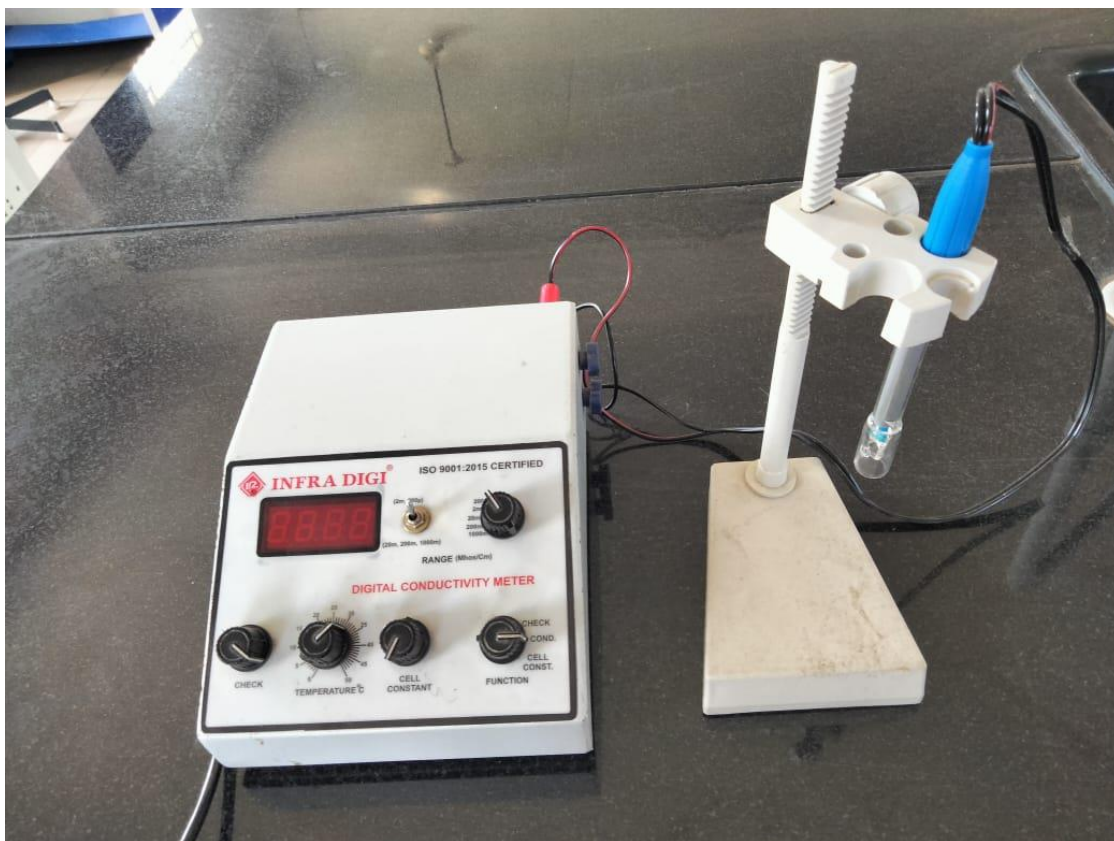


Soil Science Laboratory

1. Digital pH meter (Model: IR 501)
2. Digital EC meter (Model: IR 503)
3. Balance of capacity 15 kg
4. Balance upto 5 kg
5. Weighing balance (0.01 g)
6. Analytical balance (0.001gm)
7. Mechanical shaker
8. Sieve shaker
9. Soil Color chart



Digital pH meter (Model: IR 501)



Digital EC meter (Model: IR 503)



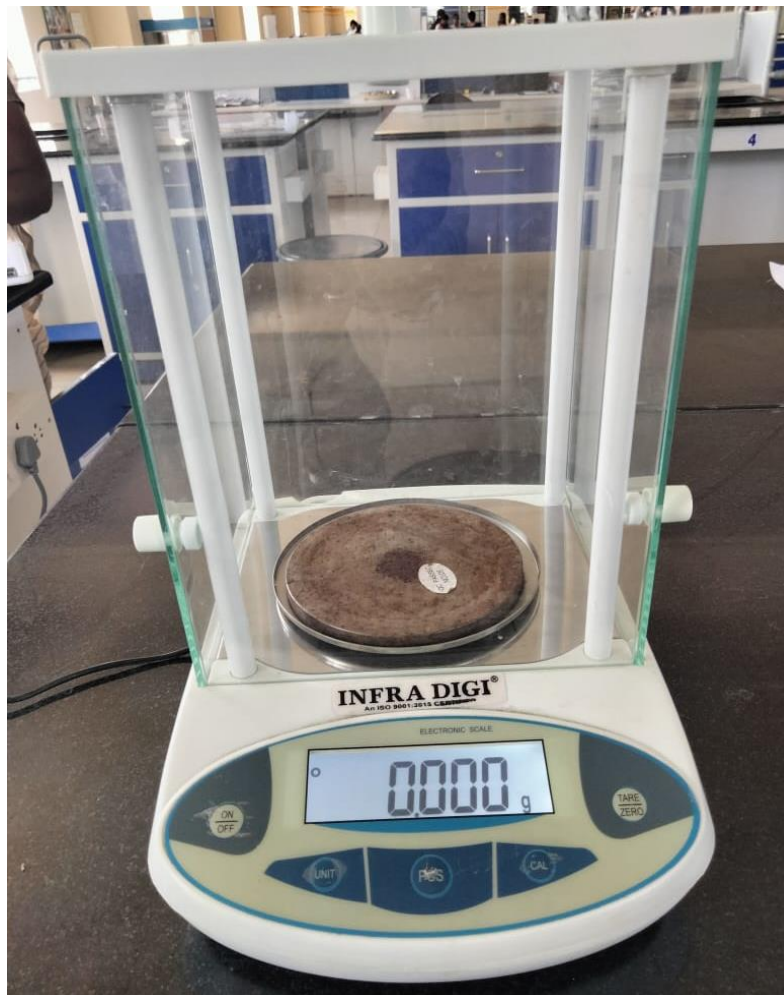
Balance of capacity 15 kg



Balance upto 5 kg



Weighing balance (0.01 g)



Analytical balance (0.001gm)



Mechanical shaker

SOIL COLOUR CHART

Color can be used as a clue to mineral content of a soil. Iron minerals, by far, provide the most and the greatest variety of pigments in earth and soil (see the following table).

Mineral : humus Formula : - Size : - Munsell : 10YR 2/1 Color : black	Mineral : todorokite Formula : MnO_2 Size : - Munsell : 10YR 2/1 Color : black	Mineral : pyrite Formula : FeS_2 Size : - Munsell : 10YR 2/1 Color : black (metallic)	Mineral : iron sulfide Formula : FeS Size : - Munsell : 10YR 2/1 Color : black	Mineral : ferrihydrite Formula : $Fe(OH)_3$ Size : - Munsell : 2.5YR 3/6 Color : dark red
Mineral : lepidocrocite-fine Formula : $FeOOH$ Size : (~0.1mm) Munsell : 2.5YR 4/6 Color : red	Mineral : hematite-fine Formula : Fe_2O_3 Size : (~0.1mm) Munsell : 10YR 4/8 Color : red	Mineral : maghemite Formula : - Size : - Munsell : 2.5YR 3/4 Color : -	Mineral : hematite-coarse Formula : Fe_2O_3 Size : (~0.1mm) Munsell : 5YR 3/6 Color : red	Mineral : gypsum Formula : $CaSO_{4x} 2H_2O$ Size : (~0.1mm) Munsell : 10YR 8/3 Color : very pale brown
Mineral : dolomite Formula : $CaMg(CO_3)_2$ Size : - Munsell : 10YR 8/2 Color : white	Mineral : calcite Formula : $CaCO_3$ Size : - Munsell : 10YR 8/2 Color : white	Mineral : jarosite Formula : $KFe_3(OH)_6(SO_4)_2$ Size : - Munsell : 5Y 6/4 Color : pale yellow	Mineral : quartz Formula : SiO_2 Size : - Munsell : 10YR 6/1 Color : light gray	Mineral : glauconite Formula : $K(Fe(OH)_2Si_2Al_4)(Al,Fe,Mg)O_{10}(OH)_2$ Munsell : 5Y 5/1 Color : dark gray
Mineral : lepidocrocite-coarse Formula : $FeOOH$ Size : (~0.5mm) Munsell : 5YR 5/8 Color : reddish-yellow	Mineral : akaganeite Formula : - Size : - Munsell : 7.5YR 6/6 Color : -	Mineral : goethite Formula : $FeOOH$ Size : (~0.2mm) Munsell : 7.5YR 5/6 Color : strong brown	Mineral : schwertmannite Formula : - Size : - Munsell : 10YR 7/8 Color : yellow	Mineral : schwertmannite Formula : $FeOOH$ Size : (1-2mm) Munsell : 10YR 8/6 Color : yellow

Soil Color chart



Sieve shaker