

Best Practice ‘Lab to Land work culture’

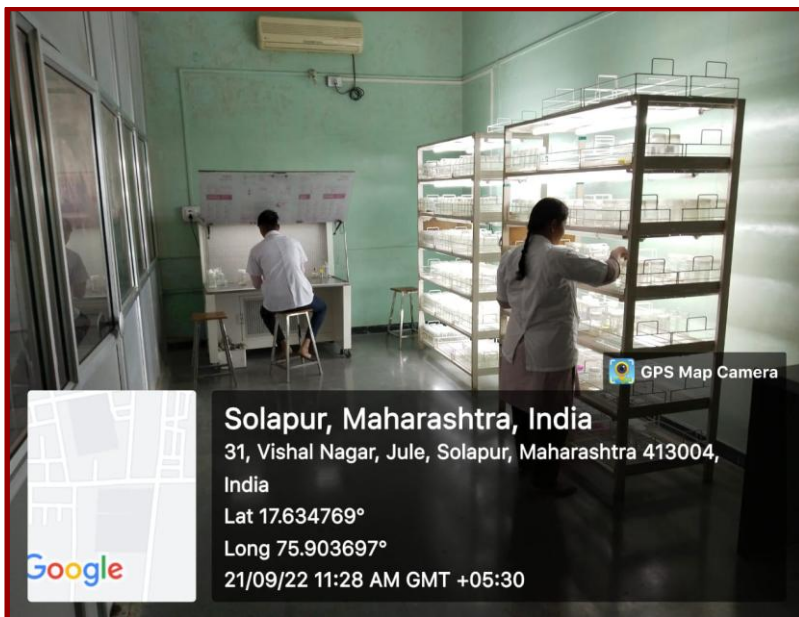
Students get the theoretical knowledge in curriculum but sometimes they lack the field study. The actual field study can help to flourish the subject content in students. By considering this in our college we have established lab to land work culture, where students do actual field work and correlate the theoretical concept with practical knowledge. It is the need of present scenario at global level that students should be inculcated with entrepreneurship knowledge. The actual field work will help students to achieve entrepreneurship ability.

The Practice

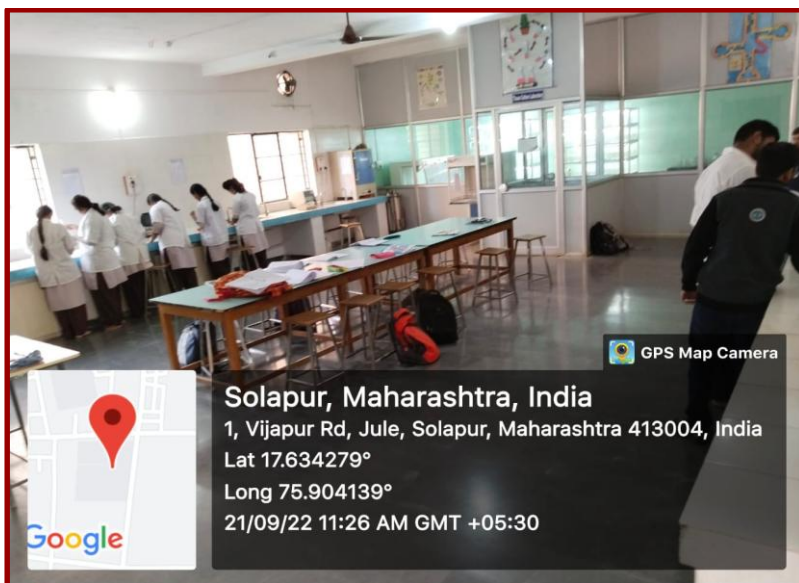
We have identified the interested students by communicating with them. Then we have created three groups and provided the following tasks as field study.

- 1) Hydroponics – one group of students have worked on a hydroponics system to grow plants without soil. For this students used waste pipes to create hydroponic unit. They have set trial and error work to get proper growth of plants with minimal nutrient requirements.
- 2) Fermented Organic acid – second group of students have worked on production of organic acid by fermentation of fruit waste. This organic acid is used for spraying on plants and shows enhanced growth while also contributing the pest control. Thus this organic acid can be optimized in future up to commercial level by these students.
- 3) Vermicomposting: another group of students had worked on production of vermicompost and had successful production of vermicompost. This vermicompost is used for gardening in college campus showed positive result.

LABORATORIES IN THE COLLEGE



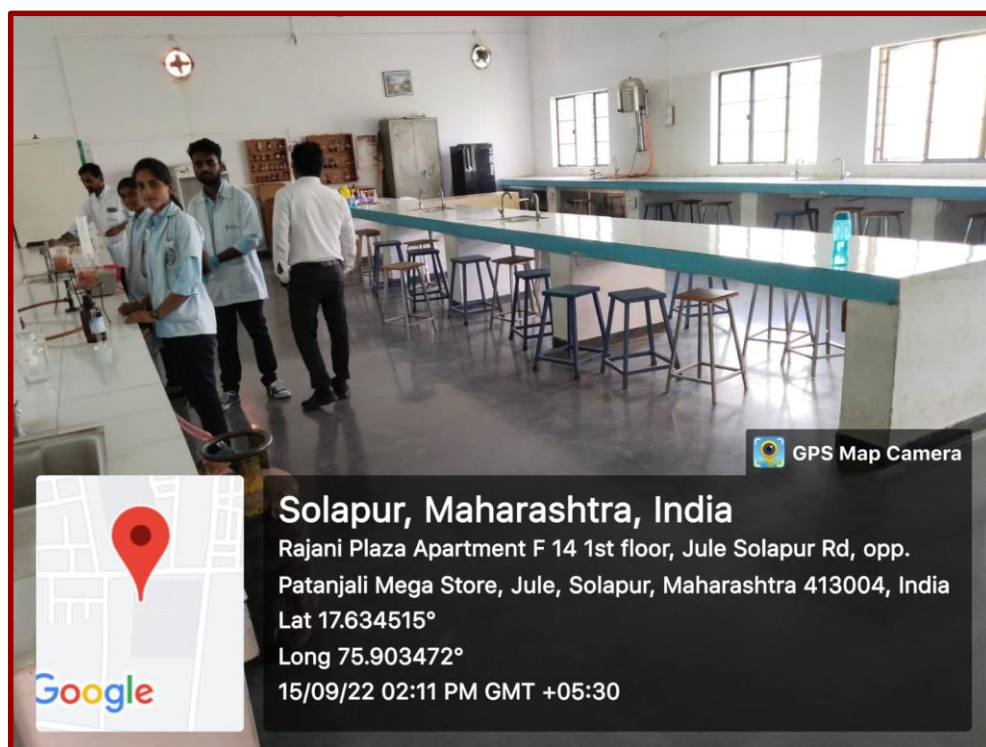
Plant Tissue Culture Laboratory



Biotechnology Laboratory



Biochemistry laboratory



Bioscience Laboratory



Common Instrumentation Laboratory

HYDROPONICS – CULTIVATION OF PLANTS WITHOUT SOIL



Plants grown in hydroponics system



Well-developed shoot, leaves and roots

FROM WASTE TO BEST

Production of Bio-based Agriproducts from fruit waste

VGS-ICRC supported project: Production of Bio-based Agriproducts from fruit waste material by fermentation process



Fruit Waste as a raw material



Natural Drying of the raw material



Drying of raw material in laboratory

Plant growth before treatment



Tomato

Brinjal

Chili

Cabbage

Plant growth after treatment



Tomato

Brinjal

Chili

Cabbage



Green house

ANALAB

26, Siddheshwar Shopping Center, Panch katta, Solapur - 413 001

vice : Specialized Biochemistry; Soil, leaves, fertilizers, pesticides; Animal Feeds; Water & waste water
Chemicals; Ores, Minerals, Activated Carbon; Food, Herbals & Neutraceuticals; Microbiological
Service: Agriculture Fertilizer Management; Waste water treatment studies

5 P.M.

E-mail: analab@rediffmail.com

Ph. : 0217-2728257,

PARTY: SHRI SUNIL BAKE

PLACE: SOLAPUR

SAMPLE: LIQUID

SAMPLE I.D: FERMENTED LIQUID

(Sample supplied by the Party and not drawn by us)

RESULT OF ANALYSIS

Sr.No	Parameters	Result
1.	Nitrogen as N	9300 ppm
2.	Phosphorus as P	228 ppm
3.	Potash as K	680 ppm
4.	Calcium as Ca	514 ppm
5.	Sulphur as S	18 ppm
6.	Magnesium as Mg	85 ppm
7.	Iron as Fe	18 ppm
8.	Manganese as Mn	7.4 ppm
9.	Zinc as Zn	16.2 ppm
10.	Boron as B	17 ppm
11.	Microbiological Count	1.7 x 10 ⁷ cfu/gm

May 12, 2022

For, ANALAB



**Analysis report of fermented liquid from Analab,
Solapur**

VERMICOMPOST (2021-22)

VGS-ICRC supported project: Study of effect of organic vermicompost with enriched microbial consortium on growth of *Capsicum annum L.* (Green Chilli) under guidance of Dr. R.S. Dhanave



Research students with the Biovermicompost product



Students explaining the process and applications of the research product (Vermicompost) to the Hon. Mrs. Dipali Dhate (D.C.P. Solapur city), Hon. Shri Dipak Arway (A.C.P., Traffic Dept. Solapur City), Shri R. V. Shividare (Chairman D.S.T.S.M, Solapur) & Shri Bhimashankar Shete (Trustee, D.S.T.S.M., Solapur) on 18 Feb, 2022



Effect of biovermicompost product on root and shoot growth of plant leading to higher growth

Project - Commercial production of Biofertilizers

A
Training Report Of
Summer Training At

**Shree Siddheshwar Co-operative Sugar
factory Ltd. Kumthe, Solapur.**

On
Commercial Production of Biofertilizers

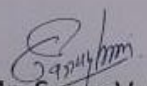
On Submitted
In the partial fulfillment of
B.Sc. Biotechnology

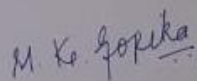
**V. G. Shivdare College of Arts, Commerce and Science,
Solapur.**

CERTIFICATE

This is to certify that, training report entitled, "Commercial production of biofertilizer" submitted by Miss. Varsha C. Konapure , Miss. Neha N. Adatrao, Miss. Prajakta D. Lokare, Miss. Vaishnavi G. Fulari, Miss. Pooja B. Kaldate, Mr. Nikhil G. Kulkarni and Mr. Shivashankar S. Chitali of B.Sc. Biotechnology has completed the training during summer vacation.

The training is completed under the guidance of Mr. Sarur V.M. & Mr. Jagtap U. Y.


Mr. Sarur V. M.

 23/2/19
Mrs. Gopika Manjunath

**Certificate of project done under the guidance of
Mr. Sarur. V.M and Mr. Jagtap U.Y, Shri. Siddheshwar Co-
operative Sugar factory ltd. Solapur**