

BUDGETARY OFFER

Name of Work: Design, Manufacture, Supply, Erection, Testing and Commissioning of 4 No. of Vertical Turbine Pump set of 300 HP with allied Electro-Mechanical equipments complete for already existing pump house of Vindhyasini LIS, Dhamane Tal.: Shindkheda, Dist.: Dhule

Sr. No.	Description	Qty.	Unit	Design, Manufacture & Supply		Total Amount in INR
				Unit Rate in INR	Total in INR	
1	<p>A) Vertical Turbine Pumps Providing and installing at site of works and giving test to full capacity, vertical turbine pumps non-pull out type, complete with Strainer, Suction Bell, Column Assembly, Discharge Head, Motor Stool, Flexible Coupling, Sole Plates, Non-reverse Ratchet Arrangement etc. suitable for following duties and specifications. 1) Duty point Discharge per Pump = 275 lps 2) Duty point Head = 57.7 m 3) AHFL of River = 93 4) FSL Of Master Chamber = 104.890 5) M.D.D.L. = 67.245 6) Pump Floor Level = 94 7) Centre Line or Delivery Pipe = 94.100 8) Length of Rising Main PSC/ RCC = 5762.00 9) Rising main Dia. = 900 mm 10) Efficiency (a) Bowl Efficiency = 85 % (b) Pump Efficiency = 82.5% (c) Overall Efficiency = 78 % 11) No. of Impeller Stages = 3 Max 12) Max. Syn. RPM = 1500 rpm 13) Column Pipe dia. = 400 mm 14) Delivery Pipe dia. = 400 mm 15) Delivery Pipe thickness = 8 mm 16) Line Shaft dia. = 60 mm 17) Forced Water Lubricated / Oil Lubrication 18) Above Surface Discharge 19) No. of Pumps working in parallel = 4 B) Lubrication & Cooling As per Std.</p>	4	Nos.			
2	<p>Non Return Valve Providing & installing at site of works and testing of Cast Iron, Non-Slam, Double Flanged type Non Return Valve with by pass arrangement complete, suitable for following duties & specifications and as per IS 5312 (Part II-1986) Diameter = 400 mm PN Rating = 1.6 Working Pressure = 6.0 Kg/cm² Differential Pressure = 6.0 Kg/cm² Maximum Working Pressure = 12 Kg/cm²</p>	4	Nos.			
3	<p>Butterfly Valve Providing & installing at site of works and testing double flanged Butterfly Valves conforming to relevant IS/BS 5155 with Electric Actuator with 415 V A.C. Motors, D.O.L. Starting etc. complete, suitable for following duties & specifications. Diameter = 400 mm PN Rating = 1.6 Working Pressure = 6.0 Kg/cm² Differential Pressure = 6.0 Kg/cm² Maximum Working Pressure = 12 Kg/cm²</p>	4	Nos.			
4	<p>Kinetic Air Valve Providing & installing at site of works and testing KAV (with isolating Sluice Valve) of Dia. 100 mm, PN 1.6 for releasing air from Delivery Pipes. Working Pressure = 6.0 Kg/cm²</p>	4	Nos.			
5	<p>Air Cushion Valve 300 mm Dia. Working Pressure = 6.0 Kg/cm² Differential Pressure = 6.0 Kg/cm² Maximum Working Pressure = 12 Kg/cm²</p>					

6	<p>Delivery Pipe Providing & jointing at site of works and testing delivery pipeline including jointing of all in between Valves upto Rising Main/Manifold complete, suitable for following duties, specifications. Diameter (NB) = 400 mm Wall Thickness = 8 mm Hydraulic Test Pressure = 16 Kg/cm2</p>	105	Mtr.			
7	<p>Dismantling Joints Providing & installing at site of works & testing of Dismantling Joints in pump delivery pipeline complete conforming to the following specifications. Diameter (NB) = 400 mm Wall Thickness = 10 mm Hydraulic Test Pressure = 16 Kg/cm2</p>	4	Nos.			
8	<p>L.T. Induction Motor Providing & installing at site of works and testing to full capacity, solid shaft, squirrel cage Induction Motors CACW type 'F' class insulation suitable for operation on voltage mentioned below- 3 phase, 50 Hz with voltage variation of +/-6% and frequency variation +/-3% suitable for direct coupling with pumps under item No. 1 as per latest revision of IS 325, IS 4722 & other Relevant IS specifications. Suitable for following duties, specifications & conforming to detailed specifications. Operating Voltage 415 kV Minimum kW Rating of Motor 250 kW Maximum Syn. Speed 1500 RPM</p>	3	Nos.			
9	<p>FCMA Soft Starter ATS Starter suitable for above Motor and as per relevant IS standard.</p>	3	Nos.			
10	<p>Cubical Capacitors 415 V, 3 Phase, 50 Hz Capacitor cubicles for the Motors to improve the power factor to .95. The KVAR capacity of the capacitors should not exceed the magnetizing KVAR of above motor.</p>	3	Nos.			

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10	L.T. Distribution Panel (Suitable for above Pump house & Lightning For Indoor & Outdoor etc.)	1	Job.			
11	Temp. Scanner Panel Providing, installing at site of works & testing of Temperature Scanner Panel comprising of 3 Nos. Microprocessor Temperature Scanners having 10 point each to monitor Motor windings and Bearing Temperature, complete.	1	No.			
12	Preparation of Cable Schedule and Supply, Installation, Testing of Cables. Providing, installing & energizing at site of works & testing suitable LT Control Cables & Wires, Cable Trays, Racks complete as required for the all above electrical equipments in Pump House.	1	Job.			
13	Earthing Providing, installing at site of works Earthing comprising of adequate No. of Earth Stations, Earth Bars & individual double earthing to all electrical equipments as per detailed specifications.	1	Set			
14	Water Level Indicator Providing installing at site of works and testing Water Level Indicators operating on 230 V, 50 Hz, A.C. supply and as per detailed specifications.	1	Set			
15	Spares & Tools Providing installing at site of works, Spares and Tools complete as per detailed specifications.	1	Set			
16	Testing, Commissioning, Trials and Operations for pumping machinery and performance testes and training to Departmental Staff and as per detailed specifications.	1	Job.			
17	Providing and installing Fire Fighting System for the Pump House. Adequate Fire Fighting System for complete Pump House and Control Room as per latest Fire Norms/Guidelines for Safety issued by Central Electricity Authority confirming to IE rule No. 43,44,45 of 2005 specifications.	1	Job.			
18	Chain Pulley Block 5T Capacity With 30 Mtrs. Lift	2	Job.			
TOTAL in INR						