



“Better Water. Better Lives.”
Gloria B. Nelson Public Services Building
688 Route 15, Mangilao, Guam 96913
PH: 300-6026/6027 Fax: 649-3750

**GWA IFB No. 2022-04 relative to Control Panel
Response to Inquiries No. 1**

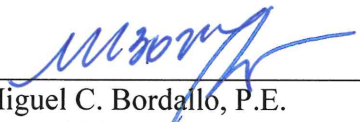
This Addendum and Response to Request for Information (RFI) is issued to modify the previously issued bid documents and/or given for informational purposes and to the extent the responses below modify the bid documents, please treat them as an amendment to the Bid. The following responses are in response to RFIs received from potential bidders on November 18, 2021

| | REF: | QUESTION/INQUIRY AS SUBMITTED: | GWA RESPONSE: |
|--|---|---|--|
| | Questions from November 18, 2021 | | |
| | 1. | Request for bid submittal extension of at least 14 business days. | Please refer to Bid Amendment No. 1 |
| | 2. | Request for photos of the existing control panel/s, pumps and nameplates or a scheduled site visit. | As stated under I. BID ITEMS, entitled Specifications for Item No. 1.0: GWA has an existing Grundfos HYDRO 2000 MF Pump Skid. Key control components within the existing control panel have failed and replacement parts are <u>not available due to obsolescence.</u> This IFB Line-Item No. 1 is for the replacement of the control panel only; existing pumps and pump skid piping and valves are to remain unchanged. The existing control panel had QTY 1 VFD (external) that connects to all three pump alternately one at a time. Existing Pump Information: Qty. 3, Grundfos, CR45-2-2 A-F-A-E-HQQE |

| | | | |
|--|--|--|---|
| | | | <p>Existing Pump Motor Information: Qty. 3, Grundfos, ML160BA-2-FF300-H3 (11 KW)</p> <p>NOTE: See attached photos.</p> |
|--|--|--|---|

Bidders are also notified to visit GWA website: www.guamwaterworks.org to ensure that addenda to the bid, answers to questions, and reminders are communicated to all bidders throughout the solicitation process.

11.24.2021
Date


Miguel C. Bordallo, P.E.
General Manager

GIAA BOOSTER PUMP CONTROL PANEL



BOOSTER PUMP #1 NAME PLATE

MOTOR

| | | | | | |
|------------------|-----------|--------------------|---------------------|-------------------|---|
| 3-MOT | | ML160BA-2-FF300-H3 | | 85U07534 | |
| P ₂ | 11,0 | KW | No. | | |
| 50 Hz | D/Y | U | 220-240/380-415 | | |
| cos φ | | I _{1/1} | 36,0-34,5/20,8-19,8 | | |
| 0,88-0,84 | | I _{max} | 39,6-38,0/22,8-20,8 | | |
| Eff. % | IE3 91,2% | n | 2940-2950 | min ⁻¹ | A |
| 60 Hz | D/Y | U | 220-277/380-480 | | |
| PF | | I _{1/1} | 36,0-30,0/20,8-17,2 | A | |
| 0,89-0,83 | | | | | |
| NEMA Nom. Eff. % | 91,0% | n | 3520-3550 | RPM | A |

98320170

GRUNDFOS
DK-8850 Bjerrødvej, Denmark

| | | | | | |
|------------------|--------------|--------------------|-----------|----------|----------|
| 3-MOT | | ML160BA-2-FF300-H3 | | 85U07534 | |
| P C | 1703 | IP | 55 | No | 85U07534 |
| Wgt | 88 | kg | Des. | A | Code G |
| Serial No | 7234 | | | Th. CL | F |
| DE | 7309BE | | | | |
| Grease | UNIREX N3 | NDE | 6309 Z C4 | | |
| T _{amb} | 40 | °C | Interval | 13 | g |
| T _{enc} | 60 | °C | Interval | 4500 | h |
| Protector type | PTC 160 degC | Interval | 1100 | h | |
| AMB 60 °C - CONT | | CC122B | | | |
| ENERGY | | IEC 60034 | | | |

98361778

CEHL
GRUNDFOS

PUMP

| | | | | | | |
|------------|------------------------------------|--------------------|-------------------|------------------|------|----|
| Type | CR45-2-2 A-F-A-E-HQDE | | | | | |
| Model | B98891012-1P-117150002 | | | | | |
| | f | 60 | Hz | P2 | 11,0 | kW |
| | n | 3529 | min ⁻¹ | H _{max} | 59,8 | m |
| | Q | 54 | m ³ /h | H | 46,4 | m |
| | P _{max} /t _{max} | 16-/120 | bar/°C | OCW | | |
| Serial No. | 0002 | Assembled in US | | | | |
| MEI ≥ | 0,7 | η _p (%) | 73,9 | | | |

98547135

CEHL
GRUNDFOS
DK-8850 Bjerrødvej, Denmark

BOOSTER PUMP2 # NAME PLATE

MOTOR

| | | | | | | | | | | |
|-----------------------------|-----------|--------------------|----------|------|----------|----------|--------|---|----|---|
| 3-MOT | | ML160BA-2-FF300-H3 | | | | | | | | |
| P.C. | 1703 | IP | 55 | No. | 85U07534 | | | | | |
| Wgt | 88 | kg | Des. | A | Code | G | Th. CL | F | | |
| Serial No. | 7235 | | NDE | | 6309 ZC4 | Quantity | | | 13 | g |
| DE | 7309BE | | NDE | | 6309 ZC4 | Quantity | | | 13 | g |
| Grease | UNIREX N3 | | NDE | | 6309 ZC4 | Quantity | | | 13 | g |
| T _{amb} | 40 | °C | Interval | 4500 | h | | | | | |
| T _{int} | 60 | °C | Interval | 1100 | h | | | | | |
| Protector type PTC 160 degC | | | | | | | | | | |
| CC1228 | | | | | | | | | | |
| AMB 60 °C - CONT | | | | | | | | | | |
| IEC 60034 | | | | | | | | | | |
| CE EHL GRUNDFOS | | | | | | | | | | |

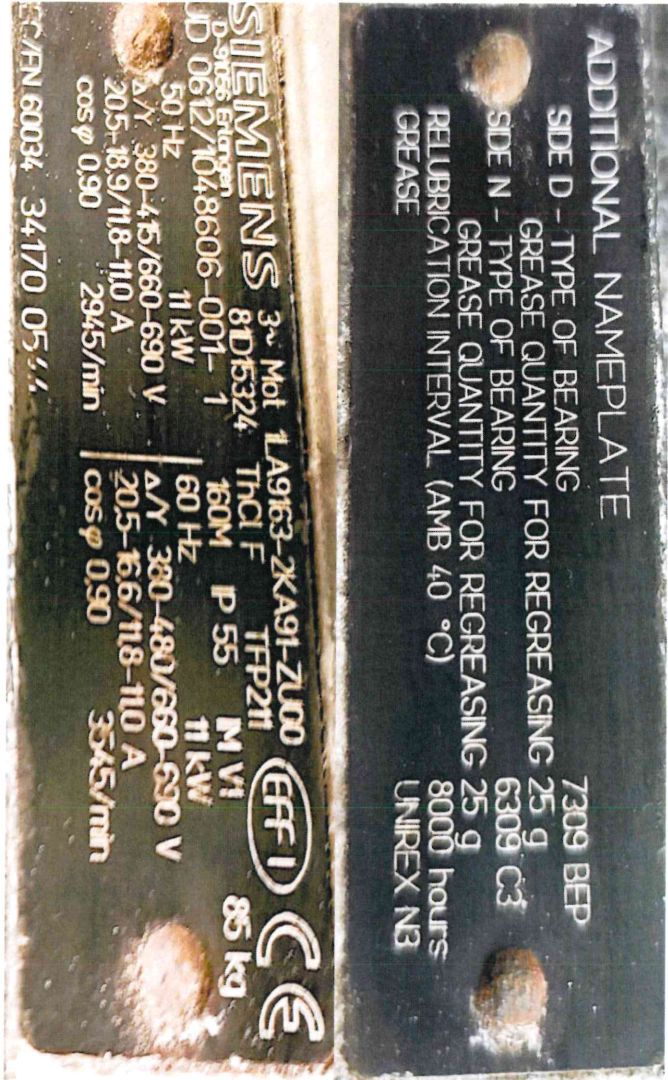
| | | | | | | | | |
|-----------------------------|-----------|--------------------|---------------------|----------|-------|---|-----------|-----|
| 3-MOT | | ML160BA-2-FF300-H3 | | | | | | |
| P2 | 110 | kW | No. | 85U07534 | | | | |
| 50 Hz | D/Y | U | 220-240/360-415 | V | | | | |
| cos φ | 0.88-0.84 | l/m | 36.0-34.5/20.8-19.8 | A | | | | |
| Eff % | IE3 91.2% | l/m | 39.6-38.0/22.8-20.8 | A | | | | |
| 60 Hz | D/Y | U | 220-277/380-480 | V | | | | |
| PF | 0.89-0.83 | l/m | 36.0-30.0/20.8-17.2 | A | | | | |
| NEMA Nom. Eff. % | | | | | 91.0% | n | 3520-3550 | RPM |
| CE EHL GRUNDFOS | | | | | | | | |
| DK 6850 Bjerringbro Denmark | | | | | | | | |

PUMP

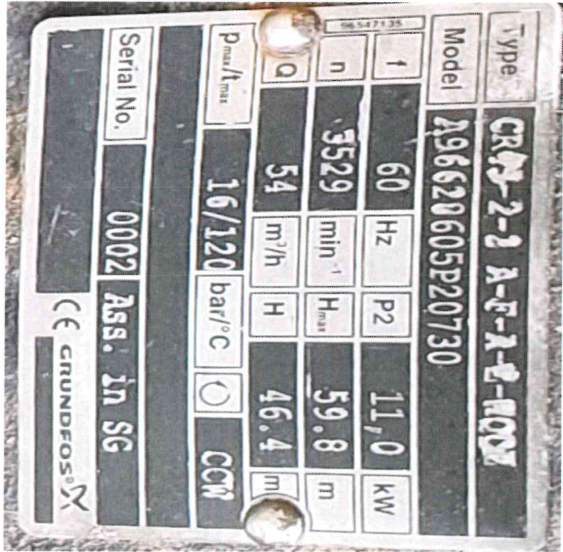
| | | | | | |
|------------------------------------|------------------------|--------------------|------------------|------|----|
| Type | CR45-2-2 A-F-A-E-HQOE | | | | |
| Model | B9891012-1P-117/150001 | | | | |
| f | 60 | Hz | P2 | 11.0 | kW |
| n | 3529 | min ⁻¹ | H _{tot} | 59.8 | m |
| Q | 54 | m ³ /h | H | 46.4 | m |
| P _{max} /l _{max} | 16/120 | bar/°C | CCW | | |
| Serial No. | 0001 | Assembled in | US | | |
| MEI ≥ | 0.7 | η _p (%) | 73.9 | | |
| CE EHL GRUNDFOS | | | | | |
| DK 6850 Bjerringbro Denmark | | | | | |

BOOSTER PUMP3 # NAME PLATE

MOTOR



PUMP



Booster Pump #1, #2 and #3

