

Budgetary Offers (2nd Call)
(Estimate Purpose)

Budgetary Offer Notice No. 4 (2nd Call) /2018-19 For Wakurde Lift Irrigation Scheme, part-I, Stage-III

Sealed budgetary offers are invited by under signed from reputed original Pump Manufacturers for Design, Manufacture, Supply, Erection, Testing & Commissioning of 02 nos. vertically mounted submerged centrifugal pumps with motor, multi vane enclosed type, complete with strainer, impeller assembly, and allied Electro-Mechanical equipment's **Wakurde Lift Irrigation Scheme, part-I, Stage-III** Taluka: shirala, Dist: Sangli. Sealed budgetary offers should reach at the office of The Executive Engineer, Mechanical Division, Sinchan Bhavan, Kolhapur. Pin Code no 416003 on or before 26/12/2018 at 17.00 Hrs.

The offer shall consist of BASIC Rate Only and all taxes, GST, Duties and transportation etc. shall be mentioned separately. The details of items are also available on Government website <https://mahayantriki.org>

Schedule

Sr. No.	Description	Qty	Unit	Rate per	Total Amount
1	<u>Item No.1- Submerged Centrifugal Pump- 160 HP x 2 Nos</u> Design,Manufacturing,Supply,erection,testing & commissioning at site of works and giving test to full capacity, of vertically mounted submerged centrifugal pumps with motor, multi vane enclosed type, complete with strainer, impeller assembly, base frame Foundation,90 degree bend (pump discharge side),etc suitable for following duties, specifications and conforming to detailed specifications as under :- Suitable for following duties: a) Duty point discharge per pump = 0.61 M3/sec. b) Duty point head = 17.10 Mtr. c) Maximum rpm synchronous = 1000 d) No. of stages = 1 stages e) Max. No of pumps working in parallel = 2 f) Motor Capacity (including 20% power margin) = 150 KW g) Voltage rating = 0.415 KV	2	Nos.		
2	<u>Item No.2:- Non Return Valves:</u> Providing & Supplying, erection, testing & commissioning of cast iron, non-slam, double flanged type NRV with bypass arrangements complete suitable for following duties as per IS- 5312 part 2 A] Diameter - 700 mm B] P.N. Rating - 1.6	2	Nos		
3	<u>Item No.3 :-Electrically Operated Butterfly Valves :</u> Providing & Supplying, erection, testing & commissioning of double flanged butterfly valves conforming to relevant IS/BS 5155 with electric actuators with 0.415 kv A.C. motors D.O.L. starting etc. complete Suitable for following duties and Specification. A] Diameter - 700 mm B] P.N. Rating - 1.6	2	Nos		
4	<u>Item No.4:- Kinetic Air Valve:</u> Providing & Supplying, erection, testing & commissioning of Kinetic Air Valves (with isolating sluice valve) of 150 mm dia.,PN rating of 1.6 for above as per AWWA- C512-92..	2	Nos.		
5	<u>Item No.5- Delivery pipe Line:</u> Providing & jointing at site of work, testing & commissioning of M.S delivery pipe lines including jointing of all in between valves and up to rising main / manifold complete, suitable for following specifications as per IS- 3589/5822.	50	Mtr.		
6	<u>Item No.6: Dismantle Joint</u> Providing & installing at site of work ,testing& commissioning of M.S. Dismantling joints in pump delivery pipe line suitable for 16 kg/cm2 working pressure, complete, suitable for following Specifications. a. Diameter - 700 mm b. Wall thickness - 8 mm (min) c. PN Rating - 1.6	2	Nos.		

Sr. No.	Description	Qty	Unit	Rate per	Total Amount
7	<p><u>Item No.7:- Capacitor Cubicles.</u> Design,Manufacturing,Supply,erection,testing & commissioning at site of works of 0.415 kV, 3 phase, 50 Hz. Capacitor Cubicles with H.R.C. fuses for the vertically mounted submerged centrifugal pumps with motor, mentioned against item No.1 above, to improve, the power factor to 0.95. The KVAR capacity of the capacitor should not exceed the magnetizing KVAR of motor. The capacitors shall be conforming to detailed Specifications as under. a) Operating Voltage :- 0.415 KV , 3 phase b) Rating of Capacitor:- Suitable KVAR. to improve power factor to 0.95.</p>	2	Nos.		
8	<p><u>Item No.8:- Soft Starter.</u> Design, Manufacturing, Supply, erection, testing & commissioning at site of works of FCMA Soft Starters suitable for above for the vertically mounted submerged centrifugal pumps with motor, mentioned against item No.1 above, and as per detailed specifications. As under:- 0.415 kv suitable for 150 kw motor.</p>	2	Nos		
9	<p><u>Item No.9:- L.T. Control Panel :</u> Design, Manufacturing, Supply, erection, testing & commissioning at site of works of 415 volts, 3Ph. 50 Hz. suitable for above for the vertically mounted submerged centrifugal pumps with motor, mentioned against item No.1 and also complete as required for the above allied electromechanical equipment's.</p>	1	Job		
10	<p><u>Item No.10:- Batteries, Battery charger and D.C. Distribution Boards. (D.C.D.B.):</u> Design, Manufacturing, Supply, erection, testing & commissioning at site of works suitable for above control protection panel mentioned against item No. 9</p>	1	Job		
11	<p><u>Item No.11:- Preparation of cable schedule and Supply, Installation and testing of LT Cables :</u> A) Design, Supply, erection, testing & commissioning at site of works of LT Cables with Preparation & Supply of cable schedule. B) Providing & Erecting cable trays and cable racks for control cables and power cables as per specifications as under. i) Cable Trays/Racks & Cable Support(As per actual) ii) Civil Works as per required. Note-Design,Manufacturing,Supply,erection,testing& commissioning of suitable cables & wires complete as required for the above pumping machinery. And also complete as required for the above allied electromechanical equipment's.</p>	1	Job		
12	<p><u>Item No.12:- Earthing To Equipment</u> Providing, installing at site of works earthing comprising of adequate no. of earth stations. earth bars and individual double earthing to all electrical equipment .</p>	1	Job		
13	<p><u>Item No.13:- Water Level indicators.</u> Providing installing at site of works and testing water level indicators, operating on 230 Volts 50 cycles / second AC. Supply.</p>	2	Nos.		
14	<p><u>Item No.14:- Temperature Scanner Panels :</u> Design,Manufacturing,Supply,erection,testing & commissioning of temperature scanner panels comprising of 5 Nos. microprocessor temperature scanners (one each stand by)having 12 point each to monitor L. T. Motor windings and bearing temperature complete as per detailed specifications i) Temperature Range = 0°C to 100° C ii) Display Details = 6 digit parameter (4 digit function, 2 digit channel)</p>	1	Job		
15	<p><u>Item No.15:- Testing, Commissioning, Trials and Operation</u> Operations,Maintenance and repairs with watch and ward of the all electromechanical equipments after PG test during warranty period for 2 years or</p>	1	Job		

Sr. No.	Description	Qty	Unit	Rate per	Total Amount
	2000 hrs whichever is later for Wakurdal LIS Stage III				
16	Item No.16:- Spares and Tools, Manufacturer will supply one spare pump with motor in all respect ready to install and standard tools for pump set. Without erection charges.	1	Set		
17	Item No.17:- Single Girder EOT Crane Design,Manufacturing,Supply,erection,testing & commissioning of single girder EOT with 6 ton & 10m lift complete with wire rope hoist,class II duty,all three motions EOT by suitable rating motor IP 54,control panel & down pendant control block span above 6m to 8m.	1	Job		

Pump house Parameters:

Sr. No.	Particulars	Specificatios
1	2	3
1	Type of Pump	Submerged Centrifugal Pump
2	No. of Pumps	2 Nos.
3	H.P.of Pump	160 HP
4	Discharge of each Pump	0.61m ³ /sec
5	Total Discharge	1.22 m ³ /sec
6	No. of Stages of Pump	single
7	r.p.m. of Pump	1000
8	Dia. Of Rising Main	900 mm
9	Duty Head at POL	17.100 m
10	Static Head at POL	14.620 m
11	Levels (in mtrs.)	
a	Sump bottom	660.000 m
b	M.D.D.L.	665.500 m
c	F.R.L	667.700 m
13	Delivery pipe diameter	700 mm
14	Type of electric motor	3 ph. 50 Hz. 150 KW
15	Total K.W of motor	300 KW
16	Supply Voltage	0.415 KV

NOTE- If Any queries or any other additional information regarding above plc. Contact below on address or Tel. no

No. MDK/PB-1/ /2018
Office of the Executive Engineer
Mechanical Division, Sinchan Bhavan,
Tarabai Park, kolhapur. 416003.
Date: / /2018

(G. B. Bhagat)
Executive Engineer
Mechanical Division, kolhapur.

Tel No. 0231-2651284

Copy Submitted with complements to The Superintending Engineer Mechanical Circle, Kolhapur. for Information please.
2/- Please upload this budgetary notice on Mahayantriki website.
Copy Deputy Engineer, Regional workshop Subdivision No.1 for information.
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