## **IJARSCT**



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 1, July 2022

## Review Paper on Design of- Rain Water Harvesting System for Nimshirgaon Village

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**Abstract:** In this project we used rain water harvesting techniques for increasing ground water table. It is essential and economical in construction compare to other sources. Now days it is compulsory to each and every design of houses. In our project we are collecting data of nearby village like, Rainfall intensity, runoff, and water demand for per capita per day, number of wells and bore wells, soil data etc. After collecting all the data we are designing rainwater harvesting system for each house of village.

Keywords: Rain Water Harvesting

## REFERENCES

- [1]. Adnan M. 2015. Antimicrobial potential of alkaloids and flavonoids extracted from tamarix aphylla leaves against common human pathogenic bacteria, Afr J Tradit Complement Altern Med. Issue 12, no. 2
- [2]. International Journal of Engineering and Technology Volume 3 No. 1, January, 2013 ISSN: 2049-3444 © 2013 IJET Publications UK. All rights reserved. 73 Enhancing Community-Driven Initiative in Rainwater Harvesting in Nigeria.
- [3]. G. N. Pradeep Kumar and P. Srinivas. 2012. Evaluation of groundwater resources and estimation of stage of ground water development in a basin a case study, irrigation and drainage, Irrigation. and Drain. 61: 129–139.
- [4]. Subash Chandra, Shakeel Ahmed, R. Rangarajan. 2011. Lithologically constrained rainfall (LCR) method for estimating spatio-temporal recharge distribution in crystalline rocks. Journal of Hydrology. pp. 250–260
- [5]. Scot K. Izuka, Delwyn S. Oki, John A. Engott. 2010. Simple method for estimating groundwater recharge ontropical islands, Journal Of Hydrology 387(1-2). PP. 81-89.
- [6]. Arun Kumar. 2009. Report of the Ground Water Resource Estimation Committee Ground Water Resource Estimation Methodology. Ministry of Water Resources. Government of India. New Delhi.
- [7]. National Seminar on Rainwater Harvesting and Water Management11-12 Nov. 2006, Nagpur. Rain Water Harvesting, Conservation and Management Strategies for Urban and Rural Sectors by Dr. R. K. Sivanappan.
- [8]. S.G.G. Nanded "Rainwater Harvesting" Conference on 'Engineering Technology for Efficient Rain Water Harvesting and Soil Conservation', , 29-30 May 2006.pp. 44-51.
- [9]. Nagrajan R.: Water; Conservation, Use and Management for Semi-arid Region:
- [10]. Capital Publishing Company; 2006.
- [11]. **Kaushal Kishore (2004)** "Rain Water Harvesting," Journal of Civil Engineering and construction review, May 2004, pp.42-48 Magar R.B. and Waghmare S.T.. (2006).
- [12]. Sunita Narain & Rahul Ranade (2003). A Water Harvesting Manual, Central For Science and Environment, New Delhi.
- [13]. Sivanappa,R.K., Soil and Water Conservation and Water Harvesting, Tamil Nadu Afforestation project, Chennai, 1999.
- [14]. Indian Water Resources Society, 1999, 'Theme Paperon Water Vision 2050', New Delhi.