



M.S.SWAMINATHAN
SCHOOL OF
AGRICULTURE

ASAC 1101 (2-1-0)

FUNDAMENTALS OF SOIL SCIENCE

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PRACTICAL MANUAL



Shaping Lives... Empowering Communities...

MSSSoA

EX No.10

Date:

DETERMINATION OF SOIL COLOUR BY MUNSELL COLOUR CHART

Aim: To measure the colour of the soil using Munsell colour chart

Apparatus:

Munsell colour chart: Contains 175 colour combinations with notations for each colour point. The arrangement of the colours is according to the three basic components of colour – hue, value, chroma.

- a. **Hue** – Dominant spectral colour– Red, Yellow, Blue.
- b. **Value** –Relative brightness or darkness of colour. Ranges 0 (black) to 10 (white)
- c. **Chroma** – Relative purity of a colour. Ranges (0-20).

Principle:

Colour is visual impression created by the object which is carried by electromagnetic radiation. The wavelength of visible light extends from 0.3 to 0.75 μm .

Procedure:

1. Place the dry soil aggregate under the circles provided between coloured chips and match the colour.
2. Note down the respective hue given at the right hand corner of the chart, value given on the left hand corner of the chart and chroma given at the bottom of the chart.
3. Then moisten the aggregate with few drops of water and note down colour of the soil aggregate.

Result:

	Notation	Soil colour
Dry aggregate		
Wet aggregate		