

**Kisan Veer Mahavidyalaya, Wai**  
**List of Projects in Environmental Studies-2023-24**  
**B.Sc- II**

Sr.No.	Roll No	Name of students	Project name
1.	1	Ingawale Sanika Sanjay	Organic Farming
2.	2	Hagavane Tejaswi Ajit	
3.	30	Sawant Chetana Ashok	
4.	3	Chavan Snehal Suresh	Water Conservation
5.	4	Wadkar Omkar Ashok	
6.	5	Dalvi Sanket Mohan	
7.	34	Jadhav Apeksha Manohar	
8.	6	Kamble Aditya Rajesh	The study of selected Dams and its environmental impact
9.	7	Jadhav Shubham Laxman	
10.	8	Khare Swapnil Sandip	
11.	9	Ithape Viraj Ravindra	
12.	10	Barge Mayur Keshav	
13.	12	Wagh Akanksha Rajendra	Biofertilizer
14.	13	Gaikwad Akanksha Hanmant	
15.	85	Akhade Komal Kondiram	
16.	86	Sanas Vishakha Pandurang	
17.	18	Chavan Anuradha Krushant	Disaster Management
18.	19	Mahamuni Jitendra Sonal	
19.	20	Jadhav Sakshi Sachin	
20.	22	Jagtap Ishwari Jeetendra	
21.	42	More Sanchita Vikas	
22.	28	Mandhare Atharv Rajendra	E –waste and its impact on Environment
23.	82	Panse Atharv Mahesh	
24.	91	Mahangade Sandesh Raju	
25.	114	Yadav Avishkar Anil	
26.	117	Yadav Anuraj Babasaheb	
27.	23	Shelar Sahil Sampat	Online voting system
28.	24	Ithape Prajjwal Bhaskar	
29.	26	Jadhav Sourav Santosh	
30.	32	Nikam Aryan Jyotikant	Swacch Bharat Abhiyan
31.	17	Vedpathak Atharv Sunil	
32.	25	Pawar Kiran Sarjerav	
33.	27	Pawar Nikhil Dattatray	
34.	69	Bhosale Abhijit Santosh	Climate change
35.	65	Koli Anjali Vitthal	
36.	66	Kadam Prajwal Rajendra	
37.	104	Yadav Rutuja Anil	
38.	36	Ithape Mrunalini Jitendra	
39.	78	Dixit Amisha Parmeshwar	Green revolution in India
40.	87	Jadhav Sanika Rajendra	
41.	55	Anabhule Abhinav Sunil	
42.	58	Bagal Prasad Shukracharya	
43.	59	Bandal Adinath Suresh	
44.	63	More Swarup Ravindra	Biological control and its important in agriculture
45.	60	Pawar Shantanu Sanjay	
46.	61	Mandhare Prathamesh Satish	
47.	62	Mandhare Shivam Anil	
48.	57	Pawar Tejas Shamrao	

49.	70	Darekar Parth Deepak	Plant Growth Regulators
50.	71	Mahadik Sahil Pramod	
51.	101	Devre Bhavesh Namdev	
52.	102	Kadam Aditya Sanjay	Environmental Policy In India
53.	72	Chavan Aniket Mahadev	
54.	73	Pachange Chetan Dattatray	
55.	105	Shelar Rohit Shravan	Report on Medicinal plants
56.	37	Ram Ranikumari Sarojkumar	Pond and an Ecosystem
57.	67	Lokhande Rohit Suhass	
58.	68	Kadam Omkar Vijay.	Some endangered and endemic animal species in India
59.	21	Yadav Sanika Bhanudas	
60.	40	Shinde Tanishka Sanjay	
61.	41	Dhumal Harshada Avinash	
62.	109	Jadhav Sanika Ramesh	
63.	110	Dhanawade Shweta Santosh	Soil pollution
64.	43	Tarate Shruti Krishnudev	
65.	45	Pisal Tanuja Dattatray	
66.	54	Tarate Vinay Vijay	Noise pollution
67.	96	Biramane Mayuri Dhananjay	
68.	97	Chaudhari Sadashiv Dnyaneshwar	
69.	49	Kadam Payal Dnyaneshwar	
70.	74	Jagtap Sanika Vijay	
71.	75	Kalokhe Aditi Kamalakar	
72.	76	Kalokhe Shraddha Sachin	
73.	83	Sanas Akash Namdev	
74.	84	Kadam Prathamesh Dadasaheb	Rajgira: A valued Cereal
75.	112	Bhilare Sakshi Yuvraj	
76.	113	Bhilare Sunil Sneha	Finger millets : A valued Cereal
77.	93	Thopate Divya Dashrath	
78.	94	Bhilare Sanika Dattatray	
79.	95	Karade Sanika Balu	Nursery Management
80.	103	Mahangade Ashutosh Satish	
81.	29	Gaikwade Soham Sushant	Krishna river water pollution
82.	92	Kadam Mangesh Suresh	
83.	35	Dhumal Priyanka Jalindra	
84.	36	Ithape Mrunalini Jitendra	Garbage Management
85.	78	Dixit Amisha parmeshwar	
86.	87	Jadhav Sanika Rajendra	
87.	44	Wadkar Pranav Ajit	Limnological study of Venna Lake
88.	46	Kasurday Mayur Parshuram	
89.	100	Nikam Siddhesh Sandeep	
90.	107	Thorvae Raj Vijay	Sericulture
91.	88	Pawar Swamini Krishnraj	Medical waste and management
92.	89	Chikane Sanika Suresh	
93.	90	Mandale Siddhi Dinkar	
94.	115	Kamble Tushar Mahadev	
95.	14	Nikita Kiran Waghmare	
96.	15	Chavan Utkarsha Sanjiv	
97.	16	Neha Kiran Waghmare	
98.	38	Rucha Santosh Deshmukh	
99.	39	Kale Snehal Hindurao	
100.	122R	Bhosale Om Ravindra	Study of selected Dam and it's environmental Impact
101.	123	Khare Atharv Nandkumar	
102.	124	Jagtap Avishkar Jeevan	

124  
Jagtap

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



*Gagan*  
PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Wai, Dist. Satara

**B.Sc..-II ENVIORMENT SCINECE  
CERTIFICATES OF COMPLETION**



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA,**  
**WAI**

**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. **Sanika Ramesh Jadhav** Of **B.sc. II** has completed the report of the field work on "**Endangered and endemic animal Species in India**" of Environmental Science subject satisfactory under the guidance of **Prof.Dr.Mrs.M.V.INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.



**Supervisor**

Prof.Dr. Mrs.M.V.INGAWALE



**Co-Ordinator**

Prof. Dr **Mrs.M.V.INGAWALE**

**Coordinator**

Environmental Studies

Kisan Veer Mahavidyalaya

Wai, Dist. Satara.



**Principal**

**Prof. Dr. G .J. Fagare**

Kisan Veer Mahavidyalaya

Wai



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA,**  
**WAI**  
**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. **Harshada Avinash Dhamal** Of **B.sc. II** has completed the report of the field work on **“Endangered and endemic animal Species in India”** of Environmental Science subject satisfactory under the guidance of **Prof.Dr.Mrs.M.V.INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.



**Supervisor**

Prof. Dr. Mrs. M.V. INGAWALE



**Co-Ordinator**

Prof. Dr Mrs. M.V. NGAWALE

**Coordinator**

**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**



**Principal**

**Prof. Dr. G .J. Fagare**

Kisan Veer Mahavidyalaya  
Wai

## CERTIFICATE

This is a certificate that **Mr. Parth Deepak Darekar** B. Sc II class has completed the report of fieldwork on “Plant Growth Regulators” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**  
**Supervisor**  
Environmental studies

**Dr. Mrs. M. V. Ingawale**  
**coordinator**  
**Coordinator**  
**Environmental Studies**  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**External examiner**  
**Shivaji university Kolhapur**

**Principal**  
**Dr. . G. J. Fagare**  
**Kisan veer mahavidyalaya, wai**

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER**  
**MAHAVIDHYALAYA, WAI.**



**CERTIFICATE**

This is to certify that **Mr. Sanas Vishal Namdev** of **B.Sc. II** class has successfully completed the report of fieldwork on "**Green House Effect**" of the environment science subject satisfactory under the guidance of **Dr. Mrs. M. V. Ingawale** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental Studies

External Examiner

Shivaji University, Kolhapur

Dr. Mrs. M. V. Ingawale

**Coordinator**

**Environmental Studies**

**Environmental Studies**

Wai, Dist. Satara.

Principal

Dr. G. J. Fagare

Kisan Veer Mahavidyalaya, Wai.



**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**




This is to certify that, **Miss.Sanika Sanjay Ingavale** of **B.Sc.-II Class**, has completed the report of the field work on the 'study of **'ORGANIC FARMING'** Environmental Science subject satisfactorily, under the guidance of **Mrs. Dr.M.V.Ingavale** during the year 2023-24.as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr.M.V.Ingawale**

  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal.

**Prof .Dr.G.J.Fagare**

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Miss. Bhilare Sanika Dattatray B. Sc II class** has completed the report of fieldwork on **Finger millets: A valued cereal** of the environment subject satisfactory under the Guidance of **Dr. Mrs. M. V. Ingawale** taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**  
**Environment of Studies**

This is to certify that **Mr. Sanas Akash Namdev** Of **B.Sc. II** has completed the report of the field work on **“Environmental Disaster”** of Environmental Science subject satisfactory under the guidance of **Dr. Mrs. M. V. INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

**Dr. Mrs. M. V. INGAWALE**

**Co-Ordinator**

**Prof. Dr.**

**Mrs. M.V.INGAWALE**  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara,

**Dr. G .J. Phagare**  
**Principal**

**Kisan Veer Mahavidyalaya**  
**Wai**



JANATA SHIKSHAN SANSTHA'S

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

*This is to certify that Miss. Mandale Siddhi Dinkar of B.Sc II Class has completed the report of the field work on "Limnological Study Of Venna Lake" of the Environment subject satisfactory under the guidance of Prof. M.V.Ingawale during the year 2022-2023 as prescribed by the Shivaji University, Kolhapur*

**Supervisor**

Prof. Dr. M.V.Ingawale

**Co-Ordinator**

Dr. M.V.Ingawale

**Principle**

Prof. Dr. G.J.Fagare

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

JANATA SHIKSHAN SANSTHA'S

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

*This is to certify that Miss. Pawar Swamini Krishnraj of B.Sc II Class has completed the report of the field work on "Limnological Study Of Venna Lake" of the Environment subject satisfactory under the guidance of Prof. M.V.Ingawale during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur .*

**Supervisor**

Prof. Dr. M.V.Ingawale

**Principle**

Prof. Dr. G.J.Fagare

**Co-Ordinator**

Dr. M.V.Ingawale

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

## CERTIFICATE

This is a certificate that **Mr. Parth Deepak Darekar** B. Sc II class has completed the report of fieldwork on “Plant Growth Regulators” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Saiara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**



## CERTIFICATE OF THE SUPERVISOR



This is to certificate that ***Ithape Prajwal Bhaskar*** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on ***“ONLINE VOTING SYSTEM”*** of the Chemistry subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Co-ordinator

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that *Mr. Khare Atharv Nandkumar, Mr. Jagtap Avishkar Jeevan, Mr. Bhosale Om Ravindra* Of B.Sc.<sup>1<sup>st</sup></sup> Class has completed the report of the fieldwork on *“The Study of Selected Dam & It’s Environmental Impact”* of the Chemistry subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

Dr. Mrs. M.V.Ingawale

Co-ordinator  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

JantaShikshanSanstha's

## Kisan Veer Mahavidyalaya Wai



### CERTIFICATE

This is to certify that, **Rutuja Anil Yadav** of **B.Sc.II** class has completed the report of the fieldwork on "**Climate Change**" of Environmental Science Subject Satisfactory under the guidance of **Dr. Mrs. M.V.Ingawale** during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

  
Dr. Mrs. M.V.Ingawale

Supervisor

  
Dr. Mrs. M.V.Ingawale

Co-ordinator  
Coordinator

Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Dr.G.J.Fagare

K.V.M Collage Wai, Principle

JantaShikshanSanstha's

# Kisan Veer Mahavidyalaya Wai



## CERTIFICATE

This is to certify that, **Prajwal Rajendra kadam** of **B.Sc. II** class has completed the report of the fieldwork on "**Climate Change**" of Environmental Science Subject Satisfactory under the guidance of **Dr. Mrs. M.V.Ingawale** during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

**Dr. Mrs. M.V.Ingawale**

**Supervisor**

**Dr. Mrs. M.V.Ingawale**

**Co-ordinator**

**Coordinator**

**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**Dr.G.J.Fagare**

**K.V.M Collage Wai, Principle**



JANATA SHIKSHAN SANSTHA'S

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Miss **Pol Naitik Sanjay** has completed the report of the field work on “**Biodiversity in kas Pathar**” of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGVALE

During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

  
**Supervisor**

Mrs. Dr. M.V.INGVALE

  
**Co-Ordinator**

Mrs. Dr. M.V.INGVALE  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
**Principal**  
**G.J.Fagare**

Kisan Veer Mahavidyalaya  
Wai

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss.Snehal Hindurao kale.**  
of  
**B.Sc II Class**, has completed the report of the field work  
on the 'study of  
**'Medical Waste And Management'**  
Environmental Science subject satisfactorily, under the  
guidance of Miss .D.A.Chodhari during the year 2023-  
24 as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr. M.V. Ingawale**  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal.

**Prof .Dr.G.J.Fagare**

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that Miss. **Bhilare Sanika Dattatray** B. Sc II class has completed the report of fieldwork on **Finger millets: A valued cereal** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental studies

External examiner

Shivaji university Kolhapur

Dr. Mrs. M. V. Ingawale

coordinator

Environmental studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Salara.

Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that,  
**Mr .Rohit Suhas Lokhande** of  
B.Sc.-II Class, has completed the report of the field  
work on the 'study of

**'Pond and an Ecosystem'**

Environmental Science subject satisfactorily, under the  
guidance of Miss .D.A.Chodhari during the year 2022-  
23, as prescribed by the Shivaji University, Kolhapur.

Supervisor

**Mrs. Dr.M.V.Ingawale**

Coordinator

Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

**Prof .Dr.G.J.Fagare**



JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara



This is to certify that,  
**Mr .Omkar vijay kadam** of  
B.Sc.-II Class, has completed the report of the field  
work on the 'study of

**'Pond and an Ecosystem'**

Environmental Science subject satisfactorily, under the  
guidance of Miss .D.A.Chodhari during the year 2023-  
24, as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr.M.V.Ingawale

Coordinator

Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara

Principal.

Prof .Dr.G.J.Fagare

# KISAN VEER MAHAVIDYALAY, WAI

## CERTIFICATE

This is to certify that, **Amisha Parmeshwar Dixt, Mrunalini Jitendra Ithape, Priyanka Jalindra Dhamal, Sanika Rajendra Jadhav** of **B.Sc. - II Class** has completed the report of the fieldwork on "**Krishna River Water Pollution**" of Environmental Science subject satisfactory under the guidance of Prof. Ingawale Miss during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.



Supervisor  
Prof. Ingawale Miss



Coordinator  
Dr. M.V. Ingawale  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



Principle  
Kisan Veer Mahavidyalaya, Wai

# KISAN VEER MAHAVIDYALAY, WAI

## CERTIFICATE

This is to certify that, **Amisha Parmeshwar Dixt, Mrunalini Jitendra Ithape, Priyanka Jalindra Dhamal, Sanika Rajendra Jadhav** of **B.Sc. - II Class** has completed the report of the fieldwork on "**Krishna River Water Pollution**" of Environmental Science subject satisfactory under the guidance of Prof. Ingawale Miss during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.



Supervisor  
Prof. Ingawale Miss



Coordinator  
Dr. M.V. Ingawale  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



Principle  
Kisan Veer Mahavidyalaya, Wai

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Mrs. Mangesh Suresh Kadam** B. Sc II class has completed the report of fieldwork on **Nursery Management** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental studies

External examiner

Shivaji university Kolhapur

Dr. Mrs. M. V. Ingawale

coordinator

Environmental studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai



JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



**CERTIFICATE**  
**Environment of Studies**

This is to certify that Miss. Wagh Akanksha Rajendra Of B.SC. II 'B' Group has completed the report of the field work on **Biofertilizer** of Environmental Science subject satisfactory under the guidance of Dr.Miss.M.V. Ingawale during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Supervisor  
Dr.Mrs. M.V. Ingawale

Principal  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya  
Wai

Co-Ordinator  
Dr.Mrs. M.V. Ingawale

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. Gaikwad Akanksha Hanmant Of B.SC. II 'B' Group has completed the report of the field work on **Biofertilizer** of Environmental Science subject satisfactory under the guidance of Dr.Miss.M.V. Ingawale during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Supervisor  
Dr.Mrs. M.V. Ingawale

Co-Ordinator  
Dr.Mrs. M.V. Ingawale

Principal  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya  
Wai

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



**CERTIFICATE**

This is a certificate that **Mrs. Mangesh Suresh Kadam** B. Sc II class has completed the report of fieldwork on **Nursery Management** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**

**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**


**Kisan veer mahavidyalaya, wai**

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI




CERTIFICATE

This is a certificate that **Mr. Rohit Shravan Shelar** B. Sc II class has completed the report of fieldwork on **Environmental Policy In India** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

  
Dr. Mrs. M. V. Ingawale  
Supervisor  
Environmental studies

  
External examiner

Shivaji university Kolhapur

  
Dr. Mrs. M. V. Ingawale  
coordinator

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai



JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II Mrs. Sandesh Raju Mahangade** has completed the report of the field work on **“E-Waste and it's impact on Environment ”** of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Mrs. Dr. M.V.INGAWALE

**Co-Ordinator**

Mrs. Dr. M.V.INGAWALE

**Principal**

**Pro.Dr. G.J.Fagare**

**Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.**

Kisan Veer Mahavidyalaya  
Wai

# KISAN VEER MAHAVIDYALAY, WAI

## CERTIFICATE

This is to certify that, **Amisha Parmeshwar Dixt, Mrunalini Jitendra Ithape, Priyanka Jalindra Dhamal, Sanika Rajendra Jadhav** of **B.Sc. - II Class** has completed the report of the fieldwork on "**Krishna River Water Pollution**" of Environmental Science subject satisfactory under the guidance of Prof.Ingawale Miss during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.



Supervisor  
Prof. Ingawale Miss



Coordinator  
Dr. M.V. Ingawale  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



Principle  
Kisan Veer Mahavidyalaya, Wai


JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.sc II** Miss **Sakshi Sachin Jadhav** has completed the report of the field work on “**Disaster Management**” of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE. During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Supervisor  


Mrs. Dr. M.V.INGAWALE

Co-ordinator  


Mrs. Dr. M.V.INGAWALE

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



**Principal**  
Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai

## CERTIFICATE

This is a certificate that **Mr. Nikhil Dattatray Pawar** B. Sc II class has completed the report of fieldwork on “Swacch Bharat Abhiyan ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**



**Project Guide Name:- Dr. Manjusha Ingawale**

**JANATA SHIKSHAN SANTSHA'S**

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

Date: 08/03/2024

This is to certify that **Miss. Shruti Krushandev Tarate** a student of B.Sc II year has successfully completed the project on the topic "**Soil Pollution**" under the guidance of **Dr. Manjusha Ingawale** during the year 2023-2024 in partial fulfillment of Environment Subject.

Supervisor

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Kisan Veer Mahavidyalaya, Wai

**Project Guide Name:- Dr. Manjusha Ingawale**

**JANATA SHIKSHAN SANTSHA'S**

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

Date: / /

This is to certify that **Mr. Sadashiv Dnyaneshwar Chaudhary** a student of B.Sc II year has successfully completed the project on the topic "**Soil Pollution**" under the guidance of **Dr. Manjusha Ingawale** during the year 2023-2024 in partial fulfillment of Environment Subject.

Supervisor

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Kisan Veer Mahavidyalaya, Wai

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Miss. Bhilare Sanika Dattatray** B. Sc II class has completed the report of fieldwork on **Finger millets: A valued cereal** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental studies

Dr. Mrs. M. V. Ingawale

coordinator

Environmental studies  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

External examiner

Shivaji university Kolhapur

Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that,  
**Miss .Ram Ranikumari Sarojkumar** of  
**B.Sc.-II Class**, has completed the report of the field  
work on the 'study of  
**'Report on Medicinal Plants'**  
Environmental Science subject satisfactorily, under the  
guidance of **Mrs. Dr.M.V.Ingawale** during the year  
2023-24.as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr.M.V.Ingawale**

  
Principal.

**Prof .Dr.G.J.Fagare**

  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**  
**Environment of Studies**

This is to certify that **Mr. Kadam Prathamesh Dadasaheb** Of **B.Sc. II** has completed the report of the field work on "**Environmental Disaster**" of Environmental Science subject satisfactory under the guidance of **Dr. Mrs. M. V. INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

**Dr. Mrs. M. V. INGAWALE**

**Co-Ordinator**

**Prof. Dr.**

**Mrs. M.V.INGAWALE**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara,**

**Dr. G .J. Phagare**  
**Principal**

**Kisan Veer Mahavidyalaya**  
**Wai**

## CERTIFICATE

This is a certificate that **Mr. Adinath Suresh Bandal** B. Sc II class has completed the report of fieldwork on “Green revolution in India ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Coordinator**  
**Environmental studies**  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Nikam Aryan Jyotikant** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **"ONLINE VOTING SYSTEM"** of the Chemistry subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Co-ordinator

**Coordinator**

Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

## CERTIFICATE

This is a certificate that **Mr. Shantanu Sanjay Pawar** B. Sc II class has completed the report of fieldwork on “Biological control and it’s important in Agriculture” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Coordinator**

**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**



## KISAN VEER MAHAVIDYALAY, WAI

### CERTIFICATE


This is to certify that, **Amisha Parmeshwar Dixt, Mrunalini Jitendra Ithape, Priyanka Jalindra Dhamal, Sanika Rajendra Jadhav** of **B.Sc. - II Class** has completed the report of the fieldwork on "**Krishna River Water Pollution**" of Environmental Science subject satisfactory under the guidance of Prof. Ingawale Miss during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.



Supervisor  
Prof. Ingawale Miss



Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



Principle  
Kisan Veer Mahavidyalaya, Wai

## CERTIFICATE

This is a certificate that **Mr. Om Sandip Pawar** B. Sc II class has completed the report of fieldwork on “Protected cultivation in vegetable crops” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Mr. Barge Mayur Keshav** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **“The Study of Selected Dam & It’s Environmental Impact”** of the subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

**Coordinator**  
Co-ordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara,

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

## CERTIFICATE

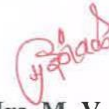
This is a certificate that **Mr. Om Sandip Pawar** B. Sc II class has completed the report of fieldwork on “Protected cultivation in vegetable crops” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .



**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**



**Dr. Mrs. M. V. Ingawale**

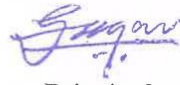
**coordinator**

**Environmental studies**



**External examiner**

**Shivaji university Kolhapur**



**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**



## CERTIFICATE

This is a certificate that **Mr. Om Sandip Pawar** B. Sc II class has completed the report of fieldwork on "Protected cultivation in vegetable crops" of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**  
**Supervisor**  
**Environmental studies**

**Dr. Mrs. M. V. Ingawale**  
**coordinator**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**External examiner**

**Principal**

**Shivaji university Kolhapur**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Mr. Khare Swapnil Sandip** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **"The Study of Selected Dam & It's Environmental Impact"** of the subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Coordinator

Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

## CERTIFICATE

This is a certificate that **Mr. Shantanu Sanjay Pawar** B. Sc II class has completed the report of fieldwork on “Biological control and it’s important in Agriculture” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Coordinator**  
**Environmental Studies**  
**Environmental studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE

This is a certificate that **Mr. Adinath Suresh Bandal** B. Sc II class has completed the report of fieldwork on “Green revolution in India ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Coordinator**

**Environmental Studies**

**Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**



## CERTIFICATE

This is a certificate that **Mr. Adinath Suresh Bandal** B. Sc II class has completed the report of fieldwork on “Green revolution in India ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental Studies**  
**Environmental studies**  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

**Project Guide Name:- Dr. Manjusha Ingawale**  
**JANATA SHIKSHAN SANTSHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

Date: 08 / 03 / 2024

This is to certify that **Miss. Mayuri Dhananjay Biramane** a student of B.Sc II year has successfully completed the project on the topic "**Soil Pollution**" under the guidance of **Dr. Manjusha Ingawale** during the year 2023-2024 in partial fulfillment of Environment Subject.

Supervisor

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Kisan Veer Mahavidyalaya, Wai

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Mr. Kamble Aditya Rajesh** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **“The Study of Selected Dam & It’s Environmental Impact”** of the subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

**Dr. Mrs. M.V.Ingawale**

**Supervisor**

**Dr. Mrs. M.V.Ingawale**

**Coordinator**

**Co-ordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.**

**Dr.G.J.Fagare**

**K.V.M Collage Wai, Principle**

**Project Guide Name:- Dr. Manjusha Ingawale**  
**JANATA SHIKSHAN SANTSHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**




**CERTIFICATE**

Date: 08 / 03 / 2024

This is to certify that **Miss. Tanuja Dattatray Pisal** a student of B.Sc II year has successfully completed the project on the topic "**Soil Pollution**" under the guidance of **Dr. Manjusha Ingawale** during the year 2023-2024 in partial fulfillment of Environment Subject.

  
Supervisor

  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal  
Kisan Veer Mahavidyalaya, Wai



## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Mr. Jadhav Shubham Laxman** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on "**The Study of Selected Dam & It's Environmental Impact**" of the subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Co-ordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Mr. Ithape Viraj Ravindra** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **“The Study of Selected Dam & It’s Environmental Impact”** of the subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

## CERTIFICATE

This is a certificate that **Mr. Shantanu Sanjay Pawar** B. Sc II class has completed the report of fieldwork on “Biological control and it’s important in Agriculture” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**  
**Coordinator**

**Environmental Studies**  
**Environmental studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE

This is a certificate that **Mr. Om Sandip Pawar** B. Sc II class has completed the report of fieldwork on “Protected cultivation in vegetable crops” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**



JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVDYALAYA, WAI



CERTIFICATE

*This is to certify that Mr. Wadkar Pranav Ajit of B.S.C. II Class has completed the report of the field work on "Garbage Management" of the Environment subject satisfactory under the guidance of Dr. Mrs M.V. Ingawale during the year 2023-24 as prescribed by the Shivaji University, Kolhapur.*

Dr. Mrs M.V. Ingawale  
Supervisor  
Environmental Studies

Dr. Mrs M.V. Ingawale  
Co-ordinator  
Environmental Studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principle  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya, Wai

External Examiner  
Shivaji University, Kolhapur

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Miss. Bhilare Sanika Dattatray B.** Sc II class has completed the report of fieldwork on **Finger millets: A valued cereal** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental studies

Dr. Mrs. M. V. Ingawale

coordinator

Environmental studies

Coordinator

Environmental Studies

Kisan Veer Mahavidyalaya

Wai Dist. Satara.

Principal

Dr. . G. J. Fagare

External examiner

Shivaji university Kolhapur

Kisan veer mahavidyalaya, wai

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA,**  
**WAI**  
**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. **Sanika Bhanudas Yadav** Of **B.sc. II** has completed the report of the field work on “**Endangered and endemic animal Species in India**” of Environmental Science subject satisfactory under the guidance of **Prof.Dr.Mrs.M.V.INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.



**Supervisor**

Prof.Dr. Mrs.M.V.INGAWALE



**Co-Ordinator**

Prof. Dr Mrs.M.V.NGAWALE

**Coordinator**

**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
Wai, Dist. Satara.



**Principal**

**Prof. Dr . G .J. Fagare**

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II Mr. Dalvi Sanket Mohan** has completed the report of the field work on “**Water Conservation**” of Environmental Science subject satisfactory under the guidance of **Prof.Dr. Mrs . M.V.Ingawale** During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Prof.Dr. Mrs . M.V.Ingawale

**Co-Ordinator**

Prof.Dr. Mrs . M.V.Ingawale

**Coordinator**

**Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.**

**Principal**

**Prof.Dr.G.J.Fagare**

Kisan Veer Mahavidyalaya  
Wai



JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Miss.**Jadhav Apeksha Manohar** has completed the report of the field work on “**Water Conservation**” of Environmental Science subject satisfactory under the guidance of **Prof.Dr. Mrs . M.V.Ingawale** During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Prof.Dr. Mrs . M.V.Ingawale

**Co-Ordinator**

Prof.Dr. Mrs . M.V.Ingawale

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Principal**

**Prof.Dr.G.J.Fagare**

Kisan Veer Mahavidyalaya  
Wai

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

*This is to certify that **Miss. Payal dnyaneshwar Kadam** Of **B.Sc II** has completed the report of the field work on **“Noise Pollution”** of the Environment subject satisfactory under the guidance of **Mrs.Dr.M.V.Ingawale** madam during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.*

Pro Mrs. Dr.M.V.Ingawale

**Supervisor**

**Environmental Studies**

**External Examiner**

Shivaji University, Kolhapur

Dr. Mrs. M. V. Ingawale

**Co-ordinator**

**Coordinator**  
**Environmental Studies**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**Principal**

Dr. G. J. Fagare

Kisan veer Mahavidyalaya, wai

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is to certify that **Miss. Sanika vijay Jagtap** Of **B.Sc II** has completed the report of the field work on **“Noise Pollution”** of the Environment subject satisfactory under the guidance of **Mrs. Dr. M. V. Ingawale** madam during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Pro Mrs. Dr. M. V. Ingawale

Supervisor

Environmental Studies

External Examiner

Shivaji University, Kolhapur

Dr. Mrs. M. V. Ingawale

Co-ordinator

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

Dr. G. J. Fagare

Kisan veer Mahavidyalaya, wai

**Project Guide Name:- Dr. Manjusha Ingawale**  
**JANATA SHIKSHAN SANTSHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

Date: 08 / 03 / 24

This is to certify that **Mr. Vinay Vijay Tarate** a student of B.Sc II year has successfully completed the project on the topic "**Soil Pollution**" under the guidance of **Dr. Manjusha Ingawale** during the year 2023-2024 in partial fulfillment of Environment Subject.

Supervisor

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Kisan Veer Mahavidyalaya, Wai



## CERTIFICATE OF THE SUPERVISOR



This is to certificate that *Shelar Sahil Sampat* Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **“ONLINE VOTING SYSTEM”** of the Chemistry subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Co-ordinator

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. Akhade Komal Kondiram Of B.SC. II ' B' Group has completed the report of the field work on **Biofertilizer** of Environmental Science subject satisfactory under the guidance of Dr.Miss.M.V. Ingawale during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Supervisor  
Dr.Mrs. M.V. Ingawale

Co-Ordinator  
Dr.Mrs. M.V. Ingawale

Principal  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya  
Wai

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.sc II** Miss **Anuradha krushnat Chavan** has completed the report of the field work on “**Disaster Management** ” of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE. During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr. M.V.INGAWALE

Coordinator

Mrs. Dr. M.V.INGAWALE  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.sc II** Miss **Ishwari Jeetendra Jagtap** has completed the report of the field work on “**Disaster Management** ” of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE. During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr. M.V.INGAWALE

Co-Ordinator

Mrs. Dr. M.V.INGAWALE

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai




JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVDYALAYA, WAI


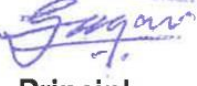


CERTIFICATE

*This is to certify that Mr. Kasurde Mayur Parshuram of B.S.C. II Class has completed the report of the field work on "Garbage Management" of the Environment subject satisfactory under the guidance of Dr. Mrs M.V. Ingawale during the year 2023-24 as prescribed by the Shivaji University, Kolhapur.*

  
Dr. Mrs M.V. Ingawale  
Supervisor  
Environmental Studies

  
External Examiner  
Shivaji University, Kolhapur

  
Dr. Mrs M.V. Ingawale  
Co-ordinator  
Environmental Studies  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara,  
  
Principle  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya, Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.sc II** Miss **Sanchita Vikas More** has completed the report of the field work on “**Disaster Management**” of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE. During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr. M.V.INGAWALE

Co-Ordinator

Mrs. Dr. M.V.INGAWALE  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss.Sanas Vishakha Pandurang, Miss.Gaikwad Akanksha Hanmant, Miss. Wagh Akanksha Rajendra, Miss. Akhade Komal Kondiram Of B.SC. II ' B' Group has completed the report of the field work on **Biofertilizer** of Environmental Science subject satisfactory under the guidance of Dr.Miss.M.V. Ingawale during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Supervisor  
Dr.Mrs. M.V. Ingawale

Co-Ordinator  
Dr.Mrs. M.V. Ingawale  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVDYALAYA, WAI



## CERTIFICATE

*This is to certify that Mr. Thorave Raj Vijay of B.S.C. II Class has completed the report of the field work on "Garbage Management" of the Environment subject satisfactory under the guidance of Dr. Mrs M.V. Ingawale during the year 2023-24 as prescribed by the Shivaji University, Kolhapur.*

Dr. Mrs M.V. Ingawale  
Supervisor  
Environmental Studies

Dr. Mrs M.V. Ingawale  
Co-ordinator  
Environmental Studies

Co-ordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

External Examiner  
Shivaji University, Kolhapur

Principle  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya, Wai



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

*This is to certify that **Miss. Shraddha Sachin Kalokhe** Of **B.Sc II** has completed the report of the field work on **“Noise Pollution”** of the Environment subject satisfactory under the guidance of **Mrs.Dr.M.V.Ingawale** madam during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.*

Pro Mrs. Dr. M. V. Ingawale

**Supervisor**

**Environmental Studies**

**External Examiner**

Shivaji University, Kolhapur

Dr. Mrs. M. V. Ingavale

**Co-ordinator**

**Coordinator**  
**Environmental Studies**  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Principal**

Dr. G. J. Fagare

Kisan veer Mahavidyalaya, wai

## CERTIFICATE

This is a certificate that **Mr. Adinath Suresh Bandal** B. Sc II class has completed the report of fieldwork on “Green revolution in India ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**

**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya,**  
**Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

**External examiner**

**Shivaji university Kolhapur**

JANATA SHIKSHAN SANSTHA'S

KISAN VEER MAHAVDYALAYA, WAI



**CERTIFICATE**

*This is to certify that Mr. Chikane Omkar Sanjay of B.Sc. III Class has completed the report of the field work on "Secure Environment" of the Environment subject satisfactory under the guidance of Dr. Mrs M.V. Ingavale during the year 2023-24 as prescribed by the Shivaji University, Kolhapur.*

**Dr. Mrs M.V. Ingavale**  
**Supervisor**  
**Environmental Studies**

**Dr. Mrs M.V. Ingavale**  
**Co-ordinator**  
**Environmental Studies**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Maharashtra**

**External Examiner**  
**Shivaji University, Kolhapur**

**Principle**  
**Dr. G. J. Fagare**  
**Kisan Veer Mahavidyalaya, Wai**

**JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

*This is to certify that **Miss. Aditi kamalakar Kalokhe** Of **B.Sc II** has completed the report of the field work on **“Noise Pollution”** of the Environment subject satisfactory under the guidance of **Mrs.Dr.M.V.Ingawale** madam during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.*

Pro Mrs. Dr.M.V.Ingawale

**Supervisor**

**Environmental Studies**

**External Examiner**

Shivaji University, Kolhapur

Dr. Mrs. M. V. Ingavale

**Co-ordinator**

**Coordinator**  
**Environmental Studies**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai-Dist. Satara.**

**Principal**

Dr. G. J. Fagare

Kisan veer Mahavidyalaya, wai



JantaShikshanSanstha's

## Kisan Veer Mahavidyalaya Wai



### CERTIFICATE

This is to certify that, **Anjali Vitthal koli** of **B.Sc. II** class has completed the report of the fieldwork on "**Climate Change**" of Environmental Science Subject Satisfactory under the guidance of **Dr. Mrs. M.V.Ingawale** during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

**Dr. Mrs. M.V.Ingawale**

**Supervisor**

**Dr. Mrs. M.V.Ingawale**

**Co-ordinator**

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Dr.G.J.Fagare**

**K.V.M Collage Wai, Principle**

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.sc II** Miss **Sonal Jitendra Mahamuni** has completed the report of the field work on "**Disaster Management** " of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE. During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

Mrs. Dr. M.V.INGAWALE

  
Co-Ordinator

Mrs. Dr. M.V.INGAWALE



Principal  
Pro.Dr. G.J.Fagare

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that Miss. Sneha Sunil Bhilare B. Sc II class has completed the report of fieldwork on **Rajgira: A Valued Cereal** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

**Supervisor**

Environmental studies

External examiner

Shivaji university Kolhapur

Dr. Mrs. M. V. Ingawale

**coordinator**

Environmental studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss. Neha Kiran Waghmare, Miss. Nikita Kiran Waghmare, Miss. Utkarsha Sanjiv Chavan, Miss. Rucha Santosh Deshmukh, Miss. Snehal Hindurao kale** of **B.Sc II Class**, has completed the report of the field work on the 'study of

**'Medical Waste And Management'**

Environmental Science subject satisfactorily, under the guidance of Miss .D.A.Chodhari during the year 2022-23 as prescribed by the Shivaji University, Kolhapur.

Supervisor

**Mrs. Dr. M.V. Ingawale**  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal.

**Prof. Dr. G.J. Fagare**



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER**  
**MAHAVIDHYALAYA, WAI.**



**CERTIFICATE**

This is to certify that **Mr. Yewale Ganesh Rajendra** of **B.Sc. II** class has successfully completed the report of fieldwork on "**Green House Effect**" of the environment science subject satisfactory under the guidance of **Dr. Mrs. M. V. Ingawale** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.



Dr. Mrs. M. V. Ingawale

Supervisor

Environmental Studies



External Examiner

Shivaji University, Kolhapur



Dr. Mrs. M. V. Ingawale

ce-ordinator  
Coordinator

Environmental Studies  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



Principal

Dr. G. J. Fagare

Kisan Veer Mahavidyalaya, Wai.

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**  
**Environment of Studies**

This is to certify that **Mr. Shinde Abhay Dhananjay** Of **B.Sc. II** has completed the report of the field work on "**Environmental Disaster**" of Environmental Science subject satisfactory under the guidance of **Dr. Mrs. M. V. INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

**Dr. Mrs. M. V. INGAWALE**

**Co-Ordinator**

**Prof. Dr.**

**Mrs. M.V.INGAWALE**  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Dr. G .J. Phagare**  
**Principal**

**Kisan Veer Mahavidyalaya**  
**Wai**

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Miss. Sneha Sunil Bhilare** B. Sc II class has completed the report of fieldwork on **Rajgira: A Valued Cereal** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**  
**Supervisor**  
**Environmental studies**

**Dr. Mrs. M. V. Ingawale**  
**coordinator**  
**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II Mrs. Avishkar Anil Yadav** has completed the report of the field work on **“E-Waste and it's impact on Environment ”** of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr. M.V.INGAWALE

Coordinator

Mrs. Dr. M.V.INGAWALE  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara,

Principal  
Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai



JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Mrs. **Atharv Rajendra Mandhare** has completed the report of the field work on **“E-Waste and it's impact on Environment ”** of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Mrs. Dr. M.V.INGAWALE

**Co-Supervisor**

Mrs. Dr. M.V.INGAWALE  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Principal**

Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Miss **Dhole Shubhangi Tukaram** has completed the report of the field work on "**Biodiversity in kas Pathar**" of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAVAL

During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

Mrs. Dr. M.V.INGAVAL

  
Co-Ordinator

Mrs. Dr. M.V.INGAVAL  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal  
G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Mr. **Wadkar Omkar Ashok** has completed the report of the field work on “**Water Conservation**” of Environmental Science subject satisfactory under the guidance of Prof.Dr. Mrs . M.V.Ingawale During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Prof.Dr. Mrs . M.V.Ingawale

**Co-Ordinator**

Prof.Dr. Mrs . M.V.Ingawale

**Coordinator**

Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**Principal**

**Prof.Dr.G.J.Fagare**

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Mr. Tushar Mahadev Kamble** B. Sc II class has completed the report of fieldwork on **Sericulture** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental studies

External examiner

Shivaji university Kolhapur

Dr. Mrs. M. V. Ingawale

coordinator

Environmental studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai



## CERTIFICATE

This is a certificate that **Mr. Shantanu Sanjay Pawar** B. Sc II class has completed the report of fieldwork on “Biological control and it’s important in Agriculture” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023-2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental Studies**  
**Environmental studies**  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE OF THE SUPERVISOR



This is to certificate that **Mr. Jadhav Saurav Santosh** Of B.Sc. 2<sup>nd</sup> Class has completed the report of the fieldwork on **"ONLINE VOTING SYSTEM"** of the Chemistry subject satisfactory under the guidance of Dr. Mrs. M.V.Ingawale Taking during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M.V.Ingawale

Supervisor

Dr. Mrs. M.V.Ingawale

Co-ordinator

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Dr.G.J.Fagare

K.V.M Collage Wai, Principle

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA,**  
**WAI**

**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. **Tanishka Sanjay Shinde** Of **B.sc. II** has completed the report of the field work on "**Endangered and endemic animal Species in India**" of Environmental Science subject satisfactory under the guidance of **Prof.Dr.Mrs.M.V.INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.



**Supervisor**

Prof. Dr. Mrs. M.V. INGAWALE



**Co-Ordinator**

Prof. Dr. Mrs. M.V. INGAWALE

**Coordinator**

**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**



**Principal**

**Prof. Dr. G.J. Fagare**

Kisan Veer Mahavidyalaya  
Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Miss **Chavan Snehal Suresh** has completed the report of the field work on “**Water Conservation**” of Environmental Science subject satisfactory under the guidance of Prof.Dr. Mrs . M.V.Ingawale During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Prof.Dr. Mrs . M.V.Ingawale

**Co-Ordinator**

Prof.Dr. Mrs . M.V.Ingawale

**Principal**

**Prof.Dr.G.J.Fagare**

**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Kisan Veer Mahavidyalaya  
Wai



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA,**  
**WAI**

**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss. **Shweta Santosh Dhanawade** Of **B.sc. II** has completed the report of the field work on "**Endangered and endemic animal Species in India**" of Environmental Science subject satisfactory under the guidance of **Prof.Dr.Mrs.M.V.INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.



**Supervisor**

Prof. Dr. Mrs. M.V. INGAWALE



**Co-Ordinator**

Prof. Dr. Mrs. M.V. INGAWALE

**Coordinator**

**Environmental Studies**  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



**Principal**


**Prof. Dr. G. J. Fagare**

Kisan Veer Mahavidyalaya  
Wai


**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss.Utkarsha Sanjiv Chavan,**  
of  
**B.Sc II Class,** has completed the report of the field work  
on the 'study of  
**'Medical Waste And Management'**  
Environmental Science subject satisfactorily, under the  
guidance of Miss .D.A.Chodhari during the year 2023-  
24, as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr.M.V.Ingawale**  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal.

**Prof .Dr.G.J.Fagare**

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER**  
**MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment Of Studies**

This is to certify that, **Miss Pharande Shraddha Dattatraya** of **B.Com-II** class has completed the report of the fieldwork on "**Forest Ecosystem In Panchagani**" of Environmental Science Subject Satisfactory under the guidance of **Prof. DR. Mrs. M.V. Ingawale** during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

  
**Dr. Mrs. M.V. Ingawale**  
**Supervisor**

  
**Prof. DR. Mrs. M.V. Ingawale**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

  
**Dr. G.J. Fagare**

**K.V.M Collage Wai**

**Principle**

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss.Rucha Santosh Deshmukh**  
of  
**B.Sc II Class**, has completed the report of the field work  
on the 'study of  
**'Medical Waste And Management'**  
Environmental Science subject satisfactorily, under the  
guidance of Miss .D.A.Chodhari during the year **2023-  
24**. as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr.M.V.Ingawale**  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara,

  
Principal.

**Prof .Dr.G.J.Fagare**



**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss. Nikita Kiran Waghmare**  
of  
**B.Sc II Class**, has completed the report of the field work  
on the 'study of  
**'Medical Waste And Management'**  
Environmental Science subject satisfactorily, under the  
guidance of Miss .D.A.Chodhari during the year 2023-  
24 as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr.M.V.Ingawale**  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal.

**Prof .Dr.G.J.Fagare**

## CERTIFICATE

This is a certificate that **Mr. Sahil Promod Mahadik** B. Sc II class has completed the report of fieldwork on “Plant Growth Regulators” of the environment subject satisfactory under the Guidance of **Dr. Mrs. M. V. Ingawale** taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

JANATA SHIKSHAN SANSTHA'S

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Mrs. **Anuraj Babasaheb Yadav** has completed the report of the field work on

**“E-Waste and it's impact on Environment ”** of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

Mrs. Dr. M.V.INGAWALE

**Co-Ordinator**

Mrs. Dr. M.V.INGAWALE

**Principal**

**Pro.Dr. G.J.Fagare**

**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

Kisan Veer Mahavidyalaya

Wai

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II Mrs. Atharv Mahesh Panse** has completed the report of the field work on **“E-Waste and it's impact on Environment ”** of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAWALE During the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr. M.V.INGAWALE

Ce-Ordinator

Mrs. Dr. M.V.INGAWALE  
**Coordinator**  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

Pro.Dr. G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai



JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Mr. Rohit Shravan Shelar** B. Sc II class has completed the report of fieldwork on **Environmental Policy In India** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental studies

External examiner

Shivaji university Kolhapur

Dr. Mrs. M. V. Ingawale

coordinator

Environmental studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI



CERTIFICATE

This is a certificate that **Mr. Rohit Shравan Shelar** B. Sc II class has completed the report of fieldwork on **Environmental Policy In India** of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

Dr. Mrs. M. V. Ingawale

**Supervisor**

Environmental studies

External examiner

Shivaji university Kolhapur

Dr. Mrs. M. V. Ingawale

**coordinator**

Environmental studies

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai Dist. Satara.

**Principal**

Dr. . G. J. Fagare

Kisan veer mahavidyalaya, wai

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss. Tejaswi Ajit Hagavane** of **B.Sc.-II** Class, has completed the report of the field work on the 'study of **'ORGANIC FARMING'** Environmental Science subject satisfactorily, under the guidance of **Mrs. Dr.M.V.Ingavale** during the year 2023-24. as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

**Mrs. Dr.M.V.Ingawale**

  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal.

**Prof .Dr.G.J.Fagare**

**JANTA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA  
WAI  
Dist-Satara**



This is to certify that, **Miss.Chetana Ashok Sawant** of **B.Sc.-II** Class, has completed the report of the field work on the 'study of **'ORGANIC FARMING'** Environmental Science subject satisfactorily, under the guidance of **Mrs. Dr.M.V.Ingavale** during the year 2023-24.as prescribed by the Shivaji University, Kolhapur.

Supervisor

Mrs. Dr.M.V.Ingawale

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal.

Prof .Dr.G.J.Fagare



**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER**  
**MAHAVIDHYALAYA, WAI.**



**CERTIFICATE**

This is to certify that **Mr. Bhosale Vedant Suresh** of **B.Sc. II** class has successfully completed the report of fieldwork on "**Green House Effect**" of the environment science subject satisfactory under the guidance of **Dr. Mrs. M. V. Ingawale** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

  
Dr. Mrs. M. V. Ingawale

Supervisor

Environmental Studies

  
External Examiner

Shivaji University, Kolhapur

  
Dr. Mrs. M. V. Ingawale

co-ordinator

Coordinator

Environmental Studies  
Environmental Studies  
Kisan Veer Mahavidyalaya

Wai, Dist. Satara.

  
Principal

Dr. G. J. Fagare

Kisan Veer Mahavidyalaya, Wai.

## CERTIFICATE

This is a certificate that **Mr. Parth Deepak Darekar** B. Sc II class has completed the report of fieldwork on “Plant Growth Regulators” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai Dist. Solapur.

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

**External examiner**

**Shivaji university Kolhapur**

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER  
MAHAVIDHYALAYA, WAI.



CERTIFICATE

This is to certify that **Mr. Shelar Tejas Sudhir** of **B.Sc. II** class has successfully completed the report of fieldwork on "**Green House Effect**" of the environment science subject satisfactory under the guidance of **Dr. Mrs. M. V. Ingawale** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

Dr. Mrs. M. V. Ingawale

Supervisor

Environmental Studies

External Examiner

Shivaji University, Kolhapur

Dr. Mrs. M. V. Ingavale

co-ordinator

Coordinator

Environmental Studies

Kisan Veer Mahavidyalaya

Wai, Dist. Satara.

Principal

Dr. G. J. Fagare

Kisan Veer Mahavidyalaya, Wai.

JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Miss **Khutekar Vaishnavi Bhagwan** has completed the report of the field work on "**Biodiversity in kas Pathar**" of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAVAL

During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

  
Supervisor  
Mrs. Dr. M.V.INGAVAL

  
Co-Ordinator

  
Coordinator  
Mrs. Dr. M.V.INGAVAL  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

  
Principal  
G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai



JANATA SHIKSHAN SANSTHA'S

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Of **B.Sc. II** Miss **Shirke Tejasvi Manohar** has completed the report of the field work on "**Biodiversity in kas Pathar**" of Environmental Science subject satisfactory under the guidance of Mrs. Dr. M.V.INGAVAL

During the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

  
Supervisor

Mrs. Dr. M.V.INGAVAL

  
Co-Ordinator

**Coordinator**

Mrs. Dr. M.V.INGAVAL  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.



Principal  
G.J.Fagare

Kisan Veer Mahavidyalaya  
Wai

## CERTIFICATE

This is a certificate that **Mr. Nikhil Dattatray Pawar** B. Sc II class has completed the report of fieldwork on “Swacch Bharat Abhiyan ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Coordinator**  
**Environmental Studies**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**External examiner**

**Shivaji university Kolhapur**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

## CERTIFICATE

This is a certificate that **Mr. Nikhil Dattatray Pawar** B. Sc II class has completed the report of fieldwork on “Swacch Bharat Abhiyan ” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

**JANATA SHIKSHAN SANSTHA'S**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**  
**Environment of Studies**

This is to certify that **Mr. Nikam Shambhuraj Rajesh** Of **B.Sc. II** has completed the report of the field work on **“Environmental Disaster”** of Environmental Science subject satisfactory under the guidance of **Dr. Mrs. M. V. INGAWALE** during the year **2023-2024** as prescribed by the Shivaji University, Kolhapur.

**Supervisor**

**Dr. Mrs. M. V. INGAWALE**

**Co-Ordinator**

**Prof. Dr.**

**Mrs. M.V.INGAWALE**  
**Coordinator**  
**Environmental Studies**  
**Kisan Veer Mahavidyalaya**  
**Wai, Dist. Satara.**

**Dr. G. J. Phagare**  
**Principal**

**Kisan Veer Mahavidyalaya**  
**Wai**



## CERTIFICATE

This is a certificate that **Mr. Kiran Sarjerao Pawar** B. Sc II class has completed the report of fieldwork on “Swacch Bharat Abhiyan” of the environment subject satisfactory under the Guidance of Dr. Mrs. M. V. Ingawale taking during the year 2023- 2024 as prescribed by the Shivaji University Kolhapur .

**Dr. Mrs. M. V. Ingawale**

**Supervisor**

**Environmental studies**

**External examiner**

**Shivaji university Kolhapur**

**Dr. Mrs. M. V. Ingawale**

**coordinator**

**Environmental studies**

**Coordinator**

**Environmental Studies**

**Kisan Veer Mahavidyalaya**

**Wai, Dist. Satara.**

**Principal**

**Dr. . G. J. Fagare**

**Kisan veer mahavidyalaya, wai**

JANATA SHIKSHAN SANSTHA'S

**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

*This is to certify that Miss. Chikane Sanika Suresh of B.Sc II Class has completed the report of the field work on "Limnological Study Of Venna Lake" of the Environment subject satisfactory under the guidance of Prof. M.V.Ingawale during the year 2022-2023 as prescribed by the Shivaji University, Kolhapur*

**Supervisor**

Prof. Dr. M.V.Ingawale

**Co-Ordinator**

Dr. M.V.Ingawale

**Principle**

Prof. Dr. G.J.Fagare

Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

**PROJECT SAMPLE COPY**

JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDHYALAYA, WAI



TITLE OF PROJECT

**"BIOFERTILIZER"**

CLASS - B.SC- II 'B' GROUP

Submitted by

Sr.No.	Name of Student	Roll No.	Exam Seat No.
1	Sanas Vishakha Pandurang	86	
2	Gaikwad Akanksha Hanmant	13	
3	Wagh Akanksha Rajendra	12	
4	Akhade Komal Kondiram	85	

UNDER THE GUIDANCE OF

Dr. Mrs. M.V. Ingawale

Project Year-2023 - 2024



JANATA SHIKSHAN SANSTHA'S  
**KISAN VEER MAHAVIDYALAYA, WAI**



**CERTIFICATE**

**Environment of Studies**

This is to certify that Miss.Sanas Vishakha Pandurang, Miss.Gaikwad Akanksha Hanmant, Miss. Wagh Akanksha Rajendra, Miss. Akhade Komal Kondiram Of B.SC. II 'B' Group has completed the report of the field work on **Biofertilizer** of Environmental Science subject satisfactory under the guidance of Dr.Miss.M.V. Ingawale during the year 2023-2024 as prescribed by the Shivaji University, Kolhapur.

Supervisor  
Dr.Mrs. M.V. Ingawale

Co-Ordinator  
Dr.Mrs. M.V. Ingawale  
Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.

Principal  
Dr. G. J. Fagare  
Kisan Veer Mahavidyalaya  
Wai

### DECLARATION OF THE STUDENT

I hereby declare that the project work entitled "Biofertilizer" is the original work carried out by me at the department of Environmental Science of Kisan Veer Mahavidyalaya, Wai. This project has not been carried out previously by any agency/ person. So I have selected this project for field work.

Place : Wai

Date :

Sr.No.	Name of Student	Roll No.	Sign
1	Sanas Vishakha Pandurang	86	<i>Sanas</i>
2	Gaikwad Akanksha Hanmant	13	<i>AGaikwad</i>
3	Wagh Akanksha Rajendra	12	<i>AWagh</i>
4	Akhade Komal Kondiram	85	<i>AK</i>

# INDEX

<b>SR.NO</b>	<b>CONCEPT</b>	<b>PAGE NO.</b>
1.	Introduction	1
2.	Market Status & Scope	2
3.	Importance of Bio fertilizer	3
4.	Definition of Bio fertilizer	4
5.	Types of Biofertilizer ❖ BIO NPK ❖ Azospirillum ❖ Mycorrhiza ❖ Phosphate Solubilizing Bacteria ❖ Potassium Solubilizing Bacteria	5 TO 8
6.	Application of Biofertilizers	9
7.	Precautions of to take while using biofertilizer.	10

## Introduction

crucial role in boosting the agricultural production, however they have a shorthistory in modern agriculture. Their immediate action and low cost managed tobging them rapidly in to the center of attention. Their toxic effects onenvironment, plant, animal and human life diverted the focus on ecofriendlyplant protection. Moreover, the development of resistance in insects againstcommon pesticides has not been solved yet. Thus, practices such as Integrated Pest Management (IPM) have gained more importance. Biopesticides areimportant componant of teh IPM. The terminology 'Biopesticide' means use of beneficial microorganisms to control the pest. However, the availability ofbiopesticide is the major constraint; considering the total cropped area.

Indiscriminate use of chemical pesticides contributed in loss of soil productivity along with addition of salts to the soil. To revive the soil health and living on alternate source has become essential concept of biofertilizer came forward,which can be a good supplement for a chemical fertilizers, Biofertilizers arenutrient availability systems in which biological process are involved,

The term biofertilizers includes selective micro-organism like bacteria, fungi andalgae. Which are capable of fixing atmospheric

nitrogen or convert solublephosphate and potash in the soil into forms available to the plants. Biofertilizer is a cost effective, eco-friendly & renewable source of land nutrient they play a vital role in maintaining a long term soil fertility & sustainability.The biofertilizer with nitrogen



fixer & phosphate solubilizer fixes 20-40 Kg of nitrogen per acre. The biofertilizer maintain the soil fertility cost by using in theyield is assured with biofertilizer & continuous use of biofertilizer makes the soil very fertile for good yield.

The biofertilizer can be manufacture in soil form or in liquid form for spraying on the plants. Biopesticide and biofertilizer is a need of modern agriculture since demand for safe and residue free food is increasing. Therefore, to cater the need, it is necessary to promote the efforts for production of biopesticides and biofertilizers in the state in private sector to encourage the entrepreneurs.



#### Market status and Scope:

Sustainable agricultural is a complex issue associated with producing food while maintaining biophysical resources including soil, water & biota with no adverse impact on the wider environment. Biofertilizer and biopesticide fulfils all the needs for sustainable agriculture. In spite of the fact that biopesticides have been extensively

used in developed countries for the past few decades, the non-availability of the same products suitable for the regionally – important pests resulted in the sluggishness of the growth of biopesticides in developing countries. However, in recent years, awareness on biopesticides among farmers of the developing world has been increasing with newer products entering the market. And surprisingly, most currently registered products for insect control are produced in developing countries and included bacteria (104 products), nematodes (44 products), fungi (12 products), viruses (8 products) and protozoa (6 products). Market for biopesticides is increasing as the agrochemical industry adapts to the problems of chemical pesticide resistance, re – registration of pesticide and changing public attitudes to pesticide use.

In India, similar condition is for biofertilizer production. Biofertilizer are available for almost all crops for three nutrient i.e. N (N-fixers), P (P-solubilizers) & K (K- mobilizers). Therefore biofertilizer consumption is expected to increase too manyfold in coming years. Previously the state agriculture universities non government organizations were engaged in mass production of biofertilizers. But now several small and medium sector manufacturers have come in picture. Largest producing states being Madhya Pradesh, Maharashtra, Karnataka and Tamilnadu. The biofertilizer demand in India is several thousand tones, but no sufficient production facilities are available.

- IMPORTANCE OF BIOFERTILIZER

Biofertilizers are important for the following reasons:

- Biofertilizers improve the soil texture and yield of plants.
- They do not allow pathogens to flourish.
- They are eco-friendly and cost-effective.
- Biofertilizers protect the environment from pollutants since they are natural fertilizers.
- They destroy many harmful substances present in the soil that can cause plant diseases.
- Biofertilizers are proved to be effective even under semi-arid conditions.

### Biofertilizers:

'Bio' means 'life'. Therefore, by definition biofertilizers are living organisms that enrich the nutrient quality of the soil. It refers to the use of microbes instead of chemicals to enhance the nutrition of the soil. As a result, it is also less harmful and does not cause pollution.

This is what makes them so important to organic farming because they are completely environment-friendly. Let's take a look at the different microbes that are used as biofertilizers.

Biofertilizers are the substance that contains microorganism's living or latent cells. Biofertilizers increase the nutrients of host plants when applied to their seeds, plant surface or soil by colonizing the

rhizosphere of the plant. Biofertilizers are more cost-effective as compared to chemical fertilizers.

### Types of Biofertilizers:-

Biofertilizers have a broad segment. It has very different kinds of living organism-based bacteria like:-

- Bio NPK
- Acetobacter
- Azospirillum
- Azotobacter
- Mycorrhiza
- Potassium Solubilizing Bacteria
- Phosphate solubilizing bacteria
- Zinc Solubilizing Bacteria
- Sulphur Solubilizing Bacteria

Rhizobium is one of the top bio fertilizer that widely used in farming. There are many different kinds of bio fertilizers, and have unique characteristics with different target crops. Let us know more about it in detail below.

### Bio NPK:-

Bio NPK is a combination of three different types of bacteria. Nitrogen, Phosphorus and Potassium. NPK bio fertilizer boosts nitrogen uptake while also producing plant growth hormones and vitamins. These aids the crop's germination, early emergence, and root development.



NPK bio fertilizer increases the availability of micronutrients (such as Mn, Mg, Fe, Mo, B, Zn, and Cu) from the soil to the plant, resulting in faster root growth, and nutrients uptake, and increased resistance/tolerance to diseases/drought.

#### Acetobacter (Biofertilizers)

Acetobacter is a Nitrogen-Fixing Bacteria (Biofertilizers) and is widely used for sugar-producing crops. Acetobacter forms colonies inside the crop tissues and provides sufficient nitrogen in crops. It also produces growth hormones that support roots & shoot growth.

#### Advantages of Acetobacter:-

- It improves soil fertility.
- Nature-friendly and chemical-free solutions.
- Encourage root proliferation and rootlet density and branching, which results in increased mineral and water uptake and plant growth.

#### Azospirillum:-

Azospirillum is also a type of Nitrogen-fixing bio-inoculant and is used as a biofertilizer. Azospirillum also produces a large number of biologically active substances such as vitamins, nicotinic acid, indole acetic acids, and gibberellins.

#### Advantages of Azospirillum:-

- Stimulate plant growth
- Helpful in nitrogen fixation
- Helps in better germination
- Helps in better root development

### Mycorrhiza

Mycorrhiza is a kind of fungus used in crops as a bio fertilizer. Mycorrhiza fungi form a symbiotic relationship with plant roots to increase the absorption of phosphorus, water, and minerals from the soil. It also protects from diseases causing organisms to the roots. Mycorrhiza also restores original soil fertility.



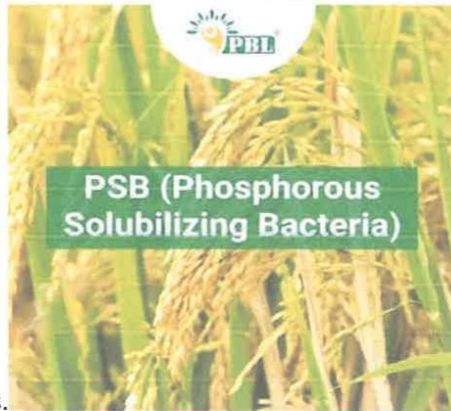
### Advantages of Mycorrhiza:-

- Improves nutrient absorption from the soil.
- Improves plant growth.
- Improves stress management.
- Helps in healthier and dense root development.

### Phosphate Solubilizing Bacteria

Phosphate solubilizing bacteria or PSB is capable of solubilizing inorganic phosphate from insoluble components. PSB is widely used as a bio fertilizers for

plant growth and nutrient use efficiency. Soil microbes play an important role in regulating the decomposition dynamics of organic matter and the availability of plant nutrients such as nitrogen (N), phosphorus (P), potassium (K), and other



nutrients.

#### Advantages of Phosphate Solubilizing Bacteria:-

- Increase the availability of micronutrients such as Mn, Mg, Fe, Mo, B, Zn, and Cu from the soil in addition to P<sub>2</sub>O<sub>5</sub>.
- Stimulate rapid root growth for water and nutrient absorption.
- Produce organic acids such as malic, succinic, fumaric, citric, tartaric acid, and acetic acid that accelerate P<sub>2</sub>O<sub>5</sub>, and increase maturation and yield.
- Increases disease resistance and drought tolerance in plants due to rapid cell growth.
- Substances that promote growth, such as adapting to the plant along with other beneficial microbes.
- Reduce the need for phosphatic fertilizer by 25 – 30%.

### Potassium Solubilizing Bacteria

Potassium soluble bacteria is a biofertilizer that plays an important role in the formation of mono acids and proteins, these are produced by ammonium ions, which are then absorbed by the root from the soil. It also helps plants to take up other elements that activate several enzymes.

Advantages of Potassium Solubilizing Bacteria or PSB:-

- It helps in raising potash in all soil types and increases the crop yield by 15-20%.
- Increases crop resistance against different weather conditions
- Improves fruit and grain size and quality of crops.
- It also helps in photosynthesis properly.

### Application of Biofertilizers:-

Soil Treatment: Bio fertilizers can be used to treat soil since they restore the soil's original fertility. For soil treatment, we mixed bio fertilizers with compost fertiliser and, we kept mixture for a night. Then we spread this mixture into soil where seed is to be sown.

Seed Treatment: We can also use organic fertilizers to treat the seeds. For seed treatment process, seeds are soaked in a mixture of nitrogen and phosphorus fertilizers. After that, the seeds dry out and harden as quickly as possible.

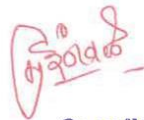
- These are some of the most important Bio fertilizers types that are widely used in crops. So Bio fertilizers are the need of the hour. They are stable reliable and environment-friendly also. Peptech Biosciences deals in various types of Bio fertilizers. You may check the technical details of Biofertilizers-Products



- Biofertilizer product must contain good effective strain in appropriate population and should be free from contaminating microorganisms.
- Select right combination of biofertilizers and use before expiry date.
- Use suggested method of application and apply at appropriate time as per the information provided on the label.
- For seed treatment adequate adhesive should be used for better results.
- For problematic soils use corrective methods like lime or gypsum pelleting of seeds or correction of soil pH by use of lime.
- Ensure the supply of phosphorus and other nutrients.

### Precautions to take while using biofertilizers :

- Biofertilizer packets need to be stored in cool and dry place away from direct sunlight and heat.
- Right combinations of biofertilizers have to be used.
- As Rhizobium is crop specific, one should use for the specified crop only.
- Other chemicals should not be mixed with the biofertilizers.
- While purchasing one should ensure that each packet is provided with necessary information like name of the product, name of the crop for which intended, name and address of the manufacturer, date of manufacture, date of expiry, batch number and instructions for use.
- The packet has to be used before its expiry, only for the specified crop and by the recommended method of application.
- Biofertilizers are live product and require care in the storage
- Both nitrogenous and phosphatic biofertilizers are to be used to get the best results.
- It is important to use biofertilizers along with chemical fertilizers and organic manures. Biofertilizers are not replacement of fertilizers but can supplement plant nutrient requirements.



**Coordinator  
Environmental Studies  
Kisan Veer Mahavidyalaya  
Wai, Dist. Satara.**

