



PANDI WATER DISTRICT

M.G Santos St., Poblacion, Pandi, Bulacan 3014

Contact Nos. (0997)2536220 / (0942)9807556/ (044) 661-1050

Email: pandiwaterdistrict@yahoo.com Website: www.pandiwaterdistrict.com

Request for Quotation (RFQ)

FOR

SUPPLY AND DELIVERY OF 20HP PUMP AND MOTOR FOR PHASE 5, PANDI RESIDENCES I, MAPULANG LUPA PUMP STATION

No	Description	Unit	Qty	Unit Cost	Total Cost	Your Quotation	Comply YES/NO
1	Submersible Pump / SP 30 – 11 / Stainless Steel / 6 in. diameter	unit	1	135,000.00	135,000.00		
2	Submersible motor / 230 volts / 20 HP / 3 Phase / 60 Hz / 6 in. dia. / 1.15 SF / Stainless steel splined shaft / 3450 rpm / mechanical face seal / double flanged NEMA mounting	unit	1	94,500.00	94,500.00		
3	Submersible cable – AWG #4	m	126	870.00	109,620.00		
4	Electrical wire, AWG #14 THHN	m	150	20.00	3,000.00		
				TOTAL	342,120.00		

TECHNICAL SPECIFICATIONS:

PUMP CONSTRUCTION

1. Pump Element - The impellers shall be of the enclosed type, constructed of bronze or stainless steel, accurately fitted, smoothly finished, and dynamically balanced at normal speed. They shall have removable wearing rings and lateral seal rings mounted on their companion cases. The bowl cases shall be constructed of closed-grained cast iron or stainless steel. Cast iron bowls shall be provided with non-toxic epoxy or glass enamel lining. Pump bearings shall be at least 2-1/2 times the diameter of the shaft. The pump shaft shall be of type 416 stainless steel.

2. The pump shall have nameplate showing the serial number of the equipment and the name of the manufacturer. The nameplate shall show the capacity in liters per second, TDH in meters and rated speed in revolutions per minute. Such other information as the manufacturer may consider necessary for complete identification shall be shown on the plate. The nameplate of the distributing agent shall not be



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acceptable. The nameplate shall be securely fastened to the equipment in a location affording easy viewing.

MOTOR - The motor shall be of submersible motor, rated at 20 HP, 230 volts, 3 phase, 3500 rpm, 60 hertz AC. The motor shall be designed for continuous duty operation and shall have a minimum service factor of 1.15. The motor shall water filled and shall incorporate a mechanical seal to restrict foreign matter from entering the motor. The thrust bearings shall be of ample capacity to carry the weight of all rotating parts plus the hydraulic thrust and shall be an integral part of the driver. The motor shall be equipped with expansion diaphragm to compensate for filling water expansion/contraction due to temperature changes. It shall be fitted with non-corrosive nameplate on which all NEMA standard motor data shall be stamped or engraved in English/Metric.

WIRES AND CABLES

a. All wires shall be of copper, annealed, soft drawn of 98% conductivity, insulated for 600 V maximum working voltage, type "THW" or "THWN" insulation unless otherwise noted on the Drawings. Insulation shall bear the manufacturer's name and trademark, type, voltage, ampere rating and size of the conductor.

b. Cable for submersible pump operation shall be oil and water-resistant. The submersible cable shall have a minimum of two insulation jackets. The inner jacket shall be of rubber or elasticized rubber material while the outer jacket shall be neoprene PE or PB material. The outer jacket shall bear the manufacture's name and trademark, insulation type and application, volt and ampere rating and size of the conductor. Cable conductor shall be uncut and unspliced from the motor pigtail to the junction box or terminal for the motor starter. It shall be fixed in place with straps of acceptable materials for such application.

Cable termination to pigtail shall be by means of heavy duty, permanent type splicing kit. Splicing paste shall have a minimum expiration period of one (1) year.

Cable shall be as manufactured by American Wire and Cable, Columbia, Duraflex, Phelps Dodge or approved equivalent.

Conductor shall not be pulled into the raceway until:

1. Raceway system has been inspected.
2. Plastering and concrete have been completed in the case of concealed work; and
3. Raceway has been freed of moisture and debris.
4. Conductors shall be hand-pulled using pulling lubricant where necessary.