January 15, 2019

**ADDENDUM NUMBER 2 ON INVITATION TO BID ITB19KO-120**

**TITLE:** Center Pivot Irrigation Systems at NFREC-Marianna

**Mandatory pre-bid meeting** was held at the site on January 9, 2019 at 10:00 AM CST. **Bid opening** will be held January 23, 2019 at 3:00 PM EST in UF Procurement Services, 971 Elmore Drive, Gainesville, FL 32611.

This addendum shall be considered part of the Contract Documents for the above mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract documents, this addendum shall govern and take precedence. Bidders are hereby notified that they shall acknowledge receipt of the addendum.

**NOTES:**

- See attached one (1) page of vendor question and answer
- See attached one (1) page Revised Price Page
- See attached two (2) pages of “PUMP DATA SHEET”

Karen Olitsky
Procurement Agent III

**PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM 2 AND RETURN WITH YOUR BID. FAILURE TO ACKNOWLEDGE THIS ADDENDUM COULD CONSTITUTE REJECTION OF YOUR BID.**

VENDOR NAME

VENDOR ADDRESS

SIGNATURE
VENDOR QUESTION AND ANSWER

Q1. We are currently set up as a vendor for the University of Florida. Do we still need to have an attorney fill out the Attestation of Principal Place of Business?

A1. Yes, a completed Attestation of Principal Place of Business should be submitted with your bid.
REVISED PRICE SHEET (REV. 1/15/19)

From: ____________________________________________________________
(Company Name/Name & Title of Authorized Agent)

To: UNIVERSITY OF FLORIDA
    Procurement Services
    971 Elmore Drive/PO Box 115250
    Gainesville, FL 32611

The undersigned, being invested with the authority of his/her employer, and having read the Documents for the Bid, as well as the Specifications for the Bid, entitled:

ITB19KO-120, Center Pivot Irrigation Systems at NFREC – Marianna

and having familiarized himself/herself with all conditions affecting and governing the specifications, pricing and delivery of the product and services described herein, hereby proposes to furnish the products and services as per the specifications, in strict compliance with the Bid Documents, Addenda and any other documents relating thereto on file with UF Procurement Services and, if awarded the Contract, agrees to abide by the pricing and delivery terms as per the Documents and as stated herein, for the sums enumerated on this page.

TOTAL COST OF MATERIALS
(INCLUDING SHIPPING/DELIVERY COSTS): $ ______________________________

TOTAL COST OF INSTALLATION: $ ______________________________

IF APPLICABLE, PER ADDENDUM 1 - PAGE 4 - ITEM F. DRIVE UNIT ATTACHMENT,
TOTAL NUMBER OF FENCING/GATE LOCATIONS NEEDING MODIFICATION: _________________

IF APPLICABLE, PER ADDENDUM 1 - PAGE 4 - ITEM F. DRIVE UNIT ATTACHMENT,
TOTAL COST OF FENCING/GATE LOCATION MODIFICATIONS: $ ______________________________

TOTAL BID PRICE: $ ______________________________

I have carefully prepared this Bid from contact documents described above, I have full authority to make such statements and submit this Bid in (my) (its) (their) behalf, and all statements are true and correct.

______________________________     ______________________________
(Signature)                     (Printed or typed)

______________________________
(Address, City State, Zip)

______________________________     ______________________________
(Telephone)                     (Date)
PUMP DATA SHEET
Goulds Turbine 60 Hz

Curve: 1161-4

In Point: Flow: --- US gpm
          Head: --- ft

Pump: TURBINE - 1800
      Speed: 1760 rpm
      Size: 10DHLO; (9 stages)
      Dia: 6.37 in

Limits: Temperature: --- °F
        Pressure: 325 psi
        Sphere size: 0.68 in
        Power: --- bhp

Specific Speed: Ns: 4850
                Nss: ---

Dimensions: Suction: --- in
            Discharge: --- in

Vertical Turbine: Bowl Dia: 9.5 in
                 Max Lateral: 0.75 in
                 Thrust K Factor: 15.5

Motor: --- hp
       NEMA Standard
       WPI Enclosure
       no sizing criteria specified

Fluid: Water
       Temperature: 60 °F
       SG: 1
       Viscosity: 1.122 cP
       Vapor pressure: 0.2568 psi
       Atm pressure: 14.7 psi

NPSHr: --- ft

Piping:
       System: ---
       Suction: --- in
       Discharge: --- in

--- Data Point ---
Flow: 1000 US gpm
Head: 225 ft
Eff: 82.3%
Power: 88.8 bhp
NPSHr: 15.5 ft

--- Design Curve ---
Shutoff Head: 536 ft
Pressure: 232 psi
Min Flow: - US gpm
BEP: 85% eff
     @ 865 US gpm
NOL Pwr: 75.3 bhp
     @ 40 US gpm

--- Max Curve ---
Max Pwr: 75.3 bhp
     @ 40 US gpm

--- PERFORMANCE EVALUATION ---

<table>
<thead>
<tr>
<th>Flow</th>
<th>Speed</th>
<th>Head</th>
<th>Pump</th>
<th>Power</th>
<th>NPSHr</th>
<th>Motor</th>
<th>Motor</th>
<th>Hrs/yr</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>US gpm</td>
<td>rpm</td>
<td>ft</td>
<td>%eff</td>
<td>bhp</td>
<td>ft</td>
<td>%eff</td>
<td>hp</td>
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<td>171</td>
<td>73.5</td>
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<td>371</td>
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**PUMP DATA SHEET**

**Goulds Turbine 60 Hz**

<table>
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<th>Fluid: Water</th>
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<tr>
<td>Temperature: 60 °F</td>
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<tr>
<td>SG: 1</td>
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<td>Viscosity: 1.122 cP</td>
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| NPSHr: --- ft |

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<td>System: ---</td>
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<tr>
<td>Suction: --- in</td>
</tr>
<tr>
<td>Discharge: --- in</td>
</tr>
</tbody>
</table>

--- Data Point ---

- **Flow:** 400 US gpm
- **Head:** 393 ft
- **Eff:** 56.9%
- **Power:** 69.7 bhp
- **NPSHr:** 9 ft

--- Design Curve ---

- **Shutoff Head:** 536 ft
- **Pressure:** 232 psig
- **Min Flow:** - US gpm
- **BEP:** 85% eff
- **@ 85 US gpm**
- **NOL Pwr:** 75.3 bhp
- **@ 40 US gpm**

--- Max Curve ---

- **Max Pwr:** 75.3 bhp
- **@ 40 US gpm**

--- PERFORMANCE EVALUATION ---

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<th>Speed rpm</th>
<th>Head ft</th>
<th>Pump %eff</th>
<th>Power bhp</th>
<th>NPSHr ft</th>
<th>Motor %eff hp</th>
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