

To  
The Director  
Research and Development Cell  
Patna University, Patna – 800005

Through: Head, Department of Geology, Patna University, Patna

**Subject:** Regarding approval for inviting quotations for the minor research project

Respected Sir,

This is regarding the minor research project entitled "Assessment of Wetland loss and their Geo Environmental status in parts of Patna district" sanctioned by Patna University with sanction letter no. 001/R&DC/RP/PU/Sanction dated 26/08/2023 (serial no. 2).

Sir, for the same, I request you to kindly grant me the permission to invite the quotations for purchase of equipments and consumables (list attached). I will always be thankful to you.

Best regards,

*Sayema Jamal*  
Dr. Sayema Jamal  
(Principal Investigator)  
Assistant Professor  
Department of Geology  
Patna University, Patna

*Forwarded*  
*[Signature]*  
*12/3/25*

*PI may proceed to invite  
quotations for purchase of  
equipments.*

*[Signature]*  
*17/08/2025*

**List of Equipments and Consumables**  
for the minor research project entitled with "Assessment of Wetland loss and their Geo  
Environmental status in parts of Patna district"

S. No.	Equipments/ Consumables	Specifications	No. of unit required
<b>Equipments</b>			
1.	Dissolved oxygen meter	Waterproof Portable Dissolved Oxygen and BOD meter, 4m Cable Specifications: Dissolved Oxygen Measurement Type Polarographic Dissolved Oxygen Range 0.00 to 50.00 ppm (mg/L); 0.0 to 600.0% saturation Dissolved Oxygen Resolution 0.01 ppm (mg/L); 0.1% saturation Dissolved Oxygen Accuracy $\pm 1.5\%$ of reading $\pm 1$ digit Dissolved Oxygen Calibration automatic one or two point at 100% saturation (8.26 mg/L) and 0%	1
<b>Consumables</b>			
2.	Van Veen Grab Sampler	Grab sampler to collect surface sediment samples in the wetlands. Made of AISI stainless steel. 5 kg sediment.  <b>Specifications</b> Maximum sample depth- surface to 30 m Sampling volume (maximum)- 0.5 - 12 l Sample specification- sediment Type of sample - Loose material	1
3.	Storage Vials	Tarson Sediment storage vials are required for storing and analyzing sediment samples – 1 ml	1 box (500 pieces)
4.	Plastic zip lock bags	Sediment samples are required to be collected and stored in plastic LDPE zip lock bags which should be resealable, size 4x6 size 5x8 size 9x13	500 pieces 500 pieces 100 pieces
5.	PP Plastic Water bottles And carboy wide mouth	To collect and store water samples in wetlands Plastic bottles PP narrow mouth water bottles 500 ml. Carboy with stop cock wide mouth LDPE -5 litre	50 bottles  1
6.	Chemicals	HCL -lab grade	2 bottles each

*Sayone Panat*

*12/18/25*

		HNO <sub>3</sub> -lab grade	2
		NaOH -Lab grade	2
		H <sub>2</sub> O <sub>2</sub> -Lab grade	2
		Sodium Hexa Meta Phosphate- Lab grade	2
		Formaldehyde -lab grade	2
7.	Micropaleontological slides and Picking trays	24 chambered	5 box (250 slides)
8.	Micropaleontological Sieves	Micropaleontological sieve set of Size >63, large diameter Size >125, small sieves Size >250, small sieves Size >350, small sieves	2 1 1 1

*Jayene Janel*

