

ENVIRONMENTAL LAB
Department of Geography and Environmental Studies
University of Chittagong

The Lab is equipped with facilities for the analysis of both soil and water sample. For fine-grained analyses of soils and sediments, the Lab utilizes both the hydrometer and pipette methods for particle size analysis. The Lab possesses one high-grade oven, a de-ionizer, a Mettler self-taring scale, an analytical balance for precise weighing. For chemical analyses, the Lab possesses equipment for soil and water pH measurements, specific conductivity and salinity measurements, and a muffle furnace for organic matter analyses of soils. The lab is equipped with two Microscopes, Digital Weight Meter, Advance Water Electric Kit Microscope, Laboratory Oven, Fume Chamber, Sieve, Hydrometer, Salinity meter, Noise Meter, pH meter, DO meter, Salinity meter and Multi-parameter etc. A significant stock of chemical is available in the lab for chemical and environmental analysis.

Stock List of Environmental lab as on 24.01.2016

SL.	Item	Stock	Remarks
A			
	Acetic Anhydride	1 +1 +1 Lit	†j†fj D†V †M†Q
	Acetic Acid	2.5+2 Lit	†j†fj D†V †M†Q
	Acetum Aecidium	2+2 Lit	†j†fj D†V †M†Q
	Acetic Anhydride	1 Lit	†j†fj D†V †M†Q
	Acid Chlothydrade	2 Lit	†j†fj D†V †M†Q
	Alcohol	1 Lit	†j†fj D†V †M†Q
	Ammonia Solution	2 +2 +2.5 Lit	†j†fj D†V †M†Q
	Ammonia Solution 25%	2.5 +2.5+2+2 Lit	†j†fj D†V †M†Q
	Acetic Acid	300 ml	†j†fj D†V †M†Q
	Ammonium Oxalate	500 gm	cÖvq †kl
	Ammonium Chloride	300+200+300+300+500+500 gm	
	Ammonium Acetate	500gm	
	Altitronic Traveler	1 pc	
	Anti cutter	2 pc	
	Aluminum Foil	5 packet	1 Uv Av†Q
	Auger	3 Set	
	Ammonium Dehydrogen Phosphate	500gm	200 MÖvg
B			
	Balance Battery (9 volt)	10 Pcs	
	Bhutanol	2.5 Lit	†j†fj D†V †M†Q
	Boric Powder		
	Boric Acid	200gm	100 MÖvg
	Binocular	2 pc	
	BOD Bottle	10+6 pc	
	Brush	12 pc	
	Balance	2 pc	
	Blender	1 pc	
	Barometer	1 pc	
	Beaker Bottle (Sample Bottle)	1 lit	12 pc
		250 ml	34 pc
		100 ml	24 pc
		50 ml	60 pc

	Burette	50 ml	13 pc	
		25 ml	9 pc	
		25 ml	12 pc	
	Bolometric Flask	500 ml	12 pc	
		250 ml	12 pc	
		100 ml	24 pc	
		25 ml	24 pc	
	Beaker	1000 ml	12 pc	
		500 ml	12 pc	
		100 ml	48 pc	
		50 ml	36 pc	
		25 ml	36 pc	
		10 ml	36 pc	
C				
	Carbon Tetrachloride	2 Lit		†j†fj D†V †M†Q
	Chloroform Extra Pure	2.5 Lit		
	Canadian Balsam	250ml		
	Calcium Carbonate (CaCO ₃)	300+500+500+ 500+500gm		2 †KwR
	Copper (11) Sulfate	500gm		
	Crystal Violet	100 gm		
	China Mud Cup (Different Size)	50 pc		
	Centrifuge machine	4 pc		
	Cylinder	1000 ml	3+2Pcs	wKQz b6 n†q†Q Z†e bv wKb†jI Pj†e
		500 ml	6 pc	
		250 ml	6 pc	
		100 ml	12 pc	
		50 ml	24 pc	
		25 ml	24 pc	
		10 ml	24 pc	
		5 ml	24 pc	
	Conical Flask	1000 ml	12 pc	
		500 ml	12 pc	
		250 ml	36 pc	
		100 ml	48 pc	
		50 ml	36 pc	
D				
	D.P.X. Mount ant	250 ml		
	Di-potassium hydrogen Orthophosphate	500gm		
	Digital Thermometer	3+1 Pcs		
	DO Meter	1 pc		
	Digital Scale	1 pc		
	Desicator	4 pc		
	Distil water Machine	1 pc		
E				
	EDTA Sodium Salt	500+ 100 gm		300 MÖvg
	Ethanol	1 + 2 Lit		†j†fj D†V †M†Q
	Ethanol Absolute	2 Lit		†j†fj D†V †M†Q
	Eerochrome Black T	200+25+25+50+50gm		
	EDTA	300gm		
	Ethylenedinitrillotetna acetic acid	100+500 gm		
	Eriochrome Black T	100 gm		
F				
	Formaldehyde Solution	2+2.5+2.5+2+2 Lit		
	Ferrous Sulphate (Fe ₂ So ₄)	1000 +500 ml		500 wg.wj. 18 wcm
	Funnel	24 pc		
	Filter Paper	2 Box		

G			
	GPS (handy)	07 Pcs	
	Glycerol	2.5 Lit	
	GPS	7 pc	
H			
	Hand Gloves (industrial)	10+10 Pair	16 †Rvov
	Hand Gloves (Lab)	20 Pair	
	Hydrochloric Acid	2 +2 +2+2.5 Lit	bó
	Hydrogen Peroxide (H2O2)	2 +3+2.5 +2 Lit+ 500ml	2 wj.
	Hydrogen Chloride (HCl)	2 Lit	bó
	Hydrofluoric Acid	1 Lit	bó
		2.5 +2.5 +2 + 2 Lit	
	Hydrometer Soil	4 Pcs	
	Hammer with Cup smashing soil	1 pc	
	Heater	1 pc	
I			
	Iron (11) Sulfate	500gm	200 MÖvg
K			
	Knife	7 pc	
	Kettle	1 pc	bó
M			
	Magnesium Chloride	500gm	
	Magnesium Chloride	300gm	
	Manganese (11) Sulfate	100+ 500 gm	
	Manganese Sulfate	500gm	200 MÖvg
	Methyl Orange	200+50+50+25 gm	
	Methyl Red Indicator	25gm	
	Methyl Red PH Indicator	25+25gm	
	Methyl Red	25gm	
	Murexide P	5+5+5+5+5gm	
	Masking Tape	8 Roll	
	Mussel Color Chart		
	Magnifying Glass	2 pc	
	Multi Plug	2 pc	
	Microscope	5 pc	
	Mercuric Sulphate	100 gm	
N			
	Nitric Acid (HNO3-65%)	3 Lit	bó
	N-Hexanreinst	1 + 2 Lit	
O			
	Oven	1 pc	
P			
	Potassium Chromate	250 ml	‡kl
	Potassium Chromate	500+300+500+500 gm	500 MÖvg
	Potassium dichromate	500gm+500gm	‡kl
	Potassium Iodide	200+500 +100 gm	
	Potassium Hydroxide	500+300+300+500+500+500 gm	2 †KwR
	Potassium Sulfate	500gm	‡kl
	PH Meter	4 Pcs	1 Uv KvR K‡i bv
	Polythin Tube	1 Roll	

	Plastic pot	2 Dozen	
	Plastic Beaker	24 pc	
	Plastic Tape	1 pc	
	PH Meter	1 pc	2 Uv Av†Q
	Plain Meter	1 pc	
	Probes	1 pc	
	Poly Bag	Big	19 pc
		Small	200 pc
	Pipette	10 ml	12 pc
		5 ml	12 pc
		2 ml	12 pc
		1 ml	12 pc
		25ml	12 pc
R			
	Rose Bengal GR	25+25+25 gm	‡kl
	Rose Bengal Technical	25gm	‡kl
	Rechargeable Battery	10 Pcs	‡kl
	Rocks	3 Packets	
S			
	Sulfuric Acid	1+1 Lit	
	Sodium Hypo chloride Solution	1 Lit	
	Sulpatersdune etwa 65%	1 Lit	
	Safranine	25gm	
	Sampling Bag (various Size)	500 Pcs	200 wcm
	Silicones Fluids	250 ml	‡kl
	Silica gel White	1.5 kg+500gm	1 †KwR
	Silica gel Blue	500+500gm	500 MÖvg
	Silver Nitrate	200+20+50+20+10+10gm	250 MÖvg
	Sodium Chloride	500+500+300 gm	800 MÖvg
	Sodium Hydroxide	300+500+500+500 gm	1 †KwR
	Sodium Carbonate	300 gm+1kg+500+500+500+500 gm	3 †KwR
	Sodium Polyphosphate	300+500+500 gm	800 MÖvg
	Sodium Hexametaphosphate	500+500gm+1kg	800 MÖvg
	Sodium Thiosulphate	1kg+500+500+500gm	2 †KwR
	Sodium Carbonate Power	1.2kg+500gm	1 †KwR
	Sodium Chloride	1kg+300+500+500gm+1kg	2 †KwR
	Starch Soluble	300+300+300+300+200gm	
	Soil Thermometer	13 pc	
	Soil Tester	1 pc	
	Sound Level Meter	1 pc	
	Sound Level Meter	2 pc	
	Saline	1 pc	
	Sib /Filter	57 pc	
	Stereoscope	1 pc	
	Steel Tape	2 pc	1 wcm
	Scissors	18 pc	
	Slide Cover	20+10+9 Box	30 e·
	Slide	8+4 Box	10 e·
	Scale Master (Digital plan measuring System)	1 pc	
	Sample Bottle Vial	300 pc	50 wcm
	Sodium Fluoride	500ml	100 wgwj.
	Sample Bottle Small Plastic Tube	200 pc	†evZj †kl
	Small Test Tube	300 pc	
	Stirring Padel	2	
T			
	Tetra Butanol	2+2 Lit	

	Thermometer (Soil)	13 Pcs	
	Titriplex 111	500+300+500 gm	
	Tri-Sodium Citrate Dehydration	500gm	100 MÖvg
	Thermometer	10 pc	
	Test Tube	100 pc	
	Test Tube Stand	7 pc	
W	Water Sampler	1 pc	
	Water Bath Electric	1 Pc	