

**Government of Maharashtra**  
**Water Resources Department**  
**Executive Engineer, Takari Mechanical & Electrical Division ,Sangli**

Budgetary offer for the following work (Non DSR items) are invited by the Executive Engineer, Takari Mechanical and Electrical Division, Sangli -416415 Phone No. 0233-2302932 on behalf of Governor of Maharashtra for estimation purpose from the Reputed Agencies /Contractor/OEM(Original Equipment Manufacturer).

The brief of work is given below. Interested Agencies are requested to go through the details and send the budgetary offers for proposed work. The rates should cover all taxes and duties applicable. The interested parties are requested to quote the offer up to 15-09-2020. Further it is requested to forward relevant technical literature, brochures of equipments and your comments if any in this matter. For detailed specifications of equipments and scope of work involved if required, please contact to this division office on (0233-2302932).

Sr. No.	Name of Work	Qty.
1	<b>Vertical Turbine Pump</b> Design, Manufacture, Supply, erection, testing & commissioning of vertical turbine pumps with strainer, bell mouth, impeller assembly, Discharge tee, Flexible couplings, base frame Foundation etc complete job as per following specifications. 1) Duty point Discharge = 0.865 Cub.m/sec 2) Duty point head = 27.20 m 3) Head range = 20 to 34 m 4) No. of impeller stages = 1 stage 5) Pump HP = 367 HP, 6) Max. syn. RPM = 750 rpm. 7) Column Pipe dia. = 750 mm 8) Delivery Pipe dia. = 700 mm 9) Column pipe thickness = 6 mm 10) No. of pumps working in parallel = 2 11) Self water lubricated.	1No
2	<b>Induction Motor (H. T. Motor)</b> Design, manufacture, Supply, erection, testing & commissioning of Squirrel Cage Induction Motor 325 KW, 6.6KV, 3 phase, 50 Hz, solid shaft, TEFC type 'F' class insulation with voltage variation of $\pm 10\%$ and frequency variation $\pm 3\%$ suitable for direct coupling with provided Vertical Turbine pump as per latest revision of IS 325, IS 4722 & other relevant IS specifications.	1No
3	<b>Soft Starter</b> -Supply, installation and commissioning of Soft Starter for 325kW motor operating at 6.6 KV with load break switch, metering, protection by-pass vacuum contactor with all accessories complete housed in painted sheet metal enclosure.	
4	<b>H.T. Panels ( Main Panel )</b> HT pump panel board made of sheet metal duly painted with recess for cable entries at bottom suitable for 6.6 KV equipped with vacuum circuit breaker of suitable capacity for 1 number incoming 1600A and 2 numbers 630A outgoing of suitable capacity with aluminium bus bars of 1600 Amp metering panel, protection relays and all other accessories complete with wiring as per specifications and approved drawings.	
5	<b>Remote control panel</b> Providing installing at site of works & testing of sheet steel, floor mounted, vermin proof & powder coated & Tropicalised Remote control Panels with control switch, Ammeters Annunciation fascia windows, indication lamps etc. for control & monitoring of motor feeder, transformer feeder & incomer breaker with standard accessories etc complete.	

6	<b>Battery charger ,D.C. Distribution Board</b> Supply, Installation, Testing and commissioning of 110 V, 40A Battery charger with, D.C. Distribution Board (D.C.D.B.) for Battery Set of 200 AH, VRLA type with standard accessories etc. Complete.	
7	<b>Battery</b> Battery Set of 110 V, 200 AH, VRLA type with standard accessories etc. Complete	
8	<b>Capacitor Panel</b> Providing installing at site of works and testing of Capacitor 6.6 KV,3 phase, 50 Hz. 129 KVAR capacity cubicles for the motors to improve the power factor.	

**Note:-**

- 1) This information is required for the purpose of framing of working estimates and hence the urgency. This Budgetary offer is also available on website [www.mahayantriki.gov.in](http://www.mahayantriki.gov.in)
- 2) Material of construction should be as per standard DTP of Mechanical Organisation WRD Maharashtra.
- 3) Scope involves work of Design, Manufacture, Supply, erection, testing & commissioning with PG Testing at site.

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Sr no	Description of work	Qty	Unit	Rate	Amount
	Repairs to HOPD valves of size 1000 mm/1200 mm @ Mhaisal stage 1,2 and 5 as per actual site conditions.				
A	Hydraulic system-				
1	Job work of complete overhauling of powerpack unit including dismantling of power pack unit assembly,flow control valve,direction control valve,pressure relief valve etc. & reconditioning of all parts assemble all subassemblies etc. inclusive of labour,sundry material charges.	No	1		
2	Replacement of hose pipes,pressure gauges-2nos	Set	1		
3	Replacing damaged O rings, oil seals & filters Drain out old used oil from oil tank of power pack unit, cleaning the oil tank, filling new oil filter, fitting new fresh 100litre oil of servo 68 type in tank with labor and all taxes. (Servo-68 oil-100litres supply by dept)	Set	1		
4	Mechanical work				
a	Repair of hand pump includes replacement of oil seals of pumps,reconditioning of all parts,replacement of damaged piping & accessories etc.complete.	No	1		
b	Job work of overhauling of gear pump including dismantling of gear pump assembly,reconditioning of all parts & reassemble it with test & trial.				
c	Replacement of hydraullic cylinder by new one.				

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