



Pravara Rural Education Society's
Arts, Science and Commerce College,
Kolhar Tal. Rahata, Dist.- Ahmednagar- 413710
Affiliated to Savitribai Phule Pune University, Pune

Self Study Report: 2023 (2nd Cycle)



Criteria -3

**Research, Innovation
& Extension**

**Key Indicator: 3.5
Collaboration**

Metric: 3.5.1 (QnM)

The number of MoUs ,collaboration/ linkages for Faculty exchange, Student exchange , Internship ,Field project ,on-the- job training, research and other academic activities during the last five years



Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BENGALURU

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Academic Year 2020-21

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Approved ACABC Centre

Reg ID :- M.S.7960,
UAN- MH 01A0003100

Anand Agri Biotech

Being Organic, Better Farming Solution

Date : 22/02/2021

MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of understanding herein referred to as 'MoU' is entered on 22nd February, 2021.

BETWEEN: Department of Zoology, Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee) Pravara Rural Education Society, Arts, Science and Commerce College, Kolhar having its registered office at Kolhar, Tal-Rahata, Dist- Ahmednagar (MS), 413710 herein after referred as 'First Party';

AND: Anand Agri Biotech bearing Regi. No. M.S. 7960 having its registered office at Durgapur, Post- Hasnapur, Tal-Rahata, Dist- Ahmednagar (MS), 413736 herein after referred as 'Second Party'.

Now the above parties hereby agree to the following:

1) Preamble and Background for the MoU:

The first party is **Department of Zoology, Arts, Science and Commerce College, Kolhar**, engaged in the field of **Education**.

The second party is **Anand Agri Biotech, Durgapur**, engaged in the field of **Agriculture**.

2) Purpose of MoU:

- To establish the vermicompost unit in the college.
- Guidance for maintenance of the vermicompost unit.
- Guidance sessions for the students.
- Practical training through on site visit to Anand Agri Biotech for the students of 'Vermiculture' certificate course.

3) Roles and Responsibilities:

Both the Parties agree to carry out the following roles and responsibilities:

- The College will provide all the necessary facilities to carry out the activities. No expenses will be beared by the Anand Agri Biotech, Durgapur.
- The training, field visit shall be conducted as per the schedule and convenience of Anand Agri Biotech, Durgapur.
- Each party shall ensure that no party should hold liable for any act of the respective party under this MoU.

At. Durgapur, Post. Hasnapur, Tal.Rahata, Dist. Ahemadnagar MH - 413737
Contact :- 7057439030, 9421839030 Email :- prashantpulate@gmail.com



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4) **Effective Date:**

This MoU will come into effect on the date of signature and will remain in force until either side delivers written notification to the other of its intention to terminate the Memorandum, in which case the parties will terminate two months after the receipt of such notification.

5) **Modification:**

The MoU may be amended by mutual consent through an exchange of correspondences between the two parties and by entering into supplementary MoU.

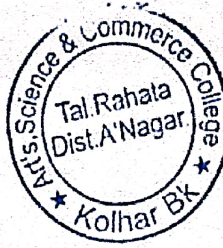
6) **Applicable Laws:**

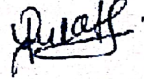
If any clause of this MoU overrides or is contrary to any other prevailing law which is applicable to the parties for the time being in India, then the existing and relevant Act, Rule or regulation shall prevail over such clause of this MoU.

For First Party,
Arts, Commerce and Science College, Kolhar

For Second Party
Anand Agri Biotech, Durgapur


H/c PRINCIPAL
Arts, Science & Commerce College
Kolhar, Tal. Rahata, Dist. Ahmednagar.




आनंद अग्री बायोटेक
प्रोप्रायटर

At. Durgapur, Post. Hasnapur, Tal. Rahata, Dist. Ahemadnagar MH - 413737
Contact :- 7057439030, 9421839030 Email :- prashantpulate@gmail.com





Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee)
Pravara Rural Education Society
ARTS, SCIENCE & COMMERCE COLLEGE, KOLHAR
Tal. Rahata, Dist. Ahmednagar- 413 710

(Affiliated to Savitribai Phule Pune University, Pune)

A REPORT ON
A Field Visit to-
“VERMICOMPOSTING UNIT”

At
Anand Agri Biotech, Durgapur
Tal- Rahata, Dist- Ahmednagar



Organized by,
Department of Zoology
Date: (2nd March, 2021), Time: 2.00 P. M.





LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY

ARTS, SCIENCE & COMMERCE COLLEGE
KOLHAR

Tal. Rahata, Dist. Ahmednagar, Pin - 413 710
NAAC Accredited at 'A' Grade with CGPA 3.10

A Field Visit to

"VERMICOMPOSTING UNIT"

Introduction:

A field visit was organised by **Department of Zoology, Arts, Science and Commerce College, Kolhar** in collaboration with **Anand Agri Biotech, Durgapur Tal-Rahata, Dist- Ahmednagar** for the students. The activity was organized on **2nd March, 2021** under the MoU signed between **Department of Zoology and Anand Agri Biotech, Durgapur** dated 22/02/2021.

Vermicompost is known to be the world's best fertilizer. Vermicomposting is a method of preparing enriched compost with the use of earthworms. It is one of the easiest methods to recycle agricultural wastes and to produce quality compost. Earthworms consume biomass and excrete it in digested form called worm casts. Worm casts are popularly called as Black gold. The casts are rich in nutrients, growth promoting substances, and beneficial soil micro flora and having properties of inhibiting pathogenic microbes. Vermicompost is stable, fine granular organic manure, which enriches soil quality by improving its physicochemical and biological properties. It is highly useful in raising seedlings and for crop production. Vermicompost is becoming popular as a major component of organic farming system. Using Vermicompost can fulfil the requirements for organically grown products.

Objectives:

- To create awareness among students about benefits of organic farming.
- To explore propagation of vermicompost among students for better yield of Crop.
- To develop training, skill & team work spirit among students.
- To promote the students to make their own unit.

Details of the Visit:

We the staff members along with students, reached the vermicomposting unit situated at Durgapur at 2.00 pm. The unit was established in 2015-16 and successfully run by the owner **Mr. Prashat L. Pulate**. The details of the vermitechology were discussed with him. The faculty members also guided the students. The students observed various stages of development from cocoon to young and adult earthworms.

Students were trained in handling the equipments and earthworms. The students studied the different stages in the life-cycle of earthworm. They observed the different methods of bed preparation, inoculation and separation of culture. The trainer Mr. Prashant L. Pulate explained different stages and methods of vermicomposting in details. He started the session with interesting information about vermiculture. He explained the production technology with materials used, process of preparation and harvesting of the compost.

He focused on the fact that vermicompost has been emerging as an important source in supplementing and substituting chemical fertilizers in agriculture. Vermicompost, also known as 'farmer's friend' is used for general crops and plantation crops. It is a valuable input for sustainable agriculture and wasteland development. It is a growth promoter and helpful in providing hormones required for plant growth. There is a lot of demand for vermicompost among farmers as its use increases quality of agricultural products and its price is also cheaper. It is also used widely in pot culture and in home gardens. In addition, many government departments including agriculture, forest and horticulture buy it in bulk. Its demand has decreased over the years. Government agencies and NGOs are popularizing organic agriculture using vermicompost by organizing awareness campaigns and film show in rural and urban areas.

Students interacted with the trainer and farm-workers to know about the sericulture. They asked various questions arising in their minds. The students acquired the knowledge about species of earthworms, procurement of culture, their storage, harvesting and use of vermicompost. As many of the students are belonging to the farmers' families they feel it as a great experience. Many of them asked about the economics of the vermiculture also. It was a good interaction session where the students clarified their doubts & some could answer his questions. Mr. Prashant Pulate was delighted with the students' response.

Along with the 03 teachers, 32 students from our college participated in this study visit.



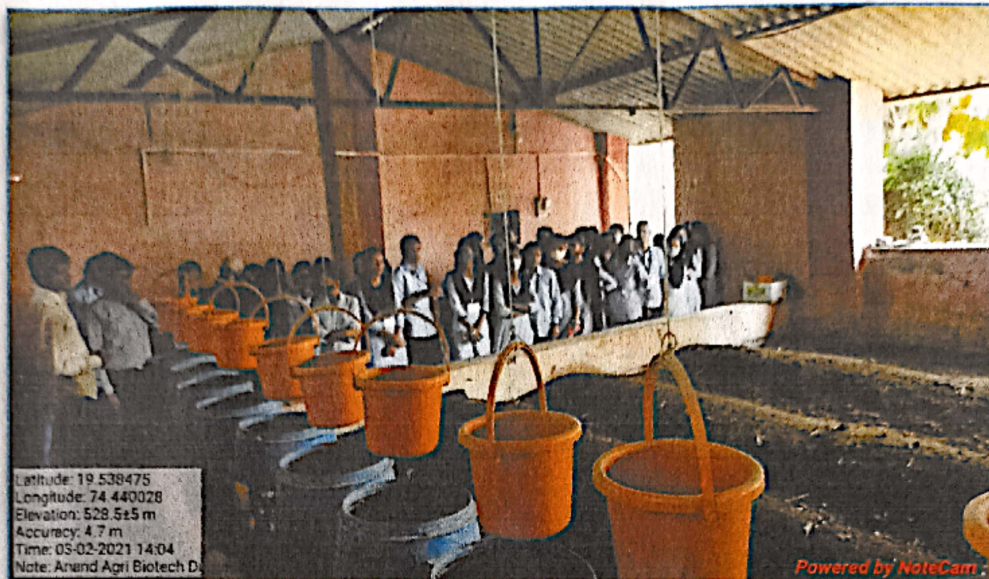

I/C PRINCIPAL
Arts, Science & Commerce College
Kolhar, Tal. Rahata, Dist. Ahmednagar.

आनंद अग्नी वायोटेक

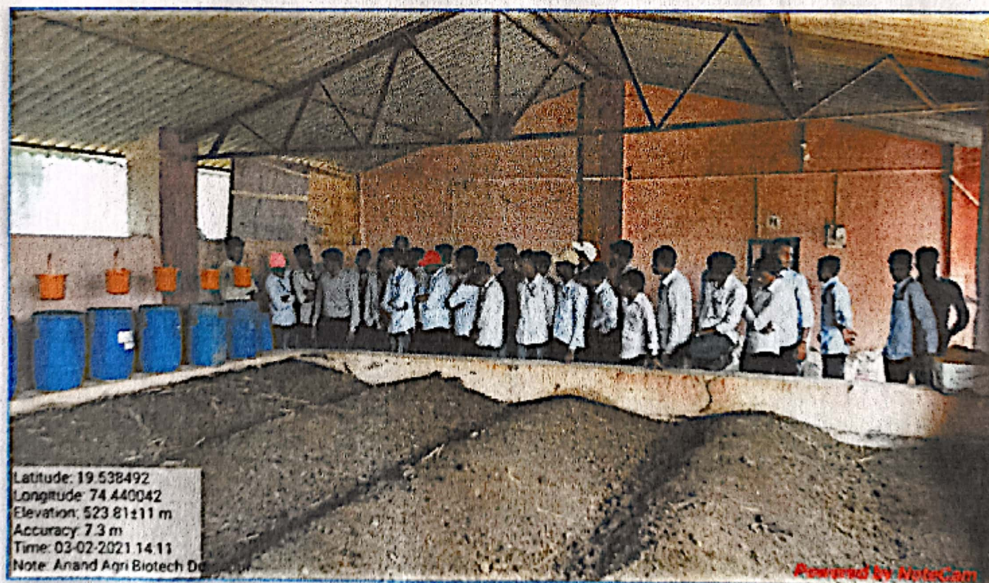
प्रोप्रायटर

PHOTO GALLERY

VISIT TO A VERMICOMPOSTING UNIT

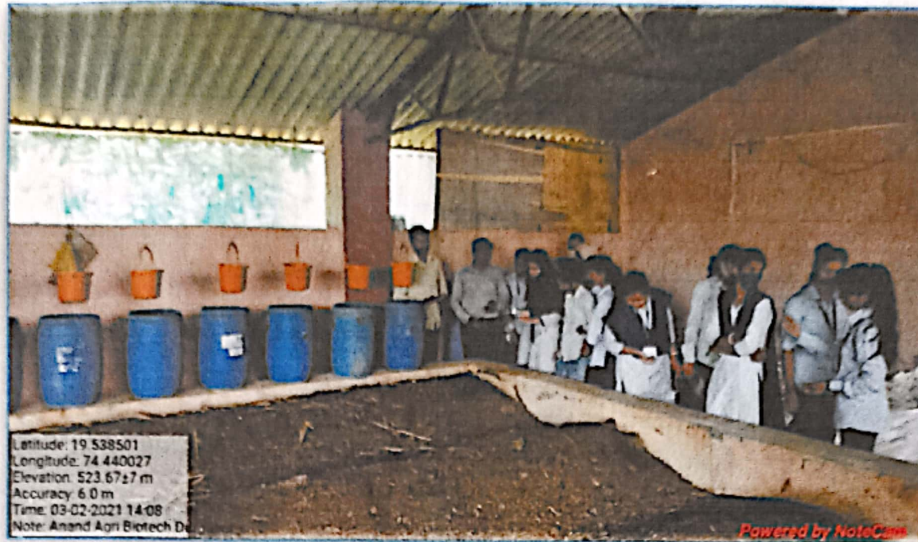


Students at Vermicomposting unit

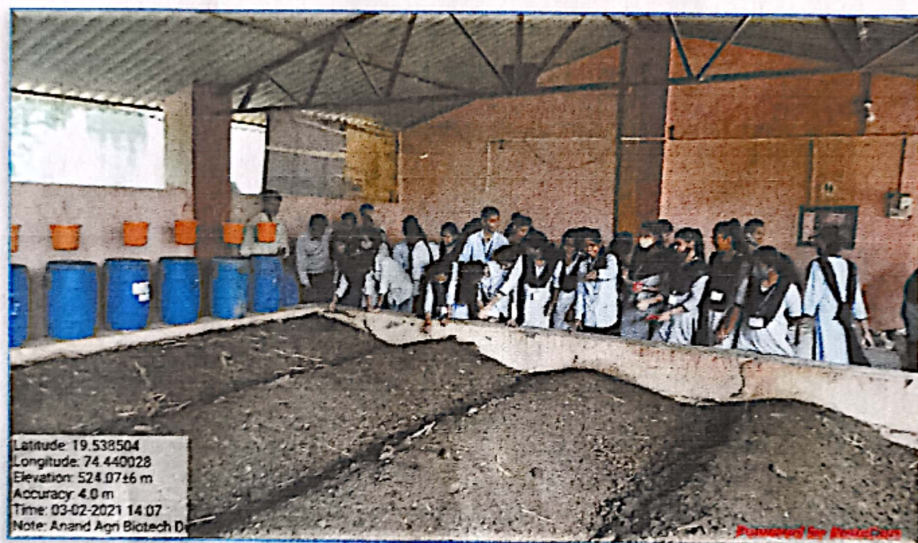


Students learning about Vermiwash





Involved in observation and discussion



Students solving their queries



Vermicompost bed with culture



आनंद भेंडी बायोटेक प्रकल्प
जुलै
प्रिन्सिपल

Principals
I/c PRINCIPAL
Arts, Science & Commerce College
Kolhar, Tal. Rahata, Dist. Ahmednagar.



Avishkar®

Biofarm (P) Ltd.

**Manufacturers of Biofertilizers, Biopesticides,
Organic Manure & Allied Products.**

Pravaranagar - 413 712, Tal. Rahata, Dist. A. Nagar. (M.S.)

☎ (02422) 272041, M. 8275452465, 66, 9881800664

E mail : avishkarbio@gmail.com

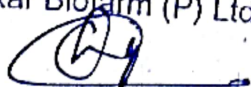
Regi.No.: U 24119 PN 1999 PTC 13262

Memorandum of Understanding

Avishkar Biofarm Pvt Ltd. Pravaranagar and Department of Botany of Arts, Science and Commerce College, Kolhar, Tal-Rahata, Dist -Ahmednagar (Maharashtra) are hereby signing the Memorandum of Understanding (MoU) on **25th August 2018** with the following understandings

1. Memorandum of Understanding is for the **period of three years** from the date of signing.
2. Under this MoU Resource persons of Avishkar Biofarm Pvt Ltd. Pravaranagar will guide staff and students of Arts Science and Commerce College Kolhar in regards to biofertiliser production and awareness and will have to give services for research practical and training.
3. Avishkar Biofarm Pvt Ltd. Pravaranagar and Department of Botany of Arts Science and Commerce Kolhar will guide the students for use of laboratories in concern subject.

Avishkar Biofarm (P) Ltd.


Director



I/c PRINCIPAL
Arts, Science & Commerce College
Kolhar, Tal. Rahata, Dist. Ahmednagar.



LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)

PRAVARA RURAL EDUCATION SOCIETY

ARTS, SCIENCE & COMMERCE COLLEGE
KOLHAR

Tal. Rahata, Dist. Ahmednagar, Pin - 413 710

NAAC Accredited at 'A' Grade with CGPA 3.10

A Report

On

Field Visit

At Avishkar Biofarm Unit

Pravaranagar

Year 2020-21



Activity report under MoU

- Department of Botany ,Arts Sciences and Commerce College, Kolhar has signed Memorandum of Understanding with Avishkar Biofarm Pvt.Ltd. Pravaranagar

Functional Activities under MoU: Department of Botany

- **Organization with which MoU is signed:** Avishkar Biofarm Pvt.Ltd. Pravaranagar
- **Name of the institution/ industry visited to:** Avishkar Biofarm Pvt.Ltd. Pravaranagar
- **MoU Duration:** From August 2018 (3 Years)
- **Date of visit:** 22.1.2021
- A study tour of B.Sc. students at Avishkar Biofarm Pvt.Ltd. Pravaranagar was organized by Department of Botany, on 22.1.2021. 30 students participated to study the Biofertilizer technology, seed treatments various equipments of microbiology..
During visit, importance of biofertilizer, seed treatments .Students understands the different types of biofertilizer, use of biofertilizer, various seed treatments.
The objective of the visit was to develop the confidence and to create entrepreneurship, practical knowledge and to give exposure for sustainable academic as well as socio-economic development among students who come from deprived sections of the society.

Dr S.N. Shingote Principal encouraged for the successful arrangement of the study tour .Dr. P.S. Vikhe and Ms. Y.S. Sonawane took efforts for this study tour.



Practical Session: Handling of Instruments used in Microbiology, Tissue culture.



Practical Session: Seed treatment, Biofertilizer production.

P.S. Vekale
Head
Department of Botany
Arts, Science and Commerce College, Kolhar



Pravar Nagar, Tal. Rahata
Dist. A. Nagar. Pin-413712

Zamir
Principal
Pravara Rural Education Society's
Arts, Science and Commerce College, Kolhar



Pravara Institute of Research and Education in Natural and Social Sciences'

KRISHI VIGYAN KENDRA (PIRENS)



पायरेन्स
PIRENS

A/P. BABHALESHWAR-413 737, Tal. Rahata, Dist. Ahmednagar, Maharashtra (India)

भा.कृ.अनु.प.
ICAR

Ref. KVK (PIRENS)/ 1209 21
117 2537

Date : 20/08/2018

Memorandum of Understanding

Krishi Vigyan Kendra, Babhaleshwar Tal-Rahata, Dist –Ahmednagar and Department of Botany of Arts, Science and Commerce College, Kolhar, Tal-Rahata, Dist. – Ahmednagar are hereby signing the MoU on 20/08/2018 with the following understandings.

1. Memorandum of understanding is for the **period of three years** from the date of signing.
2. Under this MoU Resource persons from Krishi Vigyan Kendra, Babhaleshwar will guide students in regards to Plant Nursery, *Spirullina Azolla* cultivation for research practical and training at Department of Botany of Arts, Science and Commerce College, Kolhar, Tal-Rahata, Dist. – Ahmednagar as Experts.
3. Krishi Vigyan Kendra Bhabhaleshwar and Department of Botany of Arts Science and Commerce Kolhar will guide the students for use of laboratories in concern subject.

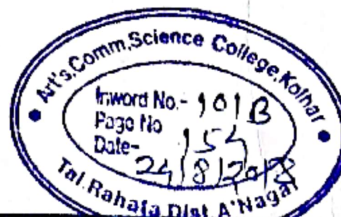
Sr. Scientist & Head

Krishi Vigyan Kendra,
Babhaleshwar

Krushi Vigyan Kendra (PIRENS)
A/p. Babhaleshwar, Tal. Rahata
Dist. Ahmednagar-413737



Principal
Arts, Science & Commerce College
Tal. Rahata Dist. Ahmednagar



☎: Off. (02422) 252414, 253612, 253008 • Tele Fax : 253536
Website : www.kvk.pravara.com. • E-mail : kvkpravara@sancharnet.in



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Activity report under MoU

- Department of Botany ,Arts Sciences and Commerce College, Kolhar has signed Memorandum of Understanding with Krishi Vigyan Kendra (PIRENS) Babhaleshwar MoU Signed between

Functional Activities under MoU: Department of Botany

- **Organization with which MoU is signed:** Krishi Vigyan Kendra (PIRENS) Babhaleshwar
- **Name of the institution/ industry visited to:** Krishi Vigyan Kendra (PIRENS) Babhaleshwar
- **MoU Duration:** From August 2018 (3 Years)
- **Date of visit:** 29.1.2021

A study tour of B.Sc. students at Krishi Vigyan Kendra (PIRENS) Babhaleshwar was organized by Department of Botany, on 29.1.2021. 30 students participated to study the Plant propagation methods, Nursery management, and seedlings transplantation.

During visit, faculties explain the importance of nursery management Seedling Care Transplanting Seedlings. Students understand the different types of propagation methods. The objective of the visit was to develop the confidence and to create entrepreneurship, practical knowledge and to give exposure for sustainable academic as well as socio-economic development among students who come from deprived sections of the society.

Dr S.N. Shingote Principal encouraged for the successful arrangement of the study tour .Dr. P.S. Vikhe and Ms. Y.S. Sonawane took efforts for this study tour.


PRINCIPAL
Arts, Science & Commerce College
Kolhar, Tal. Rahata, Dist. Ahmednagar.



Student's visit to study the Plant propagation methods, Nursery management.



Student's visit to study the Plant propagation methods, Nursery management.



Practical session: Seedlings transplantation



Practical session: Seedlings transplantation

Vikhep
 Head
 Department of Botany
 Arts, Science and Commerce College Kolhar



Principa
 I/C PRINCIPAL
 Arts, Science & Commerce College
 Kolhar, Tal. Rahata Dist. Ahmednagar.

MEMORANDUM OF UNDERSTANDING

Between

Pravara Rural Education Society's
Arts, Science and Commerce College, Kolhar



And

Shirdi Sai Rural Institute's
Arts, Science and Commerce College, Rahata



1 . Purpose

With the object of promoting their co-operation in academic education and research, Pravara Rural Education Society's **Arts, Science and Commerce College, Kolhar** and Shirdi Sai Rural Institute's **Arts, Science and Commerce College, Rahata**, individually also "Party" and collectively the "Parties", enter into the following Memorandum of Understanding ("MoU").

2 . Forms of Co-operation

Within such fields as are mutually acceptable for the Parties, the following forms of co-operation, amongst others, may be pursued hereunder:

- Exchange of students
- Joint teaching activities
- Joint research activities
- Visits by, and exchange of, scholars, teachers and other staff.

3 . Specific Co-operation Projects

Specific co-operation projects, for instance within such fields as described in section 2 above, must be negotiated separately between the Parties and are in each specific case to be established in separate written agreements, stating the respective rights and obligations of the Parties. In case of any ambiguity or conflict of terms between the terms and conditions of this MoU and those of a separate agreement as mentioned above, the terms and conditions of such separate agreement shall prevail.

4 . Financial Arrangements

Both Parties understand that all financial arrangements between the Parties have to be further negotiated and mutually agreed, and will depend on the availability of funds. Both parties may seek financing of joint activities from internal and external sources available to them.

5 . Liability

Except for loss or damages caused through gross negligence or intent, the Parties shall have no liability to each other hereunder.

6. Legal Relationship

This MoU shall be construed as a statement of purpose to promote a genuine and mutually beneficial collaboration between the Parties. Nothing in this MoU shall create any legal relationship between the Parties.

7. Commencement, Renewal, Termination

This MoU will be effective from the date of the last signature hereto and will remain in force for a time period of five (5) years, with a possibility for renewal at the end of the five-year-period, subject to the Parties' written agreement. Either Party may terminate this MoU by giving six (6) months' notice in writing to the other Party.

This MoU has been drawn up in two (2) original copies in the English language, each Party receiving one duly signed copy hereof.

Signed on behalf of
Pravara Rural Education Society's
Arts, Science and Commerce College,
Kolhar.

Place: Kolhar

Date:


Signed on behalf of
Shirdi Sai Rural Institute's
Arts, Science and Commerce College,
Rahata.

Place: Kolhar

Date:


Principal
Arts, Science and Commerce College
Kolhar Tal-Rahata Dist- Ahmednagar
Pravara Rural Education Society's
Arts, Science and Commerce College,
Kolhar Tal-Rahata Dist- Ahmednagar




Director
Shirdi Sai rural institute
Nongovernment Organization (NGO)
Shirdi Sai Rural Institute's
Tal. Rahata, Dist. Ahmednagar
Nongovernment Organization
Pravaranagar.
Tal- Rahata
Dist.- Ahmednagar



SHIRDI SAI RURAL INSTITUTE, PRAVARANAGAR

Arts, Science and Commerce College Campus, Rahata,
Tal- Rahata, Dist-A. Nagar (423107)



Email: ssripravara@rediffmail.com
Website: http://pravarassri.org.in

Phone- (02423) 243892, 242488
Fax- (02423) 242488
Estd- 28th January 1997
Reg.No.-BPT Act E-16710 (Mumbai)



(Recipient of Maharashtra State Govt. Information Technology Award –HRD 2009)

Ref.SSRI/Est./2021-22/

Date- 24/03/2021

To,
The Principal
Arts Science and Commerce College Kolhar.
Tal-Rahata, Dist-Ahmednagar.

Subject: Sanction of a research project to Mr. Pehere B.M.

I request to you send the following documents or information in order to enable this office to take further necessary action.

- Confirmation letter from the college that the teacher is permanent or non-grantable Post with UGC pay scale.
 - Whether the department in which the teacher is working is grantable or not: Yes/No.
 - Category of principal investigator :General /OBC /SC /ST /minority/women
- Note: You are requested to reply with in 15 days otherwise the project will be cancelled




Director
Shirdi Sai Rural Institute
Tal. Rahata, Dist. Ahmednagar

SHIRDI SAI RURAL INSTITUTE, PRAVARANAGAR

Arts, Science and Commerce College Campus, Rahata,
Tal- Rahata, Dist-A. Nagar (423107)

Email: ssripravara@rediffmail.com
Website: <http://pravarassri.org.in>

Phone- (02423) 243892, 242488

Fax- (02423) 242488

Estd- 28th January 1997

Reg.No.-BPT Act E-16710 (Mumbai)



(Recipient of Maharashtra State Govt. Information Technology Award –HRD 2009)

Ref.SSRI/Est./2021-22/067

Date- 01/03/2022

CERTIFICATE

This is to certify that Mr. B. M. Pehere has successfully completed research project entitled " Effect of Magnetic Field on Water and its Application to Agriculture.".

Sponsored by Shirdi Sai rural institute , Rahata for the period of 2020-2022 and submitted final research project report.




DIRECTOR
Shirdi Sai Rural Institute, Pravaranagar
Tal. Rahata, Dist. Ahmednagar



LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY

**ARTS, SCIENCE & COMMERCE COLLEGE
KOLHAR**

Tal. Rahata, Dist. Ahmednagar, Pin - 413 710
NAAC Accredited at 'A' Grade with CGPA 3.10

Ref. No.: ASCCK/21-22 / 345

Date: 2/03/2022

To,
The Director,
Shirdi Sai Rural Institute
Non-governmental organization (NGO)
A/P: Rahata, Tal: Rahata, Dist: Ahmednagar,
Maharashtra, India

Sub. : Utilization of Research Project Grant

Ref: Letter Dated: 24/03/2021

Respected sir,

With respect to the above subject project entitled, "**Effect of Magnetic Field on Water and Its Application to Agriculture**" was submitted by **Department of Physics** for financial assistance and was sanctioned by you.

In this regards, I have completed the project and the amount of Rs. 10,000/- mentioned against the expenditure has been utilized on the project for the purpose for which it was sanctioned. I have satisfied myself that the conditions on which the grants-in-aid were sanctioned have been duly fulfilled.

I shall be thankful if you kindly consider the report of research project and utilization. I further request you to release the sanction grants as per the utilization as soon as possible. Please do the needful.

Thanking you.

Yours Sincerely,

(Mr. Pehere B.M)

Forwarded through ASC College, Kolhar
Enclosure: Sanction of Research Paper copy

(Dr. S. N. Shingote)

Principal
Pravara Rural Education Society's
Arts, Science and Commerce College, Kolhar



Statement of Expenditure in Respect of Minor Research Project


1. Name of Principal Investigator: Mr. Pehere Babasaheb Mohan
2. Department of Principal Investigator: Physics
3. College: Arts, Science and Commerce College, Kolhar
4. University: Savitribai Phule Pune University, Pune
5. Title of the Minor Research Project: "Effect of Magnetic Field On Water And Its Application To Agriculture"
6. Research Project Sanction Date: 09/03/2022
7. Effective Date of Starting the Project: 24/03/2021
8. Details of Expenditure:

Expenditure Incurred

Sr. No.	Item	Amount Utilize
1	Laboratory Work	8,000
2	Field work	1,000
3	Printing/ Editing/ Typing of Research Project	1,000
Total		10,000

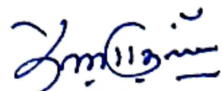
(In words: Ten Thousand Rupees only)

Yours Sincerely,


(Mr. Pehere B.M)

Forwarded through: ASC College, Kolhar




(Dr. S. N. Shingote)

Principal
Pravara Rural Education Society's
Arts, Science and Commerce College, Kolhar