


	<b>BAGUIO WATER DISTRICT</b> <b>BWD Compound, Utility Road, Baguio City 2600</b>		Document No.	ADM-PUR-F006
	<b>PURCHASE ORDER (P.O)</b>		Revision Date	February 15, 2020
			Revision No.	00

Supplier/Contractor	: <b>KEYLARGO INDUSTRIAL SALES</b>	Purchase Order No.	: <b>36466</b>
Contact Number	: <b>02-248-2856/961-52-60 local 218</b>	Date	: <b>December 26,2024</b>
Address/ TIN	: <b>1471 Quezon Ave. West Triangle Quezon City</b>	PR No./Abstract No.	: <b>12-154P-A</b>

Qty	Unit	Description	Unit Cost	Amount
1	set	"Grundfos" (Denmark) Model: SP30-16 Submersible Deepwell Pump	419,000.00	419,000.00
		<b>I. General Requirements:</b>		
		Capacity: <b>150 GPM</b>		
		TDH: <b>600 feet</b>		
		Eff. @ Rated Capacity: <b>70%</b>		
		Speed (Nominal): <b>3600 rpm</b>		
		Discharge Nipple with coupling: <b>3"Ø x 12" Schedule 80, BI</b>		
		Diameter coupling: <b>3" Ø Schedule 80, BI</b>		
		<b>Check valve and Strainer:</b>		
		- Standard built-in stop ring to prevent upthrust damage during critical start up and stopping phase		
		- Capable to handle sand content from 50 to 150ppm on certain pump sizes.		
		- Coupling: NEMA Standard Spline Type		
		<b>II. Material Components:</b>		
		Valve Casing: <b>Stainless Steel</b>		
		Valve Cup: <b>Stainless Steel</b>		
		For pump capacity: 17-60 cum/hr: <b>NBR-FKM-LSR</b>		
		Bearing:		
		- Replaceable wear ring, bearing and neck ring for easy maintenance.		
		- Sealed top bearing for high resistance against sand		
		- Octagonal shape bearings with sand flush channels to reduce abrasive wear		
		For pump capacity: 17-60 cum/hr: <b>NBR-FKM</b>		
		Washer for stop ring: <b>Carbon / Graphite HY22 in PTFE mass</b>		
		Chamber: <b>Stainless Steel</b>		
		Impeller: <b>Stainless Steel</b>		
		Suction interconnector: <b>Cast Stainless Steel</b>		
		Shaft complete: <b>Stainless Steel</b>		
		Strap: <b>Stainless Steel</b>		
		Cable guard: <b>Stainless Steel</b>		
		Strainer: <b>Stainless Steel</b>		
		Valve seat:		
		For pump capacity: 17-60 cum/hr: <b>NBR-FKM</b>		
		<b>III. Others</b>		
		Discharge nipple: <b>3" Ø x 12" S-80 , BI</b>		
		Discharge coupling: <b>3" Ø, S-80, BI</b>		






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Qty	Unit	Description	Unit Cost	Amount
		<b>IV. Must Submit Authenticated Certificate of Dealership/ Distributorship with Red Ribbon</b>		
		<b>V. ISO Certified</b>		
		<b>Coupled and aligned with Heavy Duty Mounting Base to:</b>		
		<b>"Franklin" (USA) Submersible Motor</b>		
		<b>Submersible Motor features as follow:</b>		
		<b>I. General Requirements:</b>		
		Rating: <b>40HP</b>		
		Nominal Voltage (V): <b>460 Volts</b>		
		Number of Phase: <b>3 Phase</b>		
		Frequency: <b>60Hz.</b>		
		Standard Diameter: <b>6 Inch</b>		
		Lead Wire / Cables: <b>Plug-in or Detachable</b>		
		Rotor Spline: <b>NEMA Standard</b>		
		<b>II. Material Components for standard water well 6" Ø Standard</b>		
		End Castings: <b>Gray Iron</b>		
		Stator Shell: <b>301 SS</b>		
		Stator Ends: <b>Low Carbon Steel</b>		
		Shaft Extension: <b>17-4 SS (40-60HP)</b>		
		Fasteners: <b>300 &amp; 400 Series SS</b>		
		Seal Cover: <b>304 SS &amp; Sintered Bronze</b>		
		Seal: <b>Carbon Ceramic Face</b>		
		Diaphragm: <b>Nitrile</b>		
		Diaphragm Plate: <b>304 SS</b>		
		Diaphragm Spring: <b>302 SS</b>		
		Diaphragm Cover:		
		Slinger: <b>Nitrile</b>		
		Lead Wire (or Cable): <b>XLPE 125°C</b>		
		Lead Potting: <b>Epoxy</b>		
		Lead Jam Nut:		
		Filter: <b>Delrin &amp; Polyester</b>		
		<b>III. Must submit the authenticated certificate of dealership/distributorship with a red ribbon</b>		
		<b>IV. ISO certified</b>		
		<ul style="list-style-type: none"> <li>Maximum Diameter: 6 inches</li> <li>Supplier to provide manufacturer pump test result upon delivery</li> <li>Supplier to provide brochure with full specifications and pump curve of offered booster pump</li> </ul>		
1	unit	<b>"Danfoss" (Denmark) Soft Starter Motor Controller</b>	164,000.00	164,000.00
		<b>Model: MCD 60086BT7S1X20CV2</b>		
		Capacity of Motor to be controlled by the Soft Starter		






**EMILED**

03 JAN 2025

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Qty	Unit	Description	Unit Cost	Amount
		Motor rating: <b>40HP</b>		
		Voltage Rating: <b>460V nominal</b>		
		Supply Frequency: <b>60Hz</b>		
		Number of Phase: <b>3 Phase</b>		
		Speed (Nom): <b>3600 RPM</b>		
		<b>Soft Starter Specifications:</b>		
		<b>1. Main Voltage</b>		
		L1, L2, L3 200VAC – 230VAC (+/-10%) <i>Motor Voltage Rating 460V</i>		
		<b>2. Control Voltage</b>		
		(A4, A6) 220VAC – 240VAC (+/-15%)		
		Main Frequency 60Hz (+/-10%)		
		Rated insulation Voltage to earth: 600VAC		
		Rated impulse withstand voltage: 4kV		
		<b>3. Short Circuit Capability</b>		
		Coordination: Semi-conductor fuses		
		Prospective current: 65kA		
		<b>4. Outputs</b>		
		Relay outputs: 10A@250VAC resistive		
		Programmable outputs: 1 (NC), 1 (NO), 1 (CO)		
		Analogue outputs: 4-20mA		
		Maximum load: 600Ω (12VDC @ 20mA accuracy +/-5%)		
		24VDC output, maximum load: 200Ma (accuracy +/-10%)		
		<b>5. Environmental</b>		
		Protection: IP20 & NEMA, UL indoor type 1		
		Operating temperature: -10°C to 60°C		
		Storage temperature: -25°C to 60°C		
		<b>6. Heat Dissipation</b>		
		During start: 4.5 watts per ampere		
		Note: Soft Starter should be equipped with SCADA ready device		
		-Bidder to submit certificate of sole distributorship		
1	unit	<b>"Danfoss" (Denmark) Variable Frequency Drive Adaptable to</b> <b>40HP, 230V, 3-phase, 60Hz Submersible Motor</b> <b>Model: FC202P37KT4</b> <b>Standard Specifications for Variable Frequency Drive</b> <b>1. MAIN SUPPLY (L1, L2, L3)</b> Supply Voltage: 3 x 380V-480 VAC Supply Frequency: 60Hz Displacement Power Factor: > 0.98 True Power Factor: 0.9 Switching on Input Supply L1, L2, L3: 1 – 2 times/ minute <b>2. OUTPUT DATA (U, V, W)</b> Output Voltage: 0-100% Switching on Output: Unlimited	393,000.00	393,000.00



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Qty	Unit	Description	Unit Cost	Amount
		Ramp Times: 0.1– 3600 seconds		
		Maximum Output Frequency: 590 Hz		
		<b>3. DIGITAL INPUTS</b>		
		Programmable Digital Inputs: 6		
		Logic: PNP		
		Voltage Level: 0-24V DC		
		<b>4. ANALOGUE INPUTS</b>		
		Number of Analogue Inputs: 2		
		Modes: Current		
		Voltage Level: -10 to +10 (scalable)		
		Current Level: 0/4 to 20mA (scalable)		
		<b>5. PULSE INPUTS</b>		
		Programmable Pulse Inputs: 2		
		Voltage Level: 0-24V DC (PNP positive logic)		
		Pulse Input Accuracy: Max. error: 0.1% of full scale		
		<b>6. ANALOGUE OUTPUT</b>		
		Programmable Analogue Outputs: 1		
		Current Range at Analogue Output: 0/4 – 20mA		
		<b>7. RELAY OUTPUTS</b>		
		Programmable Relay Outputs: 2		
		<b>8. FIELDBUS COMMUNICATION:</b> Ethernet IP		
		<b>9. AMBIENT TEMPERATURE:</b> Up to 55°C		
		<b>10. HARDWARE SPECIFICATIONS:</b> IP 55 Enclosure		
		<b>11. OTHER ACCESSORIES</b>		
		Pressure Transmitter: 25 Bars		
		With connection-based monitoring		
		<ul style="list-style-type: none"> <li>- Motor Insulation winding</li> <li>- Load envelope</li> <li>- Vibration</li> </ul>		
		With DC link for harmonic suppression		
		Real time clock battery		
		With SEMI Certification for POWER RIDE Through in the event of voltage drop. The motor will continuously run 50% @ 12 cycles.		
		Note: Supplier to submit sole/exclusive distributorship certificate..		
		-Supplier to be present during testing commissioning		

Total: ₱976,000.00

Usage: For Commissioning of new Queen of Angels DW

Prepared by:

Checked by:

Audited by:

Recommending  
Approval:

Approved by:

*signed*  
P.M. A. Trajano  
OIC-SMPO

*signed*  
Atty. C.D. De Guzman-Bitao  
Administrative Div. Manager

*signed*  
L. G. Ramos  
Internal Auditor

*signed*  
Atty. M. U. Tenedero  
AGM Adm./Com./Fin./ICT

*signed*  
Engr. Salvador M. Koyeca  
General Manager

**BIDS AND AWARDS COMMITTEE**  
**RESOLUTION NO. 174-2024**  
Request for Quotation (RQ) No. 09-154P-A  
Submersible Pump and Motor, Soft Starter and  
Variable Frequency Drive

**PURCHASING'S COPY**  
**Emailed: 16 Dec 2024**

**WHEREAS,** the Baguio Water District-Bids and Awards Committee (BWD-BAC), in accordance with the provisions of Republic Act (RA) No. 9184 and its Implementing Rules and Regulations (IRR), conducted the bidding for the procurement of the following, all with required specifications under RQ No. 09-154P-A dated 23 September 2024, under a two-envelope system of bidding but not to be awarded on a one (1) lot basis, and with the respective approved budget cost (ABC) of:

Item	Quantity	Description	ABC (per unit/set)
1	1 set	Submersible Pump, 150 gpm Coupled to Submersible Motor, 40 Hp	Php419,000.00
2	1 unit	Soft Starter Adaptable to 40hp, 460v nominal, 3 phase, 30 Hz submersible motor	Php164,000.00
3	1 unit	Variable Frequency Drive Adaptable to 40 Hp, 460V, 3 phase, 60 Hz submersible motor	Php393,000.00

**WHEREAS,** only **KEYLARGO INDUSTRIAL SALES (KEYLARGO)** submitted its bids and during the opening of the technical proposals (Envelope “A”) on 23 October 2024, it was determined that the lone bidder submitted complete documentary requirements thus, its bid was rated *“initially passed”*;

**WHEREAS,** upon evaluation by the Technical Working Group of the offers of the lone bidder, it was determined that the said bidder submitted complying offers for items 1-3, thus, its financial proposals (Envelope “B”) were opened and the bids as read and calculated are as follows:

ITEM	DESCRIPTION	QTY	BID PRICE (per unit/set)	% VARIANCE FROM ABC	ABC (per unit/set)
KEYLARGO INDUSTRIAL SALES					
1	Submersible Pump, 150 gpm Coupled to Submersible Motor, 40 Hp	1	Php419,000.00	-0-	Php419,000.00
2	Soft Starter Adaptable to 40hp,460v nominal, 3 phase, 30 Hz submersible motor	1	Php164,000.00	-0-	Php164,000.00
3	Variable Frequency Drive Adaptable to 40 Hp, 460V, 3 phase, 60 Hz submersible motor	1	Php393,000.00	-0-	Php393,000.00

**WHEREAS,** upon post-qualification, careful examination, validation, and verification of all the documents submitted by and of the financial bids of the lone bidder, it has been determined that **KEYLARGO** submitted complete documents and its financial bids for items 1-3 are determined to be the lone calculated responsive bids;

**NOW THEREFORE, on motion duly seconded, be it**

**RESOLVED, as it is hereby resolved,** to recommend to the Head of the Procuring Entity (HoPE) awarding the procurement of *one (1) set submersible pump, 150gpm coupled to submersible motor, 40 Hp, one (1) unit soft starter adaptable to 40hp, 460v nominal, 3 phase, 30 Hz submersible motor and one (1) variable frequency drive adaptable to 40Hp, 460V, 3 phase 60 Hz submersible motor* to **KEYLARGO INDUSTRIAL SALES** with the offered brands, specifications, and bid prices for being the lone calculated responsive bidder.

**UNANIMOUSLY APPROVED (29 November 2024)**

*signed*  
**Geovani L. Piza**  
Vice-Chairperson

*signed*  
**Engr. Jake D. Bawing**  
Member

*signed*  
**Joana D. Carame**  
Member

*signed*  
**Engr. Jane J. Balangcod**  
Member

*signed*  
**Engr. Dominic V. Agusdan**  
Member

*signed*  
**Atty. Chelsea S. De la Rosa**  
Member

*signed*  
**Atty. Ma. Luisa C. Tenedero**  
Chairperson

Attested by:

*signed*  
**Apple Jane P. Aviles**  
Secretariat

*signed*  
**Sharlene M. Durante**  
Secretariat

Approved by:

*signed*  
**Engr. Salvador M. Royeca**  
General Manager