April 17, 2019

Please find the following addendum to the below mentioned BID.

Addendum No.: 2

Bid#: 19-20-2

Project Name: Utilities Pumps

Bid Due Date: Wednesday, April 24, 2019

GENERAL INFORMATION:

1. The Gorman Rupp 6” x 6” Self Priming Centrifugal Pump is an approved equal for UTPUMP-01. The product information sheets are attached.

2. The Gresco 6” x 6” Model XT-6 Self Priming Pump is an approved equal for UTPUMP-01. The product information sheets are attached.

ATTACHMENTS:

1. Gorman Rupp 6”x 6” Self Priming Centrifugal Pump.pdf
2. Gresco 6” x 6” Model XT-6 Self Priming Pump.pdf

<< End of Addendum # 2>>
Basic Pump

**Self Priming Centrifugal Pump**

**Model T6A3S-B**

**Size 6” x 6”**

**PUMP SPECIFICATIONS**

**Size:** 6” x 6” (152 mm x 152 mm) NPT - Female.

**Casing:** Gray Iron 30.

  - Maximum Operating Pressure 79 psi (545 kPa).*

**Semi-Open Type, Two Vane Impeller:** Ductile Iron 65-45-12.

  - Handles 3” (76,2 mm) Diameter Spherical Solids.

**Impeller Shaft:** Alloy Steel 4150.

**Shaft Sleeve:** Alloy Steel 4130.

**Replaceable Wear Plate:** Carbon Steel 1026.

**Removable Adjustable Cover Plate:** Gray Iron 30; 62 lbs. (28 kg).

**Flap Valve:** Neoprene w/Nylon and Steel Reinforcing.

**Seal Plate:** Gray Iron 30.

**Bearing Housing:** Gray Iron 30.

**Radial Bearing:** Open Single Row Ball.

**Thrust Bearing:** Open Double Row Ball.

**Bearing and Seal Cavity Lubrication:** SAE 30 Non-Detergent Oil.

**Flanges:** Gray Iron 30.

**Gaskets:** Buna-N, Compressed Synthetic Fibers, PTFE, Vegetable Fiber, Cork, and Rubber.

**O-Rings:** Buna-N.

**Hardware:** Standard Plated Steel.

**Brass Pressure Relief Valve.**

**Bearing and Seal Cavity Oil Level Sight Gauges.**


**Self-Cleaning Wear Plate.**

Gray Iron 30 Suction and Discharge Spool Flanges: 6” ASA *(Specify Model T6A3S-B/F).*

150 mm DIN 2527 (PN16) *(Specify Model T6A3S-B/FM).*

*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

**SEAL DETAIL**


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THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO
GORMAN-RUPP OF CANADA LIMITED • ST. THOMAS, ONTARIO, CANADA

www grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.

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Approximate Dimensions and Weights

Net Weight: 855 lbs. (388 kg.)*
Shipping Weight: 910 lbs. (413 kg.)*
Export Crate: 32.5 cu. ft. (0.92 cu. m.)
*Add 25 lbs. (11.3 kg.) w/each spool flange

Optional ASA or DIN standard suction & discharge spool flanges available.
Gresco 6"x 6" Model XT-6 Self Priming Pump

DATA SHEET

Net Weight 364kg (802lbs)
Shipping Weights 391kg (862lbs)
Impeller Dia. 314.32mm (12.3/8"
R.P.M. From 650rpm To 1550rpm
Max. Solids 76.2mm (3"

Self-priming
650 rpm 2.4m (8ft) - 750 rpm 2.7m (9ft)
850 rpm 3.6m (12ft) - 950 rpm 4.2m (14ft)
1050 rpm 5.5m (18ft) - 1150 rpm 6.4m (21ft)
1250 rpm 6.4m (21ft) - 1350 rpm 6.7m (22ft)
1450 rpm 7.0m (23ft) - 1550 rpm 7.6m (25ft)

Before using this table, check the NPSH.

PERFORMANCE CURVE 6"x6"

WWW.BOMBAS-ESCO.COM
## Construction Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Standard</th>
<th>Type A</th>
<th>Type B</th>
<th>Type C</th>
<th>Type D</th>
<th>Type E</th>
<th>Type F</th>
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<tbody>
<tr>
<td>Casing</td>
<td></td>
<td>A 48CL30</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
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<td>Impeller</td>
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<td>CD4 MCU</td>
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<td>CD4 MCU</td>
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<td>ADI</td>
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<tr>
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<td>CD4 MCU</td>
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<td>ADI</td>
<td>CD4 MCU</td>
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<td>ADI</td>
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<tr>
<td>Bearing Housing</td>
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<td>CD4 MCU</td>
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<tr>
<td>Flap Valve</td>
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<td>Sleeve Shaft</td>
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<tr>
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<td>O' rings</td>
<td>Buna</td>
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<tr>
<td>Mechanical Seal</td>
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</table>

The mechanical seal for all models has a 316SS body, Viton O' rings and tungsten carbide faces. Other seals available upon request.

All cast iron parts are ASTM 48, class 30.
All carbon steel shafts are SAE 4140 HT
All parts labeled CD4 are hardened 18-8 stainless steel, CD4, DIN 1-4463
All parts labeled 316SS are CF8M
Epoxy and ceramic internal coatings are available. Please call for quote.

### Suction Speed Flow Curve

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</table>

Note 1: The suggested suction should have the same nominal diameter as the pump, so that the solids will be totally swept up.

2: If the speed is higher than 3.5 m/s and if there is a need for higher "NPSH", please contact the factory.
QUICK AND SIMPLE MAINTENANCE

Routine maintenance services are carried out quickly and easily with the use of regular tools, thus economizing time and labor.

CLEANING AND INSPECTION

WITHOUT DISCONNECTING THE PIPEWORK (BACK - PULL - OUT)

Another advantage of the GRESCO pump is that cleaning and clearing are simple tasks as are inspection and substitution of the impeller and seal, when necessary.

The T and U pumps were especially designed for quick cleaning before returning to operation.

SHIMLESS EXTERNAL IMPELLER ADJUSTMENT

An exclusive system to externally adjust the impeller clearance without disassembling the pump. With the use of just an Allen or fixed wrench, simple adjustment can optimize pump efficiency while extending the life of both impeller and wear plate.
April 11, 2019

Please find the following addendum to the below mentioned BID.

Addendum No.: 1

Bid#: 19-20-2

Project Name: Utilities Pumps

Bid Due Date: Wednesday, April 24, 2019

GENERAL INFORMATION:

1. Please delete Pricing Bid Form and replace with Pricing Bid Form-REVISED (Attached). A self-priming centrifugal pump has been added to the bid.

2. Please add Attachment “C” specifications for the self-priming centrifugal pump to the bid (Attached).

ATTACHMENTS:

1. Pricing Bid Form-REVISED.pdf
2. Attachment “C”.pdf

<< End of Addendum # 1>>
Pricing Bid Form-REVISED

Bidder must acknowledge all addenda by entering the number the Parish assigned to EACH of the addenda that the Bidder is acknowledging.

The Bidder acknowledges receipt of the following: ADDENDA: ____________________________.

All fields must be filled in. NO blanks will be permitted. If the item is unavailable please enter N/A.

“Price/Each” shall represent the cost for the specified item as well as any delivery charges (if applicable) to the location(s) indicated in this bid.

<table>
<thead>
<tr>
<th>REF No.</th>
<th>MAKE &amp; MODEL OR PRIOR APPROVED EQUAL</th>
<th>COST PER UNIT</th>
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</thead>
<tbody>
<tr>
<td>UTPUMP-01</td>
<td>All Prime – Model #XS-6 Self-Priming Pump, 6” Suction and Discharge Full Diameter Impeller 12 3/8” (Attachment “A”)</td>
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<tr>
<td>UTPUMP-02</td>
<td>National Pump Company – Model #SE6XHC 8 Stage Submersible Bowl Assembly (Attachment “B”)</td>
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<tr>
<td>UTPUMP-03</td>
<td>The Gorman Rupp Company – Model #T4A3S-B/F Self Priming Centrifugal Pump Size 4”x4” (Attachment “C”)</td>
<td></td>
</tr>
</tbody>
</table>

Company: ________________________________

Signature: ________________________________

Printed Name: ________________________________

Title: ________________________________

Address: ________________________________

Telephone: ________________________________

Email: ________________________________

Date: ________________________________
Self Priming Centrifugal Pump
Basic Pump
Model T4A3S–B
Size 4” x 4”

PUMP SPECIFICATIONS

Size: 4” x 4” (101 mm x 101 mm) NPT - Female.
Pump Casing: Gray Iron No. 30. Maximum Operating Pressure 86 psi (593 kPa).*
Open Type, Two Vane Impeller: Ductile Iron No. 65-45-12.
Handle 3” (76.2 mm) Diameter Spherical Solids.
Impeller Shaft: Alloy Steel No. 4140.
Replaceable Wear Plate: Carbon Steel No. 1015.
Removable Adjustable Cover Plate: Gray Iron No. 30; 37 lbs. (17 kg).
Flap Valve: Neoprene w/Steel Reinforcing.
Bearing Housing: Gray Iron No. 30.
Seal Plate: Gray Iron No. 30.
Shaft Sleeve: Alloy Steel No. 4130.
Radial Bearing: Open Single Ball.
Thrust Bearing: Open Double Ball.

Bearing and Seal Cavity Lubrication: SAE No. 30 Non-Detergent Oil.
Flanges: 125# Gray Iron No. 30.
Gaskets: Buna-N, Compressed Synthetic Fibers, Vegetable Fiber, PTFE, Cork, and Rubber.
O-Rings: Buna-N.
Hardware: Standard Plated Steel.
Brass Pressure Relief Valve.
Bearing and Seal Cavity Oil Level Sight Gauges.


4” ASA (Specify Model T4A3S–B /F).
100 mm DIN 2527 (Specify Model T4A3S–B /FM).

SEAL SPECIFICATIONS

Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning. Tungsten Titanium Carbide Rotating and Stationary Faces. Stainless Steel No. 316 Stationary Seal. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel No. 18-8 Cage and Spring. Maximum Temperature of Liquid Pumped, 160°F (71°C).*

*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

Shown with Optional Suction & Discharge Spool Flanges (Available in ASA or DIN Standard Sizes).

The Gorman-Rupp Company • Mansfield, Ohio
Gorman-Rupp of Canada Limited • St. Thomas, Ontario, Canada

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*ADD 15 LBS. (6.8 KG.) W/EACH SPOOL FLANGE

OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE

PERFORMANCE CURVE

TOTAL HEAD VOLUME 10525B CURVE T4A-B-4

IMPELLER 10528 MODEL T4A-B

SIZE 4"X4" IMP. DIA. 9.75" SP.CGR. 1.0 RPM NOTED

Figure NPSH required prior to using above table. Do not use as available suction lift. 3.00"/0.76 M MAX. SIMPLIFIED SOLIDS.