

**Government of Maharashtra
Water Resources Department**

Office Of the Executive Engineer, Mechanical Lift Irrigation Division No.2, Babupeth, Chandrapur,- 442403

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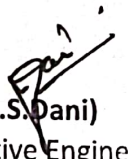
Budgetary Offer No. 1/2025 - 26

Budgetary offer in sealed envelope (Excluding of GST) are invited for estimation purpose for following mentioned work by the Executive Engineer, Mechanical Lift Irrigation Division No.2, Babupeth, Chandrapur-442403 as per the guidelines mentioned in Government Circular No.Darsuchi 2310/(54/10) Lapa-2/mantralaya, Mumbai-400032 Dt.03.06.2010. For further details interested parties shall visit website <http://wrd.maharashtra.gov.in>

Sr.No.	Name of Work	Name of Office	Opening Schedule
1	Design, manufacturing, supply, erection, testing & commissioning of 03 Nos. Submerged centrifugal Pump - Vertically Mounted with motor for Reguntha Lift Irrigation scheme, Dist-. Gadchiroli.	Executive Engineer, Mechanical Lift Irrigation Division No.2, Babupeth, Chandrapur,- 442403	Publishing Date - 07 /07 /2025
			Closing Date - 15 /07/2025
			Opening Date - 16 /07/2025

Terms & Conditions :-

- 1 Budgetary Offer has been invited for estimation purpose only.
- 2 Budgetary Offer rates should be exclusive of GST & valid for one year.
- 3 Budgetary Offer rates should be inclusive of transportation & damage charges.
- 4 Regunta Lift Irrigation Scheme is Located at Sironcha taluka, Dist. Gadchiroli which is 200 Km away from Gadchiroli.


(S.S. Dani)
Executive Engineer
Mech.Lift Irr.Division No.2
Chandrapur

SPECIFICATION FOR BUDGETORY OFFER

Budgetory Offer No. - 1/2025 - 26

Name of work :- Design, manufacturing, supply, erection, testing & commissioning of 03 Nos. Submerged centrifugal Pump - Vertically Mounted with motor for Reguntha Lift Irrigation scheme, Dist-. Gadchiroli.

Date of opening of Budgetory Offer -					
Sr. No.	Description of Item	Estimated Qty	Unit	Rate (Rs)	Amount (Rs)
1	2	3	4	5	6
1	Item No.1 – Submerged centrifugal Pump- Vertically Mounted with motor				
	Providing, installing at site of works and giving test to full Capacity, Submerged centrifugal Pump- vertically Mounted with motor . Motor housing shall be confirming to IP- 68self frame Surface Water cooled (TESWC). Pump shall be suitable for 3 % floating sand. Pump casing & cover shall be of material grade FG260 or GS25 or EN-JL1040. Pump impeller shall be stainless steel CF8M, SS430- Shaft & Hardware shall be in SS 316. solid shaft squirrel cage induction motors, frequency of +/-3%, suitable with pumps as per the latest revision of IS 325, IS IEC 60034 Motor winding with class H insulation with temp. rise limited to class F. The motor works on 6.6 KV ± 10 %, 3 Phase, 50Hz, AC, Duty S1, supply with cable guard, thrust bearing, 2 RTD's for top & bottom bearing, 3 RTD's for Motor winding, water leak senors etc. The Pump set shall be suitable for direct coupling with suction strainer & discharge outlet as per manufacturer's design. The Pump shall be started on FCMA starter. Appropriate control system, protection& interlock should be provided for over temp, water leak, over load, low water level with fault annuciation & trip alarm and Pump monitoring unit. The pump shall be supplied with appropriate spares / accessories as per manufacturer's recommendations etc. complete for following duties, Specification and conforming to the detailed specification as per D.T.P.The Pump shall be supplied with autocoupling & Guide rail arrangement. The tolerances for rate of flow, total head and efficiency are as per 3B-ISO 9906-1999 to HI 14.6-2011/ISO 9906-2012	3	Nos		
	a) Duty point discharge 0.453 m3/s				
	b) Duty point head 44.03 m				
	c) Maximum rpm synchronous 1000				
	d) Pump efficiency 79 % (minimum)				
	e) Head range 33.02 to 48.43 m				
	f) Application Raw water				
	g) Discharge type Surface				
	h) No. of maximum stages Max. One Stage Only				
	i) Submersible Motor cable Suitable length from motor to Breaker shall be provided				
	j) Lifting chain 40 m				
	k) Maximum no. of pumps working in parallel Up to 3 Nos.				
	l) Supply Voltage 6600 V				
	m) Pump HP 340 HP				
	n) Motor kW 300 KW				
2	Item No.2 : Water Level Indicator.				
	Providing, installing at site of works & testing of water level indicator,operating on 230 volts,50C/s,AC supply conforming to the detailed specification	1	No		
3	Item No.3 – Essential spares & tools				
	Providing essential spares & tools at site of work as per detailed specification provided.	1	Set		



Sr. No.	Description of Item	Estimated Qty	Unit	Rate (Rs)	Amount (Rs)
4	Item No.4– Sump model test of Pump House	1	Job		
	Sump model test to ensure the vortex free and caviatation free operation of 3 no. submersible type centrifugal pumps of 340 HP each.				
5	Item No. 5 – Testing, commissioning, trial, operation and training to Departmental Staff with P.G. test.	1	Job		
6	Item No. 6 – FCMA soft Starter	3	Nos		
	Providing and Installing at site of work and testing of FCMA soft starter suitable for above motor 300KW/408HP and conforming to the detailed specification.				
7	Item No.7 –Capacitor Cubical 6.6 KV,3 Phase,50 Hz,150 KVAR	3	Nos		
	Providing,instaling at site of works and testing of 6.6 KV,3 phase,50 Hz. 150 KVAR capacitor cubicle for the motors mentiond against item no.7 above to improve the power factor to 0.95. The KVAR capacity of the capacitor cubicles should not exceed the magnetising KVAR of motor.				
8	Item No. 8 : H.T. Pannel 6.6 KV,3 Phase, 630A	1	Set		
	Providing,Installing at site of work & testing of sheet steel,dust and vermin proof,indoor floor mounting type H.T. pannel,complatly assembled wire tested,pained,confirming to relevent IS, complate suitable for following duties,specification.				
	(a) Electrical system 6.6 KV,3 Phase,50 Hz,A.C. with fault level of 25 KA				
	(b) Panel shall comprise of the following				
	(i) 2 Nos. incoming breakers & 1No. Bus coupler breaker with following rating				
	current 630 Amps				
	Minimum rupturing capacity 250 MVA				
	(ii) Breakers for out going feeders for motors (3+1) with the following ratings.				
	current - 630 Amps				
	Minimum rupturing capacity - 250 MVA				
9	Item No.9 : L.T. Distribution panel 415 V, 3 Phase, 630 Amps.	1	Set		
	Providing installing at site of work and testing of 415 volts,3 phase,50 c/s 630 amps.L.T. distribution panels comprising of following as per detailed specification				
	(i) 415 volt,630 amps.A.C.B.for auxiliary transformer incoming feeder 1 No.				
	(ii) 415 volt,100 amps. H.R.C switch fuses unit 2 Nos.				
	(iii) 415 volt,63 amps. H.R.C switch fuses unit 2 Nos.				
	(iv) 415 volt,32 amps. H.R.C switch fuses unit 3 Nos.				
	(v) 415 volt,16 amps. H.R.C switch fuses unit 4 Nos.				
10	Item No.10 –Batteries,Battery Charger & D.C.D.B.	1	Set		
	providing installing at site of work and testing Batteries,Battery charger & D.C.D.B. complate unit conforming to the detailed specification				
	i) Batteries - V.R.L - Valve Regulated lead acid dry type battery (2x55 cell 110 volts D.C 200 Ah hour Capacity along with all accessories.				
	ii) Battery charger 110 volts,30 Amp. For above Batteries comprising of flot charger Cum boost charger-02 No.complate with protective relay,etc.				
	iii) D.C.D.B comprising of two incoming double poleminiature circuit breaker (MCB) 80 amps,2 nos., 10 amps.,10 nos. outgoing feeder with MCB or switch fuse unit,complate will all accessories.,etc				

Sr. No.	Description of Item	Estimated Qty	Unit	Rate (Rs)	Amount (Rs)
	Item No.11 : Preparation of cable schedule & supply, instalation & testing of cable as below. (including cable tray)				
	Providing,installing at site of work & testing of suitable cables & wires complete as per requirement of pump house as given below conforming to the detailed specification as per D.T.P.				
	a) 50 sq.mm X 3 core, 6.6 KV X.L. P.E. AL armored earthed cable H.T. Panel to Motor,soft starter and Capacitor.	100	mtr		
	b) 10 sq.mm X 3.5 core,1.1 KV armoured PVC insulated / L cable , L.T.Panel to Battery charger.	50	mtr		
	Control Cable				
	d) 2R X 20C X 1.5 sqmm 1.1 PVC Insulated copper conductor cable	50	mtr		
	d) 4 sq.mm X 3 core, 1.1 PVC Insulated copper conductor cable	100	mtr		
11	e)1.5 sq.mm X 4 core, 1.1 KV PVC Insulated copper conductor cable	100	mtr		
	f) 2.5 sq.mm X 7 core, 1.1 KV PVC Insulated copper conductor cable	100	mtr		
	g) 1.5 sq.mm X 27 core, 1.1 KV PVC Insulated copper conductor cable (if required)	300	mtr		
	h) Supplying and erecting under floor junction box of size 300mm x300mm x55 mm.with flush finish powder coated appearance having knock outs for UPVC duct entry of size 60x25 mm and 95x35 mm ducts complete as per specification no. WG-MA/UFB .(If required)	3	Nos		
	i) 2Rx(15Cx1.5mm) + 2Rx(12Cx1.5mm)+ 1Rx(3x35+3x25/3)cable from pump to HT panel	100	mtr		
12	Item No.12 : Earthing				
	Providing, installing at site of works earthing comprising of adequate no. of earth station,earth bars & individual double earthing to all electrical equipment conforming to the detailed specification	1	LS		
	GI earth strip				
13	Item No.13 :Temperature Scanner Panel and Remote Control Panel				
	(i)Providing, installing at site of work & testing of temperature scanner panel comprising of 3+1 nos. microprocessor temperature scanners having 10 points each to monitor H.T. motor winding and bearings temperature, complete detailed specification				
	(ii)Providing,installing at site of work & testing of sheet steel floor mounted vermin proof and powder coated and tropicalized remot control panels with control awitches,ammeter,annunciation facia windows,indication lamps etc suitable for following items and conforming to the detailed specification	1	Set		
	a) incoming breaker/Bus coupler 2+1Nos.				
	b) pump motor breaker 3+1 Nos.				
	c) Auxiliary transformer breakers 1 No.				
	e)Butterfly valves 3 Nos.				
	f) Water level indicators 1Nos.				
	h)Capacitors 3 Nos.				
	i) Soft Starter 3 Nos.				

Note- 1) Regunta LIS is Located at Sironcha taluka, Dist. Gadchiroli which is 200 Km away from Gadchiroli City .

2) Rate quoted Should be Excluding of GST

(S.S. Pani)

Executive Engineer

Mechanical Lift Irrigation Division No.2

Chandrapur

