

जा. क्र./ ६९४ /यांउंसिविक्र.२/चंद्र/तां.शा.१/कि. दरूर/२०१५	कार्यकारी अभियंता, यांत्रिकी उपसा सिंचन विभाग क्र.२, बल्लारपुर रोड,बाबुपेठ, चंद्रपूर-४४२४०३ यांचे कार्यालय
☎ :- (०७१७२) २२७३८२	
फॅक्स :- (०७१७२) २२७३८२	
ई.मेल :- mlidn2@rediffmail.com	
	दिनांक :- २५/०३/२०१५

प्रती,

मा. अधिक्षक अभियंता (यां.),
यांत्रिकी मंडळ,
नागपूर.

विषय :- किरमिरी दरूर उपसा सिंचन योजना ता. गोंडपिपरी जि. चंद्रपूर
योजनेवर बसविण्यात येणाऱ्या ३४४ अश्वशक्ती, दोन नग अतिरीक्त पंपांचे व संलग्न उपकरणांची
बजेटरी ऑफर क्र. १२ (सन २०१४-२०१५) यांत्रिकी संघटनेच्या संकेत स्थळावर प्रसिद्ध करणेबाबत.

- संदर्भ :-** १) महाराष्ट्र शासन जलसंपदा विभाग, शासन परिपत्रक क्र. दरसुची २३१० (५४/१०) लपार/मंत्रालय मुंबई ३२
दि. ३०/०९/२०१३
२) मा. मुख्य अभियंता, (यां.) जलसंपदा विभाग, नाशिक यांचे पत्र क्र. मुअयां/तां६/किरमीरी उंसियो/अंदाजपत्रक परत
पाठविणे/४८९/२०१५ दि. २३/०२/२०१५.
३) आपले पत्र क्र.यांमनाग/तां२/उंसियो/धा.क्र.२५/किरमीरी दरूर/८८७/२०१५ दि. १२/०३/२०१५.

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महोदय,

उपरोक्त संदर्भिय पत्राच्या अनुषंगाने, विषयांकित योजनेवर बसविण्यात येणाऱ्या ३४४ अश्वशक्ती, दोन नग
अतिरीक्त पंपांचे व संलग्न उपकरणांची या पत्रासोबत पाठविण्यात येत असलेली बजेटरी ऑफर क्र. १२ (सन २०१४-२०१५)
यांत्रिकी संघटनेच्या संकेत स्थळावर (www.mahayamtriki.gov.in) प्रसिद्ध करण्याची कार्यवाही करण्याचे करावे ही विनंती.

कार्यालयाचे नाव व पत्ता	कार्यकारी अभियंता, यांत्रिकी उपसा सिंचन विभाग क्र. २, बल्लारशा रोड, बाबुपेठ, पोलिस चौकीजवळ, चंद्रपूर ४४२ ४०३ ई.मेल :- mlidn2@rediffmail.com
बजेटरी ऑफर प्रसिद्ध करण्याची अंतीम तारीख	दिनांक २७/०३/२०१५
बजेटरी ऑफर पाठविण्याचा कालावधी	जाहीरात प्रसिद्ध झाल्यापासून १५ दिवस

सहपत्र :- बजेटरी ऑफर क्र. १२ (सन २०१४-२०१५)
एक प्रतीत

(ई. म. आत्राम)
कार्यकारी अभियंता,
यांत्रिकी उपसा सिंचन विभाग क्र.२,
चंद्रपूर

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

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Name of Work: Design,Manufacturing,Supply,Errection,Testing and Commissioning of Forced Water Lubricated Verticle Turbine Pump - 2 Nos. with allied equipments at Kirimiri Darur L.I.S
Tah :- Gondpipari , Dist.:- Chandrapur

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
	2	No.	<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, Shaft enclosing tube, 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 685 LPS b) Duty point head 33.13 m c) Maximum rpm synchronous 1000 rpm d) Efficiency 1. Bowl efficiency 90 % 2. Pump efficiency 88 % 3. Overall efficiency 84 % e) Head range 25 m to 37 m f) Lubrication system Forced water g) Discharge type Surface h) No. of stages One Stage i) Column pipe dia. Minimum (ID) 700 mm I) Pump floor level 156.36 m II) Sump Bottom Level 141.05 m j) Column pipe thickness minimum 5 mm k) Line shaft dia. Minimum 60 mm l) Sole plate thickness minimum 100 mm. m) Diameter of shaft enclosing tube (minimum) 140 mm suitable for item (k) above.</p>			
	1	Job	<p>Item No. 1(B) – Forced Water Lubrication and Cooling System</p> <p>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 ii) Booster pumps (As per required)</p>			
	2	No.	<p>Item No. 2 Non Return Valve 600 mm Dia.</p> <p>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 600 mm b) P.N. rating 1.0</p>			

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
	2	No.	<p>Item No. 3 : Butterfly Valve 600 mm Dia.</p> <p>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 600 mm b) P.N. rating 1.0</p>			
	2	No.	<p>Item No. 4 : Rubber Expansion Joint 600 mm Dia.</p> <p>Providing & installing at site of works & testing of rubber expansion joint in delivery pipe line complete suitable for following specification</p> <p>i) Diameter = 600 mm ii) Internal Test Pressure 15.00 Kg./cm² iii) Vaccume Test Pressure in mm of Hg 750 mm</p>			
	2	No.	<p>Item No. 5 : Kinetic Air Valve 150 mm Dia.</p> <p>Providing, installing at site of works and testing kinetic air valves with isolating sluice valve For releasing air from the delivery pipes, etc. complete as per detailed specification.</p> <p>i) Diameter 150 mm , ii) P.N 1.6</p>			
	50	Mtr.	<p>Item No. 6 : Delivery pipelines 600 mm Dia.</p> <p>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 and conforming to detailed specification.</p> <p>(a) Diameter (NB) 600 mm (b) Wall Thickness 8 mm</p>			
	2	No.	<p>Item No.7: L.T. Induction Motors .415 KV 280 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, CACW 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(A) as per the latest revision of IS 325, IS 4722 and other relevant IS specification to meet the power requirement of pumps with 10% additional capacity over entire operating range suitable for following duties, specification and conforming to detailed specification under Item no. 7 of detailed itemwise specification under vol. II.</p> <p>(a) Operating voltage 0.415 KV (b) Minimum BHP (KW) rating of motor 280 KW</p>			

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
	2	No.	<p>Item No 8: 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.7 and conforming to details specification under item No. 8 of Vol. II</p>			
	1	No.	<p>Item No. 9 : Capacitor Cubicle 0.415 KV, 3 Phase, 50 Hz, 150 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. 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. 9 of detailed itemwise specification under vol. II</p>			
	1	Set	<p>Item No. 10 : L.T. Incomer cum distribution Panel 415 V, 3 Phase, 1600 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 0.415 KV, 3 Phase, 50 Hz, A.C. with fault level of 50KA, Air circuit breaker manually operated drawout type (Ics=Icu=Icw for 1s)</p> <p>(b) Capacity 1600 Amps.</p> <p>(c) Panel shall comprise of the following</p> <p>(i) 2 Nos. incoming breakers with following rating Current 1600 Amps</p> <p>(ii) 1 No. Bus coupler breaker with following rating Current 1600 Amps</p> <p>(iii) 3 nos. outgoing breakers with following rating</p> <p>(1) Breakers for outgoing feeders for motors 2+1 with the following ratings. Current 1600 Amps</p>			
	1	Set	<p>Item No. 11 : Temperature Scanner Panel</p> <p>Providing, installing at site of work & testing of temperature scanner panel comprising of 3 nos. microprocessor temperature scanners having 12 points each to monitor H.T. motor winding and bearings temperature, complete as per detailed specification under Item No. 11 of Vol. II.</p>			

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Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
			<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 as per detailed specification under Item no. 12 of Vol. II</p>			
	350	Mtr.	a) 240 sq.mm X 3.5 core, 1.1 KV X.L. P.E. AL armoured earthed cable L.T. Incomer.(2 run and single run for neutral) to Motor and 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.	<p>Control Cable</p> <p>c) 1.5 sq.mm X 30 core, 1.1 KV PVC Insulated copper conductor cable from Motor to Temperature Scanner Panel.</p>			
	100	Mtr.	d) 4 sq.mm X 3 core, 1.1 PVC Insulated copper conductor cable From Space heater to LT Panel.			
	1	LS	<p>Item No. 13 : Earthing.</p> <p>Providing, installing at site of work earthing comprising of adequate no. of earth stions, earth bard and individual double earthing to all electrical equipment as per detailed specification under Item no. 13 Vol. II.</p>			
	1	Lot	<p>Item No. 14 : Spares & tools.</p> <p>Providing at site of works tools and spares complete as per detailed specification under Item No. 14 as bellow.</p> <p>a. Line Shaft of Standard length 2 Nos. b. Line Shaft Bearing 10 Nos. c. Bottom side line shaft 1 Nos. d. Top side line shaft 1 Nos. e. Radial Ball bearing 2 Nos. f. Sph. Roller Thrust Bearing 2 Nos. g. Guide Spider 4 Nos. h. Oil Indicator 1 Nos. i. Muff Coupling 3 Nos. j. Coupler cap 5 Nos. k. Connector Bearing 5 Nos.</p>			
	1	Job	<p>Item No. 15 : Testing, Commissioning, Trial operation & Training to Department staff.</p> <p>Testing, Commissioning, Trial operation of the complete equipment and performance tests and training to department staff as per detailed specification under Item no. 15 of Vol. II</p>			
	1	Job	<p>Item No. 16 : Sump Model Test.</p> <p>Sump Model Test to ensure the vortex free and cavitation free operation of existing 2 Nos. pump of 130 H.P. each and 2 Nos pump of 344 H.P.</p>			

Sr. No.	Qty	Unit	Description of Item	Rate	Amount	Remarks
	1	No.	<p>Item No. 17 : Dismantling of existing 130 HP VT Pump with allied equipments.</p> <p>Dismantalling of existing 130 HP VT Pump at site of works 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.</p>			

Executive Engineer,
Mechanical Lift Irrigation Dn. No.2,
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