



Republic of the Philippines  
**GENERAL SANTOS CITY WATER DISTRICT**  
E. Fernandez Street, Barangay Lagao General Santos  
Telephone No.: 552-3824; Telefax No.: 553-4960  
Email Address: gscwdprocurement@yahoo.com

GPM-014-2

**REQUEST FOR QUOTATION**

RFQ #: 3-0721-023      DATE: 07/06/2021

SUPPLIER: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE NO. : \_\_\_\_\_  
TIN NO. : \_\_\_\_\_

Dear Sir/Madam,

Pls. quote your lowest price on the item/s listed below subject to general condition stating the shortest time of delivery and submit your quotation duly signed by your representative not later than 07/12/2021, Pls. furnish this office the following articles subject to the terms and conditions contained therein.

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT PRICE
1	VARIABLE FREQUENCY DRIVE (VFD) : 125HP, 460V, 3PHASE, 50KAIC. PLEASE ATTACHED SPECIFICATION-ABC: PHP 410,000.00	1	sets	P
2	VARIABLE FREQUENCY DRIVE (VFD) : 100HP, 460V, 3PHASE, 50KAIC. PLEASE ATTACHED SPECIFICATION-ABC: PHP 480,000.00 ##### nothing follows #####	1	sets	P

Date of Delivery: \_\_\_\_\_  
Price Validity : \_\_\_\_\_  
Terms of Payment: \_\_\_\_\_


Place of Delivery: GSCWD Bodega

\*\*\*\*No partial delivery allowed\*\*\*\*

Note: 6% WITHHOLDING TAX DEDUCTION

PR NO.: 0421-102

Requested by:

  
**GESEM R. CABASERO**  
MATERIAL PROCUREMENT  
OFFICER A

Price quoted by:

\_\_\_\_\_  
Supplier

\_\_\_\_\_  
Date



## **TECHNICAL SPECIFICATION**

### **TITLE: PURCHASE OF TWO SETS VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER**

#### **1.0 SCOPE OF CONTRACT**

The scope of work shall be supply, and delivery of Two (2) sets of Variable Frequency Drive Motor Controller to General Santos City Water District (GSCWD).

#### **2.0 125Hp Variable Frequency Drive Operating Requirement**

<b>PARTICULARS</b>	<b>REQUIREMENT</b>	<b>Statement of Compliance</b>
<b>Product or Component Type</b>	<b>Variable Frequency Drive</b>	
<b>Accessories</b>	<b>Variable Frequency Drive Only</b>	
<b>Motor power, Hp (Kw)</b>	<b>125 (93)</b>	
<b>AC Voltage Range</b>	<b>380v - 500v</b>	
<b>Voltage % Tolerance</b>	<b>+10% -15%</b>	
<b>Supply Number Of Phases</b>	<b>3 phases</b>	
<b>Prospective line Isc</b>	<b>50 kA</b>	
<b>Maximum Transient Current for 60 s</b>	<b>190 A</b>	
<b>Maximum Continuous Current</b>	<b>173A</b>	





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 E-mail Address: gscwaterdistrict@yahoo.com

<b>Acceleration- Deceleration Ramps</b>	<b>0.01 – 9999s</b>	
<b>Speed Output Frequency</b>	<b>0.1 - 599Hz</b>	
<b>Enclosure Rating</b>	<b>IP55</b>	
<b>Digital Variable Frequency Drive with torque control system, heavy duty application. Graphical terminal display, SCADA ready, built pumping control system and integrated EMC filter. With provision for external reset, external start stop, external speed control. Complete protection against phase rotation, over/under voltage, thermal overcurrent, lock rotor, ground fault, under current, definite time overcurrent. Digital monitoring of voltage, current, frequency, energy, kW and fault history included. With RS485 communication port.</b>		

### 2.1 100Hp Variable Frequency Drive Operating Requirement

<b>PARTICULARS</b>	<b>REQUIREMENT</b>	<b>Statement of Compliance</b>
<b>Product or Component Type</b>	<b>Variable Frequency Drive</b>	
<b>Accessories</b>	<b>With complete Accessories</b>	
<b>Motor power, Hp (Kw)</b>	<b>100 (75)</b>	
<b>AC Voltage Range</b>	<b>380v – 500v</b>	
<b>Voltage % Tolerance</b>	<b>+10% -15%</b>	
<b>Supply Number Of Phases</b>	<b>3 phases</b>	





<b>Prospective line Isc</b>	<b>50 kA</b>	
<b>Maximum Transient Current for 60 s</b>	<b>160 A</b>	
<b>Maximum Continuous Current</b>	<b>145A</b>	
<b>Acceleration-Deceleration Ramps</b>	<b>0.01 - 9999s</b>	
<b>Speed Output Frequency</b>	<b>0.1 - 599Hz</b>	
<b>Enclosure Rating</b>	<b>IP55</b>	
<p><b>Digital Variable Frequency Drive with torque control system, heavy duty application. Graphical terminal display, SCADA ready, built pumping control system and integrated EMC filter. With provision for external reset, external start stop, external speed control. Complete protection against phase rotation, over/under voltage, thermal overcurrent, lock rotor, ground fault, under current, definite time overcurrent. Digital monitoring of voltage, current, frequency, energy, kW and fault history included. With RS485 communication port.</b></p>		

### 3.0 100Hp Motor Controller Panel Requirements

<b>Requirement</b>	<b>Statement of Compliance</b>
<p><b>Enclosure, Free Standing, IP55 ingress protection, gasketed with screened/louver ventilation and ventilation fan industrial type 220Vac, cable glands for supply power, motor supply and control cables.</b></p>	





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<b>Molded Case circuit breaker, 3 Pole, 200Amps, 480Vac minimum operating voltage with built in shunt trip coil @ 440Vac.</b>	
<b>3 phase Over/Under Voltage relay with phase rotation and delay 380vac - 500Vac.</b>	
<b>3 pole, MCB, 10Amp, 480Vac, dinrail mount. 2 pcs.</b>	
<b>Transient Voltage surge suppressor (TVSS), 600Vac, 3 phase + N. 35Kaic with monitoring LED. Nema Standard.</b>	
<b>750VA, dry type transformer, 480Vac-220Vac/110Vac, 1 phase, center tap.</b>	
<b>LED Lamp. 220Vac with door limit switch.</b>	
<b>Illuminated push buttons, 220Vac, start, stop and reset.</b>	
<b>Local and remote selector switch. 3 positions, maintained.</b>	
<b>Liquid Level relay, hi and low for well application. 220Vac control voltage. Complete with level relay probe.</b>	





#### 4.0 TERMS AND CONDITIONS

Requirements	Statement of Compliance
<p>The winning bidder is required to submit actual documents (manuals, data sheets, manufacturer's test results, name plate specifications, single line diagram and etc.) of the units.</p>	
<p>That during the installation and commissioning of the unit/units, the winning bidder shall be required to send a technician responsible of commissioning the unit/units. All relevant and incidental cost (transportation, accommodation, allowances and etc.) in the commissioning of the equipment shall be shouldered by the winning bidder.</p>	
<p>Field testing shall be made once the unit is ready for operation and when both the GSCWD and winning bidder have finished their scopes of work on the installed unit. GSCWD engineers shall conduct field testing with the presence of winning bidder's representative. In case the unit/units failed to pass the field testing, the winning bidder shall make necessary corrections / changes to replace the unit without cost to GSCWD.</p>	
<p>Two (2) sets of VFD Motor Controller shall be delivered within Thirty (30) calendar days upon receipt of Purchase Order (PO).</p>	
<p>The winning bidder shall be subjected to Liquidated Damages (LD) for each day of delay as provided by the IRR of RA 9184.</p>	
<p>That the winning bidder shall issue a warranty certificate of not less than one (1) year and the warranty shall start from the date of commissioning of the equipment.</p>	





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**That the bidder must have an available qualified and trained technicians 24/7 in case of equipment failure.**

Prepared by:

**EDMUND L. BADAL, REE**  
TWG - Member

**JUDY LIM PASMEN**  
TWG - Member

**MICHAEL G. GABALES, REE**  
TWG - HEAD

Recommending Approval:

**ROGELIO A. BESANA JR. C.E./RMP**  
Manager A - Engineering & Const'n. Dept.

Approval:

**ARN B. GELLANGARIN, PME**

General Manager A