions that may in any manner affect cost, progress, or performance of the work; (c) become familiar with federal, territorial, and local laws and ordinances, rules and regulations that may in any manner affect cost, progress, or performance of the work; (d) study and carefully correlate Offeror's observations with the Quotation package documents; and (d) notify ASPA of all conflicts, errors, or discrepancies in the Quotation package documents.

Soliciting or accepting any gift, gratuity, favor, entertainment, kickback or any items of monetary value from any person who has or is seeking to do business with ASPA is prohibited. Any vendor knowing of this type of activity is encouraged to report in confidence to ASPA's legal department so the matter can be dealt with.

SIGNED: \_\_\_\_\_ DATE \_\_\_\_\_



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**SPECIAL NOTICE TO PROSPECTIVE OFFERORS**

Offerors are reminded to read the Sealed Quotation Solicitation Instructions and General Terms and Conditions attached to a Quotation Invitation to ascertain that all of the following requirements (see check boxes) of the Quotation are submitted in the Quotation envelope at the date and time for Quotation opening.

- [x] 1. QUOTATION FORMS
  - Attachment A: Offeror’s Transmittal Form
  - Attachment B: Offeror’s Quote Form
  - Attachment C: Offeror’s Qualification Sheet
  - Attachment D: Disclosure Statement
  - Attachment E: Non-Collusion Affidavit of Prime Offeror

- [x] 2. BUSINESS LICENSE

Offerors must submit current business AND current contractor’s license as stated below (see General Terms and Condition for more information).

- [x] 3. QUOTATION

The Quotation must include all of the following to be deemed responsive:

- a. The Offeror’s quote price for the supply and delivery of all materials listed in the Offeror’s Transmittal form
- b. All items as listed above in #1 from Attachments A to E.

This Notice must be signed and returned in the Quotation envelope. Failure to comply with requirements will mean disqualification and rejection of the Quotation.

I, \_\_\_\_\_, authorized representative of \_\_\_\_\_, acknowledge receipt of this special reminder to prospective Offerors together with Quotation Invitation #: RFQ NO.ASPA20.058.ESD-WTR Supply & Delivery of Electro-Mechanical Equipment, Valves and Fittings for Kokoland Well #7 and Iliili Golf Well #25 Connection Project, this date of \_\_\_\_\_, 2020.

\_\_\_\_\_  
Offeror’s Representative's Signature

## TERMS AND CONDITIONS OF THE REQUEST FOR QUOTATIONS

### (SUPPLY CONTRACT)

#### 1. QUOTATION PREPARATION INSTRUCTION

The quote must contain two (2) parts. Offerors shall prepare their Quotes in detail accordingly.

1. Quote Price. Offerors must set forth the rate for each item as stated on the Bid Form.
2. Warranty Description. Include any extended warranties.

#### 2. SCOPE OF WORK

These specifications are intended to describe the *minimum* requirements for the Pre-Engineered Warehouse Building and Other Materials.

Products must include a separate written description of the manufacturer's warranty with explicit instruction as to how warranty repairs/returns will be handled. Additional supplier/distributor warranties shall be accepted and considered in the awarding of points.

The complete description of required deliverables is listed in Attachment B.

#### 3. PRE-BID QUESTIONS/CLARIFICATIONS

Any pre-bid Questions/Clarifications shall be submitted to [bids@aspower.com](mailto:bids@aspower.com) & [procurement@aspower.com](mailto:procurement@aspower.com) or hard copy, delivered to the ASPA Procurement Office no later than **2:00PM on September 17, 2020**. ASPA shall issue addenda to address any questions and/or clarifications as necessary.

#### 4. QUALIFICATION OF OFFERORS

ASPA may make such investigations as it deems necessary to determine the ability of the Offeror to perform the work, and/or supply materials, and the offeror shall furnish such information and data for this purpose as ASPA may request, or the Offeror will be deemed non-responsive. The Offeror shall submit at least that information required by the section entitled "Offeror's Qualification Sheet" or Attachment C.

#### 5. MULTIPLE QUOTES: COLLUSION

If any one party submits more than one quote or a quote in the name of its clerk, partner or other persons, all quotes submitted by said party may be rejected by ASPA. This shall not prevent an Offeror from submitting alternate quotes when called for. A party who proposed prices on materials is not thereby disqualified from quoting prices to other offerors or from submitting a quote directly to ASPA. If ASPA believes that collusion exists among any offeror, none of the participants in such collusion shall be considered. Quotes in which the contract prices are unbalanced or unrealistic may be rejected at ASPA's sole discretion.

#### 6. OFFEROR'S UNDERSTANDING

Each Offeror must understand and acknowledge the conditions relating to the execution of the work and it is assumed that it will make itself thoroughly familiar with all of the Contract Documents prior to execution of the written contract. Offeror shall comply with federal and territorial statutes and ordinances relative to the executing of the work. This requirement includes, but is not limited to, applicable regulations concerning protection of public and employee safety and health, environmental protection, historic preservation, the protection of natural resources, fire protection, burning and non-burning requirements, permits, fees, and similar subjects.

## **7. SUBMISSION OF QUOTES**

All blank spaces in the quote form must be completed in ink. Offerors are required to submit quotes using the attached Bid Form(s). Prices quoted shall be in United States currency in both words and figures where required. No changes shall be made in the phraseology of the forms. Written amounts shall govern in cases of discrepancy between the amounts stated in writing and the amounts stated in figures. In case of discrepancy between unit prices and totals, unit prices will prevail. Any quote shall be deemed informal which contains omissions, erasure, alterations or additions of any kind, or prices uncalled for, or in which any of the prices are obviously unbalanced, or which in any manner shall fail to conform to the conditions of the Notice to Offerors. The Offeror shall sign the quote in the space provided. If the Offeror is a corporation, the legal name of the corporation shall be set for the above, together with the signature of the officer or offices authorized to sign Contracts on behalf of the corporation. The typewritten name shall be inserted with each signature of the partner or partners authorized to sign Contracts on behalf of the partnership. If signature is by an agent, other than an officer of a corporation or a member of a partnership, a notarized power-of-attorney must be on file with ASPA prior to the opening of Quotes, or submitted with the quote, otherwise the quote will be regarded as not properly authorized.

## **8. ATTACHMENTS**

Attachment A: Offeror's Transmittal Form  
Attachment B: Technical Specifications for Materials & Quotation Form  
Attachment C: Offeror's Qualifications Sheet  
Attachment D: Disclosure Statements  
Attachment E: Non-Collusion Affidavit of Prime Offeror

## **9. REJECTION OF QUOTES**

ASPA may, after opening but prior to award and within the time specified for acceptance, reject any or all quotes, or the quote for any one or more commodities or contracted services included in the proposed contract, when the public interest will be served thereby.

## **10. AMERICAN SAMOA LICENSES, PERMITS, TAXES & IMPORT DUTIES**

The successful Offeror(s) shall be cognizant of and comply with all American Sāmoa Government (ASG) laws and ordinances pertaining to licenses, permits, tax structure and import duties.

## **11. SUCCESSFUL OFFEROR(S) LICENSE**

Offerors from off-island shall be licensed in accordance with the provisions of its state and country and shall be skilled and regularly engaged in the general type and size of work called for under this RFQ. All offerors shall have an American Sāmoa Business license prior to execution of contract.

## **12. WITHDRAWAL OF QUOTE**

Any quote may be withdrawn prior to the scheduled time for the opening of quotes by notifying ASPA in a written request. No quote may be withdrawn after the time schedule for opening of quotes.

## **13. OPENINGS & COMPARISON OF QUOTES**

In accordance with ASPA Procurement Rule § 3-110, quotes will be opened and recorded as part of the record for the Source Evaluation Board (SEB). Unless the Procurement Manager determines that satisfactory evidence exists that a "mistake" has been made, as set forth in Procurement Rule § 3-114, Offerors will not be permitted to revise their Quotations after Quotation opening.

**14. EVALUATION CRITERIA**

These criteria will be used by the SEB to evaluate quotes:

<b>0-15 points</b>	Shipping and Lead Time Delivery
<b>0-20 points</b>	Prior experience in providing the specified materials
<b>0-25 points</b>	Quality of materials provided
<b>0-40 points</b>	Inventory prices, per unit or per grouping
<b>100 points</b>	Total (best possible score)

ASPA reserves the right to award by item, groups of items, sections or total quote, whichever is in the best interest of ASPA. ASPA may reject any quote, in whole or in part, or reject all quotes if it determines that the lowest quote exceeds the funds available for purchase, or if the lowest quotes is considered in excess of current reasonable market prices.

**15. PAYMENT**

Net 30 days upon receipt of materials. Pre-Payment is not acceptable.

ASPA will not pay any penalties or late fees.

**16. BILL OF SALE**

Successful Offeror(s) shall render Bill(s) of Sale for each item delivered under this solicitation. Failure to comply with this requirement will result in rejection of delivery. The Bill(s) of Sale must accompany the items delivered but will not be considered as an invoice for payment. Supplier shall bill ASPA in accordance with billing instructions as indicated on the Purchase Order.

**17. MANUFACTURER’S CERTIFICATE**

Successful Offeror(s) are required, upon delivery of any item under this solicitation, to furnish a certificate from the manufacturer indicating the goods meets the specifications. Failure to comply with this request will result in rejection of delivery.

**18. TIED QUOTES**

If one or more offerors quote the same unit price or total amount, whether in whole or in part, the Acting Procurement Supervisor shall have the authority to award the quote to any one of the offerors based on scoring on other criteria, or by drawing lots in public, at ASPA’s sole discretion. The Acting Procurement Supervisor also has the authority to reject all such quotes.

**19. BRAND NAMES**

Any reference in the solicitation to a manufacturer’s brand name or number is due solely to ASPA’s lack of a satisfactory specification for the commodity’s description. Such reference is intended to be descriptive, but not restrict, and is intended to be included for the sole purpose of indicating to prospective offerors a description of the article or services that will be satisfactory. Quotes on comparable items will be considered, provided the offeror clearly states in its quote the exact item it is offering and how it differs from ASPA’s specification and/or description.

**20. INSPECTION**

All supplies, materials, equipment, or services delivered under the Purchase Order shall be subjected to the inspection and/or test conducted by ASPA at destination. If in any case the supplies, materials, equipment or services are found to be defective in material, workmanship, performance, or otherwise do not conform to the specifications, then ASPA shall have the right to reject the items or require they be



corrected at no additional cost to ASPA. The number of days required for correction will be determined by ASPA.

## **21. SELLER'S INVOICE(S)**

Invoices shall be prepared and submitted (one copy shall be marked "original") unless otherwise specified. Invoices shall be "certified true and correct" and shall contain the following information:

- Purchase Order Number
- Item Numbers
- Description of supplies or services
- Sizes
- Quantities
- Unit Prices
- Shipping & Handling Insurance
- Extended total
- Other Non-product costs associated with the order

Bill of Lading number and weight of shipment will be shown for shipments made on government bill of lading.

## **22. JUSTIFICATION OF DELAY**

If the Offeror is not able to meet the specified pick-up and/or delivery date, it is required to notify the Warehouse Manager of such delay. Notification shall be in writing and shall be received by the Warehouse Manager at least twenty-four (24) hours before the specified delivery date. Notification of delay shall include an explanation of the causes of the reason for the delay including statement(s) from supplier or shipping company causing the delay. ASPA reserves the right to reject delay justification if, in the opinion of the Warehouse Manager such justification is not adequate.

## **23. BASIS OF AWARD**

A Source Evaluation Board (SEB) will evaluate quotes. The Executive Director, based on recommendations by the Procurement Manager, shall approve SEB members. Submission of a quote shall constitute a waiver of any challenge or dispute of SEB members, as well as the choice of methodology set forth on the SEB score sheets. The award will be made by ASPA in accordance with the evaluation criteria set forth on the SEB score sheets. The award will be made by ASPA in accordance with the evaluation criteria set forth herein and with ASPA's procurement rules. A determination shall be made by the SEB of those responsible offeror(s) whose quote(s) are determined to have a reasonable chance of being selected for award. These discussions shall only be conducted for obtaining clarification from the offeror(s) on its quote(s) to ensure full understanding of and responsiveness to the RFQ requirements. Discussions shall be conducted individually with each offeror and care shall be exercised to ensure that no information derived from competing quotes is disclosed. All offerors with whom discussion are conducted shall be accorded an opportunity to revise their quotes in response to specific quotes will be evaluated by a Source Evaluation Board (SEB).

Award is made to the lowest *responsive, responsible* Offeror providing the best value to the American Samoa Power Authority. The results of the SEB will be documented, and a written recommendation by the SEB will be sent to the Procurement Manager. The Procurement Manager, upon receiving the SEB's recommendation, shall forward to the Executive Director and/or to the Board of Directors for final approval. ASPA reserves the right to make the award to the offeror(s) that submit a quote which meets the requirements set forth herein and is in the best interest of ASPA after taking into consideration the aforementioned factors. ASPA reserves the right to select portions of a quote, or to reject any and all quotes.

## **24. INSURANCE**

The successful offeror(s) shall obtain the insurance coverage designated herein and pay all costs associated therewith. Such insurance shall be for the coverage of the shipment of materials to ASPA Tafuna Warehouse.

## **25. COMPLIANCE WITH LAWS**

Offerors who are awarded a contract under this solicitation shall comply with the applicable standards, provisions and stipulations of all pertinent Federal and/or local laws, rules and regulations relative to the performance of this contract and the furnishing of goods.

## **26. OFFEROR'S QUALIFICATION DATA**

It is the intention of ASPA to award a contract only to the Contractor who is able to furnish satisfactory evidence that it has the requisite experience and ability and that it has sufficient capital, facilities and plant to enable it to perform the work successfully and promptly and to complete it within the term set forth in the contract. Each Offeror shall submit as part of the total Quotation package, the following information:

1. Name of organization;
2. Address and phone number of home office, principal place of business and locations and contact information for any branch offices;
3. Type of business structure, e.g., corporation, partnership, joint venture, proprietorship;
4. Place of organization or state of incorporation;
5. Names and addresses for all owners for businesses other than corporations;

*For corporations*, list the names and addresses of directors, officers and stockholders with twenty percent (20%) ownership interest or greater;

Places, including individual states and territories of the United States, where registered as a foreign corporation;

1. Name of awarding agency or owner for which work was performed;
2. Dates of performance;
3. Whether performance was completed within the specified time under the contract and, if not, why; and
4. The names and addresses of three references, at least one of which should be a bank or other lending institution, governmental agency or bonding company.

All Quotation prices are to include delivery to the place designated by ASPA which shall be CIF Pago Pago. No charges for delivery, parcel post, packing, cartage, insurance, license fees, or for any other purpose will be paid by ASPA.

## **27. DELIVERY AND REMEDIES FOR DEFAULT**

All items covered by this contract shall be subject to inspection and acceptance at destination. Any material found to be damaged, as well as broken seals on packages or unmarked packages shall be removed and replaced by the Contractor at no cost to ASPA.

In the event any item furnished by the Contractor in performance of the contract should fail to comply with the specifications established as a basis for award of the Invitation, ASPA may reject the same, and it shall thereupon become the duty of the Contractor to reclaim and remove the same forthwith without expense to ASPA, and immediately to replace all such rejected items with others conforming to said specifications;

provided that should the Contractor fail, neglect or refuse to do so, ASPA shall thereupon have the right to purchase in the open market, at the then prevailing price, a corresponding quantity of any such items, and to deduct from any monies due or that may thereafter become due to the Contractor the difference between the price named in the contract and the actual cost thereof to ASPA. In addition and without limiting any other remedies available to ASPA, the Contractor shall be liable for all losses, costs and expenses incurred by ASPA.

Acceptance of items at destination shall not relieve the Contractor from the obligation to correct any incomplete, inaccurate, or defective deliveries in accordance with these General Conditions. The time of delivery as set forth herein is an integral part of this Invitation and resulting contract. If Contractor fails to make delivery within the time established and agreed upon by both parties, ASPA may, at its option, declare the Contractor to be in default, and his Quotations and resulting contract to be null and void or ASPA shall charge the Contractor a fee of \$100 per day until the default has been remedied.

Contractors shall be excused from performing hereunder during the time and to the extent that they are prevented from obtaining, delivering, or performing in the customary way because of fire, strike, acts of God, partial or total interruption, providing it is satisfactorily established that the non-performance is not due to fault or negligence of the party not performing.

Offeror shall indicate in its Quotation the lead time for delivering.

ASPA shall be notified by the vendor if the product ordered cannot be delivered within the time period to give ASPA the opportunity to secure product elsewhere.

ASPA reserves the right to purchase products on open market if vendor cannot supply products within time specified in this contract.

## **28. PRODUCT GUARANTEE**

Products sold under the contract must be guaranteed by the vendor.

Orders not filled and partials shall be indicated on the packing list. Vendor shall inform the Warehouse Manager of anticipated date for unfilled and partial orders.

## **29. RETURN POLICY**

Products can be returned for full credit within 30 days from the date of purchase. If an item is received damaged or defective, the vendor will replace the item at no charge. Should ASPA encounter a warranty/return issue, the product will be returned to the vendor for full credit or a replacement.

## **30. SPECIFICATIONS**

All specifications included as a part of this Invitation are designed to set forth the level of quality and performance desired by ASPA, and is intended to be descriptive, not restrictive. Whenever any article, material, or equipment is described by use of a product or brand name, or by using the name of a manufacturer or vendor, the use of same is for informative purposes only, and the term "or equal" if not inserted, is implied.

Offerors may submit alternate offers on items they deem to be equal or superior in quality and performance to the specifications set forth. However, such offers must designate the manufacturer, brand or trade name, and model number of the items offered, and be accompanied by descriptive material in the form of literature, catalog cuts and specifications fully describing the items proposed, and detailing any deviations from the specification established by ASPA. Failure to provide this information will be at Offeror's risk and may be cause for rejection of the items offered.

ASPA reserves the right to require such additional information, submittals, samples and, if practicable, demonstration of items offered as may be necessary to allow a full and complete evaluation of all Quotations. Samples and/or demonstrations will be supplied promptly and free of charge to ASPA. Failure to provide samples within a set of business days agreed upon by both parties may be grounds for Quotation rejection. Samples will upon request, and if not destroyed by testing, be returned at the Offeror's expense.

The responsibility to determine the equivalence of quality and performance of any item offered to the specifications established for this Invitation rests solely with ASPA and its decision shall be final.

The successful offeror will be required to provide submittals upon Notification of Award.

The Contractor Warrants:

- That goods, supplies, materials and equipment covered by this tender conform to the specifications, design, drawings, samples and other descriptions referred to in this tender
- that such goods, supplies, materials, and equipment are free from defects in materials and workmanship, patent or latent; and
- that such goods, supplies, materials and equipment are fit for ordinary purposes for which they are used, and fit for such particular purposes as the contractor has reason to know or should know

### **31. INDEMNIFICATION**

Contractor agrees to investigate, defend and hold ASPA harmless from and against any and all loss, damage, liability, claims, demands, detriments, cost, charges and expense (including attorney's fees), and causes of action of whatsoever character which ASPA may incur, sustain or be subjected to, arising out of or in any way connected to the services to be performed by Contractor or subcontractor under this Contract and arising from any cause, except the sole negligence of ASPA.

### **32. AWARD, CANCELLATION, AND REJECTION**

Contract award shall be made to the responsible Offeror submitting the lowest responsive Quotation. No other factors or criteria, unless otherwise stated, shall be used in the evaluation.

ASPA reserves the right to waive any minor irregularities in the Quotation received. The Procurement Manager shall have the authority to award, cancel, or reject Quotations, in whole or in part for any one or more items if she determines it is in the best public interest. It is the policy of ASPA to award contracts to qualified Offerors. ASPA reserves the right to increase or decrease the quantity of the items for award and make additional awards for the same type items based on the quotation prices for a period of thirty (30) days after the original award.

### **33. MULTIPLE QUOTATIONS – COLLUSION**

If more than one Quotation is submitted by any one party or in the name of its clerk, partner or other person; all Quotations submitted by said party may be rejected by ASPA. This shall not prevent an Offeror from submitting alternate Quotations when called for. A party who has proposed prices on materials is not thereby disqualified from quoting prices to other Offerors or from submitting a Quotation directly to ASPA.

If ASPA believes that collusion exists among any Offerors, none of the participants in such collusion shall be considered. Quotations in which the contract prices are unbalanced or unrealistic may be rejected at ASPA's sole discretion.

#### **34. ASSIGNMENT**

The Contractor's obligation and duties under this contract shall not be assigned in whole or in part by the Contractor without the prior written approval of ASPA.

#### **35. CONTINGENT FEES**

The Offeror represents that it has not retained a person to solicit or secure an ASPA contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee; except for retention or bona fide employees or bona fide established commercial selling agencies for the purpose of securing business.

#### **36. WITHDRAWAL OF QUOTATION**

Any Quotation may be withdrawn prior to the scheduled time for the opening of Quotations by notifying ASPA in a written request. No Quotation may be withdrawn after the time schedule for opening of Quotations.

#### **37. EXECUTION OF CONTRACT**

The Contractor shall, after receiving the Notice of Award, sign a contract within ten (10) days and deliver to ASPA the contract, together with all any requirements included in this Quotation document.

#### **38. RFQ CONDITIONS**

This RFQ does not commit ASPA to award a contract or to pay any cost incurred in the preparation of a Quotation. The American Samoa Power Authority reserves the right to:

- Reject any Offeror for being non-responsive to Quotation requirements contained in this RFQ or for being non-responsible;
- Reject all Quotations and reissue an amended RFQ;
- Negotiate a contract with the Offeror selected for award; and
- Waive any non-material violations of rules contained in this RFQ.

ASPA reserves the right to issue any addendum to this RFQ. Offerors shall send ASPA a signed form confirming receipt of any addendum, and shall submit supporting/additional information as required by any addendum. In the event that an Offeror fails to acknowledge receipt of any such addendum in the space provided, such Offeror's Quotation shall be considered irregular and will be accepted by ASPA only if it is in ASPA's best interest, as determined by ASPA in its sole discretion. In the event that addenda are not received until after the Offeror has submitted its Quotation, a supplementary Quotation may be submitted revising the original Quotation. Such supplementary Quotations must be received by ASPA prior to the closing date and time.

#### **39. PRICES**

*All prices Quotation shall be firm and **not** subject to increase if accepted during the acceptance period.* Quotations containing an "escalation clause" will not be considered unless specifically authorized by ASPA in the Request for Quotes.

For each item Quotation, a unit price and a total for the quantity must be stated. The unit price shall always control.

All prices shall be CIF (Cost, Insurance and Freight) destination (Pago Pago). The seller is permitted to transport the goods to the American Samoa Power Authority at his own expense and risk.

**40. CONFLICT OF INTEREST**

No member, officer, or employee of ASPA during his/her tenure or for one year thereafter shall have any interest, direct or indirect, in any property included, or any contract for property, materials, or services to be furnished or used in connection with this contract or the proceeds thereof.

**ATTACHMENT A  
OFFEROR'S TRANSMITTAL FORM**

Date: \_\_\_\_\_

AMERICAN SAMOA POWER AUTHORITY  
American Samoa Government

To Whom It May Concern:

The undersigned (hereafter called an Offeror), \_\_\_\_\_  
(Corporation, Partnership or Individual) hereby proposes and agrees to furnish all the necessary information pertaining to:

**RFQ NO.ASPA20.058**

**PROJECT NAME: SUPPLY & DELIVERY OF ELECTRO MECHANICAL EQUIPMENT,  
VALVES AND FITTINGS FOR KOKOLAND WELL #7 AND ILIILI GOLF WELL #25  
CONNECTION PROJECT**

In accordance with the Materials Specification (Attachment B), General Terms and Conditions, the Project Specifications, Approved Design and Construction Plans, and other procurement requirements specified in this document for the prices stated in the itemized Quotation form(s) attached hereto, plus any and all sums to be added and/or deducted resulting from all extra and/or omitted work in accordance with the unit and/or lump sum prices stated in the itemized Quotation form attached hereto.

The undersigned has read and understands the Quotation requirements, and is familiar with and knowledgeable of the local conditions at the island-wide location(s) where the work is to be performed. The Offeror has read the RFQ Instructions and General Terms and Conditions attached to ascertain that all of the requirements (see boxes) of the Quotation are submitted in the Quotation envelope, with an original, one PDF electronic copy, and five (5) hard copies, at the date and time for Quotation opening. (See Page 6 of this document, "SPECIAL NOTICE TO PROSPECTIVE OFFERORS" to verify that all submittal requirement boxes have been checked).

\_\_\_\_\_  
Signed

Seal

Date: \_\_\_\_\_

**ATTACHMENT B – BID FORM**

TO: American Samoa Power Authority, Attn: Procurement Manager  
 ADDRESS: P.O. Box PPB, Pago Pago, American Samoa, 96799  
 TITLE: **Supply & Delivery of Electro-Mechanical Equipment, Valves and Fittings for Kokoland Well # 7 and Iiili Golf Well # 25 Connection Project**  
 RFQ NO. **ASPA\_\_\_\_\_ESD-WTR**

**Project: KOKOLAND WELL # 7**

Item	QTY	UNIT	DESCRIPTION	U/COST	AMOUNT
<b>MECHANICAL EQUIPMENT AND MATERIALS</b>					
1	2	sets	6"Ø Grundfos/Franklin or approved equal submersible pump model <b>230S150-5B</b> , equipped with built-in check valve and SS suction strainer.		
2	2	ea	3" X 4" 316SS pump coupling reducer		
3	1	ea	4"Ø Sensus T2 water meter, FLGXFLG		
4	7	ea	4"X20 feet <b>PVC-1120 sch80 Code H, Johnson Screens® heavy duty riser/column pipes, 160 PSI@73°F, ASTM-D1785, NSF61</b>		
5	7	ea	4"Ø SS heavy duty riser/column pipes coupling		
6	2	ea	4"Ø threaded type SS Flomatic heavy duty riser/column pipe check valve		
7	2	ea	4"Ø single arc rubber expansion joint, FLGXFLG		
8	3	ea	4"ØX 3/4"ØSS single strap pipe saddle		
9	2	ea	3/4" Ø Plast-O-Matic brand PVC air release valve (ARV) assembly, threaded type, 0-60 PSI operating pressure		
10	2	ea	2-1/2"Ødial face, 0-150 PSI pressure range, water/oil filled, 1/2" lower mount		
11	1	ea	4"X4"X4" ductile iron tee, FLGXFLGXFLG		
12	2	ea	4"Ø Non Rising Stem (NRS) gate valve with operating handwheel (OHW), FLGXFLG		
13	2	ea	4"Øglobe type spring loaded silent check valve, FLGXFLG		
14	1	ea	4"ØX24"(L) ductile iron spool pipe, FLGXFLG		
15	3	ea	4"ØX12"(L) ductile iron spool pipe, FLGXFLG		
16	1	ea	4"ØX36"(L) ductile iron spool pipe, FLGXFLG		
17	1	ea	4"ØX80"(L) ductile iron spool pipe, FLGXFLG		



18	3	ea	4"ØX45° ductile iron elbow, FLGXFLG		
19	2	ea	4"ØX90° long radius ductile iron elbow, FLGXFLG		
20	1	ea	8"ØX4"Ø ductile iron reducer, FLGXFLG		
21	1	ea	8"Ø ductile iron sleeve coupling for PVCC900		
22	20	ea	4"ØX1/8"Ø thick red rubber flanged gasket		
23	200	set	5/8"ØX3" SS hex head bolts, nuts and flat washers		
<b>ELECTRICAL EQUIPMENT AND MATERIALS</b>					
1	1	roll	<b>Size #4AWGX1000</b> feet, 4-wire with ground Hydroflex-flexible rubber submersible pump cable, Ethylene Propylene Rubber (EPR) insulation, Chlorinated Polyethylene Rubber (CPE) outer jacket flat cord submersible cable		
2	2	sets	<b>6"Ø, 15 HP FRANKLIN</b> submersible motor assembly, <b>three (3) phase, 460 volts, 60 hzAC</b> with necessary pig tail.		
3	2	ea	Cutler Hammer / Allen Bradley, Three (3) phase molded case circuit breaker, 3-pole, <b>100 Amps.</b> 460 volts, 18 KAIC@460V, with terminal lugs.		
4	1	ea	Platt Electric Supply Meter sockets with bypass, 200 Amps., three (3) phase, 7 jaw, ring type, 4-wire, 600V, surface mount, top/bottom feed, test block bypass, NEMA3R, 30"X14"X6", 127TB, Item # 015640, Mfg. Copper B-Line		
5	2	ea	Allen Bradley, 100K05D300 Contactor		
6	2	ea	Allen Bradley, 100K12D10M Contactor		
Above price shall include all costs such as, shipping, insurance and taxes and other cost that may be incurred to satisfy the full requirements of the Bid Documents.					
Total Base Bid ( FOB/CIF ASPA Tafuna):				\$ _____	
(Amount in Words)					

**Project: ILIILI GOLF WELL # 25**

Item	QTY	UNIT	DESCRIPTION	U/COST	AMOUNT
<b>MECHANICAL EQUIPMENT AND MATERIALS</b>					
1	2	sets	6"Ø <b>Grundfos/Franklin</b> or approved equal submersible pump model <b>85S75-6</b> , equipped with built-in check valve and SS suction strainer.		
2	2	ea	3" X 4" 316SS pump coupling reducer		

3	1	ea	4"Ø Sensus T2 water meter, FLGXFLG		
4	7	ea	4"X20 feet <b>PVC-1120 sch80 Code H, Johnson Screens® heavy duty riser/column pipes, 160 PSI@73°F, ASTM-D1785, NSF61</b>		
5	7	ea	4"Ø SS heavy duty riser/column pipes coupling		
6	2	ea	4"Ø threaded type SS Flomatic heaavy duty riser/column pipe check valve		
7	2	ea	4"Ø single arc rubber expansion joint, FLGXFLG		
8	3	ea	4"ØX 3/4"ØSS single strap pipe saddle		
9	2	ea	3/4" Ø Plast-O-Matic brand PVC air release valve (ARV) assembly, threaded type, 0-60 PSI operating pressure		
10	2	ea	2-1/2"Ødial face, 0-150 PSI pressure range, water/oil filled, 1/2" lower mount		
11	1	ea	4"X4"X4" ductile iron tee, FLGXFLGXFLG		
12	2	ea	4"Ø Non Rising Stem (NRS) gate valve with operating handwheel (OHW), FLGXFLG		
13	2	ea	4"Øglobe type spring loaded silent check valve, FLGXFLG		
14	1	ea	4"ØX24"(L) ductile iron spool pipe, FLGXFLG		
15	3	ea	4"ØX12"(L) ductile iron spool pipe, FLGXFLG		
16	1	ea	4"ØX36"(L) ductile iron spool pipe, FLGXFLG		
17	1	ea	4"ØX80"(L) ductile iron spool pipe, FLGXFLG		
18	3	ea	4"ØX45° ductile iron elbow, FLGXFLG		
19	2	ea	4"ØX90° long radius ductile iron elbow, FLGXFLG		
20	1	ea	8"ØX4"Ø ductile iron reducer, FLGXFLG		
21	1	ea	8"Ø ductile iron sleeve coupling for PVCC900		
22	20	ea	4"ØX1/8"Ø thick red rubber flanged gasket		
23	200	set	5/8"ØX3" SS hex head bolts, nuts and flat washers		
<b>ELECTRICAL EQUIPMENT AND MATERIALS</b>					
1	1	roll	<b>Size #4AWGX1000</b> feet, 4-wire with ground Hydroflex-flexible rubber submersible pump cable, Ethylene Propylene Rubber (EPR) insulation, Chlorinated Polyethylene Rubber (CPE) outer jacket flat cord submersible cable		

2	2	sets	6"Ø, 7.5 HP FRANKLIN submersible motor assembly, single (1) phase, 230 volts, 60 hzAC with necessary pig tail.		
3	2	ea	Cutler Hammer / Allen Bradley, Three (3) phase molded case circuit breaker, 3-pole, 100 Amps. 230 volts, 18 KAIC@230V, with terminal lugs.		
4	1	ea	Platt Electric Supply Meter sockets with bypass, 200 Amps., single (1) phase, 7 jaw, ring type, 4-wire, 300V, surface mount, top/bottom feed, test block bypass, NEMA3R, 30"X14"X6", 127TB, Item # 015640, Mfg. Copper B-Line		
5	2	ea	Allen Bradley, 100K05D300 Contactor		
6	2	ea	Allen Bradley, 100K12D10M Contactor		
Above price shall include all costs such as, shipping, insurance and taxes and other cost that may be incurred to satisfy the full requirements of the Bid Documents.					
Total Base Bid ( FOB/CIF ASPA Tafuna):				\$ _____	
_____ (Amount in Words)					

The OFFEROR shall submit together with this QUOTATION all other resources, together with a corresponding schedule required to complete the job. QUOTATIONS without the foregoing will be considered non-responsive and may cause the rejection of the QUOTATION at ASPA's sole discretion. All blanks on the QUOTATION Form shall be typewritten or handwritten in blue or black ink.

1. SUBCONTRACTORS. A list of intended subcontracting firms or businesses together with the type or description of the work to be subcontracted shall be attached to this QUOTATION Form.

IN WITNESS THEREOF, the undersigned has caused this instrument to be executed by its duly authorized officers on this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

OFFEROR:

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**ATTACHMENT C**

**OFFEROR'S QUALIFICATIONS SHEET**

(Please Print or Type and Complete All Sections. An incomplete section will be considered non-responsive. Use additional sheets if necessary.)

1. Name of Offeror \_\_\_\_\_

2. Name of Official Representative \_\_\_\_\_

3. Business Address/e-mail  
\_\_\_\_\_  
\_\_\_\_\_

4. Telephone, Fax and Official Contact Person  
\_\_\_\_\_  
\_\_\_\_\_

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5. Type of Business Structure (Please check)

\_\_\_\_ Corporation    \_\_\_\_ Partnership    \_\_\_\_ Joint Venture

\_\_\_\_ Proprietorship

NOTE: Corporations must complete the recordation of their Articles of Incorporation, which is evidenced by the Certificate of Incorporation issued by the Treasurer of the American Samoa Government. Copies of partnership agreements and articles of incorporation should be submitted to the Revenue Branch along with this application form and relevant documents. Aliens cannot operate sole ownership enterprises, and partnerships with aliens are subject to review by the Immigration Board.

6. Number of years the Offeror has been engaged in its current company business under the present firm name indicated \_\_\_\_\_

7. Type of work generally performed by Offeror  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. List all major projects of a similar nature for the supply of materials for Water Pipe Projects, which have been completed by the Offeror within the last three years, the total dollar amount of each project and the owner/contact person as a reference (attach additional sheets as necessary).

- Order Name \_\_\_\_\_  
Date Completed \_\_\_\_\_ Total Order Cost \$ \_\_\_\_\_  
Name of Owner \_\_\_\_\_  
Owner's phone number \_\_\_\_\_

- Order Name \_\_\_\_\_  
 Date Completed \_\_\_\_\_ Total Order Cost \$ \_\_\_\_\_  
 Name of Owner \_\_\_\_\_  
 Owner's phone number \_\_\_\_\_
  
- Order Name \_\_\_\_\_  
 Date Completed \_\_\_\_\_ Total Order Cost \$ \_\_\_\_\_  
 Name of Owner \_\_\_\_\_  
 Owner's phone number \_\_\_\_\_

9. Have you ever sued or been sued by any Government Agency?

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10. If so, name the agency and reasons thereof

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11. If so, state case settlement, if settled

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**ATTACHMENT D**  
**DISCLOSURE STATEMENTS**

This form must be completed by all Offerors and submitted with the Quotation.

I \_\_\_\_\_ (Name of owner or partner- all partners must complete a form) of \_\_\_\_\_, the Offeror that has submitted the attached Quotation:  
(Name of company)

(Complete one of the two following statements)

1.  I have no immediate relatives (parents, children or siblings) who are currently employed by the American Samoa Power Authority (ASPA).

\_\_\_\_\_  
(Signed) (Title)

2.  I have immediate relatives (parents, children or siblings) who are currently employed by ASPA.

Their names and positions in are as follows.

Name	Relationship to Offeror	Position in ASPA

\_\_\_\_\_  
(Signed) (Title)

Note: It is not against ASPA procurement rules for the relatives of ASPA employees to Quotation on and receive government contracts provided they disclose such relationships at the time of opening.

**ATTACHMENT E**

**NON-COLLUSION AFFIDAVIT OF PRIME OFFEROR**

\_\_\_\_\_ being first duly sworn deposes and says that:

- 1. He / She is \_\_\_\_\_ (Owner, Partner, Representative or Agent) of \_\_\_\_\_ the Offeror that has submitted the attached Quotation.
  
- 2. He is fully informed regarding the preparation and contents of the attached Quotation and of all pertinent circumstances regarding such Quotation.
  
- 3. Such Quotation is genuine and is not a collusive or false Quotation.
  
- 4. Neither the said Offeror nor any of its officers, partners, owner, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Offeror, firm or person to submit a collusive or false Quotation in connection with the Contract for which the attached Quotation has been submitted or to refrain from any connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Offeror, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against American Samoa Power Authority or any person interested in the proposed Contract; and
  
- 5. The price or prices quoted in the attached Quotation are fair and proper, and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Offeror or any of its agent's representatives, owners, employees, or parties in interest, including this affiant.

\_\_\_\_\_  
(Signed)

\_\_\_\_\_  
(Title)

Subscribed and sworn to before me

This \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
(Signed) \_\_\_\_\_  
(Title)

My Commission expires: \_\_\_\_\_, 2020.

**ATTACHMENT F**

**TECHNICAL SPECIFICATIONS**

**SUBMERSIBLE PUMP**

**OPERATING REQUIREMENTS** - The pumps shall meet the following operating requirements: The submersible pump shall be Franklin or ASPA approved equal.

**KOKOLAND WELL # 7**

<b>Item</b>	<b>DESCRIPTION</b>	<b>Kokoland Well # 7</b>
1	<b>Number of Units</b>	2
2	Capacity/Design Flow, GPM	200
3	Total Dynamic Head, feet	220
4	Minimum pump efficiency @ Design Head, %	74
5	RPM	3450
6	Maximum diameter of pump bowl including cable guard, inches	6"
7	Submersible Grundfos/Franklin Pump Model or approved equal, 6"Ø	<b>230S150-5B</b>
1	<b>Number of Units</b>	2
2	Submersible Motor Horsepower Rating, HP / DIA.	<b>15 / 6"</b>
3	Voltage Rating, Volts	<b>460</b>
4	Phase / Hertz	<b>Three(3) / 60</b>

**ILILI GOLF WELL # 25**

<b>Item</b>	<b>DESCRIPTION</b>	<b>Iiili Golf Well # 25</b>
1	<b>Number of Units</b>	2
2	Capacity/Design Flow, GPM	100
3	Total Dynamic Head, feet	200
4	Minimum pump efficiency @ Design Head, %	69
5	RPM	3450
6	Maximum diameter of pump bowl including cable guard, inches	6"
7	Submersible Grundfos/Franklin Pump Model or approved equal, 6"Ø	<b>95S75-6</b>
1	<b>Number of Units</b>	2
2	Submersible Motor Horsepower Rating, HP / DIA.	<b>7.5 / 6"</b>
3	Submersible Motor Voltage Rating, Volts	<b>230</b>
4	Phase / Hertz	<b>Single (1) / 60</b>



## PUMP CONSTRUCTION

Pump Element - The submersible impellers shall be of the semi-open or enclosed type, constructed of 304 stainless steel fully welded impellers and diffusers with split cone taper lock collets and diffusers to resist corrosion, PTFE floating wear ring, ceramic bearing journal and Nitrile rubber fluted bearing. Maximum operating temperature - 140 °F / 60 °C. The pump shaft shall be of type 431 stainless steel. Franklin or ASPA approved equal.

## UPVC COLUMN / DROP PIPES SPECIFICATION

### **1.0** SCOPE

The Polyvinyl Chloride (PVC) drop pipe for potable water submersible pumps shall be **PVC1120, SCH80, CODE H, Johnson Screens® ASTM-D1785, NSF61** threaded mechanical jointing system, corrosion free and inert to chemicals. The drop pipe to be supplied shall be 4"Ø X 20 feet in nominal pipe size.

### **2.0** REFERENCE DOCUMENTS

- **ASTM D1784** - Standard Specification for Rigid PVC Compounds and Chlorinated PVC Compounds.
- **ASTM D 1785** – Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedule 40, 80 and 120.
- **ASTM D2837** – Standard Test Method for Obtaining Hydrostatic design Basis for Thermoplastic Pipe materials.
- NSF International:  
**NSF 61** – Drinking Water system Components – Health Effects

### **3.0** REQUIREMENTS

- 3.1 **Materials:** Pipe and couplings shall be made from unplasticized PVC compounds having a minimum cell classification of 12454, as defined in ASTM D1784. The compound shall qualify for a Hydrostatic Design Basis (HDB) of 4,000 PSI for water @ 73.4°F, in accordance with the requirements of ASTM D2837.
- 3.2 **Approvals:** PVC drop pipe shall be certified NSF 61 standard for potable drinking water.
- 3.3 **Physical Requirements:** Standard pipe laying length of 20 or 10 feet long heavy duty threaded joints.
- 3.4 **Performance:** All pipe supplied shall meet the performance requirements of ASTM D1785 for schedule 80 pipe.

- 3.5 **Joints:** Pipe shall be joined using a threaded Male X Male precision-machined NPT thread to provide continuous restraint with evenly distributed loading.
- 3.6 **Adapters:** Drop pipe shall be joined to pumps and check valves.
- 3.7 **Markings:** Drop pipe shall be legibly and permanently marked in ink with the following information:
- Manufacturer and Trade Name
  - Nominal Size and Schedule Rating
  - Manufacturing Date Code
  - NSF 61

The PVC column/riser pipes shall be schedule 80 pipes for potable water (NSF Standard 61). Each column/riser pipes shall be furnished in 3.0 meters (10 ft) or 6.0 meters (20 ft) maximum length whichever available and shall be connected with heavy duty stainless steel threaded couplings.

### **SUBMERSIBLE PUMP CHECK VALVE**

The 4"Ø submersible pump check valve Series 80 DI/SS VFD shall be constructed with ductile iron body, unleaded body NSF certified 372, corrosion resistant internal components, stainless steel valve guide, ductile iron follower, Buna nitrile FDA approved elastomer disc and 316 stainless steel spring. The pump check valve shall be a threaded type connection manufactured by Flomatic Valves or ASPA approved equal.

### **SUBMERSIBLE MOTOR 6-INCH & 8-INCH WATER WELL**

#### **1.0 General**

Submersible motors shall be of a heavy duty design stainless steel construction with no ferrous metals in design. The submersible motors must conform to the latest applicable NEMA MG1, Motors & Generators for physical dimensions, ANSI/NFPA 70, USA National Electric Code, ANSI/UL 778 Motor Operated Water Pumps and ANSI/NSF 61 Drinking Water Systems Components standards.

#### **2.0 Motor Load Design Point:**

- 2.1 **Service Factor Selection:** The pump HP requirement must not exceed the motor Service Factor output rating when running at a minimum of 3450 RPM and 60Hz.

#### **3.0 Nameplate Minimum Information:**

- 3.1 Manufacturer's name, model number and origin of manufacture must be indicated on the nameplate.
- 3.2 Motor full load rating must be indicated on the nameplate.
- 3.3 Motor full load RPM must be  $\geq 3450$  RPM at 60Hz for 6-inch motors and this must be indicated on the nameplate.
- 3.4 Motor Service Factor must be indicated on the nameplate.
- 3.5 Motor maximum Service Factor amps must be indicated on the nameplate.
- 3.4 A maximum ambient of  $\geq 30^{\circ}\text{C}$  with a minimum cooling flow requirement of 0.5 ft/sec (16 cm/sec) is required and this must be indicated on the nameplate.
- 3.5 The stator must be designed for a UL thermal insulation of Class F or higher and this must be indicated on the nameplate.
- 3.6 The nameplate must be permanently placed on the motor.

#### **4.0 Physical Construction**

- 4.1 The motor must be capable of operating at  $\pm 10\%$  of the nameplate voltage rating.
- 4.2 The motors must have a hermetically sealed stator area with solid resin encapsulation of the winding and winding area.
- 4.3 The motor shaft shall be splined per NEMA for mating with the motor/pump coupling.
- 4.4 The motor must be of a double flange design on all motors  $\geq 47\text{kg}$  (100 lbs).
- 4.5 The motor must have a lead connection that will allow it to be easily replaced in the field.
- 4.6 The internal motor cooling and lubricating solution (fill solution) shall be factory installed and designed to remain in the motor for the life of the motor.
- 4.7 The internal fill solution shall require no service after shipment from the motor manufacturer's factory prior to installation.
- 4.8 There must be a spring assisted rubber diaphragm pressure compensation system that is suitable for  $\geq 500$  PSI.
- 4.9 The internal of the motor shall be sealed from the exterior environment with a positive sealing one-way check valve and a rotating mechanical shaft seal. All other opening shall be positively sealed with a compressed rubber or threaded mechanical seal.
- 4.10 The internal fill solution shall be a water and/or FDA approved propylene glycol based solution – NO OIL BASED FILL SOLUTIONS ARE ACCEPTABLE.
- 4.11 The thrust bearings shall be Kingsbury type with a carbon thrust disk and stainless steel leveling pads.
- 4.12 The radial bearings shall be carbon sleeves with steel shaft journals.
- 4.13 The shaft seal shall be a mechanical rotating seal with silicon carbide seal faces.
- 4.14 The motor must have an internal heat sensor in direct contact with the winding that can communicate an over heat motor condition with above ground equipment through the power cables. The heat sensor shall not require any additional wiring from the motor to the control panel to communicate the overheat condition.
- 4.15 The motor must have been energized and run tested by the manufacturer prior to shipment for verification that the motor meets both the requirements of the bid and the information the manufacturer or its representative provided to the bidder and system designers.
- 4.16 Submergence test must be conducted by the manufacturer prior to shipment to confirm the motor and its lead are suitable for underwater installation. This submergence test must be conducted at  $\geq 500$  PSI.

## **5.0 Motor Efficiency:**

**5.1** 6-inch motors must have a Full Load efficiency of:

**5.1.1** 11– 45 kW (15-60 Hp) 3-Phase of 81% minimum.

## **AIR RELEASE VALVE ASSEMBLY**

The thermoplastic air release valve (ARV) shall be furnished with a poppet seals. The ARV valve shall also be EPDM/Viton Elastomer with a pressure rating of 150 PSI. Maximum air flow of 8SCFM and a liquid flow of 60 GPM. Operating pressure shall be at maximum of 20 PSI. The valve shall be of Plast-O-Matic Model ARV075PT-PV or ASPA approved equal.

## **PRESSURE GAUGES**

All pressure gauges shall be 2-1/2' minimum dial with black enamel finish with chrome plated ring. Accuracy shall be ½ of 1% of scale range. Range shall be 0-100 PSI. The movement shall be constructed of stainless steel, rust proof and corrosion resistant and equipped with recalibration mechanism. Gauges mounting locations shall have female connection, tee handle shut-off cocks installed between gauge and gauge tap. Pressure gauges shall be Ashcroft or ASPA approved equal.

## **BUTTERFLY VALVES**

Butterfly valves shall be cast iron body, lug style, wafer type. The valve shall be equipped with Operating Hand Wheel (OHW). Valves shall be DeZurik model KGC-ES or ASPA approved equal.

## **SINGLE ARC RUBBER EXPANSION JOINT**

The rubber expansion joint shall be with full face flanges and retaining rings drilled to 150# ANSI or JIS standards. Materials of construction shall be of precision molded, neoprene type or other elastomer tube and cover, suitable for water system, and multiple plies of polyester or nylon cord. The arc is necessary to achieve proper movements.

## **DUCTILE IRON FLANGED FITTINGS (TEES, ELBOWS, REDUCERS)**

Flanged Fittings shall be manufactured of Ductile Iron in accordance with all applicable terms and provisions of standards ANSI/AWWA C110/A21.10. Flanged surfaced shall be faced and drilled in accordance with ANSI Class 125 B16.1. All Ductile Iron Flanged Fittings shall be rated for water pressure of 150 PSI. Fittings are Cement-Lined and seal coated in accordance with ANSI/AWWA C140/A21.4. All coated fittings shall meet the requirements of NSF-61. Interiors shall be lined and seal coated in accordance with ANSI/AWWA C104/A21.04, "Cement-mortar lining for Ductile Iron Pipe and Fittings for water" unless otherwise specified.

### **GLOBE TYPE SILENTCHECK VALVE**

The Check Valve shall be globe style, silent type flanged with integral spring to close the valve to eliminate water hammer. The valve seat and disk shall be made of 316 stainless steel, 316SS body with maximum pressure rating of 200 psi. Valves shall be of Cla-Val, Flomatic or ASPA approved equal.

### **SUBMERSIBLE PUMP CABLE**

Submersible pump cable shall be flat type 4-wire flexible K strand with 90°C Dry, 90°C Wet. Ethylene Propylene Rubber (EPR) insulation and Chlorinated Polyethylene Rubber (CPR) outer jacket. Voltages shall be rated at 600 volts. Submersible cables shall be of Hydroflex or Paige Electric or approved equal and shall be MSHA and RoHS approved.

**ATTACHMENT G**  
**DRAWINGS**  
**(Attached Separately)**