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GSZ-6 SERIES HIGH VOLUME - SLURRY PUMPS

SAMPLE SPECIFICATIONS

1.	S	C	n	P	F	0	F	S	P	P	ıv	_

Furnish and install TSURUMI Model	Submersible Pump(s).
Each unit shall be capable of deliveringGP	M(m³/min) atFeet(m)TDH.
The pump(s) shall be designed to pump waste water with	nout damage during operation. The pump(s) shall be
designed so that the shaft power required (BHP)/(kW	 shall not exceed the motor rated output throughout
the entire operating range of the pump performance cu	ırve.

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) shall be gray cast iron, ASTM A48 CLASS 30B. Impellers and field adjustable/replaceable wear plate shall be high chrome cast iron. Impellers shall be of the multi-vane semi-open design equipped with back pump out vanes and shall be slip fit to the shaft and key driven. Internal and external surfaces coming into contact with the pumpage shall be protected by a fused polymer coating. All exposed fasteners shall be stainless steel. All units shall be furnished with 150 lb. (10 kg/cm²) flat face flange and NPT companion flange.

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 and further protected by an exclusionary oil seal located between the bottom seal faces and the fluid being pumped. The oil chamber shall be fitted with a device that shall provide positive lubrication of the top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.) submergence. Units shall have silicon carbide versus silicon carbide upper and lower mechanical seal faces. Mechanical seal hardware shall be stainless steel. All unit(s) shall be fitted with a replaceable 403 stainless steel shaft sleeve.

4. MOTOR-

The pump motor(s) shall be	Hp.,	kW.,	V., 60 Hz. 3 F	hase and	shall be NEMA	₹ MG-1,
Design Type B equivalent. Motor(s) shall be ra	ted at	full load amps.	. Motor(s) s	hall have a 1.15	service
factor and shall be rated for 20 sta	arts per hour.	. Motor(s) s	shall be air filled, c	opper wour	nd, class F insul	ated with
built in thermal protection for each	n winding. M	lotor shaft s	hall be 420 stainle	ss steel and	d shall be supp	orted by
two high temperature ball bearings	s, with a B-10	D life rating a	at best efficiency p	oint of 60,	000 hours. Th	e bottom
bearing shall be two row, double	shielded, C	3, deep g	roove type ball be	earing. The	e top bearing or	า all units
shall be single row, double shield						
start (50 Hp), and shall be suitable f					utilizing a prope	erly sized
variable frequency drive. Motor sh	all incorporat	te a steel wa	iter cooling jacket.			

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications and shall be field replaceable utilizing standard submersible pump cable. The cable entrance shall incorporate built in strain relief and a combination three way mechanical compression sealing. The cable entrance assembly shall contain a anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally damaged.