

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

जा.क्र. / १७८६ /उसियांविक्र.२चंद्र / ताशा-२ / धा.क्र.४४ / ब.ऑफर / २०१७	कार्यकारी अभियंता यांत्रिकी उपसा सिंचन विभाग क्र.२, बाबुपेठ, चंद्रपुर - ४४२४०३ यांचे कार्यालय
☎ :- (०७१७२)२२७३८२	
फॅक्स :- (०७१७२)२२७३८२	
ई मेल :- mlidn2@rediffmail.com	दि. ०४ /०८ /२०१७.

प्रति,

मा. अधिक्षक अभियंता
यांत्रिकी मंडळ , नागपुर

विषय :- जामखुर्द उपसा सिंचन योजना ता. पोंभुर्णा जि. चंद्रपुर

व्ही.टी. पंपींग यंत्रासामुग्रीच्या यांत्रिकी व विदयुत घटक भागाचे संकल्पन,निर्मिती, पुरवठा ,
उभारणी,चाचणी व कार्यान्वितीकरण कामाची बजेटरी ऑफर संकेतस्थळावर प्रसिध्द
करणेबाबत.

महोदय,

या पत्रासोबत जामखुर्द उपसा सिंचन योजनेच्या व्ही.टी. पंपींग यंत्रासामुग्रीच्या यांत्रिकी व विदयुत घटक भागाचे संकल्पन,निर्मिती, पुरवठा , उभारणी,चाचणी व कार्यान्वितीकरण कामाची बजेटरी ऑफर क्रं. ८ / २०१७-१८ (GST चा अंतर्भुत करुन) यांत्रिकी संघटनेच्या संकेतस्थळावर (www.mahayantriki.gov.in) प्रसिध्द करण्यात यावी हि विनंती.

कार्यालय	कार्यकारी अभियंता, यांत्रिकी उपसा सिंचन विभाग क्र.२, चंद्रपुर
बजेटरी ऑफर प्रसिध्द करण्याची अंतिम तारीख	दि. ८.८.२०१७
बजेटरी ऑफर स्विकारण्याची अंतिम तारीख	दि. १६.८.२०१७.

सबब आपले माहीती व पुढील योग्य कार्यवाहीस्तव सविनय सादर.

सहपत्र :- बजेटरी ऑफर क्र. ०८ /२०१७-१८ — १ प्रत

कार्यकारी अभियंता
यांत्रिकी उपसा सिंचन विभाग क्र.२
चंद्रपुर

Budgetory Offer No. 8 / 2017-2018

Name of Work : Design with Quality Assurance plan at all stages ,Manufacturing, Supply, Erection, Testing and Commissioning of Self Water Lubricated Vertical Turbine Pump – 2 Nos. with allied equipments at **Jamkhurd L.I.S**, Th. Pomburna Dist.:- Chandrapur.

<i>Sr No.</i>	<i>Estimated Quantity</i>	<i>Item of work</i>	<i>Estimated Rate</i>	<i>Total Amount</i>
1	3 Nos	<p>Item No.1 (A) – Vertical Turbine Pumps</p> <p>Providing, installing at site of works and giving test to full load Capacity, vertical turbine pumps non-pull out type, complete with strainer, suction bowl, complete column pipe assembly ,Discharge head, Motor stools, Flexible coupling, sole Plates, base frame foundation, non reversible rotation Ratchet arrangement, etc. suitable for following duties, Specification and conforming to details</p> <p>a) Duty point discharge 227 LPS b) Duty point head 27.74 m c) Maximum rpm synchronous 1500 rpm d) Efficiency</p> <p>1. Bowl efficiency (min) 86 % 2. Pump efficiency (min) 84 % 3. Overall efficiency (min) 83 %</p> <p>e) Head range 25 m to 30 m f) Lubrication system Self water g) Discharge type Surface h) No. of stages Single Stage i) Column pipe dia. Minimum (ID) 400 mm I) Pump floor level 87.52 m II) Sump Bottom Level 103.50 m j) Column pipe thickness minimum 6 mm k) Line shaft dia. Minimum 45 mm</p>		
2.	02 Nos.	<p>Item No. 2 Non Return Valve:-</p> <p>Providing, installing at site of works and testing cast steel, non slam, double flanged type non return valve with by pass arrangement complete, suitable for following duties specification and conforming to details specification under item No. 2 of Vol. II.</p> <p>a) Diameter - 350 mm b) P.N. rating - 1.0 c) Working Pressure – 5.6 kg/cm² d) Max Flow rate – 295 LPS</p>		

Sr No.	Estimated Quantity	Item of work	Estimated Rate (in figure)	Total Amount
3.	02 Nos.	Item No. 3 : Butterfly Valve :- Providing, installing at site of works and testing double flanged butterfly valves cast steel 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 a) Diameter - 350 mm b) P.N. rating - 1.0 c) Working Pressure – 5.6 kg/cm ² d) Max Flow rate – 295 LPS		
4.	02 Nos.	Item No. 4 : Kinetic Air Valve:- Providing, installing at site of works and testing kinetic air valves tamper proof with isolating sluice valve For releasing air from the delivery pipes, etc. complete as per detailed specification and conforming to details specification under item No. 4 of Vol. II. i) Diameter - 80 mm , ii) P.N. - 1.0		
5.	30 mtr.	Item No. 5 : Delivery pipelines. Manufacturing, Providing, Supply, erection ,testing and joining at site of works and testing of delivery pipe line including jointing in between pump and up to rising main/manifold complete. Suitable for following duties, specification (a) Diameter (NB) 350 mm (b) Wall Thickness 5 mm		
6.	02 Nos.	Item No. 6 : Dismantal Joint :- Providing & installing at site of works & testing of Dismantal joint in delivery pipe line complete suitable for following i) Diameter = 350 mm ii) Internal Test Pressure =15.00 Kg./cm ² iii) Vacuum Test Pressure in mm of Hg 750 mm		
7.	02 Nos.	Item No.7: L.T. Induction Motors 415 KV 90 KW, 3 Phase, 1500 rpm, 50 Hz.. 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 cycles per second with voltage variation of +/- 10% and (a) Operating voltage - 415 KV (b) Minimum BHP (KW) rating of motor - 90 KW		

8.	02 Nos	Item No. 8 : Capacitor Bank 415 KV, 3 Phase, 50 Hz, 50 KVAR Providing, installing at site of works and testing of 415 KV, 3 phase, 50 cycles per second capacitor cubicles for the motors mentioned against Item no. 7 above, to improve the power factor to 0.98. The KVAR capacity of the capacitor cubicles should not exceed the magnetizing KVAR of motor. The capacitor shall be conforming to detailed specification under Item no. 10 of detailed item wise specification under vol. II		
9.	01 Set	Item No. 9 : L.T. Distribution Panel 415 v 3 Phase , 630 Amp. Providing , installation at site of work and testing of 415 Volts, 3 phase,50 c/s,630Amp LT distribution panels comprising of following. 1. 415 volts, 630 amp, ACB for auxillary transformer incoming feeder 1 no. 2. 415 volts,100 amp,HRC switch fuses unit 2 no . 3. 415 volts,63 amp,HRC switch fuses unit 2 nos. 4. 415 volts,32 amp,HRC switch fuses unit 2 nos. 5. 415 volts,16 amp,HRC switch fuses unit 3 nos. 2 Nos electrical motor starter DOL type reversible push button operted suitable for BF Value		
10.		Item No. 10 : Preparation of cable schedule and supply, installation and testing of cable as below.		
	100 mtr.	240 sq.mm x 3.5 core,1.1 Kv XLPE Al armoured cable LT panel to LT Motor.		
	50 mtr.	6 sq.mm x 4 core, 1.1 PVC armoured insulated AL cable, (From LT panel to BFV Actuator)		
11.	05 Nos	Item No. 11 : Earthing. Providing, installing at site of work earthing comprising of adequate no. of earth stations, earth bard and individual double earthing to all electrical equipment .		
12.	01 Lot	Item No. 12 : Spares & tools. Providing at site of works tools and spares complete as per detailed specification in Vol-II		
13.	01 Job	Item No. 13 : Testing, Commissioning, Trial & operation of Pums and allied equipments Testing, Commissioning, Trial operation of the complete equipment and performance tests as per detailed specification		

14.	01 Job	Item No. 14 :- Dismantalling of old electrical & Mechanical equipment.		

Note :- Rates are inclusive all prevailing taxes including G.S.T.

Executive Engineer
Mechanicle Lift Irrigation Dn.No.2
Chandrapur