



Tara Government College Sangareddy (Autonomous)

An ISO 9001: 2015 certified college

Department of Botany



CERTIFICATE COURSE IN SOIL TESTING

The MoU has been done between the department of Botany and Soil Testing Lab, Sangareddy, for two years where Smt. Haritha Madam, Assistant Director of Agriculture has signed the agreement and agreed on the importance and the usefulness of establishing scientific and academic links.

The objective of this MoU is to train the students and to facilitate the testing of the samples collected randomly by the students. Nearly 50-60 students have been given the training in the month of December- 2021 in two batches. The analysis was done for the samples collected by the students and the report was given by the lab authorities. Based on the report the levels of Macro and Micro nutrients have been identified. The students visited the farmers and recommended the use of Biofertilisers prepared by the Department.

A certificate course has been introduced in soil testing, the classes were taken by the faculty in the Botany Dept. and an examination has also been conducted and the certificate has been given to the students.



Memorandum of Understanding (MoU)
Between
DEPT OF BOTANY,
TARA GOVERNMENT COLLEGE (A), SANGAREDDY
&
SOIL TESTING LAB, SANGAREDDY




Soil Testing Lab, Sangareddy and Department of Botany, Tara Government College, Sangareddy agree on the importance and the usefulness of establishing scientific and academic links, in order to assert and to consolidate the ties of friendship between two departments. The subject to mutual consent, the area of cooperation will include the following aspects;

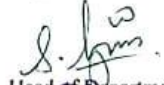
1. The objective of this MoU is to facilitate the testing of samples collected by the students for macro and micro nutrient analysis.
2. Participation in seminars and workshops.
3. Extension Lectures and Training.
4. Certificate programs and projects for skill development.
5. Coordination in creating awareness among the farmers for the significance of soil testing to have a better yield.
6. Quality enhancement initiatives.

TERMS OF IMPLEMENTATION:

1. Details of the implementation of any particular exchange resulting from this MoU shall be negotiated between the two organizations.
2. This MoU becomes effective on the day it is signed and remains valid for two years.
3. This MoU will be renewed after two years upon the consent of both organizations.
4. Any amendment or modification to the present text shall be submitted for review to the competent authorities, and shall not be binding unless reduced to writing and signed by both the organizations.
5. This MoU does not bind either of the two parties legally or financially. Its aim is to promote relations that will mutually benefit each organization, this being the primary aim of academic collaboration.

In witness where of, the organizations here to have offered their signatures.


PRINCIPAL
Tara Govt College
Sangareddy
SANGAREDDY-502001
Date: 16/06/21


Head of Department,
Department of Botany
Tara Government College (A)
Sangareddy-502 001, Telangana


Asst Director of Agriculture
Soil Testing Lab
Assistant Director of Agriculture
Soil Testing Laboratory
SANGAREDDY-502 001



Asst. Director- Ms. Haritha Madam



Training the Students



Training the Students



Soil Testing Lab, Sangareddy



Principal Ms. M.Praveena Madam addressing the Students



Certificates given to the students



Tara Government College Sangareddy

(Autonomous)

Accredited with "B" by NAAC

An ISO 9001 : 2015 certified college



Certificate of Appreciation

This is to certify that Mr. /Ms. _____ of Tara Government College Sangareddy (A), has successfully completed the **"Certificate Course in Soil Testing"** that was conducted at Tara Government College Sangareddy (A) from 2nd December 2021 to 23rd December 2021. The course was organized by the **Department of Botany**, Tara Government College, Sangareddy (A) in collaboration with **Soil Testing Lab, Sangareddy**.

This certificate of appreciation is bestowed on the student for his / her participation and successful completion of the certificate course.


Co-ordinator & In charge
Dept. of Botany


Co-ordinators


Principal

S.NO	CONTENTS	PG.NO.
1	INTRODUCTION SOIL HEALTH MANAGEMENT IMPORTANCE AND OBJECTIVES	
2	IMPORTANCE OF SOIL TESTING	
3	SOIL SAMPLING METHODS AND PROCEDURES	
4	SOIL PARAMETERES	
5	DETERMINATION OF SOIL COLOUR AND TEXTURE BY FIELD METHOD	
6	DETERMINATION OF SOIL REACTION	
7	DETERMINATION OF ELECTRONIC CONDUCTIVITY	
8	DETERMINATION OF ORGANIC CARBON	
9	DETERMINATION OF AVAILABLE NITROGEN	
10	DETERMINATION OF AVAILABLE PHOSPHORUS	
11	DETERMINATION OF AVAILABLE POTASSIUM	
12	DETERMINATION OF BORON	
13	DETERMINATION OF SULPHUR	
14	DETERMINATION OF MICRO NUTRIENTS	
15	INTERPRETATION OF SOIL TEST ^{DATA} Ranges & Reclamations	

TARA GOVERNMENT COLLEGE (A), SANGAREDDY

SOIL TESTING-EXAMINATION

25 MARKS-1hr

1. Write about the soil sampling and also about the steps in soil testing? **5 marks**

Short Answers= 2marks each

2. Define labeling?
3. At what time you have to collect the soil samples?
4. Write a short note on soil texture?
5. What is the pH for acidic and basic soils?
6. State the principle of estimation of Gypsum required for alkali soil?
7. Write a short note on a wet digestion method?
8. What is the major nutrient deficiencies in soil and what are the symptoms seen on plants?
9. What is the percentage of Nitrogen in the atmosphere? How does the fixation takes place?
10. Define the soil?
v. Draw a diagram of Soil Profile