

**MAHARASHTRA KRISHNA VALLEY DEVELOPMENT CORPORATION PUNE 411 011 ( A GOVERNMENT OF MAHARASHTRA UNDERTAKING) BUDGTORY OFFER NOTICE NO.1 EE/SECPK/9/2015-16**

Budgetary offer for Mhaisal 6 B 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	<b>Submerged Vertical Centrifugal Pump-487HP</b> 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:	4	No
	a) Duty point discharge per pump = 0.35 M3/sec.		
	b) Duty point head = 82.44 Mtr.		
	c) Maximum rpm synchronous = 1500		
	d) No. of maximum stage = 2 stage		
	e)Max. No of pumps working in parallel = 4		
	f)Motor Capacity (including 20% power margin) = 430KW		
	g) Voltage rating = 415 Volts		
2	<b>Non – Return Valves (NRV)</b> 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	4	No
	A] Diameter - 450 mm		
	B] P.N. Rating - 1.6		
3	<b>Butterfly Valves (BFV)</b> 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.	4	No
	A] Diameter - 450 mm B] P.N. Rating – 1.6		
4	<b>Kinetic Air Valve</b> Design,Manufacturing,Supply,erection,testing& commissioning of Kinetic Air Valves of 100 mm dia.,PN rating of 1.6 for above as per IS- C512-92.	4	No
5	<b>Delivery Pipe line</b> 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.	100	Mtr
	a. Diameter - 450 mm		
	b. Wall thickness - 8 mm		
	c. Length - 25 mtr. For each pump.		

6	<b>Dismantling Joints</b> Design,Manufacturing,Supply,erection,testing& commissioning of M.S. Dismantling joints in pump delivery pipe line complete, suitable for following Specifications.	4	No
	a.Diameter – 450 mm		
	b.Wall thickness – 8 mm (min)		
	c.PN Rating – 1.6		
7	<b>Capacitors</b> 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.	4	Set
8	<b>L.T. Panel</b> Design,Manufacturing,Supply,erection,testing& commissioning of 415 volt, 3 Ph, 50 Hz. 3200 A, L.T. distribution Panels comprising of	1	Set
	<b>A) INCOMER / BUS COUPLER</b>		
	1 ACB, 415 Volts,3200A,65 KA,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>B) OUTGOING MOTOR FEEDER FOR, 430 KW.</b>		
	1. ACB, 1250A, 3POLE, 50KA, DRAW OUT TYPE -----5 Nos.		
	2. SOFT STARTER 430KW WITH BYPASS CONTACTOR---- 4 No.		
	3.C.T. TAPE INSULATED 800/5A, CL-1,5VA ----- 15 Nos.		
	4.C.T.TAPE INSULATED 800/5A, 5P10,5VA ----- 15 Nos.		
	5.Motor protection relay [SPAM 150C]----5 Nos.		
	6.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot		
	<b>C)DOL STARTER FOR VALVES</b>		
	1. MCCB 16 A 3Pole-----5 Nos.		
	2. CONTACTOR 9A TP ----- 10 Nos.		
	3. Overload relay 3- 5 A ----- 5 Nos.		
	4.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot		

	<b>D) MCCB OUTGOING FEEDERS</b>		
	1. 415V, 32A, 415V, 3Pole MCCB -----2 No.		
9	<b>Preparation of cable schedule and supply, Installation, Termination, testing of cables etc. complete.</b> Design,Manufacturing,Supply,erection,testing& commissioning of suitable cables & wires complete as required for the above pumping	1	Set
10	<b>Earthing</b> 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	<b>Water Level Indicators</b> 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	<b>Temperature scanner panels</b> Providing and testing of temperature scanner panels comprising of 5 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	<b>Remote Control Panel</b> 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	<b>Testing, Commissioning, Trials and Operation</b> Testing, Commissioning, Trials and Operations of the complete equipments for one year after performance tests and training to Departmental staff.	1	Job
15	<b>Spares &amp; Tools</b> 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	<b>Complete Electrification</b> Electrification to Pump House and control room and outside of Pump house.	1	Job
17	<b>Air conditioning system</b> Adequate capacity Air conditioning system to control room.	1	Job
18	<b>Fire fighting system</b> Adequate fire fighting system for total pump house as per fire norms.	1	Set

<b>19</b>	<b>Monorail with structure</b> 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.	<b>1</b>	<b>Job</b>
<b>20</b>	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	<b>1</b>	<b>Job</b>
<b>21</b>	<b>Flowmeter</b> Design,Manufacturing,Supply,erection,testing & commissioning of Ultrasonic Insertion Fixed type Flowmeter(Single Channel) suitable for 950 mm diameter of MS pipeline (Rising Main) along with transmitter,remote facility,display unit at control room.	<b>1</b>	<b>Set</b>

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