

Shri Sarda Education Society (Trust)'s
(A Linguistic Minority Education Institute)
**SMT RADHABAI SARDA ARTS, COMMERCE &
SCIENCE COLLEGE**
Anjangaon Surji 444705, Dist. Amravati

Department of Chemistry

AY 2023-24



Project Work On

**SOCIAL AWARENESS OF
PESTICIDES**

Project Work On

SOCIAL AWARENESS OF PESTICIDES

Contents

Sr No	Particular	Page no.
01	Objectives of Activities	02
02	Notice to the students	03
03	Attendance	04
04	Report of the activity	05
05	Outcome of the activity	06
06	Specimen project reports submitted by students along with geotag photos	07 onwards

Objectives of the activity

Synthetic pesticides are important agricultural tools that increase crop yield and help feed the world's growing population. These products are also highly regulated to balance benefits and potential environmental and human risks. Public perception of pesticide use, safety, and regulation is an important topic necessitating discussion across a variety of stakeholders from lay consumers to regulatory agencies since attitudes toward this subject could differ markedly. Individuals and organizations can perceive the same message(s) about pesticides differently due to prior differences in technical knowledge, perceptions, attitudes, and individual or group circumstances. Hence, the department of Chemistry assigned the project work pertaining to “Social awareness of pesticides” to the students of BSc III with following objectives:

1. To inform students about pesticides and their effects on health and the environment.
2. To educate them about the role of students in pesticide minimization.
3. To encourage students to share knowledge about pesticides with their families.



HEAD

Department of Chemistry
Smt. Radhabai Sarda Arts, Commerce
& Science College Anjangaon Surji

Head of the department



प्राचार्य
PRINCIPAL

SMT. RADHABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJI

Principal

Shri Sarda Education Society's
(A linguistic Minority Educational Institute)
Smt Radhabai Sarda Arts, Commerce and Science College Anjagaon Surji
(NAAC accredited with grade 'A' CGPA 3.21)

Department of Chemistry
AY 2023-2024

NOTICE

All the students of BSc III Sem V are informed that department of Chemistry is going to conduct a project work on "Social awareness of pesticides" for this semester. All the students are directed to be present in seminar hall for further detailed instructions.

Venue: Science Building Seminar Hall

Date & Time: 01.10.2023 at 02:00 pm


HEAD
Department of Chemistry
Smt. Radhabai Sarda Arts, Commerce
& Science College Anjagaon Surji

Head of the department


प्राचार्य
PRINCIPAL
SMT. RADHABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJI

Principal

Attendance

SMT RADHABAI SARDA ARTS, COMMERCE & SCIENCE COLLEGE,
ANJANGAON SURJI, DIST. -AMRAVATI

AY 2023-2024
Dept of Chemistry

Class: BSc III PCM (Sem V)

Date: 10.10.2023

Record of Project report Submission

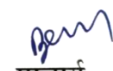
Sr. No.	Name of the student	Title of the project	Marks obtained (Out of 04)	Signature of student
01	Achal Pratap Potdukhe	Social awareness of pesticides	04	A. Potdukhe
02	Achal Rajendra Patil	Social awareness of pesticides	04	Patil
03	Arati Keshav Kale	Social awareness of pesticides	04	A. K. Kale
04	Arpita Gajanan Raut	Social awareness of pesticides	04	Arpita Raut
05	Dhanashri Ashok Muratkar	Social awareness of pesticides	04	Dhanashri
06	Gauri Chandrashekhar Muratkar	Social awareness of pesticides	04	Gauri Muratkar
07	Gauri Gajanan Mokalkar	Social awareness of pesticides	04	Gauri
08	Janhavi Sanjay Teware	Social awareness of pesticides	04	Janhavi
09	Khushi Satish Katore	Social awareness of pesticides	04	Khushi
10	Madiha Fatema Mohd. Irfanuddin	Social awareness of pesticides	04	Madiha
11	Mugdha Prashant Deshmukh	Social awareness of pesticides	04	Mugdha
12	Neha Sanjayrao Makode	Social awareness of pesticides	04	Neha Makode
13	Nikita Dilip Satpute	Social awareness of pesticides	04	Nikita Satpute
14	Prachi Sureshrao Gomashe	Social awareness of pesticides	04	Prachi Gomashe
15	Rutika Gajanan Age	Social awareness of pesticides	04	Rutika
16	Sanket Ashok Bobade	Social awareness of pesticides	04	Sanket
17	Shankar Haridas Dharme	Social awareness of pesticides	04	Shankar
18	Shital Arun Mahajan	Social awareness of pesticides	04	Shital Mahajan
19	Shraddha Dnyaneshwar Khalokar	Social awareness of pesticides	04	Shraddha
20	Shrutika Surendra Bobade	Social awareness of pesticides	04	Shrutika Bobade
21	Vedika Dilip Tayade	Social awareness of pesticides	04	V. D. Tayade
22	Vishal Sunil Thakare	Social awareness of pesticides	04	Vishal
23	Astha Ramdev Ingle	Social awareness of pesticides	04	Astha
24				
25				


Teacher In-charge
BSc III (PCM)
Dr. Satish P. Mardikar
Assistant Professor
Department of Chemistry
Smt. Radhabai Sarda Arts,
Commerce & Science College,
Anjangaon Surji


HOD, Chemistry
HEAD
Department of Chemistry
Smt. Radhabai Sarda Arts, Commerce
& Science College Anjangaon Surji


HEAD
Department of Chemistry
Smt. Radhabai Sarda Arts, Commerce
& Science College Anjangaon Surji

Head of the department


प्राचार्य
PRINCIPAL
SMT. RADHABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJI
Principal

Report of the activity

The agricultural sector is one of the most important sectors globally and is the major contributor to the food industries. However, only 25% of the total agricultural land is cultivated organically; the rest uses applied pesticides. Globally, the use of pesticides in paddy cultivation contributes to 15% of the total pesticide use in agricultural activities. Here in anjangaon, most of the farmers are using synthetic pesticides for farming. To maximize profits via efficient and productive techniques, modern agriculture practices have affected the environment and human health, especially chemical, combined agricultural methods.

The importance of awareness of the risk of pesticides used in the agricultural sector has caught the attention. The use of unsafe pesticides in terms of operation procedures, dose density, regularity and the amount of time spent applying the pesticides will leave an amount of residue on crops and in the environment, leading to adverse effects on the environment and human health. Pesticide residues, particularly those of extremely toxic pesticides, have emerged as a significant danger to the safety and quality of agricultural goods. Chemical residues pose a hazard not only because of pesticide quality and specifications, but also because farmers are not aware of the problems associated with pesticide usage.

Keeping this background in mind, the students of BSc III were assigned the project work pertaining to “Social awareness of pesticides”. Total 23 students participated in the project work. During project work related to assigned project, the students collected information about assigned pesticides on websites and informed local farmers about their health hazards.



HEAD

Department of Chemistry
Smt. Radhabai Sarda Arts, Commerce
& Science College Anjangaon Surji

Head of the department



प्राचार्य
PRINCIPAL

SMT. RADHABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJI

Principal

Outcome of the activity

The department of Chemistry assigned the project work pertaining to “Social awareness of pesticides” to the students of BSc III. Total 23 students undertook this project work and successfully completed it. After successful completion, the students

1. got information about various pesticides and their effects on health and the environment.
2. got informed about their role in pesticide minimization.
3. actively engaged in sharing knowledge about pesticides with their families.

Specimen project reports
Submitted by students along with geo-tag photos

Project - "Social Awareness of Chemical Fertilizers"

Submitted to

Dept. of Chemistry

Name of the Student: Ku. Dhanashai Ashok Muratkar

Class: BSc. III

Group: PCM

1) Do you use chemical fertilizers? If yes, mention names of any three.

Yes, Name of chemical fertilizers are -
Urea, NPK (Nitrogen, phosphorus and potassium),
Ammonium Sulphate, DAP (Diammonium phosphate),
single superphosphate.

2) Do you know accurate doses of chemical fertilizer for plant (crop)?

Yes, the chemical fertilizer such as urea, DAP
given as 50 kg per acre.

3) Are you aware about the harmful effects of chemical fertilizers to human body?

Yes, the chemical fertilizer are very
harmful to human body. Touching the
fertilizer may cause skin irritation and
ingesting it may be poisonous.

4) What are the possible harmful effects of chemical fertilizers (Consider environmental and human health aspects)?

Poisoning can occur if someone swallows chemical
fertilizer. It also causes stinging eyes, rashes, lungs,
cancer or even death. It is harmful to environment
hardened the soil, polluted air and water.

5) Do you know about the possible effects of chemical fertilizers towards water pollution?

Yes, it's possible effects of chemical fertilizers towards water pollution. When it rains the chemicals mixes up with rainwater and flows down into rivers and canals which pose serious damages for aquatic animals and human beings.

6) Is the use of chemical fertilizer responsible for soil pollution?

Yes, it is responsible for soil pollution. Because the chemical fertilizers can lead to soil compaction, soil acidification, causes decline in soil fertility, reduce crop yield over time and increase the risk of soil erosion.

7) Are you aware about any alternatives to chemical fertilizers?

Cow manure, vermi compost are alternatives to chemical fertilizers. It contains high levels of nitrogen, phosphorous, and other nutrients which act as organic fertilizers.

8) Are organic fertilizers a safer alternative to chemical fertilizers?

Organic fertilizers are environment friendly and good for soil. It increases the water-holding capacity of soil. Organic fertilizers feed beneficial microbes which make soil easier to work.

9) Do you know nanofertilizer?

Yes, Nanofertilizers are a new generation of fertilizers that utilize advanced nanotechnology to provide efficient and sustainable method of fertilizing crops. They are more soluble and reactive.

10) What is your opinion about the future of organic farming in India?

It is possible the future of organic farming in india.
Because it holds answers to many of our questions
around development and climate change. It will maintain
and enhance the health of ecosystem and soil diversity in future.

Concluding remarks:

From the above questions it is concluded
that chemical fertilizers are very harmful
to human body and environment. We
should use organic fertilizers instead of
chemical fertilizers. The questions helps in
public awareness about chemical fertilizers.
Organic fertilizers are useful is understand
very well. From the above questions we get the
information about the farmers awareness
regarding chemical fertilizers

अंजनगांव सुर्जी

Dratka
Signature of Student

Satish P. Mardikar
Signature of Project Supervisor
Dr. Satish P. Mardikar
Assistant Professor
Department of Chemistry
Smt. Radhabai Sarda Arts,
Commerce & Science College,
Anjangaon Surji

GEOTAG PHOTO



5) Do you know about the possible effects of chemical fertilizers towards water pollution?

fertilizers usually contains nitrogen salts which are highly soluble in water. These salts are leached away by rain water and reach the water bodies. They make water acidic & this way fertilizers cause water pollution.

6) Is the use of chemical fertilizer responsible for soil pollution?

Yes, many more use of chemical fertilizer is causes soil pollution, fertilizers contaminate soil from waste material release from raw material that are used in manufacturing process.

7) Are you aware about any alternatives to chemical fertilizers?

No, whatever is taken out of the soil must be put back. If not, the land will deteriorate and become unusable. The issue is the types of fertilizer used.

8) Are organic fertilizers a safer alternative to chemical fertilizers?

Yes, organic materials and fertilizers improve the soil texture, allowing it to hold water longer and increase the bacterial and fungal activity in the soil. So they not assist your plants they help the soil.

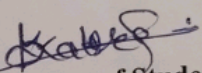
9) Do you know nanofertilizer?

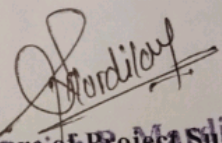
Nanofertilizer: A smart and Sustainable Attribute to Modern Agriculture Ex: Anila Nongbed^{1†} Aodheph Kumar Mishra^{2†} Yugal Kishore Mohata, Nano ultra fertilizer contain organic matter Nitrogen: P_2O_5 , K_2O , MgO_3 - 55%
10%, 14%, 8% respectively

10) What is your opinion about the future of organic farming in India?

organic farming is a future but the yield results were mixed. while some crops showed higher yield other showed a decrease organic farming may also hold solution to one of india's largest socioeconomic problem.

Concluding remarks:

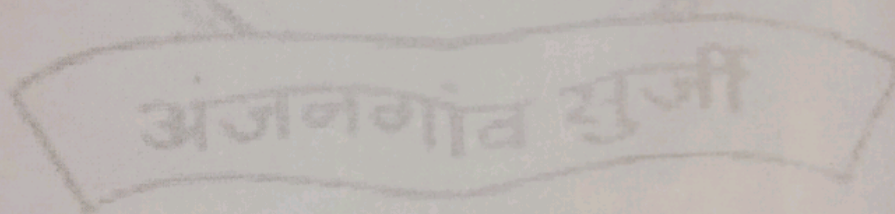

Signature of Student

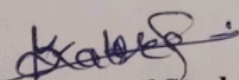

Signature of Project Supervisor
Assistant Professor
Department of Chemistry
Smt. Radhabai Sarda Arts,
Commerce & Science College,
Anjangaon Surji

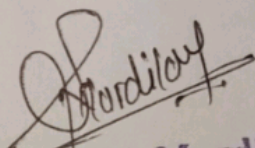
10) What is your opinion about the future of organic farming in India?

organic farming is a future but the yield results were mixed. while some crops showed higher yield other showed a decrease organic farming may also hold solution to one of india's largest socioeconomic problem.

Concluding remarks:




Signature of Student


Signature of Project Supervisor
Dr. Satish P. Modikar
Assistant Professor
Department of Chemistry
Smt. Radhabai Sarda Arts,
Commerce & Science College,
Anjangaon Surji

GEOTAG PHOTO



Project - "Social Awareness of Chemical Fertilizers"

Submitted to

Dept. of Chemistry

Name of the Student: Araah Keshav Kale

Class: BSc. III

Group: PCM

1) Do you use chemical fertilizers? If yes, mention names of any three.

yes, we used chemical fertilizers such as
urea, diammonium phosphate, potassium
chloride and potassium sulfate.

2) Do you know accurate doses of chemical fertilizer for plant (crop)?

yes, potassium rich fertilizers such as
potassium sulfate or potassium chloride can help
plant growth faster by improving their
ability to resist stress and diseases

3) Are you aware about the harmful effects of chemical fertilizers to human body?

Yes, the chemical fertilizers are very
& harmful to human body as well
as to the animals.

4) What are the possible harmful effects of chemical fertilizers (Consider environmental and human health aspects)?

poisoning can occurs if someone swallow
fertilizer. It also cause stinging eyes, rashes
uranium contain fertilizer causes disturbances
in kidneys, lungs and liver it also cause cancer or
even death.

5) Do you know about the possible effects of chemical fertilizers towards water pollution?

Yes, fertilizers usually contain nitrogen salts which are highly soluble in water. These salts are launched away by rain water and reach the water bodies. They make the water in water bodies acidic in this way fertilizer causes water pollution.

6) Is the use of chemical fertilizer responsible for soil pollution?

Chemical fertilizer overuse can contribute to soil acidification of organic matter, human content, beneficial species. Stunting plant growth, changes pH of soil it causes soil pollution.

7) Are you aware about any alternatives to chemical fertilizers?

Yes, we can use the following things instead of chemical fertilizers.

1) Waste Decomposers 4) Cow dung compost

2) Vermicompost

5) Kitchen waste compost

3) Leaf compost

6) Sea weed extract

8) Are organic fertilizers a safer alternative to chemical fertilizers?

Yes, organic fertilizers are a safer alternative to chemical fertilizers but the improper use of organic fertilizer leads to overfertilization or nutrient deficiency in the soil. Hence controlled release of organic fertilizer is an effective and advanced way to overcome these impacts.

9) Do you know nanofertilizer?

Yes, I know nanofertilizers, that are nutrients that are encapsulated or coated within nanomaterial in order to enable controlled release, and its subsequent slow diffusion into the soil.

10) What is your opinion about the future of organic farming in India?

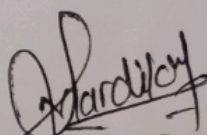
While some crops showed higher yield, others
show a decrease. Organic farming may also hold
solution. It will maintain & enhance the health
of ecosystem & solid diversity in future

Concluding remarks:

from the above questions it is concluded
that chemical fertilizers are very harmful
to human body as well as environment.
we should use organic fertilizers instead
of chemical fertilizers. We also decrease
the uses of chemical fertilizers.

अंजनवांत सुजी

A.K. Kule
Signature of Student


Signature of Project Supervisor
Assistant Professor
Department of Chemistry
Smt. Radhabai Sarda Arts,
Commerce & Science College,
Anjangaon Surji

GEOTAG PHOTO

