



सत्यमेव जयते

**Government of Maharashtra
Water Resources Department
Budegetary Offer no. 6 / 2024-25**

Executive Engineer, Mechanical Division, Akola (Phone No. 0724-2488546, E-mail ID - mdaki@rediffmail.com) invites Budegetary offer for the estimation purpose from reputed and experienced company/ authorized dealer for following work. The offer of each should be inclusive of all taxes, freight and duties. The offer should reach to this office on or before dated 06/03/2025. Please note Budegetary offer is invited only for estimation purpose and it does not give any assurance regarding floating of tenders or otherwise.

Schedule

Subject :- Design, Manufacturing, Supply, Erection, Testing & Commissioning of Submerged centrifugal Pump of 326 HP x 3 Nos with allied electromechanical equipments etc at Bordinala Lift Irrigation scheme Ta- Chandurbazar Dist - Amravati

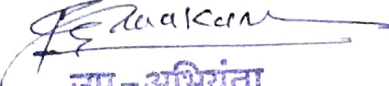
Sr. No	Description of Item	Qty	Unit	Unit Rate	Per	Amount
1	Submerged centrifugal Pump - 326 HP Design, Manufacturing, Supply, Erection, Testing & Commissioning of Submerged centrifugal Pump of 326 HP x 3 Nos with motor, complete with strainer, impeller assembly, base frame foundation, 90 degree bend (Pump discharge Side) and giving test to full capacity. a) Duty point discharge 0.590 m ³ /s b) Duty point head 35.18 m c) Maximum rpm synchronous 1000 d) Pump efficiency / Motor efficiency 85 % (minimum)/ 95 % (minimum) e) Head range 38.66 to 26.36 m f) Application Raw water g) No. of stages - Single Stage i) Submersible Motor Suitable cable = 40 Mtr approx. j) Maximum no. of pumps working in parallel Upto 03 Nos. k) Motor Capacity - 271 KW l) Supply Voltage 415 V	3	No		No	
2	Non Return Valve 600 mm Dia. Design, Manufacturing, Supply, Erection, Testing & Commissioning of DI, Non slam, double flanged type Non Return Valve with bypass arrangement complete suitable for following duties as per IS 5312. a) Diameter 600 mm b) P.N. rating 1.0	3	No		No	
3	Butterfly Valve 600 mm Dia. Design, Manufacturing, Supply, Erection, Testing & Commissioning of double flanged butterfly valve confirming to relevant IS/BS 5155 with electric actuators with 415 Volt AC motors, DOL starting etc complete suitable for following duties and specifications. a) Diameter 600 mm b) P.N. rating 1.0	3	No		No	
4	Kinetic Air Valve 150 mm Dia. Design, Manufacturing, Supply, Erection, Testing & Commissioning of kinetic air valves of 150 mm dia. For releasing air from the delivery pipes, etc. complete conforming to the detailed specification as per IS-CS12-92. PN Rating - 1	3	No		No	
5	Delivery pipelines 600 mm Dia. Design, Manufacturing, Supply, Erection, Testing & Commissioning of delivery pipe lines including jointing of all in between valves and up to rising main/manifold complete. Suitable for following duties, specification and conforming to the detailed specification as per IS 5822-1994 (a) Diameter (NB) 600 mm/5 mm thk.	75	Mtr		Mtr	

6	Dismantle Joint 600 mm Design, Manufacturing, Supply, Erection, Testing & Commissioning of rubber expansion joints in pump delivery pipe line complete, suitable for following duties, specification and conforming to the detailed specification (a) Diameter (NB) 600 mm (d) PN Rating - 1	3	No		No	
7	ECMA soft Starter Design, Manufacturing, Supply, Erection, Testing & Commissioning of ECMA soft starter suitable for above motor as mentioned in item no 1 and conforming to the specification.	3	No		No	
8	Capacitor Cubical 3.3 KV, 3 Phase, 50 Hz, 110 KVAR Design, Manufacturing, Supply, Erection, Testing & Commissioning of 3.3 KV, 3 phase, 50 Hz, 110 KVAR capacitor cubicle for the motors mentioned against item no 1, to improve the power factor to 0.95. The KVAR capacity of the capacitor cubicles should not exceed the magnetising KVAR of motor. The capacitor conforming to the detailed specification	3	No		No	
9	H.T. Panel 3.3 KV, 3 Phase, 630 Amps Design, Manufacturing, Supply, Erection, Testing & Commissioning of sheet steel, dust and vermin proof, indoor floor mounting type H.T. panel, completely assembled, wire tested, painted, conforming to relevant IS, complete suitable for following duties, specification and conforming to the detailed specification (a) Electrical system 3.3 KV, 3 Phase, 50 Hz, A.C. with fault level of 25 KA (b) Capacity 630 Amps (c) panel shall comprise of the following (i) 2 Nos. incoming breakers & 1 No. Bus coupler breaker with following rating current 630 Amps Minimum rupturing capacity 250 MVA (1) Breakers for out going feeders for motors- 3+1(spare) nos with the following ratings. current 630 Amps Minimum rupturing capacity 250 MVA	1	Set		Set	
10	L.T. Distribution panel 415 V, 3 Phase, 630 Amps. Design, Manufacturing, Supply, Erection, Testing & Commissioning of 415 volts, 3 phase, 50 c/s 630 amps. L.T. distribution panels comprising of following as per detailed specification . (i) 415 volt, 630 amps A.C.B. for auxiliary transformer incoming feeder 1 no. (ii) 415 volt, 63 amps. H.R.C switch fuses unit 2 nos. (iii) 415 volt, 32 amps. H.R.C switch fuses unit 4 nos. (iv) 415 volt, 16 amps. H.R.C switch fuses unit 5 nos. (v) 415 volt, 100 amps. Change over switch 1 nos. (vi) 3 nos. electrical motor starter D.O.L. type reversible push button operated suitable for B.F. valves under item no. 3 above	1	Set		Set	
11	Batteries, Battery Charger & D.C.D.B. Design, Manufacturing, Supply, Erection, Testing & Commissioning Batteries, Battery charger & D.C.D.B. complete unit conforming to the detailed specification i) Batteries - V.R.L - Valve Regulated lead acid dry type battery (2x55 cell 110 volts D.C 200 Ah hour Capacity along with all accessories. ii) Battery charger 110 volts, 30 Amp. For above Batteries comprising of float charger cum boost charger-02 No. complete with protective relay, etc. iii) D.C.D.B comprising of two incoming double pole miniature circuit breaker (MCB) 80 amps, 2 nos., 10 amps., 10 nos. outgoing feeder with MCB or switch fuse unit, complete with all accessories, etc.	1	Set			

12	Design, Manufacturing, Supply, Erection, Testing & Commissioning of cable as below. (including cable tray)				
	Control Cable				
	a) 4 sq mm X 4 core, 1.1 PVC Insulated copper conductor cable	200	Mtr		Mtr
	b) 6 sq mm X 4 core, 1.1 PVC Insulated copper conductor cable	300	Mtr		Mtr
13	Earthing Design, Manufacturing, Supply, Erection, Testing & Commissioning of earthing comprising of adequate no. of earth station, earth bars & individual double earthing to all electrical equipment conforming to the detailed specification GI earth strip per meter	1	Set		Set
14	Water Level Indicator. Design, Manufacturing, Supply, Erection, Testing & Commissioning of water level indicator, operating on 230 volts, 50C/s, AC supply conforming to the detailed specification. Operating range of level = 20 Mtr min	1	Set		Set
15	Temperature Scanner Panel and Remote Control Panel (i) Providing, installing at site of work & testing of temperature scanner panel comprising of 3+1 nos. microprocessor temperature scanners having 10 points each to monitor H.T. motor winding and bearings temperature, complete detailed specification (ii) Providing, installing at site of work & testing of sheet steel floor mounted vermin proof and powder coated and tropicalized remot control panels with control switches, ammeter, annunciation facia windows, indication lamps etc suitable for following items and conforming to the detailed specification a) incoming breaker/Bus coupler 2+1 Nos. b) pump motor breaker 3+1 Nos. c) Auxiliary transformer breakers 1 No. e) Butterfly valves 3 Nos. f) Water level indicators 1 Nos. g) Capacitors 3 Nos h) Soft Starters 3 Nos	1	Set		Set
16	Flowmeter Design, manufacturing, supply, erection, testing & commissioning of ultrasonic insertion fixed type flowmeter (single channel) suitable for 1050 mm diameter of MS pipeline (Rising Main) along with transmitter, remote facility, display unit at control room.	1	Job		Each
17	Testing, Commissioning, Trials & operations for one year after performance guarantee test. Operation, maintenance and repairs with watch and ward of the all electromechanical equipments after PG Test during warranty period for 300 Hours.	1	Job		Each
18	Tools and spares Providing Tools and Spares for the above system	1	Set		Each

शर्ती व अटी :

- १) सदर बजेटरी ऑफर केवळ अंदाजपत्रकीय कार्यवाही करिता मागविण्यात येत आहे.
- २) बजेटरी ऑफर चे दरांवरील सर्व लागू कर वेगळे दर्शविण्यात यावे.
- ३) बजेटरी ऑफर या कार्यालयाचे ईमेल mdaki@rediffmail.com वर सुध्दा स्विकारल्या जातील.


उप-अभियंता
द्वार निर्मिती व उभारणी
उप-विभाग क्र.२, अकोला


(वि. ल. वराडे)
कार्यकारी अभियंता
यांत्रिकी विभाग
अकोला