

MAHARASHTRA KRISHNA VALLEY DEVELOPMENT CORPORATION PUNE 411 011
(A GOVERNMENT OF MAHARASHTRA UNDERTAKING) BUDGTORY OFFER
NOTICE NO.1 EE/SECPK/8/2015-16

Budgetary offer for **Mhaisa 6A** LIS work is invited from Manufacturers'/ contractors having experience of the said work for estimate purpose only. Please submit the rate to The Office of Executive Engineer, Takari Mechanical & Electrical Division, Warnali, Sangli 416415 Maharashtra. Within fifteen days from the date of publishment.

Item No.	Description	Qty.	Unit
1	Submerged Vertical Centrifugal Pump-375HP Design,Manufacturing,Supply,erection,testing& commissioning of submerged vertical centrifugal pumps with motor, non clog type, complete with strainer, suction bell, impeller assembly, discharge case/Discharge tee,Flexible couplings, base frame Foundation,Guide rail,etc And giving test to full capacity. Suitable for following duties:	3	No
	a) Duty point discharge per pump = 0.7 M3/sec.		
	b) Duty point head = 31.72 Mtr.		
	c) Maximum rpm synchronous = 1000		
	d) No. of maximum stage = 1 stage		
	e)Max. No of pumps working in parallel = 3		
	f)Motor Capacity (including 20% power margin) = 330KW		
	g) Voltage rating = 415 Volts		
2	Non – Return Valves (NRV) Design,Manufacturing,Supply,erection,testing& commissioning of cast steel WCB, non slam, double flanged type NRV with bypass arrangements complete suitable for following duties as per IS- 5312	3	No
	A] Diameter - 600 mm		
	B] P.N. Rating - 1.6		
3	Butterfly Valves (BFV) Design,Manufacturing,Supply,erection,testing& commissioning of double flanged butterfly valves conforming to relevant IS/BS 5155 with electric actuators with 415 volt A.C. motors D.O.L. starting etc. complete Suitable for following duties and Specification.	3	No
	A] Diameter - 600 mm B] P.N. Rating – 1.6		
4	Kinetic Air Valve Design,Manufacturing,Supply,erection,testing& commissioning of Kinetic Air Valves of 200 mm dia.,PN rating of 1.6 for above as per IS- C512-92.	3	No

5	Delivery Pipe line Design,Manufacturing,Supply,erection,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-1239/5822.	75	Mtr
	a. Diameter - 600 mm		
	b. Wall thickness - 8 mm		
	c. Length - 25 mtr. For each pump.		
6	Dismantling Joints Design,Manufacturing,Supply,erection,testing& commissioning of M.S. Dismantling joints in pump delivery pipe line complete, suitable for following Specifications.	3	No
	a.Diameter – 600 mm		
	b.Wall thickness – 8 mm (min)		
	c.PN Rating – 1.6		
7	Capacitors Design,Manufacturing,Supply,erection,testing& commissioning of 415V,3 phase, 50 Hz. Suitable capacity Capacitor cubicles for the motors to improve the power factor upto 0.95. The KVAR capacity of the capacitors should not exceed the magnetizing KVAR of motor.	3	Set
8	L.T. Panel Design,Manufacturing,Supply,erection,testing& commissioning of 415 volt, 3 Ph, 50 Hz. 2000 A, L.T. distribution Panels comprising of following:	1	Set
	A) INCOMER / BUS COUPLER		
	1 ACB,415 Volts, 2500A, 65KA,3Pole, THERMAL RELEASE O/C+SHORT CKT, SHUNT TRIP TYPE-MDO----- 3 Nos.		
	2. Multifunction meter- -----3 Nos.		
	3. CT tape insulated 2000/5A,CL-1,10VA----- 9 Nos.		
	4.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot		
	B) OUTGOING MOTOR FEEDER FOR, 330 KW.		
	1. ACB,415Volts, 1000A, 3 Pole, 50KA, DRAW OUT TYPE -----4 Nos.		
	2. SOFT STARTER 330KW WITH BYPASS CONTACTOR---- 3 No.		
	3.C.T. TAPE INSULATED 750/5A, CL-1,5VA ----- 12 Nos.		
	4.C.T.TAPE INSULATED 750/5A, 5P10,5VA ----- 12 Nos.		
	5.Motor protection relay [SPAM 150C]---- 4 Nos.		
	6.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot		
	C)DOL STARTER FOR VALVES		
	1. MCCB 16 A 3Pole-----4 Nos.		
	2. CONTACTOR 9A TP ----- 8 Nos.		
	3. Overload relay 3- 5 A ----- 4 Nos.		
	4.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot		

	D) MCCB OUTGOING FEEDERS		
	1. 415V, 32A, 415V, 3Pole MCCB -----2 No.		
9	Preparation of cable schedule and supply, Installation, Termination, testing of cables etc. complete. Design,Manufacturing,Supply,erection,testing& commissioning of suitable cables & wires complete as required for the above pumping machinery .	1	Set
10	Earthing Providing, installing at site of works earthing comprising of adequate No. of earth stations, earth bars & individual double earthing to all electrical equipments as per detailed specifications.	1	Set
11	Water Level Indicators Providing at site of works & testing of water level indicators as per detailed specifications: Operating on 230 volts, 50 Hz, A.C. Supply Operating range of level = 20 mtr. min.	1	Set
12	Temperature scanner panels Providing and testing of temperature scanner panels comprising of 4 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 Temperature Range = 0°C to 200° C Display Details = 6 digit parameter (4 digit function, 2 digit channel)	1	Set
13	Remote Control Panel Providing 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 breakers, pumps/motors, Ancillary equipments, panels etc.complete.	1	Set
14	Testing, Commissioning, Trials and Operation Testing, Commissioning, Trials and Operations of the complete equipments for one year after performance tests and training to Departmental staff.	1	Job
15	Spares & Tools Manufacturer will supply one spare pump with motor in all respect ready to install and standard tools for pumpset including NRV,BFV,KAV,DJ,Delivery pipe set,Capacitor,Electric panel etc.	1	Job
16	Complete Electrification Electrification to Pump House and control room and outside of Pump house.	1	Job
17	Air conditioning system Adequate capacity Air conditioning system to control room.	1	Job
18	Fire fighting system Adequate fire fighting system for total pump house as per fire norms.	1	Set

19	Monorail with structure Design,Manufacturing,Supply,erection,testing & commissioning of Monorail with structure, guide, block and related accessories etc. Suitable for Vertical SCF pumps lifting and lowering arrangements.	1	Job
20	Comprehensive Work for Opreations, Maintenance and Providing Security Arrangements for Allied Electromechanical Equipements including all major and minor repairs for 5 years after Testing, Commissioning, Trials and Operations of the complete equipments	1	Job
21	Flowmeter Design,Manufacturing,Supply,erection,testing & commissioning of Ultrasonic Insertion Fixed type Flowmeter(Single Channel) suitable for 1200 mm diameter of MS pipeline (Rising Main) along with transmitter,remote facility,display unit at control room.	1	Set

Executive Engineer,
Takari Mech. & Elect.Division,
Sangli