

Make a website that gives details about the fertilizers required for different crops

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Abstract-This article provides a comprehensive overview of the types, benefits, and challenges, associated with the use of fertilizers in agriculture. An introduction of fertilizers required for the particular, several brands of fertilizer exist in the market, and an attempt is being made to study the all brands and find the most suitable fertilizer less harmful for the crop and cheap in price and necessarily the fertilizer use for the particular crop. The paper will examine the history and evolution of fertilizers, as well as their different types and functions.

Additionally, the paper also discusses the role of fertilizers in sustainable agriculture and the future outlook for the fertilizer industry. By providing a comprehensive review of this important topic, this paper aims to increase awareness and understanding of the role that fertilizers play in agriculture and the global food supply.

Keywords — Farmers, fertilizers, crop yield, soil analysis, systematic literature review, social inclusion, nutrient requirements, crop fertilizers, soil analysis, crop types.

1.INTRODUCTION

Fertilizers are critical to the productivity and sustainability of crops, playing a crucial role in meeting the increasing demand for food and supporting the global supply. The use of fertilizers is a crucial aspect of modern agriculture that has significantly increased crop yields and food production around the world. To improve the fertility of the soil fertilizers are being used since ancient civilizations. The use of fertilizers has become increasingly important in recent years due to the growing global population and the need to produce more food to feed it.

Fertilizers can be classified into two main categories: organic and inorganic. Organic fertilizers are made from plant or animal sources, such as manure or compost, while inorganic fertilizers are typically manufactured

from chemical compounds. Both types of fertilizers have their advantages and disadvantages, and their use depends on the specific needs of the crop and the soil.

One of the primary benefits of using fertilizers is that they help the nutrients in the soil that are essential for plant growth. Plants require a variety of nutrients to grow, including nitrogen, phosphorus, and potassium, among others. These nutrients are often depleted from the soil after successive crop cycles, and fertilizers can help replenish them. Fertilizers also improve the soil structure, water retention, and nutrient-holding capacity of the soil. However, the overuse of fertilizers can lead to negative consequences, such as soil degradation and water pollution. When fertilizers are used in excess, they can leach into groundwater or surface water, leading to pollution and damage to aquatic ecosystems. Additionally, the use of inorganic fertilizers can contribute to greenhouse gas emissions and climate change.

To mitigate these negative effects, it is essential to use fertilizers responsibly and in a manner that is appropriate for the specific crop and soil. Farmers must consider the nutrient requirements of their crops, the type of soil they are working with, and the environmental impacts of fertilizer use. Additionally, sustainable agriculture practices, such as crop rotation and cover cropping, can help reduce the need for fertilizers and maintain soil health.

This website is designed to provide farmers and other stakeholders with detailed information about the use of fertilizers in agriculture. It will cover topics such as the types of fertilizers available, their benefits and drawbacks, and best practices for their use. Additionally, the website will provide information on sustainable agriculture practices that can help reduce the need for fertilizers and maintain soil health. For our website, we

refer to a lot of research papers following are the literature reviews of some of them:-

[1]A critical study on the use of application and effectiveness of organic and inorganic fertilizers this entitled research paper is published by Arti Gupta and Nissreen Hussain on February 2014 this paper provides us the importance of project-based learning and provides the importance of fertilizers, remarks for this research paper is it should be used to bring a calculative amount of desired result of it.

[2] A study on farmer’s preference for the consumption of fertilizers this entitled name research paper is written by the authors DR. N. Katherial and P. Akila Shanthini on September 2003 this paper provides an introduction to fertilizers and an attempt is being made to study the leading eight fertilizers manufacturing on agriculture concern. The remarks for this paper are that farmers concern about fertilizers and their proper uses of it in the productivity of the crop.

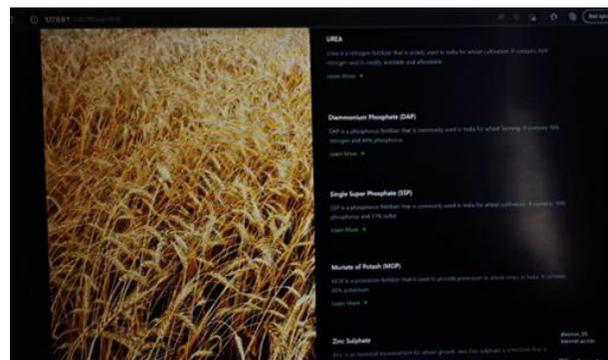
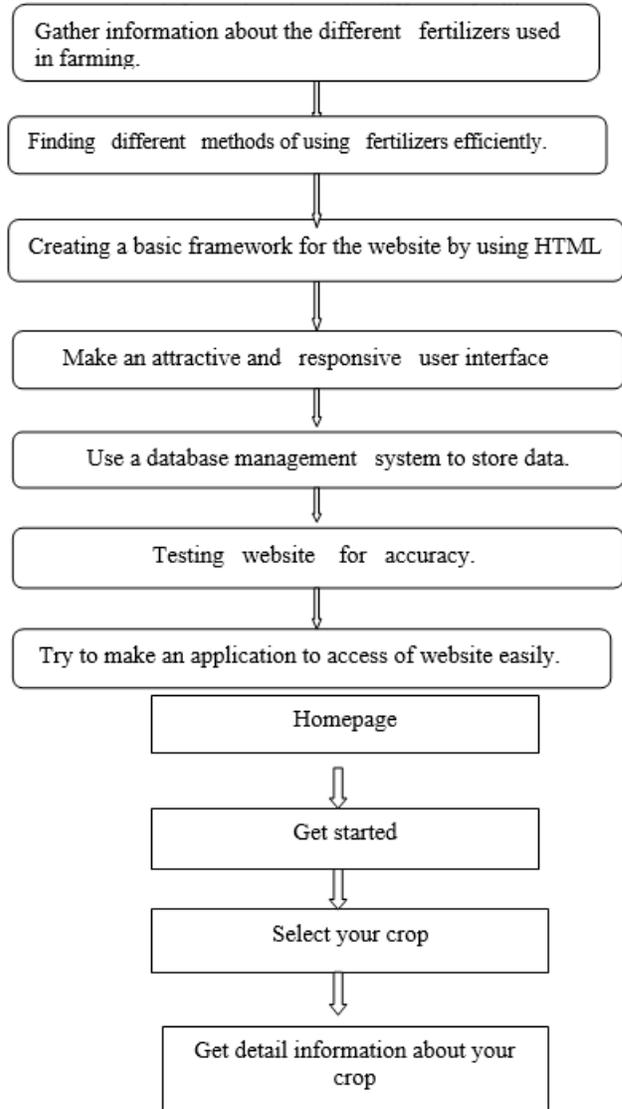
[3] Effect of different organic fertilizers application on growth and environmental risk of nitrate under a vegetable field entitled research paper published by Shuyan Li, Jijin Li, Bangxi Zhang, Danyang Li, Guoxue Li & Yangyang Li On 5th December An objective to review this research paper is to study the impact of organic fertilizers in agriculture. The remark for this paper is organic fertilizers significantly increased the yield and quality, but with inappropriate application may cause serious environmental risk.

[4]To study the principle role of organic fertilizer on soil properties productivity entitled research paper published by author Sissy Asserfa and Sisay Tadesse on 09 august 2019. The objective of this review is to revise the role of organic fertilizers on agricultural products and productivity. The use of organic fertilizers is more beautiful than artificial fertilizers.

[5] Use of fertilizers or importance of fertilizers in agriculture this entitled name research paper published by Nuri Salem ALnaass , Hossean Khalifa Agil and Hamza Khalifa Ibrahim on 09 June 2021.The objective of this review is to revise the importance of fertilizers in agriculture .The remarks for this paper is .Manure is better than fertliseris.

2.METHODOLOGY/EXPERIMENTAL

A. Materials/Components/Flowchart/Block Diagram/Theory:



3.RESULTS AND DISCUSSIONS

To prepare this website there need to study, the crops in detail and gather accurate information which will be helpful for the users. Our aim through this paper is to study the different aspects, and problems faced by farmers and try to solve them using our website along with the information on fertilizers try to include the necessary information which will solve their problems using our website made by using HTML, CSS, java and necessary languages.

4.CONCLUSION

The main purpose of our website is to provide information, about the required fertilizers and pesticides, for healthy growth and the prevention of any damage to a specific plant.

The website has been made very user-friendly so that any new person can have access to the information provided by us on the website. We have used HTML to make the website and CSS to make the UI more interactive with the customer.

Content regarding the fertilizers has been taken from various sites whose links have been provided in the ppt.

5.ACKNOWLEDGEMENT

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