

**MAHARASHTRA KRISHNA VALLEY DEVELOPMENT CORPORATION PUNE 411 011  
( A GOVERNMENT OF MAHARASHTRA UNDERTAKING) BUDGTORY OFFER  
NOTICE NO.1 EE/SECPK/10/2014-15**

**Budgetary offer for the following work are 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 seven days from the date of publishment.**

Item No.	Description	Qty.	Unit
1	<p><b>Submerged Vertical Centrifugal Pump-294 HP</b></p> <p>Supply, erection, testing &amp; commissioning of pumping machinery &amp; its allied equipments and giving test to full capacity, submerged vertical centrifugal pumps, non clog type, complete with strainer, suction bell impeller assembly, base frame Foundation, non reversible rotation etc.</p> <p>Suitable for following duties</p> <p>a) Duty point discharge per pump = 0.2126 M3/sec.  b) Duty point head = 81.85Mtr.  c) Maximum rpm synchronous = 1500  g) No. of maximum stage = 1 stage  h) Max. No of pumps working in parallel = 3</p>	3	No
2	<p><b>Non – Return Valves (NRV)</b></p> <p>Providing installing at site of works and testing cast steel WCB, non slam, double flanged type NRV with bypass arrangements complete suitable for following duties as per IS-5312</p> <p>A] Diameter - 350 mm  B] P.N. Rating - 1.6</p>	3	No
3	<p><b>Butterfly Valves (BFV)</b></p> <p>Providing installing at site of works and testing 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.</p> <p>A] Diameter - 350 mm B] P.N. Rating – 1.6</p>	3	No
4	<p><b>Kinetic Air Valve</b></p> <p>Providing installing at site of works and testing Kinetic Air Valves of 100 mm dia. For releasing air from the delivery pipe etc. suitable for PN rating of 1.6 for above as per IS-C512-92</p>	3	No

5	<p><b>Delivery Pipe line</b></p> <p>Providing and jointing 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 specifications as per IS-1239/5822</p> <p>a. Diameter - 350 mm b. Wall thickness - 8 mm c. Length - 22 mtr. For each pump.</p>	66	Mtr.
6	<p><b>Dismantling Joints</b></p> <p>Providing, installing at site of works and testing M.S. Dismantling joints in pump delivery pipe line complete, suitable for following Specifications. Diameter – 350 mm</p> <p>a. Wall thickness – 8 mm (min) b. PN – 1.6</p>	3	No
7	<p><b>Capacitors</b></p> <p>Providing installing at site of works and testing of 415V,3 phase, 50 Hz. Suitable capacity Capacitor cubicles for the motors to improve the power factor to 0.95. The KVAR capacity of the capacitors should not exceed the magnetizing KVAR of motor.</p>	1	Set

8	<p><b>L.T. Panel</b></p> <p>Providing installing at site of works and testing 415 volt, 3 Ph, 50 Hz. 1000 A, L.T. distribution Panels comprising of following:</p> <p><b>A) INCOMER - 1 AND 2</b></p> <p>1 ACB, 1000A, 4Pole, THERMAL RELEASE O/C+SHORT CKT, SHUNT TRIP TYPE-MDO----- 2 Nos. 2. Multifunction meter- ----2 Nos. 3. CT tape insulated 1000/5A,CL-1,10VA----- 6 Nos. 4.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot</p> <p><b>B) OUTGOING MOTOR FEEDER 400A, 250 KW.</b></p> <p>1 MCCB, 400A, 3P, 50KA, FIXED TYPE -----3 Nos. 2 SOFT STARTER 250KW WITH BYPASS CONTACTOR---- 3 No. 3 POWER CONTACTOR 600A AC3 DUTY----- 3 Nos. 4C.T. TAPE INSULATD 400/5A, CL-1,5VA ----- 9 Nos. 5 C.T.TAPE INSULATED 400/5A, 5P10,5VA ----- 9 Nos. 6 Motor protection relay [SPAM 150C]---- 3 Nos. 7Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot</p> <p><b>C)DOL STARTER FOR VALVES</b></p> <p>1 MCCB 16 A 3Pole-----3 Nos.</p>	1	Set
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	<p>2 CONTACTOR 9A TP ----- 6 Nos.  3 Overload relay 3- 5 A ----- 3 Nos.</p> <p>4.Voltmeter,Ammeter,Fuses,MCB,Aux.Contactors,indicating lamps, control terminals, wiring etc. complete.----- 1 lot</p> <p><b>D) MCCB OUTGOING FEEDERS</b></p> <p>1 32A 3Pole MCCB -----2 No.</p>		
<b>9</b>	<p><b>Preparation of cable schedule and supply, Installation, Termination, testing of cables etc. complete.</b></p> <p>Providing installing at site of works &amp; testing suitable cables &amp; wires complete as required for the, pump house</p>	<b>1</b>	<b>Set</b>
<b>10</b>	<p><b>Earthing</b></p> <p>Providing, installing at site of works earthing comprising of adequate No. of earth stations, earth bars &amp; individual double earthing to all electrical equipments as per detailed specifications.</p>	<b>1</b>	<b>Set</b>
<b>11</b>	<p><b>Water Level Indicators</b></p> <p>Providing installing at site of works &amp; 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.</p>	<b>1</b>	<b>Set</b>
<b>12</b>	<p><b>Temperature scanner panels</b></p> <p>Providing installing and testing of temperature scanner panels comprising of 3 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 )</p>	<b>1</b>	<b>Set</b>
<b>13</b>	<p><b>Remote Control Panel</b></p> <p>Providing installing at site of works &amp; testing of sheet steel, floor mounted, vermin proof &amp; powder coated &amp; Tropicalised Remote control Panels with control switch, Ammeters Annunciation fascia windows, indication lamps etc. for control &amp; monitoring of breakers, pumps/motors, Ancillary equipments, panels etc. complete.</p>	<b>1</b>	<b>Set</b>
<b>14</b>	<p><b>Testing, Commissioning, Trials and Operation</b></p> <p>Testing, Commissioning, Trials and Operations of the complete equipments for one year after performance tests and training to Departmental staff</p>	<b>1</b>	<b>Job</b>

<b>15</b>	<b>Spares &amp; Tools</b> Providing at site of works tools & spares complete. Give detail list of spares and tools. Prices should be item wise and total.	<b>1</b>	<b>Job</b>
<b>16</b>	<b>Complete Electrification</b> Electrification to Pump House and control room and outside of Pump house.	<b>1</b>	<b>Job</b>
<b>17</b>	<b>Air conditioning system</b> Adequate capacity Air conditioning system to control room.	<b>1</b>	<b>Job</b>
<b>18</b>	<b>Fire fighting system</b> Adequate fire fighting system for total pump house as per fire norms. Pl. Specify items and the cost item wise.	<b>1</b>	<b>Set</b>
<b>19</b>	<b>Monorail with structure</b> Providing Installing at site of works and testing of Monorail with structure Suitable for following specifications and conforming to detailed specifications as per	<b>1</b>	<b>Set</b>

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