Jun-22 60-SS-OM-01

OM - SERIES

(FRP) SEMI-VORTEX - SUMP PUMPS

SAMPLE SPECIFICATIONS

1.	SC	OPI	E OF	: SU	IPP	LY -

Furnish and install TSURUMI Model	Submersible Pump(s).
Each unit shall be capable of deliveringGPN	(m3/min) atFeet (m)
TDH. The pump(s) shall be designed to pump waste water, s	sewage or effluent containing inch (mm)
without damage during operation. The pump(s) shall be	designed so that the shaft power required
(BHP)/(kW) shall not exceed the motor rated output through	ghout the entire operating range of the pump
performance curve. The pump discharge size shall bein	ch, (mm).

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) including pump casing, impeller, motor head cover and intermediate brackets shall be manufactured from recyclable, application appropriate resins. The need for a protective coating shall not be required. All exposed fasteners shall be stainless steel and shall have stainless steel mating anchors integrally cast into the mating part. All units shall be furnished with a NPT discharge companion flange. Impellers shall be of the multi-vane, semi-vortex, solids handling design and shall be slip fit to the shaft. The motor shaft shall be machined to provide a positive drive of the impeller. The pump casing shall incorporate an air relief valve.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber. Units shall be fitted with a device that shall provide positive lubrication of top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Units shall have silicon carbide mechanical seal faces. Mechanical Seal hardware shall be stainless steel.

4. MOTOR-

The pump motor(s) shall be _____Hp., _____kW., ____V., 60 Hz., ___ Phase and shall be NEMA MG-1, Design Type B equivalent. Motor(s) shall be rated at _____ full load amps. Motor(s) shall have a 1.15 service factor and shall be rated for 6 starts per hour. Motor(s) shall be air filled, copper wound, class E insulated with built in thermal and over amperage protection. Motor shaft shall be 420 stainless steel and shall be supported by two permanently lubricated, high temperature ball bearings, with a B-10 life rating at best efficiency point of 60,000 hours. The bearings shall be single row, double shielded, C3, deep groove type ball bearings. Bearing seats shall be rolled carbon steel or aluminum die casting. Motor housing shall be 304 stainless steel.

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications. The cable entrance shall incorporate built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable boot. The cable entrance assembly shall contain an anti-wicking block to eliminate water incursion into the motor due to Capillary wicking should the power cable be accidentally damaged.