BEST PRACTICES: 1

"BOOSTING RELATIONSHIP BETWEEN BANKS AND RURAL CUSTOMERS" Objectives:

Increase awareness about benefits of financial services among the economically underprivileged persons.

Context:

According to the Banking Regulation Act of 1949 "customer" is generally associated with someone having an account in a bank.

Practice:

Students of rural areas lacked knowledge about banking. Hence, awareness program was conducted with Mansingh Co-operative Bank, Dudhondi.

Evidence of Success:

Customer satisfaction ratio from positive feedback of rural customers.

Problems Encountered and Resources Required:

Challenges included students' lack of banking knowledge, leading to the decision of organizing visits to financial institutions.

Notes (Optional): No



Principal, Dr. Patangrao Kadam Mahavidyalaya. Ramanandnagar (Burli) Tal. Palus, Dist. Sangli.

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BEST PRACTICES: 2

PRAYAS :" DRIP IRRIGATION'' NEEDS OF AGRICULTUREWATER MANAGEMENT Objectives:

Use best available water- efficient irrigation.

The Context:

Our college is surrounded by agricultural lands, hence our department plays a role in conserving the water by promoting farmers to use drip irrigation.

The Practice

About 70 % of the global freshwater is consumed by agriculture, to overcome these issue the department planned to reduce the use of water by using drip system.

Evidence of Success:

Increased the yield of agriculture and availability of more water.

Problems Encountered and Resources Required:

Availability of finance.

Clogging of drip nozzles, due to excessive salts in the water.





Principal, Dr. Patangrao Kadam Mahavidyala Ramanandnagar (Burli) Tal. Palus, Dist. Sangli. Rayat Shikshan Sansth's,

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Botany







2021-22

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Message from the Principal

Rayat Shikshan Sanstha is a one of the biggest and leading Indian educational organization in Asia founded by Honorable Padmabhushan Dr. Karmaveer Bhaurao Patil in 1919.

Its aim is to provide education to students from deprived, downtrodden section of society, free from consideration of caste, creed, sex, economic status and religion from rural Maharashtra. Our college belongs to Rayat Shikshan Sanstha and is an outcome of visionary educational mission of Karmaveer Anna. It works according to vision of Sanstha.

The Prayas team of botany department make a good effort with an aim "Drip Irrigation" need of Agriculture Water Management. By awaring Farmers of the current and the upcoming competition for water so then they know that the adoption of efficient irrigation systems is beneficial for them. This is step ahead of social commetment and for the sake of awarness.

I appreciate the efforts taken by Department of Botany and wish them good luck.

Principal

INTRODUCTION

As our college lies in the vicinity of agricultural land most of our students of our college are belonging from agricultural background. So most of the students came upto us to do request for giving suggestions on their problems which they were facing. Their problems were with the irrigation system in their field. As this village resides on the Banks of Krishna river there is plenty of water for the field so the problem of water logging was observed. This resulted into increase in soil salinity, this could be the problem for the farmers so we visited various farms and discussed with the farmers on water management. And also talk over on the importance of Drip Irrigation.

Drip irrigation systems deliver water directly to a plant's roots, reducing the evaporation that happens with spray watering systems. Timers can be used to schedule watering, for further reducing water loss. Properly installed drip irrigation can save up to 80 percent more water than conventional irrigation, and can even contribute to increased crop yields.

Best Practices- PRAYAS

Title: "Drip Irrigation" need of Agriculture Water Management

STATEMENT OF PROBLEM

Objectives:

- Be aware of the farm's characteristics (including surroundings water courses, the level of water stress, availability and quality of water resources, soil type)
- Based on these, chose the best location for crop production.
- > Plan water harvesting and storage units if necessary.
- Set a management plan for potential pollutants: Nutrient & pesticide management, erosion, animal feeding operations, grazing management and irrigation water management.
- Reduce soil erosion and improve water infiltration by ploughing along contours and use conservational tillage 4 where appropriate.
- Assess the different soil types, its water holding capacity and readily available water capacity of each of the soil types in the farm.
- Use best available water-efficient irrigation systems. Reduce evaporation by avoiding midday irrigation and using drip irrigation techniques.

EXECUTION

Water is important for optimum production of crops both in terms of quality and quantity. Increasing population is leading to increase in demand of food and as we know that agriculture uses a considerable portion of the water. So, we can say that the demand of water is increasing with the demand of food. About 70% of the global freshwater is used in agriculture. In many developed countries this use has been decreased because of increase in the use of irrigation practices with higher water use efficiency like drip irrigation.

Department of Botany organized two visits in each Semester in the year 2021-22 onsite workshop for the farmers to overcome their problem. Where we suggested to the farmer new system of irrigation which was Drip irrigation. Good agricultural practices as managing soil fertility and reducing land degradation can increase water efficiency.

Drip irrigation is an efficient irrigation method that delivers water slowly and directly to the plant root systems when network of pipes. It reduces the loss of water due to evaporation which is very common in other type of irrigation methods like flooding. It is also called as micro irrigation.

SUMMARY

Farmers hesitate to adopt new methods of irrigation firstly, later by understanding the importance they start to try. Drip irrigation system was implemented in the sugarcane field by the farmers. After some months we visited the field and the result got was amazing. This increased their yield also and the problem of water logging was solved. This is how we guided farmers on water management for their field and this was very beneficial for them.

Management of the drip irrigation system requires proper knowledge of the system, climate and environmental conditions for the growing crop. The impact of climate variables for plant growth and production in different season should be properly understood so that management practices for optimum production can be achieved.

PHOTOGALLERY

First visit on 29/03/2022



On site workshop for the farmers on the water management Second Visit on 11/04/2022



Farmer working in his farm





Students convincing the farmer to use of Drip Irrigation

Students discussing with farmers about biofertilizers given through Drip Irrigation

Third visit on 07/05/2022



Satisfied farmer after using of Drip Irrigation KADAM Mroblem solving of the farmers on the water management

Head of Dept. Department of Botany Dr. Patangrao Kadam Mahavidhyalaya Ramanandoagar (Burli)



Principal,

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Tal. Palus, Dist. Sangli.

management

Rayat Shikshan Sansth's, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Botany

Best Practices- PRAYAS

Title: "Drip Irrigation" need of Agriculture Water Management

Objectives:

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The Context

As our college lies in the vicinity of agricultural land most of our students of our college are belonging from agricultural background. So most of the students came upto us to do request for giving suggestions on their problems which they were facing. Their problems were with the irrigation system in their field. As this village resides on the Banks of Krishna river there is plenty of water for the field so the problem of water logging was observed. This resulted into increase in soil salinity, this could be the problem for the farmers so we visited various farms and discussed with the farmers on water management. And also talk over on the importance of Drip Irrigation.

Drip irrigation systems deliver water directly to a plant's roots, reducing the evaporation that happens with spray watering systems. Timers can be used to schedule watering, for further reducing water loss. Properly installed drip irrigation can save up to 80 percent more water than conventional irrigation, and can even contribute to increased crop yields.

The Practice

Water is important for optimum production of crops both in terms of quality and quantity. Increasing population is leading to increase in demand of food and as we know that agriculture uses a considerable portion of the water. So, we can say that the demand of water is increasing with the demand of food. About 70% of the global freshwater is used in agriculture. In many developed countries this use has been decreased because of increase in the use of irrigation practices with higher water use efficiency like drip irrigation.

Department of Botany organized two visits in each Semester in the year 2021-22 onsite workshop for the farmers to overcome their problem. Where we suggested to the farmer new system of irrigation which was Drip irrigation. Good agricultural practices as managing soil fertility and reducing land degradation can increase water efficiency.

Drip irrigation is an efficient irrigation method that delivers water slowly and directly to the plant root systems when network of pipes. It reduces the loss of water due to evaporation which is very common in other type of irrigation methods like flooding. It is also called as micro irrigation.

Evidence of Success

Drip irrigation system was implemented in the sugarcane field by the farmers. After some months we visited the field and the result got was amazing. This increased their yield also and the problem of water logging was solved. This is how we guided farmers on water management for their field and this was very beneficial for them.

Problems Encountered and Resources Required

Farmers hesitate to adopt new methods of irrigation firstly, later by understanding the importance they start to try. But due to non familiar to this method the installation process needs time. Tubes get clogged sometimes. Water cannot pass through and roots get dehydrated. If Drip Irrigation is not installed properly, then it is a waste of time, water and heat. Management of the drip irrigation system requires proper knowledge of the system, climate and environmental conditions for the growing crop. The impact of climate variables for plant growth and production in different season should be properly understood so that management practices for optimum production can be achieved.

Head of Dept. Department of Botany Dr. Petangrao Kadam Mahavidhyalaya, Ramanandnagar (Burli)



Principal, Dr. Patangrao Kadam Mahavidyalaya. Ramanandnagar (Burli) Tal. Palus, Dist. Sangli.







Rayat Shikshan Sanstha's,

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Department of Botany

Best Practices - PRAYAS

Report

Date: 12/05/2022

As our college lies in the vicinity of agricultural land most of our students of our college are belonging from agricultural background. So most of the students came upto us to do request for giving suggestions on their problems which they were facing. Their problems were with the irrigation system in their field. As this village resides on the Banks of Krishna river there is plenty of water for the field so the problem of water logging was observed. This resulted into increase in soil salinity, this could be the problem for the farmers so we took a parents-teacher meeting on water management.

Department of Botany organized three visits in the year 2021-22 on-site workshop on "Drip Irrigation" need of Agriculture Water Management" for the farmers to overcome their problem. Where we suggested to the farmer new system of irrigation which was Drip irrigation. Good agricultural practices as managing soil fertility and reducing land degradation can increase water efficiency.

Drip irrigation is an efficient irrigation method that delivers water slowly and directly to the plant root systems when network of pipes. It reduces the loss of water due to evaporation which is very common in other type of irrigation methods like flooding. It is also called as micro irrigation.

Drip irrigation system was implemented in the sugarcane field by the farmers. In the next month we visited the field and the result got was amazing. This increased their yield also and the problem of water logging was solved. This is how we guided farmers on water management for their field and this was very beneficial for them.

Outcome: This increased their yield also and the problem of water logging was solved.

Beneficiaries: 51 students of the School and 08 Farmers

Glimpses of Guidance to Farmers On Drip Irrigation

Ist visit Dated on 29/3/ 2022





II nd visit Dated on 11/04/ 2022



III rd visit Dated on 07/05/ 2022





Head of Dept.

Head of Dept. Department of Botany Dr. Patangrao Kadam Mahavidhyalaya, Ramanandnagar (Burli)



Principal, Br. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Tal. Palus, Dist. Sangli.