



## Bid Notice Abstract

### Request for Quotation (RFQ)

**Reference Number** 10785370  
**Procuring Entity** MANGALDAN WATER DISTRICT  
**Title** SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT VARIABLE FREQUENCY DRIVE (VFD) WITH COMPLETE ACCESSORIES  
**Area of Delivery** Pangasinan

<b>Solicitation Number:</b>	MAWADGOODS#5, S. 2024	<b>Status</b>	<b>Pending</b>
<b>Trade Agreement:</b>	Implementing Rules and Regulations		
<b>Procurement Mode:</b>	Negotiated Procurement - Small Value Procurement (Sec. 53.9)	<b>Associated Components</b>	1
<b>Classification:</b>	Goods		
<b>Category:</b>	Water Service Connection Materials/Fittings	<b>Bid Supplements</b>	0
<b>Approved Budget for the Contract:</b>	PHP 350,000.00	<b>Document Request List</b>	0
<b>Delivery Period:</b>	15 Day/s		
<b>Client Agency:</b>		<b>Date Published</b>	24/04/2024
<b>Contact Person:</b>	Bernadeth D Dizon Industrial Relations Management Officer A Serafica St., Mangaldan Pangasinan Philippines 2432 63-75-5235884 63-75-6530574 mangaldanwaterdistrict0979@yahoo.com	<b>Last Updated / Time</b>	23/04/2024 17:07 PM
		<b>Closing Date / Time</b>	30/04/2024 14:00 PM

#### Description

INSTRUCTIONS TO SUPPLIERS AND SPECIFICATIONS FOR THE SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT VARIABLE FREQUENCY DRIVE (VFD) WITH COMPLETE ACCESSORIES

1. Invitation is restricted to Filipino Citizens/Sole Proprietorships, Cooperatives and Partnerships or Organizations with at least Sixty Percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines.
2. Prospective Suppliers shall submit their duly signed quotation together with the authentic copy of the original required documents in SEALED ENVELOPES in three copies to be marked as "Original Copy", "Copy 1", and "Copy 2".
3. The required documents refers to the following;
  - a. Mayor's/Business Permit
  - b. PhilGEPS Registration Number
  - c. Income/Business Tax Return
  - d. Omnibus Sworn Statement
  - e. Authority of the Signatory to transact and enter into a contract with the Mangaldan Water District
  - f. Warranty (if awarded the contract)

4. Failure to submit one or more of the required documents, the BAC shall rate the supplier as "failed".
5. Deadline for the submission of quotation and aforesaid required documents shall be on or before April 30, 2024, 2:00 P.M. only.
6. Quotation and required documents submitted after the deadline shall not be accepted by the BAC.
7. Specifications

#### QTY DESCRIPTION / SPECIFICATION

1 Assy Supply, Delivery, Installation and Commissioning of Variable Frequency Drive 50 HP, 230 V, 1 Ph Input, 3 Ph Output (for 25 HP motor)

Safety features should include the following:

- ☐ Provides various fieldbus cards for flexible applications.
- ☐ Built-in Modbus communication
- ☐ Built-in DC Choke to suppress harmonics
- ☐ Built-in EMC Filter to filter noise
- ☐ Built-in safe stop function, PLC function and brake unit
- ☐ Multi-function displays for the drive status
- ☐ Simple and intuitive operation
- ☐ User-define parameter groups
- ☐ Real-time clock (RTC) function
- ☐ Multi-language display
- ☐ Copy function saves parameters and PLC programs to the keypad memory for easy back-up/transferring to other drive.

☐ Hot pluggable LCD keypad

☐ Removable fan

☐ Supports various network protocols

☐ The electronic components of the drive are isolated from the cooling system to reduce heat interference.

Dissipated heat can be discharged by flange-mounting installation, and forces fan cooling can import cold air into the heat sink. The heat dissipation performance is optimized by these two cooling methods.

☐ Conformal coating (Class 3C3 of IE60721-3-3 standard) ensures drive operation stability and safety in critical environments.

#### CONTROL PANEL

☐ IP 66 protection level

☐ Complete with protective devices such as circuit breaker, magnetic line contactor, liquid level relay for well, under/over voltage relay, lightning arrester, relay for chlorinator, hourmeter, digital voltmeter/ammeter, current transformer, push buttons, pilot lights, selector switch, pressure transmitter 0-10 bars with 4-20 MA analog output in NEMA 1 Enclosure,

☐ Size: 16" x 32" x 42"

#### Item Specifications

Control Characteristics Control Mode • IMVF (Induction Motor V/F control)

- IMVF + PG (Induction Motor, V/F control with encoder)
- IM/PM SVC (Inductor Motor / Permanent-magnet) Synchronous Motor, space vector control
- IMFOC + PG (Induction Motor, field-oriented control with encoder)
- PMFOC + PG (Permanent-magnet Synchronous Motor, field-oriented control with encoder)
- IMFOC Sensorless (Induction Motor, sensorless field-oriented control)
- PM Sensorless (Permanent-magnet Synchronous Motor, sensorless field-oriented control)
- IPM Sensorless (Interior Permanent Synchronous Motor, sensorless vector control)
- SynRM Sensorless (Synchronous Reluctance Motor, sensorless field-oriented control)
- IM TQCPG (Induction Motor, torque control with encoder)
- PM TQCPG (Permanent-magnet Synchronous Motor, torque control with encoder)
- IM TQC Sensorless (Induction Motor, sensorless torque control)
- SynRM TQC Sensorless (Synchronous Reluctance Motor, sensorless torque control)

Max. Output Frequency 0 ~ 599 Hz

Frequency Output Accuracy Digital command:  $\pm 0.01\%$ ,  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ; Analog command:  $\pm 0.1\%$ ,  $25 \pm 10^{\circ}\text{C}$

Output Frequency Resolution (Input Frequency Resolution) Digital command: 0.01 Hz, Analog command:  $0.05 * \text{max. output frequency}$  (Parameter 01-00), 11 bit plus sign

Speed Control Range (Speed Control Ratio) • IMVF, IMVF + PG, IMSVC: 1:50

• IMFOC Sensorless: 1:100

• IMFOC + PG: 1:1000

• PMSVC: 1:20

• PM Sensorless: 1:50

• IPM Sensorless: 1:100

• PMFOC + PG: 1:1000

Starting Torque • IMVF, IMVF+PG, IMSVC: 150% / 3 Hz

• IMFOC Sensorless: 200% / 0.5 Hz

• IMFOC + PG: 200% / 0 Hz

• PMSVC: 100% / (motor rated frequency / 20)

• PM Sensorless: 100% / (motor rated frequency / 50)

• IPM Sensorless: 100% / 0 Hz

• PMFOC + PG: 200% / 0 Hz

Torque Accuracy TQC + PG:  $\pm 5\%$ ; TQC Sensorless:  $\pm 15\%$

Torque Limit Heavy Duty: up to 180% torque current; Super Heavy Duty: up to 220% torque current  
Protection Characteristics Out Over-current Protection Over-current protection for 240% of rated current (Heavy duty)  
When the over-current protection function is triggered, it will stop and send out error codes.  
Output Current Clamp Heavy duty / Super heavy duty: 190 ~ 195% rated current  
Over-voltage (DC) Protection It will shut down under below conditions:  
DC bus over 410 V  
Grounding Leakage Current Protection The leakage current is 60% higher than the rated current  
Output Low / Under Current Fault Low current detection in open circuits  
Short-circuit Current Rating (SCCR) A fuse is suitable for power systems with less than 100kA short-circuit capacity  
Motor Overheat Protection Supports electronic thermal relay protection, PTC, KTY84-130 and PT100  
Drive Overheat Protection Built-in temperature sensor (IGBT refer to oH1, Heatsink refer to oH2)  
Fan Control On / Off switch control  
Certification CE (Low Voltage Directive 2014/35/EU, EN61800-5-1; EMC Directive 2014/35/EU, EN61800-3) UL508C, cUL CAN / CSA C22.2 No.14-13, No.274\*6, Plenum rated  
RCM, KC\*7, EAC\*7, SEMI F47-0706, GB12668.3  
WEEE 2012/19/EU, RoHS 2011/95/EU\*8  
ISO 9001 (Quality assurance system)  
ISO 14001 (Environmental system)  
Safety Standards Safe Torque Off (STO, EN/IEC61800-5-2) TUV Rheinland Certified  
IEC62061/IEC61508, SIL CL2  
EN ISO13849-1, Cat.3/PL d

CONTRACT DURATION: 15 Calendar Days

WARRANTY: One (1) year covering factory defects of parts and same length of warranty for service

F.O.B.: Mangaldan Water District

**Created by** Bernadeth D Dizon

**Date Created** 23/04/2024

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<b>Reference Number:</b> 10785370	<b>MANGALDAN WATER DISTRICT</b> Serafica St., Mangaldan Pangasinan, Region I, Philippines		<b>Award Type:</b> Award Notice
<b>Control Number:</b> MAWADGOODS#5, S. 2024	<b>MAWADGOODS#5, S. 2024</b>		<b>Contract Amount:</b> Php340,000.00
<b>Bid Notice Title:</b> SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT VARIABLE FREQUENCY DRIVE (VFD) WITH COMPLETE ACCESSORIES	<b>Awardee :</b> ANDRITECH INDUSTRIAL SALES CO. <b>Address :</b> Blk 46 Lot 7 Katipunan Ext., cor King Henry St. Kingspoint Subd., Bagbag, Novaliches, Quezon City Quezon City Metro Manila, NCR, Philippines		<b>Award Date:</b> 17-May-2024
<b>Approved Budget:</b> Php350,000.00	<b>Contact Person :</b> Nelson Rabadon <b>Designation :</b> General Manager		<b>Publish Date:</b> 21-May-2024
<b>Procurement Mode:</b> Negotiated Procurement - Small Value Procurement (Sec. 53.9)	<b>Line Item</b>		<b>Date Last Updated:</b> 21-May-2024
<b>Classification:</b> Goods	<b>#</b>	<b>Product/Service/Project Name</b>	<b>Budget</b>
<b>Category:</b> Water Service Connection Materials/Fittings	1	MAWADGOODS#5, S. 2024, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT VARIABLE FREQUENCY DRIVE WITH COMPLETE ACCESSORIES, 83101501, 1, Lump Sum	Php350,000.00
<b>Applicable Procurement Rules:</b> Implementing Rules and Regulations	<b>Reason for Award :</b> Single Calculated and Responsive Quotation		<b>Contract Number:</b> MAWADGOODS#5, S. 2024
<b>Funding Source:</b> Government of the Philippines (GOP)			<b>Proceed Date:</b> 21-May-2024
<b>Funding Instrument:</b> Corporate Budget for the Contract Approved by the Board			<b>Contract Effectivity Date:</b> 27-May-2024
<b>Area of Delivery:</b> Pangasinan			<b>Contract End Date:</b> 10-Jun-2024
<b>Delivery Period:</b> 15 Day/s			<b>Created By:</b> Bernadeth D Dizon
<b>Contact Person:</b> Bernadeth Dizon			<b>Date Created:</b> 21-May-2024
<b>Created By:</b> Bernadeth Dizon			<b>Approver:</b> Bernadeth D Dizon
			<b>View Documents:</b> 4



Republic of the Philippines  
**MANGALDAN WATER DISTRICT**

Serafica St., Mangaldan, 2432 Pangasinan  
Tel. Nos. (075) 523-5884; (075)653-0574

**NOTICE OF AWARD**

MAY 17 2024

**MR. NELSON D. RABADON**

General Manager

ANDRITECH INDUSTRIAL SALES CO.

Block 46 Lot 7, Katipunan Ave. Cor King Henry St.,

Kingspoint Subdivision, Bagbag,

Novaliches, Quezon City

SIR:

We are happy to notify you that the **Supply, Delivery, Installation and Commissioning of One (1) Unit Variable Frequency Drive with Complete Accessories (MAWADGOODS#5, S. 2024)** is hereby awarded to you as the Bidder with the Single Calculated and Responsive Quotation at Contract Price equivalent to **THREE HUNDRED FORTY THOUSAND PESOS (P340,000.00)**.

You are therefore required within ten (10) days from receipt of this Notice of Award to formally enter into contract with us. Failure to enter into said contract shall constitute a sufficient ground for cancellation of this award.

Very truly yours,

  
**ENGR. MARCELO M. PETONIO**  
General Manager B

CONFIRME:

  
**MR. NELSON D. RABADON**

Date: 17 MAY 2024



**CONTRACT AGREEMENT FOR THE SUPPLY, DELIVERY, INSTALLATION AND  
COMMISSIONING OF ONE (1) UNIT VARIABLE FREQUENCY DRIVE  
WITH COMPLETE ACCESSORIES**

KNOW ALL MEN BY THESE PRESENTS:

This AGREEMENT is for the Supply, Delivery, Installation and Commissioning of One (1) Unit Variable Frequency Drive with Complete Accessories for the Mangaldan Water District and was made and executed into this MAY 21 2024 at Mangaldan, Pangasinan by and between:

MANGALDAN WATER DISTRICT (MAWAD), a Government-Owned and Controlled Corporation duly organized and existing under and by virtue of Presidential Decree No. 198, as amended, with office address at Serafica St., Mangaldan, Pangasinan duly represented herein by ENGR. MARCELO M. PETONIO, General Manager, of legal age, Filipino citizen and a resident of Jimenez St., Mangaldan, Pangasinan and hereinafter referred to as "ENTITY"

and

ANDRITECH INDUSTRIAL SALES CO. located at Block 46 Lot 7, Katipunan Ave. Cor King Henry St., Kingspoint Subdivision, Bagbag, Novaliches, Quezon City represented herein by its General Manager, MR. NELSON D. RABADON hereinafter called the "SUPPLIER"

WITNESSETH

WHEREAS, the ENTITY is desirous of procuring one (1) unit Variable Frequency Drive with complete accessories to be used by the Mangaldan Water District;

WHEREAS, the SUPPLIER has signified his intention attached hereto as Annex "A" to the ENTITY to supply, deliver, install and commission one (1) unit Variable Frequency Drive with complete accessories hereinafter referred to as "GOODS";

WHEREAS, this Contract shall be governed by the Laws of the Republic of the Philippines. It constitutes the entire agreement between ENTITY and SUPPLIER;

NOW THEREFORE, in consideration of the foregoing premises and of the covenants and stipulation set-forth herein parties hereto have agreed on the following arrangements, stipulations, terms and considerations, to wit:


1. That the SUPPLIER shall supply and deliver the GOODS within fifteen (15) calendar days upon signing of this Contract together with the Notice to Proceed.
2. That the SUPPLIER shall warrant that the GOODS supplied under this Contract are new, original, of most recent or current models and that they incorporate all recent improvements in design and materials.
3. That the SUPPLIER further warrants that all GOODS shall have no defect arising from design, materials or workmanship for a period of one (1) year after the acceptance by the ENTITY.
4. That the SUPPLIER hereby agrees to promptly remedy any failure or defect that may develop under the normal use of the supplied GOODS within the period specified by the ENTITY.
5. In the event that the GOODS and parts thereof is declared defective, the SUPPLIER hereby agree to rectify or replace without additional expenses to the ENTITY.
6. That the SUPPLIER further agrees to train the ENTITY's personnel in the latter's location on assembly and maintenance of the supplied goods at no additional cost on the part of the ENTITY.



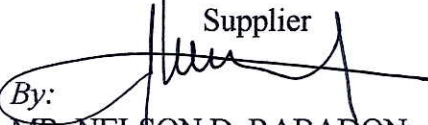
7. That the ENTITY hereby pays to the SUPPLIER in consideration of the provisions of the GOODS the amount THREE HUNDRED FORTY THOUSAND PESOS (P340,000.00) upon completion and acceptance.
8. That in the event that the SUPPLIER fails to deliver and install any or all of the GOODS and/or perform the services within the period/s specified in this Contract, the ENTITY shall, without prejudice to its remedies under this Contract and under the applicable law, deduct from the Contract Price, as liquidated damages. The applicable rate is one-tenth (1/10) of one (1) percent of the cost of the unperformed portion for everyday of delay.

IN WITNESS WHEREOF, the parties have hereunto set their hands and affixed their signature this MAY 21 2024 in Mangaldan, Pangasinan.


MANGALDAN WATER DISTRICT  
Entity


By:   
ENGR. MARCELO M. PETONIO  
General Manager B  
ID: Professional Regulation Commission  
Mechanical Engineer  
Reg. No. 0042260  
Reg. Date: 06/13/1991

ANDRITECH INDUSTRIAL SALES CO

Supplier  
By:   
MR. NELSON D. RABADON  
General Manager  
ID: Land Transportation Office  
Professional Driver's License  
No. N02-93-216540  
Exp. Date: 09/12/2024

Signed in the presence of:





#### ACKNOWLEDGEMENT

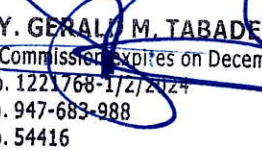
REPUBLIC OF THE PHILIPPINES )  
PROVINCE OF PANGASINAN ) S. S.  
MUNICIPALITY OF MANGALDAN )

On this MAY 21 2024, personally appeared before me ENGR. MARCELO M. PETONIO, representing Mangaldan Water District and MR. NELSON D. RABADON representing ANDRITECH INDUSTRIAL SALES CO their respective valid Identification Card as shown below their signatures, both known to and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that same is their free act and voluntary deed.

This AGREEMENT is consists of two (2) pages including the page on which this acknowledgement is written, all of which have been signed by the parties and their instrumental witnesses.

IN WITNESS WHEREOF, I have hereunto affixed my signature and official seal on the date and place written above.

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Series of 1029

  
ATTY. GERALD M. TABADERO  
Notary Public: Commission expires on December 31, 2024  
PTR No. 1221768-1/2/2024  
TIN No. 947-683-988  
Roll No. 54416  
MCLE Compliance No. VII-0023673-10-03-2022



Republic of the Philippines  
**MANGALDAN WATER DISTRICT**

Serafica St., Mangaldan, 2432 Pangasinan  
Tel. Nos. (075) 523-5884; (075)653-0574

**NOTICE TO PROCEED**

MAY 21 2024

**MR. NELSON D. RABADON**

General Manager

**ANDRITECH INDUSTRIAL SALES CO.**

Block 46 Lot 7, Katipunan Ave. Cor King Henry St.,  
Kingspoint Subdivision, Bagbag,  
Novaliches, Quezon City

SIR:

The attached Contract Agreement having been approved, notice is hereby given to **ANDRITECH INDUSTRIAL SALES CO.** that work may proceed on the **SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT VARIABLE FREQUENCY DRIVE WITH COMPLETE ACCESSORIES (MAWADGOODS#5, S. 2024)** under Negotiated Procurement under Small Value Procurement. Said work shall be completed within fifteen (15) calendar days. Same shall commence seven (7) calendar days upon receipt of this Notice to Proceed.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the MANGALDAN WATER DISTRICT.

Very truly yours,

  
**ENGR. MARCELO M. PETONIO**  
General Manager B

I acknowledge receipt of this Notice on

21 MAY 2024

Name of the Representative of the Bidder

NELSON D. RABADON

Authorized Signature

