



**Bahauddin Zakariya  
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The Treasurer,  
Bahauddin Zakariya University,  
Multan

Subject: **Purchase of equipment for Fluid Mechanics Lab. – Dept. of Mechanical Engg.**

Dear Sir,

The following laboratory items are needed to be purchased for the Department of Mechanical Engineering. It is requested that said items may be purchased as according to SOPs:

Sr. No.	Item	Specifications
1.	High quality Peristaltic pump for different pump head	Type: Circulating Peristaltic Pump Max. Head:0.2 m, Max. Flow Rate:380L/m
2.	Digital Water Flow Meter 3/4"	Size: 3/4" (DN20), End Connection: Male Thread Unit of measure: LPM (Litre Per Minute)
3.	Water Meter 3/4"	Size: 3/4" (DN20) Unit of measure: LPM (Litre Per Minute) End Connection: Male Thread
4.	Water level controller (Relay Unit)	Liquid level control relay (analog) Micro Max. Electronic Dimensions: 53x75x98 mm
5.	Fully Automatic Water Level Controller with Dry Run Protection	Single Phase, Anti corrosion Stainless sensor, Contact Capacity: 30 ampere, START, STOP, AUTO, MANUAL Switch Tank Water Level Indication, Pump ON Indication
6.	Automatic Water Level Controller / Water Pump Controller	Working voltage: AC/DC12V Output capacity: 10A, Output type: relay output Control type: full automatic Size: 6x3.8cm/2.36x1.50inch Installation: M3 screw hole Requirement: To stop / add water automatically when the level is higher than the upper line

7.	Digital Time Relay, 240 V	Voltage: 240 V, Frequency: 50/60 Hz Operating voltage range: 85 ~ 110% Reset time: Max 0.1S, Power consumption: Approx.2.5VA
8.	Resun air pump oxygen booster air pump	Type: Aquariums & Accessories Material: metal, Volume: 38L Volt./Freq: 220V/50Hz, Air Flow: 38L/min, Pressure: 0.02Mpa, Function: Air Pump Features: Powerful air pressure and air flow Overall dimensions: 180x95x115mm
9.	Digital Overhead Stirrer Mixer Laboratory / Magnetic Stirrer on digital weighing Machine	Range of Spindle Speed: 100 – 2500 r.p.m Max. Loading Capacity: 20 L
10.	Automatic chemical dosing pump for water treatment plant	Low Pressure:8.2-1.8bar, Flow:0.48-15.2L/H Structure: Diaphragm Pump, Usage: Water Power: Electric, 12-30W, Material: PP/PVDF Theory: Electromagnetic Pump
11.	Portable Electrical In-Line Conductivity Meter	Measurement range: 0-999us/cm Accuracy: $\pm 2.0\%$ FS, RH: <95% Working Temperature: 0-50°C, ATC: 0-50°C
12.	Solar DC Water submersible Pump 12v	Material: ABS Voltage: 12V DC, Max Flow Rate: 10 L/Min Power: 8W, Maximum Rated Current: 1.2A Max Water Head: 5M
Purchase may be done on <b>Turnkey Basis</b>		

It is requested that the above mentioned items may kindly be purchased on urgent basis please. The charges may be met from the head of "Lab Equipment" (20100003).

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Dr. Farrukh Arsalan Siddiqui

CHAIRMAN  
Department of Mechanical Engineering  
Bahauddin Zakariya University,  
Multan.