

# Environmental laboratory

## of waste concern

Waste concern has established an environmental laboratory to analyze different parameters of soil water, waste water, organic fertilizer (compost) & plant materials. This laboratory is equipped with state of art equipments shown below

### Lab equipments



**Mini sound level Meter**  
-sound level measurement



**Lux meter**  
-Light level measurement



**Analytical Balance**  
-To weight sample



**Distilled water plant**  
-To prepare distill water



**Hot plate**  
-for heating



**Mechanical Top loading Balance**  
-To take weight



**Spectrophotometer**  
-Concentration & absorbency measurement  
-measurement of total nitrogen

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## Lab equipments



### Flame Photometer

-Determine the presence of Na, K, Ca, Li in PPM.



### Micro Kjeldahl Digestion & Distillation

-Total nitrogen determination  
-Distillation & digestion



### PH Meter

-pH measurement



### Dissolved Oxygen Meter

-Dissolved Oxygen(DO) measurement  
-Biological oxygen demand(BOD) measurement



### Electrical Oven, 28L, Binder

-Moisture content determination



### Distillation system with programming

-Determine the amount of total Nitrogen



### Dissolve Oxygen meter

-Dissolved Oxygen (DO) measurement  
-biological oxygen demand (BOD) measurement

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## Lab equipments



**COD meter**

-Determine chemical oxygen demand



**Turbidity meter**

-Measurement of turbidity

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### Test Facilities

Parameters	Soil	Organic fertilizer or compost	Plant material	Water	Air
PH	Yes	Yes	Yes	Yes	
Organic Carbon(C)	Yes	Yes	Yes	Yes	
Total Nitrogen(N <sub>2</sub> )	Yes	Yes	Yes	Yes	
Phosphorus (P)	Yes	Yes	Yes	Yes	
Potassium(K)	Yes	Yes	Yes	Yes	
Sulfur(S)	Yes	Yes	Yes	Yes	
Boron(B)	Yes	Yes	Yes	Yes	
Zinc(Zn)	Yes	Yes	Yes		
Sulfate Ion(SO <sub>4</sub> )				Yes	
Chloride Ion(cI <sup>-</sup> )				Yes	
Dissolved Oxygen (DO)				Yes	
Biological Oxygen demand(BOD)				Yes	
Chemical Oxygen demand(BOD)				Yes	
Chemical Oxygen demand(BOD)				Yes	
Turbidity				Yes	
Moisture content	Yes	Yes	Yes		
Noise level					Yes
Light level					Yes

equipments

Lab