

Soil and Water Analysis Report

Soil Properties

Soil Type: Black Cotton (Vertisol)

Texture: Clayey

Structure: Blocky

Color: Black

Depth: 30 cm

Chemical Properties

pH: 7.8

Electrical Conductivity (EC): 0.6 dS/m

Organic Carbon: 1.5 %

Nitrogen (N): 180 kg/ha

Phosphorus (P): 20 kg/ha

Potassium (K): 250 kg/ha

Micronutrients (mg/kg)

Iron (Fe): 45 mg/kg

Zinc (Zn): 1.8 mg/kg

Copper (Cu): 2.5 mg/kg

Manganese (Mn): 3.2 mg/kg

Water Properties (Well)

Color: Slightly turbid

Odor: Slightly salty

pH: 7.5

Temperature: 28 °C

Total Dissolved Solids (TDS): 500 mg/L

Turbidity: 15 NTU

Chemical Properties (mg/L)

Calcium (Ca): 100 mg/L

Magnesium (Mg): 60 mg/L

Sodium (Na): 75 mg/L

Potassium (K): 15 mg/L

Chloride (Cl): 120 mg/L

Sulphate (SO₄): 150 mg/L

Nitrate (NO₃): 5 mg/L

Fluoride (F): 0.8 mg/L

Iron (Fe): 0.5 mg/L

Manganese (Mn): 0.2 mg/L