

“जलसंपदा विभागाच्या संकेतस्थळावर कृपया भेट द्या -<https://wrd.maharashtra.gov.in>”

जा.क्र. /2157 /उसियांविक्र.2चंद्र/ ताशा-2/धा.क्र.38/ ब.ऑफर / 2016	कार्यकारी अभियंता यांत्रिकी उपसा सिंचन विभाग क्र.2, बाबुपेठ, चंद्रपुर - 442403 भांचे कार्यालय
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प्रति,

मा. अधिक्षक अभियंता

यांत्रिकी मंडळ , नागपुर

विषय :- गुरुकुंज मोझरी उपसा सिंचन योजनेच्या पंपींग यंत्रासामुग्रीच्या यांत्रिकी व विदयुत घटक भागाचे संकल्पन,निर्मिती, पुरवठा , उभारणी,चाचणी व कार्यान्वितीकरण कामाची बजेटरी ऑफर संकेतस्थळावर प्रसिध्द करणेबाबत.

महोदय,

या पत्रासोबत गुरुकुंज मोझरी उपसा सिंचन योजनेच्या पंपींग यंत्रासामुग्रीच्या यांत्रिकी व विदयुत घटक भागाचे संकल्पन,निर्मिती, पुरवठा , उभारणी,चाचणी व कार्यान्वितीकरण कामाची बजेटरी ऑफर क्र. 6 / 2016-17 यांत्रिकी संघटनेच्या संकेतस्थळावर (www.mahayantriki.gov.in) प्रसिध्द करण्यात यावी हि विनंती.

कार्यालय	कार्यकारी अभियंता, यांत्रिकी उपसा सिंचन विभाग क्र.2, चंद्रपुर
बजेटरी ऑफर प्रसिध्द करण्याची अंतिम तारीख	दि. 07.9.2016
बजेटरी ऑफर स्विकारण्याची अंतिम तारीख	दि. 22.9.2016

सबब आपले माहीती व पुढील योग्य कार्यवाहीस्तव सविनय सादर.

सहपत्र :- बजेटरी ऑफर क्र. 6 / 2016-17 – 1 प्रत

कार्यकारी अभियंता
यांत्रिकी उपसा सिंचन विभाग क्र.2
चंद्रपुर

Budgetory Offer No. 6/ 2016-2017

Name of Work: Design,Manufacturing,Supply,Erection,Testing and Commissioning of
Submersible Vertical centrifugal Pump – 7 +1 (Spare) Nos. with allied equipments at **Gurukunj
Mozri L.I.S**, Th. Tivsa Dist.:- Amravati.

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
1	8	No.	Item No.1 (A) – Submersible Vertical centrifugal Pumps with Motor 260 KW :- Providing, installing at site of works and giving test to full Capacity, Submersible Vertical centrifugal Pump , complete with strainer, suction bowl, base frame foundation, non reversible rotation arrangement, etc. suitable for following duties, Specification a) Duty point discharge 278 LPS b) Duty point head 62.91 mtr c) Maximum rpm synchronous 1500 rpm d) Efficiency 1. Motor efficiency 93.5 % 2. Pump efficiency 83 % 3. Overall efficiency of pump 79 % e) Head range 47 m to 70 m F) Discharge type Surface g) No. of stages Single Stage only. h) Delivery pipe dia. Minimum (ID) 400 mm I) Motor floor level 320.50 mtr II) Sump Bottom Level 312.50 mtr. i) Delivery pipe thickness minimum 5 mm j) Suspended length of delivery pipe = 8 m Approx.			7 + 1 spare
			Item No.1 (B) – Autocoupling with extra Bend for Pump			
			Item No.1 (c) – Guide Rail for every Pump			
			Item No.1 (D) – Lifting Chain for every Pump			
2	7	No.	Item No. 2 Non Return Valve 400 mm Dia. (Cast steel) Providing, installing at site of works and testing. Non slam, double flanged type non return valve conforming to relevant IS5312 (Part-II) with by pass arrangement complete, suitable for following duties specification a) Diameter 400 mm b) P.N. rating 1.0 c) Working pressure 6.3 Kg/cm2 d) Differential working pressure 6.3 Kg/cm2 e) Maximum working pressure 12.6 Kg/cm2 f) Maximum rate of flow in LPS 361 LPS			

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
3	7	No.	Item No. 3 : Butterfly Valve 400 mm Dia. (Cast steel) Providing, installing at site of works and testing double flanged butterfly valves conforming to relevant IS/BS 5155 with electrical actuators with 415 volts A.C. Motors D.O.L. starting etc. complete, suitable for following duties, specifications and conforming to detailed specification . a) Diameter 400 mm b) P.N. rating 1.0 c) Working pressure 6.3 Kg/cm2 d) Differential working pressure 6.3 Kg/cm2 e) Maximum working pressure 12.6 Kg/cm2 f) Maximum rate of flow in LPS 361 LPS			
4	7	No.	Item No. 4 : Kinetic Air Valve 80 mm Dia. Providing, installing at site of works and testing kinetic air valves of 80 mm dia. For releasing air from the delivery pipes, etc.			
5	210	Mtr.	Item No. 5 : Delivery pipelines 400 mm Dia. Providing and joining at site of works and testing delivery pipe lines including jointing of all in between valves and up to rising main/manifold complete. Suitable for following duties, specification (a) Diameter (NB) 400 mm (b) Wall Thickness 5 mm (c) Hydraulic test pressure 15.0 kg/cm2			
6	7	No.	Item No. 6 : Dismantal Joint 400 mm Providing, installing at site of works and testing of Dismantal joints in pump delivery pipe line complete, suitable for following duties, specification (a) Diameter (NB) 400 mm (b) Internal test pressure 15.0 kg/cm2			
7	7	No.	Item No. 7 : Supply, Installation and testing of Concentric Orifice plate / meter in the delivery pipe line with proper calibration for measuring discharge of indivisual pump.			
8.	7	No.	Item No 8 : FCMA soft starter Providing and installing at site of work and testing of FCMA soft starter suitable for above motor 260 kw mentioned in item No. 1			

9.	7	No.	<p>Item No. 9 : Capacitor Cubicle 415 Volts, 3 Phase, 50 Hz, 140 KVAR</p> <p>Providing, installing at site of works and testing of 415 V, 3 phase, 50 cycles per second capacitor cubicles for the motors mentioned against Item no. 8 above, to improve the power factor to 0.95. The KVAR capacity of the capacitor cubicles should not exceed the magnetizing KVAR of motor.</p>			
10	2	Set	<p>Item No. 10 B: L.T. distribution motor 415 V, 3 Phase, 5000 Amps:-</p> <p>Providing, installing at site of works and testing of sheet steel, dust and vermin proof, indoor floor mounting type L.T. Panel, completely assembled, wired tested, painted, conforming to relevant ISS, complete suitable for following duties, specification</p> <p>(a) Electrical System 415 Volts, 3 Phase, 50 Hz, A.C. with fault level of 50 KA</p> <p>b)Capacity - 5000 Amp</p> <p>c) Panel shall comprises of following</p> <p>1) Incomer breaker with fallowing rating</p> <p>Current - 5000 Amp , 250 MVA</p> <p>ii) 4 (3 + 1 (spare)) nos outgoing brakers with following rating</p> <p>Current - 1000 Amp , 250 MVA</p>			

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
11	01	Job	<p>Item No. 10 B: L.T. distribution Panel 415 V, 3 Phase, 300 Amps.</p> <p>Providing, installing at site of work and testing of 415 volts, 3 phase, 50 c/s 300 amps. L.T. distribution panels comprising of following</p> <p>(i) 415 Volt, 300 amps. A.C.B. for auxiliary transformer incoming feeder 1 no.</p> <p>(ii) 415 Volt, 100 amps. H.R.C. switch fuses unit 5 nos.</p> <p>(iii) 415 Volt, 63 amps. H.R.C. switch fuses unit 5 nos.</p> <p>(iv) 415 Volt, 32 amps. H.R.C. switch fuses unit 5 nos.</p> <p>(v) 415 Volt, 16 amps. H.R.C. switch fuses unit 5 nos.</p> <p>7 nos. electrical motor starter D.O.L. type reversible push button operated suitable for B.F. valves under Item no. 2 above.</p>			
12			<p>Item No. 12 : Preparation of cable schedule and Supply, Installation and Testing of cable as below.</p> <p>Providing, installing at site of work & testing of suitable cables & wires complete as per requirement of pump house as given below</p> <p>a) 120 sq.mm X 30 core, 1.1 KV unarmoured PVC insulated AL cable L.T. Panel to motor</p> <p>b) 50 sq.mm X 3.5 core, 1.1 KV armoured PVC insulated AL cable L.T. Panel to E.O.T.</p> <p>c) 6 sq.mm X 4 core, 1.1 KV PVC Insulated Aluminium conductor cable from LT panel to BFV Actuator.</p> <p><u>Control Cable</u></p> <p>a) 4 sq.mm X 3 core, 1.1 PVC Insulated copper conductor cable</p> <p>b) 6 sq.mm X 4 core, 1.1 KV PVC Insulated copper conductor cable</p> <p>c) 1.5 sq.mm X 4 core, 1.1 KV PVC Insulated copper conductor cable</p> <p>d) 2.5 sq.mm X 7 core, 1.1 KV PVC Insulated copper conductor cable</p> <p>e) 1.5 sq.mm X 27 core, 1.1 KV PVC Insulated copper conductor cable</p>			
	600	Mtr				
	200	Mtr				
	100	Mtr				
	125	Mtr				
	125	Mtr				
	250	Mtr				
	300	Mtr				
	200	Mtr				

13	1	LS	Item No. 15: Earthing Providing, installing at site of work earthing comprising of adequate no. of earth sttions, earth bard and individual double earthing to all electrical equipment.			
14	1	No	Item No. 16 : Water Level Indicator. Providing, installing at site of work & testing of water level indicator, operating on 230 volts, 50 C/s.AC supply			
15	1	Set	Item No. 17: Remote Control Panel Providing, Installing at site of work & testing of sheet steel floor mounted vermin proof and powder coated and tropicaillized remote control panels with control switches, ammeter, annunciation facia windows, indication lamps etc. for control & monitoring of breakers, pump/motor ancillary equipment/panels, etc. (a) Incoming breakers/Bus couplers 8 nos. (b) Pump motor breakers 7 nos. (c) Butterfly valves 7 nos. (d) Water level indicators 7 nos. (e) Capacitors 7 nos.			
16	1	Lot	Item No.18: Spares & tools Providing at site of works tools and spares complete .			Pl. provide the list
17	1	Job	Item No. 19: Testing, Commissioning, Trial operation & Training to Department staff Testing, Commissioning, Trial operation of the complete equipment and performance tests and training to department staff			
18	1	Job	Sump Model Test			

Executive Engnieer,
Mechanical Lift Irrigation Dn. No.2,
Chandrapur.