

जा.क्र./ १८४२ /यांउसिविक्र.२/चंद्र/ले.शा./२०१४	कार्यकारी अभियंता, यांत्रिकी उपसा सिंचन विभाग क्र.२, बल्लारपुर रोड,बाबुपेठ, चंद्रपूर-४४२४०३ यांचे कार्यालय
☎ :- (०७१७२) २२७३८२	
फॅक्स :- (०७१७२) २२७३८२	
ई.मेल :- mlidn२@rediffmail.com	
	दिनांक :- ०२/०९/२०१४

प्रती,

मा. अधिक्षक अभियंता,
यांत्रिकी मंडळ (उ. व सं.),
नागपूर

विषय :- किरमीरी दरूर उपसा सिंचन योजना, जि. चंद्रपूर
योजनेकरीता नव्याने बसविण्यात येणाऱ्या फोर्सड वॉटर ल्यूब्रीकेटेड प्रकारचा १ नग व्हर्टीकल
टर्बाईन पंपाचे संकल्पन, निर्मिती, पुरवठा, उभारणी, चाचणी व कार्यान्वित्ती करणाची बजेटरी
ऑफर शासनाच्या संकेत स्थळावर प्रसिद्ध करण्याबाबत.

संदर्भ :- आपले कार्यालयीन पत्र क्र. यामनाग/तांशा२/उसियो/धा.क्र२५/किरमीरी दरूर/३३०७/२०१४ दि. ०१/०९/२०१४.

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उपरोक्त संदर्भिय पत्राच्या अनुषंगाने कळविण्यात येते की, किरमीरी दरूर उपसा सिंचन
योजना, जि. चंद्रपूर येथे बसविण्यात येणाऱ्या २८५ अश्वशक्तीच्या १ नग व्हि. टी. पंपाची बजेटरी ऑफर कृपया शासनाच्या
संकेत स्थळावर प्रसिद्धी करीता देण्याचे करावे. करीता आपल्या माहिती करीता सविनय सादर.

कार्यालयाचे नाव व पत्ता	कार्यकारी अभियंता, यांत्रिकी उपसा सिंचन विभाग क्र. २, बल्लारशा रोड, बाबुपेठ, पोलिस चौकीजवळ, चंद्रपूर ४४२ ४०३
तांत्रिक मान्यता मिळाल्याचा क्र. व दि.	मा.अ.अ.(यां.) यांत्रिकी मंडळ, नागपूर यांचे पत्र क्र. यामनाग/तांशा२/उसियो/धा.क्र २५/किरमीरी दरूर/२६५५/२०१४ दि. ११/०७/२०१४.
२०१४- २०१५ या आर्थिक वर्षात सदर कामासाठी केलेली वित्तीय तरतुद	स्थापत्य विभागाकडून ठेव रक्कमेची तरतुद करण्यात आली आहे.
बजेटरी ऑफर वेबसाईटवर प्रसिद्धीचा दिनांक	दिनांक ०५/०९/२०१४ पूर्वी
बजेटरी ऑफर सादर करण्याचा कालावधी	बजेटरी ऑफर प्रसिद्ध झाल्यापासून ७ दिवस

सहपत्र :- बजेटरी ऑफर

कार्यकारी अभियंता,
यांत्रिकी उपसा सिंचन विभाग क्र.२,
चंद्रपूर

प्रत :- मा. मुख्य अभियंता, जलसंपदा विभाग (यां), नाशिक यांना माहिती व पुढील कार्यवाहीस्तव सविनय सादर

BUDGETORY OFFER NO. 7 OF 2014-15

Name of Work : Design, Manufacturing, Supply, Erection, Testing & Commissioning of 4th forced Water Lubricated type V.T. Pump 1 No. with allied equipments at Kirmiri-Darur Lift Irrigation Scheme, dist. Chandrapur.

Sr No	Estimated Quantity	Item of work	Estimated Rate (in figure)	Total Amount
1	1 No.	<p>Item No.1 – Vertical Turbine Pumps 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 the detailed specification</p> <p>a) Duty point discharge 541 LPS b) Duty point head 33.58 m c) Maximum rpm synchronous 1000 rpm d) Efficiency 1. Bowl efficiency 88 %(min.) 2. Pump efficiency 86 %(min.) 3. Overall efficiency 84 %(min.) e) Head range 25.19 m to 36.94 m f) Lubrication system Forced water g) Discharge type Surface h) No. of stages (min.) One Stage i) Column pipe dia. Minimum (ID) 600 mm I) Pump floor level 156.36 m II) Sump Bottom Level 141.05 m j) Column pipe thickness minimum 6 mm k) Line shaft dia. Minimum 60 mm l) Sole plate thickness minimum 60 mm m) Diameter of shaft enclosing tube (minimum) 140 mm suitable for item (k) above (ID)</p>		
2	1 Job	<p>Item No.2 – Forced Water Lubrication and Cooling System Providing, installing at site of works and giving satisfactory test of Forced water lubrication and cooling system with all piping arrangements.</p> <p> i) Pressure Filters 1 Nos. ii) Booster pumps 7.5 HP - 1 Nos. As per detailed specification.</p>		
3	1 No.	<p>Item No.3 Non Return Valve 550 mm Dia. Providing, installing at site of works and testing cast iron, non slam, double flanged type non return valve with by pass arrangement complete, suitable for following duties specification and confirming to detailed specification.</p> <p>a) Diameter 550 mm b) P.N. rating 1.0</p>		

Sr No	Estimated Quantity	Item of work	Estimated Rate (in figure)	Total Amount
4	1 No.	<p>Item No.4 : Butterfly Valve 550 mm Dia. 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.</p> <p>a) Diameter 550 mm b) P.N. rating 1.0</p>		
5	1 No.	<p>Item No. 5 : Dismantle Joint 550 mm Dia. Providing, Supply & erection at site of works & testing of dismantle joint in delivery pipe line complete suitable for following duties, specification and conforming to detailed specification in vol. II</p> <p>(a) Diameter (NB) 550 mm (b) P.N rating 1.0 (c) Internal test pressure 15.0 kg/cm2 (d) Vacuum test pressure in mm of Hg 760 mm</p>		
6	1 No.	<p>Item No. 6 : Kinetic Air Valve 125 mm Dia. (Double Orifice Type - Tamper Proof) Providing, installing at site of works and testing kinetic air valves of 125 mm dia. For releasing air from the delivery pipes, etc. complete as per detailed specification in Vol. II.</p> <p>i) Diameter = 125 mm , ii) P.N = 1.6</p>		
7	20 Mtr.	<p>Item No. 7 : Delivery pipelines 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 and conforming to detailed specification under vol. II.</p> <p>(a) Diameter (NB) 550 mm (b) Wall Thickness 8 mm (c) Hydraulic test pressure 15.0 kg/cm2</p>		
8	1 Set.	<p>Item No. - 8 Spares & Tools</p> <p>i) Line shaft of standard length = 2 nos. ii) line shaft bearing = 10 nos. iii) Bottom line shaft = 1 nos. iv) Top side line shaft = 1 nos. v) Radial ball bearing = 2 nos. vi) Spherical roller thrust bearing = 2 nos. vii) Guide Spider = 4 nos. viii) oil indicator = 1 nos. ix) Muff Coupling = 3 nos. x) Coupler Cap = 5 nos. xi) Connector Bearing = 5 nos. xii) Electrical spares = 1 lot</p>		

Sr No	Estimated Quantity	Item of work	Estimated Rate (in figure)	Total Amount
9	1 No.	<p>Item No.9: H.T. Induction Motors 0.415 KV, 230 KW, 3 Phase, 1000 rpm, 50 Hz.</p> <p>Providing, installing at site of works and testing to full capacity, solid shaft squirrel cage induction motors, CACA type, F Class insulation, suitable for operation on voltage mentioned below, 3 phase, 50 cycles per second with voltage variation of +/- 10 % and frequency of +/-3%, suitable for direct coupling with pumps under Item no. 1 as per the latest revision of IS 325, IS 4722 and other relevant IS specification to meet the power requirement of pumps with 5% additional capacity over entire operating range suitable for following duties, specification and conforming to detailed specification in vol. II.</p> <p>(a) Operating voltage 0.415 KV</p> <p>(b) Minimum BHP (KW) rating of motor 230 KW</p>		
10	1 No.	<p>Item No 10: FCMA soft starter</p> <p>Providing and installing at site of work and testing of FCMA soft starter suitable for above motor mentioned in item No.8 and conforming to details specification in Vol. II</p>		
11	1 No.	<p>Item No. 10 : Capacitor Cubicle 0.415 KV, 3 Phase, 50 Hz, 60 KVAR</p> <p>Providing, installing at site of works and testing of 0.415 KV, 3 phase, 50 cycles per second capacitor cubicles for the motors mentioned against Item no. 9 above, to improve the power factor to 0.95. The KVAR capacity of the capacitor cubicles should not exceed the magnetizing KVAR of motor. The capacitor shall be conforming to detailed specificatio in vol. II</p>		
12	1 Set.	<p>Item No. 12 : L.T feeder panel 415 Volt,630 amp. For ACB for Motor</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 and conforming to detailed specification in vol. II</p> <p>(a) Electrical System 0.415 KV, 3 Phase, 50 Hz, A.C. with fault level of 50 KA manually operated drawont type</p> <p>(b) Capacity 630 Amps.</p> <p>(c) Panel shall comprise of the following</p> <p>(i) 2 Nos. incoming breakers with following rating Current 630 Amps</p> <p>(ii) 1 no. outgoing breakers with following rating Current 630 Amps</p>		

Sr No	Estimated Quantity	Item of work	Estimated Rate (in figure)	Total Amount
13	1 Set	Item No. 13 : 01 nos. electrical motor starter D.O.L. type reversible push button operated suitable for B.F. valves under Item no. 3 above.		
14	1 Job	Item No. 14 : Preparation of cable schedule and Supply, Installation and Testing of cable as below. Providing, installing at site of work & testing of suitable cables & wires complete as per requirement of pump house as given below & as per detailed specification in Vol. II a) 500 sq.mm X 3 core, 1.1 KV PVC AL armored earthed cable L.T. Panel to L.T. Motor & Motor to Soft starter.- 50 Mtr b) 6 sq.mm x 4 core,1.1KV PVC armoured Insulated AL cable L.T.Panel to BFV actuator.- 50 Mtr		
15	1 Job	Item No. 15: Temperature Scanner Panel Providing, installing at site of work & testing of temperature scanner panel comprising of (Stage-I & Stage-II) 5 nos. microprocessor temperature scanners having 10 points each to monitor H.T. motor winding and bearings temperature, complete as per detailed specification in Vol. II.		
16	1 Set	Item No. 16 : 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 as per detailed specification in Vol. II.		
17	1 Job	Item No. 17 : Testing, Commissioning, Trial operation & Training to Department staff Testing, Commissioning, Trial, operation of the complete equipment and performance tests and training to department staff as per detailed specification		
18	1 Job	Item No. 18 : Sump Model Test Sump Model Test to ensure the vortex free and cavitation free operation of existing 3 Nos. pump of 130 H.P. each and 4th pump of 285 H.P.		

**Executive Engineer
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