

Shri Sarada Education Society (Trust)'s
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SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE
ANJANGAON SURJI, DIST- AMRAVATI (Maharashtra) 444705
NAAC Accredited 'A' with CGPA 3.21



DEPARTMENT OF ZOOLOGY

ACADEMIC SESSION 2022-2023

Extension Activity - Department of Zoology



गो-कृपा अमृतम

प्रकृति के समस्त जीवों के लिए गोमाता का आशीर्वाद

Smt Radhabai Sarada Arts, Commerce and Science College

Anjangaon Surji

Department of Zoology - Session 2022-23 -

Extension Activity Report Department of Zoology

Go –Krupa Amrutam

Awareness in Anjangaon Surji Region .

Go –Krupa Amrutam contain hormones which leads the overall growth of plant. Amrutam is useful in bioorganic farming because it is eco friendly. It contains all type of micronutrients which leads the growth of the root of the plant. It will increase the water holding capacity of soil and also improve seed germination rate. 'Go-Krupa Amrutam' is a bacterial culture with over 70 friendly bacterial strains that perform a range of different functions for the plant, and results reported by farmers have been extremely encouraging. This culture is developed using panchgavya of pure breed Gir Gaumatas and various other Ayurvedic aushadhi's (herbs) with many years of research and experimentation with support from leading Ayurvedacharyas and Agricultural Scientists of Bharat. This is being offered by The Gaushala at absolutely no cost, as a blessing of Gaumata. This is a live culture and self-replicating. So once the farmer takes it from us, he can replicate and use the culture for many years at his own farm. This is a live culture is use by various farmer in Anjangaon Surji and also this Go-Krupa amarutum and Vermicompost is use in **Paras Bag of Sitabai Sangai Primary School, Anjangaon** under my gidence **Dr.Mamta R.Yeotkar, Department of Zoology** .More than 25 essential vegetables in Paras bag and

essential Fiber contain vegetable grow in Paras Bag.



Go-Krupa -Amrutam Guidance gives to various farmer in Anjangaonsurji.



Go-Krupa Amrutam-Project in Sitabai Sangai Primary School , Anjangaon Surji



सीताबाई संगई प्राथमिक शाळा, अंजनगाव सुर्जी
सॅद्रिय परसबाग

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3	तृती	10	प्र.स. शिंदे	13	पाचवी	10	प्र.स. शिंदे
4	चौथी	10	प्र.स. शिंदे	14	हायस्क	10	प्र.स. शिंदे
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Results from Go-Krupa Amrutam-

Go-Krupa Amrutam has been accepted for use by lakhs of farmers so far across 22 states with encouraging results reported in over 10 Varieties of soil. Farmers in these states have used this culture in over 65 **different** crops / fresh produce with revolutionary results. Go-Krupa Amrutam is helping thousands of farmers to fully eliminate their costs on synthetic fertilizers & pesticides from the first season itself. Farmers have reported improved plant health, higher quantity as well as quality of produce.

Significance of friendly bacteria to soil health and fertility -

- Bacteria are single celled microscopic organisms that are present virtually everywhere, from soil to the atmosphere and oceans. The human body shares a symbiotic relationship with trillions of friendly bacteria, which out number human cells .
- Bacteria are the very source of sustenance of life, and perform an incredible wide range of functions, from boosting immunity to absorbing nutrients.
- Modern science uses friendly or probiotic bacteria to treat diseases from digestive disorders to depression. For example, bacillus clausii is a soil based bacterial strain which is used soil as they are to human health.
- In the soil, bacteria perform a range of different functions starting with absorbing atmospheric nitrogen, helping plants absorb mineral nutrients from the soil to keeping pathogenic microbes and pests under control. In an environment that is devastated by pollution and chemical based farming,
- The soil has been robbed of its rich microflora of friendly bacteria over the last few decades. In 1970 before the 'Green Revolution', 1 gram of soil

contained over 20 million units of friendly bacteria. Currently, less than 20% of these remain. As a result, soil fertility has reduced and with passing years farmers require increasing amounts of fertilizers like urea & DAP and more pesticides to harvest a healthy crop. Further, urea forms a layer on the soil which reduces water absorption and ground water levels.

Go-Krupa Amrutam bacterial culture - Solution to farm distress?

In agriculture, bacteria perform a range of functions that include absorbing mineral nutrients present in the atmosphere and the soil and supplying them in pre-digested form to the plants. They also perform the role of controlling pathogenic micro-organisms as well as pests in the soil. Go-Krupa Amrutam is a powerful culture of friendly bacteria which can replenish the lost microflora of the soil which was so essential to undertake natural farming.

Once the soil becomes healthier with balanced microflora with help of Go-Krupa Amrutam, farmers would no longer need the crutches of synthetic urea, DAP and pesticides. Using Gomay ('Cow' dung), Gomutra and buttermilk based natural fertilizers and pesticides, farmers can undertake fully natural farming. Scientific research proves that Gomutra has over 5,000 different mineral compounds and Gomaya has another over 1,100 compounds which can be beneficial for human, soil as well as plant health. Each Gaumata can produce over 3 tonnes of precious Gomay and Gomutra annually, farmers in ancient Bharat fully exploited this fact and became prosperous. Gaumata can again find Her rightful place at the farms where she can have an abundance of food from agri waste which currently the farmers burn as stubble. The farmers can enjoy much higher levels of prosperity with zero or reduced costs on buying artificial fertilizers and pesticides.

Go Krupa Amrutam bacterial culture – Scientific Background

As we mentioned earlier, before the Green Revolution, in 1970, 1 gram of soil contained over 20 million friendly probiotic bacterial cells. In the present scenario, not even 20% of these remain. These friendly bacteria are extremely essential for soil health & quality. Go Krupa Amrutam has over 70 strains of friendly bacteria which rapidly start spreading once in field.

These different bacterial strains include –

- Over 24 strains which absorb the **Nitrogen** present in the atmosphere and supply it in digestible form to plants.
- Many strains which help in controlling **plant infections and pests**, thereby improving plant immunity.
- Some strains which are classified as “**Geobacter**” in scientific terms. These bacteria absorb metallic & mineral elements from Gomay, Gomutra or soil and supply it in easily digestible form to the plant roots.
- Some strains which help to supply **sulphur and phosphorus** in pre-digested form to the plants.
- Types of bacteria which help in **composting**, and **Lactobacillus** bacteria which boosts plant growth and quality of their outputs.
- This culture also contains bacterial strains which help to **control pathogenic organisms**. This makes it possible to leave it in the open and also distribute this in various parts of Bharat.
- It is observed that this culture also helps to create a favourable environment for the growth of other friendly organisms such as **earthworms, ladybugs and bees**.
- Our research & observations indicate that the bacterial strains present in Go Krupa Amrutam thrive on Gomutra or Gomay of desi or indigenous Gomata breeds, and best results are obtained when panchagavya elements of desi Gomata are used. So, we

strongly discourage farmers from using panchgavya of buffalo or foreign Gomata breeds. So, it is our humble request that if farmers do not have desi Gomata, then they should buy desi Gomata manure from a Gaushala or from other farmers. And if they decide to keep a desi Gomata, then it will be easy for them to maintain Her at a low cost by using Urea and DAP subsidies to buy feeds for the Gomata, by not using weedicides and using the weeds to feed Gomata, while they use Her Gomutra and Gomay to make top quality natural manure and to control pests at home using Go Krupa Amrutam bacterial solution.

- Farmers are also humbly requested to first test Go Krupa Amrutam on a small piece of their land. Based on results this can be used more extensively in your entire farm. For example, if they have 10 acres of farms, they may initially start with half an acre only. If they are satisfied with the results, then they may bring Gomatas on a larger scale and undertake Go-Adharit agriculture without depending upon costly outside purchases.
- In the farm, when stubble or waste of crops is burnt it leads to destruction of soil bacteria and reduction in soil fertility, apart from increasing pollution. Instead, we suggest using a rotary and letting tiny pieces of this stubble remain on the soil. This will supply food to friendly soil bacteria, significantly improving soil fertility in the long run.

Benefits of Go Krupa Amrutam Bacterial Culture-

Go-Krupa Amrutam bacterial culture is derived from completely natural materials which include panchgavya (Gomutra, Gomay, milk, curd and ghee) and Ayurvedic herbs. It is the result of extensive research and experimentation.

Extension Activity Objective-

1.Gokrupa Amrutam & Vermicompost Project at Sitabai Sangai Primary School,Anjangaon Surji Dist-Amaravati.

- Go-Krupa Amrutam bacterial culture is derived from completely natural materials which include panchgavya .
- Gomutra, Gomay, milk, curd and ghee) and Ayurvedic herbs.
- It is the result of extensive research and experimentation.

Benefits of Go Krupa Amrutam bacterial culture -

- While applying this manure in the field, please apply this directly near the useful plantations, and preferably cover the manure with some soil so that it is not directly exposed to solar heat.
- If you have gobar gas slurry available, then make a pit, spread a plastic sheet in this pit, and add this slurry and Go-Krupa Amrutam Solution to this pit. Cover this with a plastic sheet so that it is away from direct sunlight.
- In 25-30 days, high quality manure will be ready. We have seen **excellent results** using compost manure prepared from gobar gas slurry.
- Increase soil quality .

- It will increase the quality of crop . If farmer use Gokrupa Amarutum in field on various crop, increase its field quality.

- It will increase the water holding capacity of soil and also improve seed germination rate.

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Gawrani Tomato -Organic Farming



Extension Activity Beneficiary-

1.Gokrupa Amarutam & Vermicompost Project at Sitabai Sangai Primary School,Anjangaon Surji Dist-Amaravati.

- 1.Sitabai Sanghai School,Anjangaon Surji.(Paras Bag).
- 2.Farmers in Anjangaon Surji and Pandhari and Pathrot.
- 1.Akashya P.Meshram(Pathrot) Ta-Achalpur Dist-Amaravati
- 2.Mangesh Uke(Pathrot) Ta-Achalpur Dist-Amaravati
- 3.Gopal Kadu (Jawalapur) Ta-Achalpur Dist-Amaravati
- 4.Ku.Tejal Pawar At.Post.-Shindi Ta-Achalpur Dist-Amaravati
- 5.Akash Pawar At.Post.-Takharkeda More Ta-Achalpur Dist-Amaravati
- 6.Mr.Gajendra Karsmsiddhe At.Post -Pandhari Ta-Achalpur Dist-Amaravati
- 7.Jayashree Bhele At.Post.-Chawsada Ta-Anjangaon Dist-Amaravati
- 8.Gajanan Bhele At.Post.-Chawsada Ta-Anjangaon Dist-Amaravati
- 9.Mr.Atul Patel At.Post -Pandhari Ta- Anjangaon Dist-Amaravati
- 10.Mr.Pravin Hadole Ta-Achalpur Dist-Amaravati



सीताबाई संगई एज्युकेशन सोसायटी, अंजनगाव सुर्जी (धार्मिक अल्पसंख्यांक संस्था)
द्वारा संचालित

सीताबाई संगई प्राथमिक शाळा

अंजनगाव सुर्जी ४४४ ७०५ (अमरावती)

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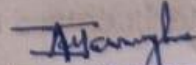
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To,
Dr.Mamta R.Yeotkar
Associate Professor
Department of Zoology
Smt.Radhabai Sarda Arts Commerce & Science College,Anjangaon Surji
Ta-Anjangaon Dist-Amaravati

I express my sincere appreciation for your work and dedication as well as your guidance related to Vermicopost and Go-Amrutum contributions have been invaluable to our team, and I am grateful for all that you do. Specifically, I want to recognize your outstanding work on Go-Amarutum. Your contributions have not gone unnoticed, and I want to acknowledge your efforts publicly .I encourage you to keep up the excellent work, and we will continue to support your growth and development within the Higher Education. Once again, thank you for your guidance & presence. You are a valued member of our team, and we appreciate your hard work and dedication.


मुख्याध्यापक
सीताबाई संगई प्राथमिक शाळा
अंजनगाव सुर्जी.