



सत्यमेव जयते

**Government of Maharashtra
Water Resources Department**

Budgetary Offer No. 01 / 2025-2026

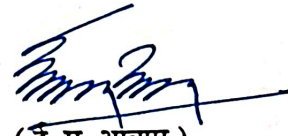
शासन परिपत्रक क्र. दरसूची २३१०/ (५४/१०) लपा-२/मंत्रालय मुंबई - ४०००३२, दि.०३.०६.२०१० यातील तरतुदीनुसार, जलसंपदा विभागाच्या दरसूचीमध्ये अंतर्भूत नसलेल्या बाबींचे (नॉन डी.एस.आर.) दर ठरविणे करिता मार्गदर्शक सूचनान्वये कार्यकारी अभियंता, प्रमुख द्वार उभारणी पथक क्र.२, नागपूर, लिंक रोड सदर, नागपूर - ४४०००१, दुरध्वनी क्र. ०७१२-२९८००१७ Email-ID - ee.cgeu2.ngp@gmail.com याचे कार्यालयांतर्गत खालील कामाकरिता सदर कामाचा अनुभव असलेल्या अभिकरणाकडून बजेटरी ऑफर्स मागविण्यात येत आहे. बजेटरी ऑफर्स या कार्यालयात दि. २१/०७/२०२५ पर्यंत पोहचणे आवश्यक आहे. सविस्तर मुददेनिहाय तपशिल www.mahayatriki.gov.in या संकेतस्थळावर निविदा पोर्टल वर उपलब्ध आहे.

Subject : - Design, Manufacturing, Supply, Erection, Testing & Commissioning of Submerged centrifugal Pump of 340 HP x 2 Nos with allied electromechanical equipments etc at Sihora Lift Irrigation scheme Ta- Kamptee Dist - Nagpur

अ.क्र.	कामाचे नांव	बजेटरी ऑफर पाठविण्याचे ठिकाण	बजेटरी ऑफर करिता महत्त्वाचा दिनांक
१	Design, Manufacturing, Supply, Erection, Testing & Commissioning of Submerged centrifugal Pump of 340 HP x 2 Nos with allied electromechanical equipments etc at Sihora Lift Irrigation scheme Ta- Kamptee Dist - Nagpur	कार्यालय - कार्यकारी अभियंता, प्रमुख द्वार उभारणी पथक क्र.२, नागपूर, लिंक रोड सदर, नागपूर - ४४०००१	१) प्रसिध्दीचा दिनांक - १४/०७/२०२५ २) बजेटरी ऑफर्स कार्यालयात सादर करण्याचा कालावधी ०८ दिवस - दि.१४/०७/२०२५ ते दि.२१/०७/२०२५ ३) बजेटरी ऑफर उघडण्याचा दिनांक - २२/०७/२०२५

शर्ती : -

- १) सदर बजेटरी ऑफर केवळ अंदाजपत्रकीय कार्यवाही करिता मागविण्यात येत आहे.
- २) बजेटरी ऑफरचे दरांवरिल सर्व लागू कर वेगळे दर्शविण्यात यावे.
- ३) बजेटरी ऑफर या कार्यालयाचे ई-मेल ee.cgeu2.ngp@gmail.com वर सुध्दा स्विकारल्या जातील.



(ई. म. आत्राम)

कार्यकारी अभियंता

प्रमुख द्वार उभारणी पथक क्र.२,
नागपूर

Schedule

Subject : - Design, Manufacturing, Supply, Erection, Testing & Commissioning of Submerged centrifugal Pump of 340 HP x 2 Nos with allied electromechanical equipments etc at Sihora Lift Irrigation scheme Ta- Kamptee Dist - Nagpur.

Description of work	QTY	Unit	Unit Rate	Amount
1	2	3	4	5
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-68. 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. Motor winding with class H insulation with temp. rise limited to class F. The motor works on 6.6 KV $\pm$ 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 sensors 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 annunciation & trip alarm and Pump monitoring unit. The pump shall be supplied with appropriate spares 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. Nos 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 pump capacity = 340 HP , motor capacity = 290 KW a) Duty point discharge 1.06 m³/s b) Duty point head 21.396 m c) Maximum rpm synchronous 1000 d) Pump efficiency / Motor efficiency 84 % (minimum)/ 95 % (minimum) e) Head range 26 to 16 m f) Application Raw water g) Discharge type Surface h) No. of maximum stages Max. One stage only i) Submersible Motor(Power & Control) cable = Suitable required length of Cable from motor to HT Panels, Soft Starter Panel And Temperature Scanner Panel shall be supplied by the contractor. j) lifting chain = 27 m k) maximum number of pumps working in parallel upto 2 Nos. l) Supply voltage 6.6 KV	2	No		

Item No.2 Non Return Valve 800 mm Dia.Material: DI		2	No		
Providing, installing at site of works and testing D.I., non slam, double flanged type non return valve with by pass arrangement complete, suitable for following duties specification and conforming to the detailed specification as per D.T.P..					
a) Diameter	800 mm				
b) P.N. rating	1.0				
c) Working pressure	4 kg/cm ²				
d) Diffierential working pressure	4 kg/cm2				
e) maximum working pressure	8 kg/cm2				
f) Maximum rate of flow in LPS	1380 LPS				
Item No. 3 : Butterfly Valve 800 mm Dia. Material: DI		2	No		
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 the detailed specification as per D.T.P..					
a) Diameter	800 mm				
b) P.N. rating	1.0				
c)working pressure	4 kg/cm2				
d)Differential working pressure	4 kg/cm2				
e)maximum working pressure	8 kg/cm2				
f)Maximun rate of flow in LPS	1380 LPS				
Item No. 4 : Kinetic Air Valve 150 mm Dia.Material: CI		2	No		
Providing, installing at site of works and testing kinetic air valves double orifice type of 150 mm dia. For releasing air from the delivery pipes, etc. complete conforming to the detailed specification as per D.T.P.					
Item No. 5 : Delivery pipelines 800 mm Dia.Material: MS		210	Meter		
Providing and joining at site of works and testing delivery pripe lines including jointing of all in between valves and up to rising main/manifold complete. Suitable for following duties, specification and conforming to the detailed specification as per D.T.P.					
(a) Diameter (NB)	800 mm/7 mm thk.				
(b) Internal test pressure	15.0 Kg/sq.cm				
(c) Vacuum test pressure in mm of Hg - 740 mm					

Item No. 6 : Dismantle Joint 800 mm		2	No		
Providing, installing at site of works and testing of rubber expansion joints in pump delivery pipe line complete, suitable for following duties, specification and conforming to the detailed specification as per D.T.P..					
(a) Diameter (NB)	800 mm				
(b) Internal test pressure	15.0 Kg/sq.cm				
(c) Vacuum test pressure in mm of Hg - 740 mm					
Item No. 7 : Electrical Componats As per specification mention Below					
A) FCMA soft Starter , 6.6 KV, 3 Phase, 290Kw,50Hz,		2	No		
Providing and Installing at site of work and testing of FCMA soft starter suitable for above motor as mentioned in item no 1 and conforming to the specification as per D.T.P.					
B) APFC Panel(Capacitor) 6.6 KV,3 Phase,50 Hz,350 KVAR		1	Set		
(i) Supplying and erecting 350 kVAR,6.6 KV, 3 Phase, 50 Hz, A.C. , THYRISTER SWITCHED MICRO APFC PASSIVE FILTER PANEL, consisting of suitable steps of APP type capacitor units confirming to IS- 13585 (Part – I) 1994 with harmonic filter reactors.					
C) H.T. Panel 6.6 KV, 3 Phase, 630 Amps		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 the detailed specification as per D.T.P.					
(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				
(1) Breakers for out going feeders for motors & Capacitor - 03 Nos. + 1 spare					
with the following ratings.					
current	630 Amps				
Minimum rupturing capacity	250 MVA				

D) L.T. Distribution panel 415 V, 3 Phase, 630 Amps.				
Providing installing at site of work and testing of 415 volts, 3 phase, 50 c/s 800 amps. L.T. distribution panels comprising of following as per detailed specification as per D.T.P. .				
(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 2 Nos.				
(v) 415 volt, 16 amps. H.R.C switch fuses unit 3 Nos.				
(vi) 2 Nos. electrical motor starter D.O.L. type reversible push button operated suitable for B.F. valves under item no.3 above				
E) Batteries, Battery Charger & D.C.D.B.				
Providing, installing at site of work & testing Batteries, battery chargers & D.C.D.B. complete unit comprising of following and as under detailed specification as per D.T.P.				
i) Batteries 2 X 55 cell 110 volts D.C. 200 AH Hour capacity along with all accessories.				
(ii) Battery charger 110 volts, 180/300 AH For above batteries comprising of float Cum boost charger-02 No. complete with protective relays, etc.				
(iii) D.C.D.B. comprising of two incoming double pole miniature circuit breakers (MCB) 50 Amps. -2 Nos., 10 Amps 13- nos. outgoing feeder with MCB or switch fuse unit, complete with all accessories, etc				
F) PMU Control System : Providing, Installing at site of work & testing of pump monitoring unit.	1	Set		
G) Preparation of cable schedule & supply, installation & 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.				
Power And Control Cable				
a) 95 sq.mm X 3 core, 6.6 KV X.L. P.E. AL armored earthed cable H.T. Panel to APFC (Capacitor) Panel And Soft Starter.	100	Mtr.		
b) 35 sq.mm X 3.5 core, 1.1 KV armoured PVC insulated AL cable, L.T. Panel to Battery charger & EOT Crane.	50	Mtr.		
c) 6 sqmm x 4 core 1.1 Kv Pvc Ins. Copper Conductor Cable.	100	Mtr.		
d) 4 sqmm x 4 core 1.1 Kv Pvc Ins. Copper Conductor Cable.	200	Mtr.		

H) 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 as per D.T.P.	1	Job		
GI earth strip per meter				
I) Water Level Indicator.-				
Providing, installing at site of works & testing of water level indicator, operating on 230 volts, 50 C/s, AC supply conforming to the detailed specification as per D.T.P..	1	Set		
J) Temperature Scanner Panel and Remote Control Panel				
(i) Providing, installing at site of work & testing of temperature scanner panel comprising of 2+1 nos. microprocessor temperature scanners having 10 points each to monitor H.T. motor winding and bearings temperature, complete detailed specification as per D.T.P.	1	Set		
a) incoming breaker/Bus coupler 2 Nos.				
b) pump motor breaker 2 Nos.				
c) Auxiliary transformer breakers 1 No.				
d) Butterfly valves 2 nos.				
e) Water level indicators 1 Nos.				
f) APFC Panel 1 Set				
Item No. 8 : Testing, Commissioning, Trials & operations for one year after performance guarantee test.	1	Job		
Testing, Commissioning, Trial And operation of the complete equipment and performance tests as per detailed specification.				
Item No . 9 : Tools and spares	1	Job		
Providing Tools and Spares for the above system				


 Executive Engineer
 Chief Gate Erection Unit No.2,
 Nagpur