

BUDGETARY OFFER

Name of Work: Design, Manufacture, Supply, Erection, Testing and Commissioning of 75 HP Horizontal Split Case Pumps 3 Nos. with allied Electro-Mechanical equipments complete for already existing pump house of Gayatri Kalambu LIS Stage - 2 , Tal.: Shahada, Dist.: Nandurbar

Sr. No.	Description	Qty.	Unit	Design, Manufacture & Supply		Total Amount in INR
				Unit Rate in INR	Total in INR	
1	<p>A) Horizontal Split Case 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 = 86.00 lps 2) Duty point Head = 35.00 m 3) AHFL of River = Nil 4) FSL Of Master Chamber = 119.00 Mtr. 5) M.D.D.L. = 96.01 Mtr. 6) Pump Floor Level = 99.710 Mtr. 7) Centre Line or Delivery Pipe = 99.835 Mtr. 8) Length of Rising Main PSC/ RCC = 2750 Mtr. 9) Rising main Dia. = 500 mm 10) Efficiency (a) Bowl Efficiency = 75 % (b) Pump Efficiency = 72.5% (c) Overall Efficiency = 69 % 11) Max. Syn. RPM = 1500 rpm 12) Delivery Pipe dia. = 250 mm 13) Delivery Pipe thickness = 8 mm 14) Forced Water Lubricated / Oil Lubrication / Grease 15) Above Surface Discharge 16) No. of Pumps working in parallel = 3</p> <p>B) Lubrication & Cooling As per Std.</p>	3				
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 = 250 mm PN Rating = 1.6 Working Pressure = 6.0 Kg/cm² Differential Pressure = 6.0 Kg/cm² Maximum Working Pressure = 12 Kg/cm²</p>	3	Nos.			

3	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 = 250 mm PN Rating = 1.6 Working Pressure = 6.0 Kg/cm ² Differential Pressure = 6.0 Kg/cm ² Maximum Working Pressure = 12 Kg/cm ²	3	Nos.			
4	Kinetic Air Valve Providing & installing at site of works and testing KAV (with isolating Sluice Valve) of Dia. 80 mm, PN 1.6 for releasing air from Delivery Pipes. Working Pressure = 6.0 Kg/cm ²	3	Nos.			
5	Air Cushion Valve 200 mm Dia. Working Pressure = 6.0 Kg/cm ² Differential Pressure = 6.0 Kg/cm ² Maximum Working Pressure = 12 Kg/cm ²	1	No.			
6	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) = 250 mm Wall Thickness = 8 mm Hydraulic Test Pressure = 16 Kg/cm ²	25	Mtr.			

7	Suction Pipe Diameter (NB) = 250 mm Wall Thickness = 8 mm Hydraulic Test Pressure = 16 Kg/cm ²	20	Mtr.			
8	Dismantling Joints Providing & installing at site of works & testing of Dismantling Joints in pump delivery pipeline complete conforming to the following specifications. Diameter (NB) = 250 mm Wall Thickness = 8 mm Hydraulic Test Pressure = 16 Kg/cm ²	3	Nos.			
9	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	3	Nos.			
10	FCMA Soft Starter Starter suitable for above Motor and as per relevant IS standard.	3	Nos.			
11	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.	3	Nos.			

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10	L.T. Distribution Panel (Suitable for above Pump house & Lightining 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 3T Capacity With 15 Mtrs. Lift	1	Job.			
TOTAL in INR						