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Review on Analysis of Design & Construction of Farm Pond for Sustainable Water Resource Management of War Village, Dhule District

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Abstract: Water is one of the most important natural Renewable resources and all forms of life are totally dependent on it. Rainfall problem in drought prone area is one of the biggest issue so that in those areas rainwater harvesting system implement. Farm pond is one of the best option for providing supplemental irrigation and to improve productivity. A farm pond is a large hole dug out into the ground, usually square or rectangular in shape which harvests rainwater and stores it for future use. This paper highlighted the social, economical, and environmental effects of farm ponds, and the progress of farm ponds in Dhule district (war village). This review paper explores the vital role of farm ponds in arid regions. By examining various design considerations, construction techniques, and integrated water management strategies, the paper aims to highlight how farm ponds can improve water availability for horticulture, thereby contributing to sustainable agricultural practices in in Dhule district (war village). Farm ponds have been built all over the world to encourage agricultural expansion. The fundamental goal of this research is to comprehend agricultural development through farm ponds and their impact on the socio-economic development of farm pond owners.

Keywords: Farm pond, water management, arid regions, rainwater harvesting system, irrigation, socioeconomic development



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