

Major Category - Industrial Pumps and Compressors; UNSPC Code: 4015

Product Category: PUMPS UNSPSC : 401515

Non clog Submersible Pump with Floating Platform UNSPSC : 40151513

S. No.	Parameter	Type of Field	Value 1	Value 2	Value 3	Unit	Remarks
GENERIC							
1	SUBMERSIBLE SEWAGE PUMPS Set with floating platform operation field	Ch	single stage, single suction pumps with overhung nonclogging impeller for use for Sewage water, Slurry water, Thick Water, Dewatering/1.05 SpGr/ 6.5 to 7.5PH/Temp 40 C Max, Heavy Slurry water(Sea water with sand / Sp.Gr.1.30/ PH 6to8 temp: Ambient				G
2	Reference Indian Standard		IS:5120 latest- (Technical requirements for rotodynamic special purpose pumps)				M
3	Type of Suction / Delivery (size of Solid Waste)		upto 75mm	upto 80mm	upto 100mm		G
4	Motor Pump Rating BHP/KW		20 hp/15 KW				M
CONSTRUCTION							
1	Material of Construction		Graded Casting FG260				M
2	Impeller Type		non-clog type which allow smooth passage of solids				
3	Impeller material		SS/CF8M, Ss-410 / Fastner- BTH Steel,S.S.- 410/ Fastener S.S.				M
4	Pump Casing material						M TBD
5	O-Ring		Nitril Rubber,Mechanical Seal (motorSide) Carbon v/s Cast Cr Mo Steel, Pump Side- Sic v/s Sic/ "O" Ring - Nitril Rubber				M
6	Motor Body						M TBD
7	Stage of Pump		Single Stage/ volute				M

8	Motor Rpm		1450 ±10%		M
9	Motor Type		Air Cooled dry induction Motor Squirrel Cage,Totally enclosed type squirrel cage,		M
10	Motor Insulation		F Class Insulation/ Air Fill		M
11	Phase connection		Three, Star - delta connection		M
12	Power Supply		415 Volts, 50 Hz. Ac Supply		M
13	Sensor Control for Thermistor & Moisture		yes		M
14	Length of ISI marked submersible cable 4 core x 4 sqmm , Pvc insulated sheathed copper Conductor flexible Cable As per IS 694 latest	N	40	meter	M
15	Floating Platform Type		M.S. Fabricated plate form with Epoxy Paints,PVC or HDPE Drum Type		M
16	Floating Platform construction		M.S Fabricated Floating Platform Minium Size of 2.3mtr(width)*4mtrs(length)*3.3mtrs(height) (approx). PVC/HDPE Heavy Duty pontoons of Suitable Capacity & Thickness duly epoxy painted outside and leak proof. Wooden blocks used for flooring and walkway. Stand for Chain Pulley Block.Tubular Guard Railing around outer rage of platform for safety.		M
17	Motor Type		Enclosed, Air Cooled dry induction Motor Squirrel Cage,Totally enclosed type squirrel cage,		M
18	Mechanical Seal Motor Side		Carbon/ Tungston Carbide/SS,		M
19	Mechanical Seal Pump Side		SIC VS SIC,Ss-410 / Fastner- BTH Steel,S.S.- 410/ Fastener S.S.		M TBD
20	Protection		Protection- IP 68/ Duty S1 Continues Duty		M

21	Panel		Star Delta Electric Panel with powder coated finish double door with water resistant , digital type with multi safety features and with Moisture sensor, Thermistor Sensor and waterlevel guard		M
22	Accessories with Pump		Chain Pulley Block 2 ton capacity manually operated with minimum 3mtr lifting. Wire Rope with eye hook on both the sides. One life Jacket. 150mtr delivery pipe (canvas hose) with connector and clamp, M.S. Fabricated with Epoxy Paints		M
23	Manuals		Maintainance Manual, Operators maual,spare part catalog for pump & motor		M
24	Painting		Painted with primer and 2 coats of standard waterproof colour on exterior surface. (Rust proof)		M
25	Hose Collar		2 CI Hose Collar		M
26	Tools		Fixed Spanner (Size-13), Ring Spanner(Size-13), T Spanner(Size-13), Fixed Spanner(size-17), External Circlip Piller and internal circlip piller, Screw driver flat. Allenkey Spanner(Size-13)		M
PERFORMANCE					
1	Discharge capacity @ Duty Point(LPM) @ 10mtr Head	N	≥ 3350 lpm	LPM	M
2	Discharge in m3/hr		150-250	m3/hr	M
3	Shut off Head in Mtr		$15 \leq N \leq 20$	metre	M
4	Pump Efficiency at duty point		$\geq 50\%$	%	M
5	Motor Efficiency		$\geq 85\%$	%	M
6	Minimum BKW at duty point (1.0 S.G)		≥ 10.0		M
7	Minimum BKW at duty point (1.05 S.G)		≥ 11.0 BKW		M
8	Overall Pumpset Efficiency		$\geq 45\%$	%	M

CERTIFICATION

1	Availability of Type Test Report to prove conformity of parameters to the specification from any ILAC/NABL accredited/Central Govt lab	Ch	Yes		M
2	Test certificate No and date	Ch			M
3	Name of the Lab where test Conducted	Ch			M
4	Test Report to be furnished to the buyer on demand	Ch	Yes		M
5	Warranty		2 years from the date of supply		M