

**GOVERNMENT OF MAHARASHTRA  
WATER RESOURCES DEPARTMENT**

**Office of Executive Engineer, Lift Irrigation Mechanical Division No.1, Infront of ST  
workshop, Nagpur Road, Bhandara-441 904  
Tah.-Bhandara, Dist-Bhandara. Phone No.- 07184-252166 E-mail- lismech1@gmail.com  
Offer No.01/ 2025-26**


Budgetory offer in sealed envelope (excluding GST) are invited for estimation purpose for following mentioned work from O.E.M. (original equipments manufacturer) by the **Executive Engineer, Lift Irrigation Mechanical Division No.1, Nagpur Road, Bhandara-441 904** as per guidlines mentioned in Government circular No.Darsuchi 2310/(54/10) Lapa-2/mantralaya, Mumbai-400032 Date 03.06.2010. For further details interested parties shall visit wesite [http ://wrd.maharashtra.gov.in](http://wrd.maharashtra.gov.in).

<b>Sr. No.</b>	<b>Name of Work</b>	<b>Name of Office</b>	<b>Budgetory opening schedule</b>
1	2	3	4
1.	Removing and Dismantling Existing pumping Machinery and Allied Equipments and Replacing by Design, manufacturing, supplying, erection, testing & commissioning with quality assurance plan at each stage of 04 Nos of force water lubricated type vertical turbine pump with allied equipments at Dhapewada Lift Irrigation Scheme Stage-1, Tah.- Tirora, Dist. - Gondia.	<b>Executive Engineer, Lift Irrigation Mechanical Division No.1, Nagpur Road, Bhandara</b>	<b>Publising Date 09.06.2025 Closing Date 24.06.2025 Opening Date 25.06.2025</b>

**Terms & Conditions :-**

Intrested vendors are requested to submit the budgetary offer for above mentioned works duly stamped and signed by competent authority. The above Budgetory offer should reach this office on or before date 24/06/2025. The offer should be send with the following details.rate must be excluding of GST and naxal allowance

**Please Note:-Budgetary offer is invited only for the estimation purpose. It does not give any assurance regarding floating of tender of otherwise**

  
**(V.M.Wadhai)  
Executive Engineer  
Lift Irrigation Mechanical  
Division No.1, Bhandara**

**RATE PROFORMA**

**GOVERNMENT OF MAHARASHTRA**

**WATER RESOURCES DEPARTMENT**

**Budgetary Offer No. 01 of 2025-26**

**Issue Date - 09/06/2025, Closing Date - 24/06/2025, Opening date - 25/06/2025**

**Executive Engineer, Lift Irrigation Mechanical Division No.1, Bhandara**

**Sealed rates (excluding GST) are invited from contractor by the Executive Engineer, Lift Irrigation Mechanical Division No.1, Bhandara. (Phone No.07184 – 252166) for the purpose of estimation of the following works.**

**Name of work - Removing and Dismantling Existing pumping Machinery and Allied Equipments and Replacing by Design, manufacturing, supplying, erection, testing & commissioning with quality assurance plan at each stage of 04 Nos of force water lubricated type vertical turbine pump with allied equipments at Dhapewada Lift Irrigation Scheme Stage-1, Tah.- Tirora, Dist. - Gondia.**

Est Qty may be more or less	Unit	Description of work	Rate per Unit	Amount
4	Nos	<b>Item No. 1– Vertical Turbine Pumps.</b>		
		Providing, installing at site of works and giving test to full Capacity, vertical turbine pumps non-pull out type, complete with strainer, suction bowl, column assembly, Discharge head, Motor stools. Flexible coupling, sole Plates, base frame foundation, non reversible rotation Ratchet arrangement, etc. suitable for following duties,		
		a) Duty point discharge -	1 m <sup>3</sup> /s	
		b) Duty point head -	40 m	
		c) Maximum rpm synchronous -	750	
		d) Efficiency :-		
		1. Bowl efficiency -	89 %	
		2. Pump efficiency -	88 %	
		3. Overall efficiency -	84 %	
		e) Head range -	30 to 44 m	
		f) Lubrication system -	Forced water	
		g) Discharge type -	Sub Surface	
		h) No. of maximum stages -	1 Stage	
		i) Column pipe dia Minimum (I.D.) -	800 mm	
		j) Column pipe thickness minimum -	10 mm	
		k) Line shaft dia. Minimum -	80 mm	
		l) Maximum no of pump working in parallel -	Upto 2 Nos.	
m) Sole plate thickness minimum -	80 mm			
n) Suspended length of column pipe assembly -	20 m.			
p) Diameter of shaft enclosing tube (minimum) -	200 mm.			
		[suitable for item No. (k) above].		
4	Nos	<b>Item No. 2 - Non Return Valve 800 mm Dia.</b>		
		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 relevant IS65312, IS5312-II		
		a) Diameter -	800 mm	
		b) P.N. rating -	1.6	
		c) Working pressure -	4 Kg/cm <sup>2</sup>	
		d) Differential working pressure -	4 Kg/cm <sup>2</sup>	
		e) Maximum working pressure -	10 Kg/cm <sup>2</sup>	
f) Maximum rate of flow in LPS -	1300			
4	Nos	<b>Item No. 3 - Butterfly Valve 800 mm Dia.</b>		
		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. startér etc. complete, suitable for following duties, specifications		
		a) Diameter -	800 mm	
		b) P.N. rating -	1.6	
		c) Working pressure -	4 Kg/cm <sup>2</sup>	
		d) Differential working pressure -	4 Kg/cm <sup>2</sup>	
		e) Maximum working pressure -	10 Kg/cm <sup>2</sup>	
f) Maximum rate of flow in LPS -	1300			

4	Nos	<p><b>Item No. 4 - Kinetic Air Valve 150 mm Dia.</b>  Providing, installing at site of works and testing kinetic air valves of 150 mm dia. PN-1.0 rating for releasing air from the delivery pipes, etc. complete as per detailed specification, Item no. 4 of Volume II.</p>		
80	Mtr	<p><b>Item No. 5 - Delivery Pipe.</b>  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 relevant IS  (a) Diameter - 800 mm  (b) Wall thickness - 10 mm  (c) Hydraulic test pressure - 15 kg/cm<sup>2</sup></p>		
4	Nos	<p><b>Item No. 6 - Rubber Expansion Joint.</b>  Providing, installing at site of works and testing of Rubber Expansion Joint in pump delivery pipe line complete, suitable for following duties, specification and conforming to relevant IS  (a) Diameter - 800 mm  (b) Internal test pressure - 15 kg/cm<sup>2</sup>  (c) Vacuum test pressure (mm of Hg) - 700</p>		
4	Nos	<p><b>Item No. 7 - H.T. Induction Motors 6.6 KV, 491 KW, 3 Phase, 750 rpm, 50 Hz</b>  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 +/- 6% 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 5% additional capacity over entire operating range suitable for following duties, specification  (a) Operating voltage 6.6 KV  (b) Minimum BHP (KW) rating of motor 550 KW</p>		
1	Set	<p><b>Item No. 8 - Automatic Power Factor Control Panel- 6.6 KV, 3 Phase, 50 Hz,</b>  Providing, installing at site of works and testing of 6.6 KV, 3 phase, 50 cycles per second Automatic Power Factor Control Panel for the motors mentioned against Item no. 7 above, to improve the power factor to 0.98. The KVAR capacity of the Automatic Power Factor Control Panel should not exceed the magnetizing KVAR of motor.</p>		
1	Set	<p><b>Item No. 9 - H.T. Panel 6.6 KV, 3 Phase, 800 Amps</b>  Providing, installing at site of works and testing of sheet steel, dust and vermin proof, indoor floor mounting type H.T. Panel, completely assembled, wired tested, painted, conforming to relevant ISS, complete suitable for following duties, specification and conforming to detailed specification under Item No.10 of detailed itemwise specification under vol. II  (a) Electrical System 6.6 KV, 3 Phase, 50 Hz, A.C. with fault level of 25KA  (b) Capacity 800 Amps.  (c) Panel shall comprise of the following  (i) 2 Nos. incoming breakers with following rating.  Current 630 Amps.  Minimum rupturing capacity 250 MVA  (ii) 1 No. Bus coupler breaker with following rating  Current 630 Amps.  Minimum rupturing capacity 250 MVA  (iii) 6 nos. outgoing breakers with following rating  Current 400 Amps.  Minimum rupturing capacity 250 MVA  (iv) Breakers for outgoing feeders for motors  4+1 with the following ratings.  Current 400 Amps.  Minimum rupturing capacity 250 MVA  (v) Breakers for outgoing feeders for connecting the Capacitor Panel  1 no with the following ratings.  Current 400 Amps.  Minimum rupturing capacity 250 MVA</p>		

1	Set	<b>Item No. 10 - L.T. distribution Panel 415 V, 3 Phase, 630 Amps.</b>		
		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		
		(i) 415 Volt, 500 amps. A.C.B. for aux.transformer incoming feeder 2 no.		
		(ii) 415 Volt, 63 amps. H.R.C. switch fuses unit 5 nos.		
		(iii) 415 Volt, 32 amps. T.P.N. switch fuses unit 5 nos.		
		(iv) 415 Volt, 16 amps. T.P.N. switch fuses unit 6 nos.		
		(v) 6 nos Electric motor starters D.O.I. Type reversible push button operated suitable fo BFV under item no.3 Automatic star-delta Starter for booster pumps-02 Nos.		
1	Set	<b>Item No. 11 - Battery charger &amp; D.C.D.B.</b>		
		Providing, installing at site of work & testing battery chargers & D.C.D.B. complete unit comprising of following (i) Battery charger 110 volts, 30 Amp. For above batteries comprising of float charger cum boost charger-02 No. complete with protective relays, etc. (ii) D.C.D.B. comprising of two incoming double poleminiature circuit breakers (MCB) 50 Amps. -2 Nos., 10Amps 10 - nos. outgoing feeder with MCB or switch fuse unit, complete will all accessories, etc		
1	Nos.	<b>Item No. 12 Temperature Scanner Panel</b>		
		Providing, installing at site of work & testing of temperature scanner panel comprising of 4+1 Nos. microprocessor temperature scanners having 12 points each to monitor H.T. motor winding and bearings temperature		
		<b>Item No. 13 - Preparation of cable schedule and Supply, Installation and Testing of cable as below.</b>		
		Providing, installing at site of work & testing of suitable cables & wires complete as per requirement of pump house as given below		
600	Mtr.	a) 120 sq.mm X 3 core, 6.6 KV X.L.P.E. AL armoured earthed cable H.T. Panel to H.T. Motor and Capacitor, Motor to Soft Starter.H.T. Panel to Aux. Transformer		
150	Mtr.	b) 25 sq.mm X 3.5 core, 1.1 KV armoured PVC insulated AL cable LT Panel to B.F. Actuator motor.		
500	Mtr.	c) 70 sq.mm X 3.5 core, 1.1 KV armoured PVC insulated AL cable LT Panel to EOT Crane.booster pumps		
200	Mtr.	d) 6sq.mm X 3.5 core, 1.1 KV armoured PVC insulated AL cable LT Panel to Lighting		
		<b>Control Cable</b>		
200	Mtr	f) 4 sq.mm X 3 core, 1.1 KV PVC Insulated copper conductor cable		
1000	Mtr	e)1.5 sq.mm X 4 core, 1.1 KV PVC Insulated copper conductor cable		
1200	Mtr	f) 2.5 sq.mm X 7 core, 1.1 KV PVC Insulated copper conductor cable		
700	Mtr	g) 1.5 sq.mm X 27 core, 1.1 KV PVC Insulated copper conductor cable		
1	Set	<b>Item No. 14 - Water Level Indicator</b>		
		Providing, installing at site of work & testing of water level indicator, operating on 230 volts, 50 C/s.AC supply		
1	Nos.	<b>Item No. 15 Remote Control Panel</b>		
		Providing, Installing at site of work & testing of sheet steel floor mounted vermin proof and powder coated and tropicailized remote control panels with control switches, ammeter, annunciation facia windows, indication lamps etc, for control & monitoring of breakers, pump/motor ancillary equipment/panels, etc. suitable for following items		
		(a) Incoming breakers/Bus coupler-3 nos.		
		(b) Pump motor breakers 4+1 nos.		
		(c) Auxiliary Transformer breakers 4 nos.		
		(d) Booster pumps 2 nos.		
		(e) Butterfly valves 4 nos.		
		(f) Water level indicators 2 nos.		
		(g) Capacitors 4 nos.		
		(h) Cooling system 4 nos.		
(i) Soft Starter 4 nos.				

1	Lot	<b>Item No. 16 - Spares &amp; Tools.</b>		
		Providing at site of works tools and spares		
1	Job	<b>Item No. 17 - Testing, Commissioning, Trials &amp; operations for one year after performance guarantee test.</b>		
		Testing, commissioning, trial operation of the complete equipment and performance tests and training to department staff		
4	Nos.	<b>Item No 18: FCMA soft starter</b>		
		Providing and installing at site of work and testing of FCMA soft starter suitable for above motor mentioned in item No.7		
4	Nos.	<b>Item No 19: Removing and Dismantling Existing pumping Machinery and Allied Equipments</b>		
		Removing and Dismantling Existing HT Motar, V.T. Pumps, NRV,BFV,REJ,KAV, HT Panal, L.T Panal and other equipments		



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**Lift Irrigation Mechanical Division**  
**No.1 Bhandara**