

Land use/land cover	Agricultural land	5	100	Excellent
	Mines and quarries	3	60	Moderate
	Residential	2	40	Poor
	Mixed urban	1	20	Very poor
	Forest land	2	40	Poor

Civil Engineering at St. Joseph Engineering College, Mangaluru, Karnataka, India.

Nirkere show meandering trend for a considerable distance, hence more area (river course) will be available for storing the water. In built up areas like Mulki, Mudabidri and Kinnigoli Roof top rain water harvesting is suggested. The rain water available from roof tops of buildings areas goes waste. This water can be harvested for two purposes- first one is the water is stored in containers or tanks above or below the ground surface and the second purpose is recharging the water into the ground for augmenting the ground water.

The old lateritic quarries can be used to recharge ground water. The large amount of rain water can be stored in this and allowed it to percolate into the ground. For this the channels must be constructed and the surrounding water must be allowed to flow to these quarries.

The rain water stored in granitic quarries can be used for various purposes like domestic, irrigation etc. When there are no joints or fractures the water can be stored for long time. In Aikala the water stored in the granitic gneiss quarry is being used for domestic purposes by the workers staying over there. Even in the late summer there is sufficient amount of water.

References

- [1] Anonymous (2002) World Bank Report on
- [2] Burrough, P.A., (1990). "Principles of GIS for Land Resource Assessment." Oxford Science Publication, Oxford. Water Resources.
- [3] Dhruvanarayana, V. V., & Satry, G., (1986) "Design of earth dams for water harvesting and erosion control in Shivaliks." Journal of the Institution of the Engineers (India), Civil Engineering. 67 pp 110-114.
- [4] Karla, B. S., (2005), "Making of rain water harvesting movement in Saurashtra, Gujarat, India- A case study." Abstracts of national conference on watershed management of sustainable production live hood and environmental security (WAMSP 2005) held at G.B. Pant University of Agriculture and Technology, Pantnagar, Uttaranchal from May 19-21, pp 67.
- [5] Thakur, G. S., and Raghuvanshi, R. S., (2008), "Perspect and assessment of ground water resources using Remote Sensing techniques in and round Choral River basin, Indore and Khargone districts, M.P." Journal of Indian Society of Remote Sensing. 36 pp 217-225, 2008.
- [6] Sankar K (2002) Evaluation of groundwater potential zones using Remote Sensing data in upper Vaigai River Basin, Tamil Nadu, India. Journal of the Indian Society of Remote Sensing. 30(3) pp 119-129, 2002.

Author Profile



Ivy Savia Dantis received the M.Sc. degree in Earth Science & Resources Management in 2010. She is working as Assistant Professor in the Department of