

Tender Inviting Authority: Indian Institute of Management, Udaipur

Name of Work: Supply, installation, testing and commissioning of Hydropneumatic Systems, Pumps, Valves and Flow Meters Works

Tender Ref no. IIMU/WS EQUIPMENTS/2017-18/3

Bidder Name:

S.NO	Description Of Item	Unit	Qty	Rate in figures to be entered by the Bidder		Amount
				Figures	Words	INR
1	<p>Transfer Pump System from Main Domestic Water Tanks to Elevated Sump Reservoirs / Under ground tanks</p> <p>Supply, installation, testing & commissioning of Hydro-pneumatic system with vertical inline Multistage booster centrifugal SS - 316L pump-motor sets, suitable for operation on 415 volts, 50 Hz, 3 phase AC supply, with 500 Ltrs pneumatic balancing tank, mounting skid, foot valves, G.I. suction & discharge pipes, fittings, cast brass / virgin brass valves, C.I. Strainers at suction head, etc. Each pump shall have TEFC 1450 / 2900 RPM three phase electric motor. The scope includes pressure switches, VFD based control panel with starters, protections, relays, cables, interlocking with level & pressure switches. Suction / Delivery Piping all connections, etc complete for domestic supply only. Panel to be compatible to MODBUS IP, with the adequate I/O.</p> <p>Common Pump set includes following 2 pumps for delivering water to three locations as per below mentioned details:</p> <p>A) Flow rate : 50 M³ / Hr; Head : 105 Mts; Required for : Transferring water from Treated Water Tank to Elevated Sump Reservoir ESR 01 (at Hostel side of Academic Block)</p> <p>B) Flow rate : 50 M³ / Hr; Head : 80 Mts; Required for : Transferring water from Treated Water Tank to Elevated Sump Reservoir ESR 02 (at Staff Housing Cluster)</p> <p>Approved Makes: Grundfos/ CRI</p>	Set	1.00			-
2	<p>Water Treatment Plant at Centralized Pump Room</p> <p>Hydraulic Self cleaning Filter</p> <p>Supply, Installation, Testing and Commissioning of Self Cleansing Hydraulic Filter having powder coated S.S. / Carbon Steel / C. I. Body with the following details:</p> <p>Maximum flow (m³/h): 50; Inlet/Outlet diameter: 150mm (6"); Maximum/minimum working pressure: 10 Bar / 3 Bar; Fluid maximum temperature: 50° C; Filtration degrees: 50 microns; Maximum Inlet water TSS: up to 200 ppm</p> <p>ELECTRICAL DATA</p> <p>Rated operation voltage: 415 Volts AC 50 Hz three phase; Control voltage: 24V DC;</p> <p>The vendor should provide technical details related to Back-washing, Filters, and materials of construction</p> <p>Approved makes : Gopani / Ion Exchange / Ionex</p>	Nos	2.00			-
3	<p>Supply, installation, testing and commissioning of monoblock centrifugal pump. Each pump shall have TEFC 1450 / 2900 RPM single / three phase electric motor. The pump shall have CI body, and casing ring, SS 316-L impeller, SS 410 Shaft and shaft sleeve, coupling guard, common base plate, foundation bolts, etc Pumps shall be provided with mechanical seal. The pump shall be suitable for auto / manual operation. Including coupling guard, common base plate, foundation bolts, etc and with all accessories and to be provided & to extract water from the reservoir and transfer to filtration system and distribution of filtered water to terrace storage water coolers at each hostel cluster. 1 Set of pumps includes the following:</p>					
	a) Each pump working in parallel or as per the PLC (1 Working + 1 Standby)					
	b) Auto- start variable frequency driver					
	c) C. I. Foot Valves with Filter head					
	d) CI strainers at suction inlet					
	e) control valves					
	f) non return valves					
	g) Capacity : 15 mtr ³ /hr.(pump for transfer from Pump Room to water coolers with flooded suction and discharge head of 50 mtrs	1	Set			
4	<p>Water level indicators cum controllers working on hydrostatic pressure measurement principle made of Stainless Steel for installation on storage tanks, and capable of providing 4 to 20 mA analog signal compatible with PLC signal inputs, including all wiring and piping as required complete as per working requirements for details of equipment below. All control outputs to MCC panel shall be included as per requirements.</p>	2	Sets			
	i) Real-Time water level indication for monitoring					
	ii) V. Low Level audio-visual alarm at less than 30% total capacity.					
	iii) V. High Level audio-visual alarm at more than 100% total capacity.					
	iv) Auto cut-out of water pumps at 20%					
5	<p>Electronic Flow Meters</p> <p>Providing & fixing on line turbine type flow meter with preamplifier & microprocessor based electronic flow meter mounted in plumbing plant room electrical control panel with the following features. Monitoring the total flow, Flow rate, high low alarm batching and blending etc. Including electrical wiring from preamplifier to microprocessor based flow meter. Complete with all type of Plumbing & Electrical connections, accessories, wiring, conduits & supports complete with all respect. The signal from read out shall be 4-20 m.amps to be received on BAS.</p> <p>Electronic Flow Meter – Media Clear Liquids; Pipe dia Size - as mentioned below; Display - 8 Digit for Flow Rate & 8 Digit for Flow Totalized – 16 x 2 Backlit Alphanumeric LCD; MOC: Body – SS 316; Flange: SS 316; Rotor: SS 410 (Teflon Coated)</p> <p>Approved makes:- Omega / Honeywell / Sigma / Rockwin / Flowstar / Aquamet</p>					-

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	Transfer Pump System from Main Domestic Water Tanks to Elevated Sump Reservoirs / Under ground tanks					
5a	100 mm dia	Nos	5.00			-
5b	80 MM dia	Nos	10.00			-
5c	65 mm dia	Nos	15.00			-
5d	50 mm dia	Nos	5.00			-
5e	40 mm dia	Nos	5.00			-
5f	32 mm dia	Nos	5.00			-
6	Pressure Release Valves Providing, installation, testing and commissioning of Pressure Release Valves of following sizes complete in all respect as per technical specification and as per direction of Engineer. Pressure Range: 0 to 10.0 kg/cm ² ; Accuracy: 0.1 - 0.5%; MOC : Cast Iron for dia from 65mm to 100m MOC: Brass for dia less than 65mm dia Approved makes: Varie / Lehry / Watts/ AIP Valves					
6a	100 mm dia	Nos	7			-
6b	80 MM dia	Nos	10			-
6c	65 mm dia	Nos	5			-
6d	50 mm dia	Nos	5			-
6e	40 mm dia	Nos	5			-
6f	32 mm dia	Nos	5			-
6g	25 mm dia	Nos	5			-
7	Hydraulic Self cleaning Filter with UV Filter- RAIN WATER TANK OF STUDENT HOSTEL Supply, Installation, Testing and Commissioning of Self Cleansing Hydraulic Filter with electrical actuation and disinfection treatment by means of ultraviolet lamps having S.S.316 LBody with the following details GENERAL DATA Maximum flow (m3/h): 15; Inlet/Outlet diameter: 80 mm (3"); Maximum/minimum working pressure: 10 Bar / 3 Bar; Fluid maximum temperature: 40° C; Filtration degrees: 25 microns; Maximum Inlet water TSS: up to 50 ppm Backwash cycle time: 15 - 20 seconds, Backwashing flow (m3/h): 9, ELECTRICAL DATA Rated operation voltage: 415 Volts AC 50 Hz three phase; Control voltage: 24V DC; UV lamp : Low voltage amalgam, No. of Lamp : 4 nos, UVC : 50W, Dose : 400 J/m2, Lamp cleaning motor /intensity :24 V DC/ 3A Approved Makes: Gopani / Ion Exchange / Ionex	Nos	1.00			
8	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete including the tail pieces, tapers etc if required including all the accessories and testing etc to the satisfaction of Engineer In Charge. 25mm Ø	10	Nos.			
9	Providing, installation, testing and commissioning of glycerin filled Pressure gauge of 16KG pressure range with isolation valve and tap off pipe complete in all respect as per technical specification and as per direction of Engineer.	6	Nos.			
	GRAND TOTAL					-