



MUMBAI HOUSING & AREA DEVELOPMENT BOARD

A REGIONAL UNIT OF
(MAHARASHTRA HOUSING AND AREA DEVELOPMENT AUTHORITY)

Ref. No. : EE/Elec/e-tender/3/2022-23 Main portal

<https://mahatenders.gov.in>

NOTICE

Name of work:- Technical Designing (Structure, Services, infrastructure), Coordination and construction of Rehabilitation/Sale/Commercial/Amenities/Any other structure along with of onsite/off side infrastructure & Landscaping & Performing various Co-ordination activities of Project & obtaining all relevant permission & approvals from all concerned authorities on lumpsum Basis for redevelopment project of BDD Chawls on Land bearing CTS Nos.1539 &1540 at Worli, Mumbai-400018.

-----Submersible Centrifugal Hydro-pneumatic type water Supply Pump system

The seal quotation are invited by the Executive Engineer, Electrical Division, Mumbai Housing & Area Development Board, R.No. 368 second floor, Grih Nirman Bhavan, Kalanagar, Bandra (E) from the experienced contractor/supplier /manufacture/dealer having experience in carrying out similar type of work.

It no.	Description of item	Rate (In Rs.)	Unit (One Job)	Amount
1	<p>Supply, Installation, Testing and Commissioning of continuous duty submersible centrifugal non-clogging Hydropneumatic type water supply pumps complete with 3 phase motor, level sensor, control panel with all necessary protection and mechanical seal etc with Cabling upto Control Panel etc complete. Vendor to submit proposed pump model with duty curve. Note - Submersible lifting provision shall be made. Pump shall be Open Well Vertical Submersible type.</p> <p>Flow Rate : 26.67 LPS (Each Pump Flow Rate 8.89 LPS)</p> <p>Head : 50 Mts</p> <p>HP : 11 HP (Each Pump)</p> <p>KW : 9.3 KW (Each Pump)</p> <p>Application : Water Supply (1Set = 3W+3S) - Common Pumpset for Chawl Building Nos. 22 23 24 25 26 27 28.</p> <p>Flow Rate : 37.00 lps (Each Pump Flow Rate 12.33 LPS)</p> <p>Head : 50 Mts</p> <p>HP : 16 HP (Each Pump)</p> <p>KW : 12.5 KW(Each Pump)</p> <p>Application : Water Supply (1Set = 3W+ 3S) - Common Pumpset for Chawl Building nos. 64 65 66 67 68 69 70 71 72 73 74 & 77</p> <p>External Pump mounted or wall mounted microprocessor PID controller and frequency inverter</p>			

	<p>integrated in a single body or as separate components with pressure sensor transmitter minimum two lined LCD display, diodes to indicate pump ready, pump running and fault and capable to communicate with other controllers following MODBUS-RTU or BACNET Class-2 protocol through RS485 port (Variable Frequency Drive). System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller. System should be equipped with dry running protection. Necessary integration to be made with pressure switches/float switch/Hi-low level switch along with control wiring.</p> <p>Complete (Wall mounted / floor mounted) electrical control panel comprising of all accessories such as PLCs, pressure switches, pressure transducers, control wiring and any other necessary imports etc. (list to be provided by the vendor). Panel Should be with IP 54 Class of protection.</p> <p>Precharged diaphragm pressure vessel with food grade membrane, charging connection, connected to outlet header with necessary flanges, gaskets, isolating valves, nuts/bolts etc complete.</p> <p>Set of accessories such as pressure switches, pressure transducers, inter connecting power and control cabling etc. Complete</p> <p>(Suction velocity=1.5 m/s, discharge velocity=2.0 m/s)</p> <p>Shut off head shall be 1.2 times of rated head.</p> <p>Efficiency shall be greater than 75%</p> <p>(Including 1 year Defect liability period & transportation to BDD Worli site)</p>			
2	<p>ELECTRICAL INSTALLATION FOR PLUMBING SYSTEM</p> <p>Electrical panel for Domestic / Flushing Pump System: Design, fabrication, assembling, wiring, supply, installation, testing and commissioning of motor control centre shall be fabricated out of 14 gauge CRCA sheet steel in form in 3b formation with reinforcement of suitable size angle iron, channel 'T' sections irons and/or flats wherever necessary. Cable gland plates shall be provided on top as well as at the bottom of the panels. Panels shall be treated with all anticorrosive process before painting as per specifications with 2 coats of red oxide primer and final approved shade of powder coated paint. 2 Nos. earthing terminals shall be provide for 3 phase, 4 wire, 50 Hz supply system. Lifting hooks shall also be provided in case of large panels. Approval shall be taken for each panel before fabrication. Cadmium plated hardware shall be used in fabrication of panels.</p> <p>(Panel should be IP 55 rating)</p> <p>MAIN PLUMBING PANEL</p> <p>Incoming</p> <p>250 amps TPN MCCB with the following accessories:</p> <p>Digital Multifunction Meter shall be protected by 2</p>			

<p>amps TP MCB.- 1 Set R,Y,B Indicator & ON, OFF, TRIP indicator Bus Bar 250 Amps TPN (20 KA) Aluminium bus bar with heat shrinkable insulation sleeves. Outgoings 2 Nos, 125 Amp MCCB as outgoing feeders The compartment shall contain CT operated digital electronit ammeter of 0-125amps range with selector switch and indicating lamp with MCBs for ON'/OFF' TRIP' status of motor. Spare MPCB'S of following capacities: 125 amps TPN MCCB-1 No. 80 amps TPN MCCB-1 No. Necessary cable alleys, internal wiring, and interlocking, earthing for all equipment shall also included All MCCB shall be of 25KA breaking capacity and suitable for motor duty application. Provision shall be made for providing potential free contacts to all pumps starters for connection to BAS Provision shall be made to ensure system protection from dry running of the pump Main PHE Panel as described above. (Main PHE panel) (Including 1 year Defect liability period & transportation to BDD Worli site)</p>			
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In case any query please contact:-

Mr. N.R. Deshmukh, Deputy Engineer (Elect)-022-66405265

Mr. Amit Shinde, Sectional Engineer (Elect) 022-66405219

Terms and Conditions:-

1. Agency shall write name of work on envelope.
2. Agency has to submit the list of similar type of work carried out with work order / completion certification in last three years.
3. Agency has to submit the Shop and establishment licence / Certificate of Incorporation and GST certificate along with quotation.
4. Agency has to consider the rate for one year free operation and fully comprehensive maintenance provided from the date of compilation of work while quoting the rate.
5. Agency has to submit the duly filled quotation along with required documents in sealed envelope.
6. Executive Engineer / Electrical Division / Mumbai Housing & Area Development Board reserves the right to accept or reject any or all quotation without assigning any reason.
7. The quotations are invited for obtaining rates of item only for estimation purpose.

Executive Engineer,
Electrical Division,
M.H.& A.D. Board