

RayatShikshanSanstha's
RajarshiChhatrapatiShahu college Kolhapur.

Department of Chemistry

"Soil and Water analysis camp at Valivade, Tal- Karveer

Dist-Kolhapur".


Date: 20/05/2022

The Rajarshi Chhatrapati Shahu College Kolhapur Department of Chemistry successfully conducted a "Soil and water analysis camp at Valivade, Tal Karveer Dist-Kolhapur" On dated 18th May 2022. Our main objective behind this extension activity is to help the poor and needy Farmers for their soil and water analysis

Soil Survey is one of the important tools to assess the nutrient requirement for a crop/cropping sequence. This helps to economize on cost of fertilizers and also in increasing fertilizers use efficiency. There are 514 soil-testing laboratories in India with a capacity of about 6.5 million samples per annum. In order to provide soil-testing facilities to all 106 million farms holding in a reasonable period of time, the existing analyzing capacity of the soil testing program needs to be augmented almost 15-20 times.

The analysis of water will be done by testing different physicochemical parameter like pH, electrical conductivity (EC), total dissolved solids (TDS), dissolved oxygen (DO), salinity, Total alkalinity, hardness etc. These tests will be carried out using techniques like microprocessor based water analysis kit -172, spectrometer and titration.

From our department four faculties namely Dr. S.P. Pawar, Dr. K. V. Gaikwad, Mr..S. A .Shinde ,Mr.P.R.Birmule, Miss.S.P.Korane ,Miss.kopardeS. V. Miss. Bote P. P. Miss. Kamble P. S. and Two Students arranged this camp with an advanced instruments available in our chemistry Department. We have collected the soil and water samples from different areas of Valivade village. Finally we have analyzed Total 25 samples of Soil and Water with respect to following tests, Alkalinity, Salinity, Dissolved oxygen, Temperature, pH, Conductivity, TDS, Nutrient Element Like Na. Then after analysis we have prepared the report and Consult them about the use of Fertilizers and Water. A proper soil tests will help to ensure the application of enough fertilizer to meet the requirements of the crop while taking advantage of the nutrients already present in the soil and water.


Head
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Rajarshi Chh. Shahu College, Kolhapur

RAYAT SHIKSHAN SANSTHA'S
RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR
DEPARTMENT OF CHEMISTRY
SOIL AND WATER ANALYSIS-REPORT-2022


Name:

Date: 18/05/2022

Place:


Sr. No.	Properties	Measurement	Standard Values
1	pH/mV		0-14 pH
2	Nutrient elements i) N ii) Na iii) K iv) Ca		
3	Conductivity(mhos)		0.1 to 20 ppm(8.4ppm at 25 ⁰ c
4	Dissolved oxygen (DO) ppm		
5	Total Dissolved oxygen (TDS) mV		0.1 us to 100 ms
6	Salinity (ppt)		0.1 to 40 ppt
7	Temperature (⁰ c)		0 to 100 ⁰ c
8	Turbidity		0 to n100 NTU

Requirement: Buffer solution of pH (7,4,9.2) , Standard Conductivity Cell


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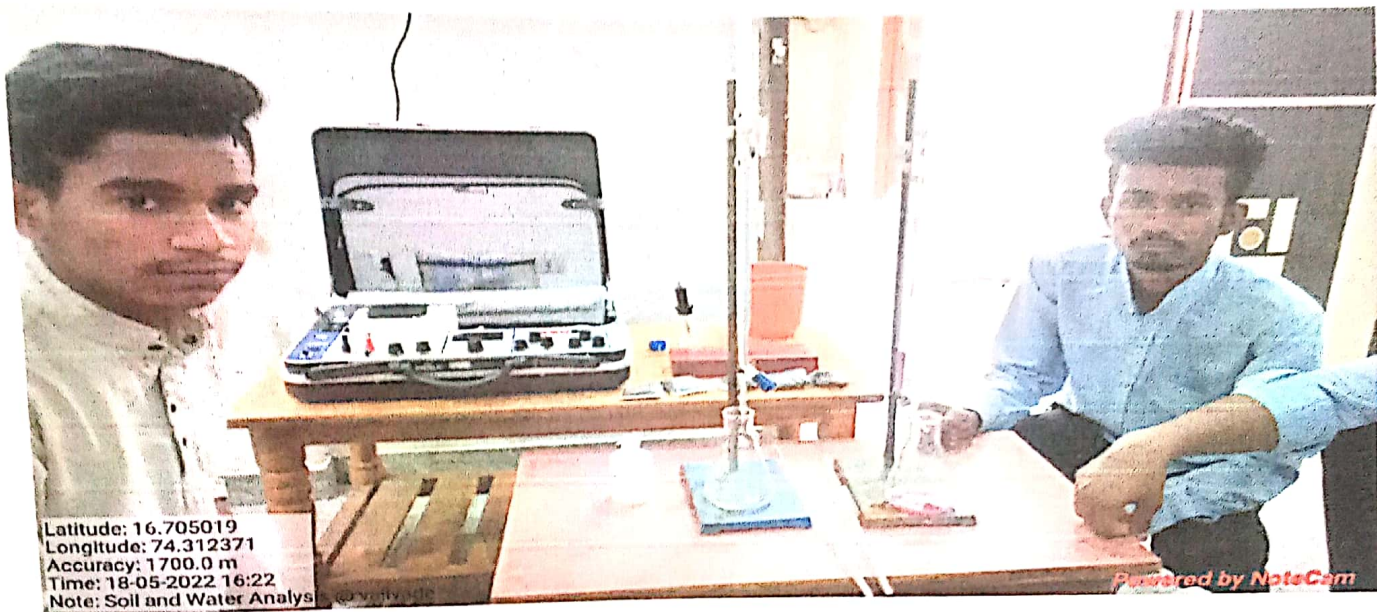
Sample Collection at Valivade Village.


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