

Evaluation and Planning of an Equitable Water Supply for the Rural Water Distribution Network at Undri Village in Kolhapur District, Maharashtra

Geetanjali Nirmale¹, Dhiraj Shinde², Sanket Shinde³, Vishwambhar Bhandare⁴

¹Department of Civil Engineering, Dr. D. Y. Patil Polytechnic college, Kolhapur, Maharashtra, India

²Department of Marine Science, Bharathidasan University, Tiruchirappalli - 620024, Tamilnada, India

³Department of Mechanical Engineering, Dr. D. Y. Patil college of Engineering & Technology Kolhapur, Maharashtra, India

⁴Department of Microbiology, Shivaji University, Kolhapur, Maharashtra, India

Corresponding Author Email: vishwambhar@gmail.com

Abstract: *This article presents the design of a rural water distribution system that is intended for use in rural areas of the country. The network for the distribution of water supplies is intended to accommodate the anticipated population in thirty years' time. The most effective and cost - effective method of water distribution has been designed with the use of EXCEL, Google Maps, Google Earth, GIS and AutoCAD. The research region is scheduled to get an intermittent water supply, taking the 55 liters per capita per day (lpcd) water consumption into account. When designing an inexpensive water supply distribution system, factors such as the flow velocity in the pipe, the material of the pipe, the level of the reservoir, the peak factor, and the available commercial pipe sizes are taken into consideration. The Undri village section of the Panhala taluka in the Kolhapur district of Maharashtra is the target for the water supply distribution system that has been constructed.*

Keywords: Water networking, Kolhapur, Rural Water Management, GIS, Jaljeeran skim

1. Introduction

1.1 Freshwater stress

Our planet distinguishes out from all the others that we are aware of because of the water. While the worldwide supply of freshwater is sufficient to cover all of the needs for water now and in the future, its spatial and temporal distributions are not. (Cosgrove, W. J., & Loucks, D. P., 2015). Everyone today has concerns about the possibility of water shortage and its effects on our ability to produce energy and food in the face of rising, primarily population - driven water needs. Water is one of the most essential requirements of life. Assured availability of potable water is vital for human development. India is home to 18% of global human population and 15% of global livestock population. However, it has only 2% land mass and 4% of global fresh water resources. According to the World Economic Forum's Global Risk Perception Survey, which it conducted among 900 renowned experts, water problems will have the greatest impact on society over the next 10 years. (http://www3.weforum.org/docs/WEF_Global_Risks_2015_Report15.pdf). As per estimates: in 1951, per capita annual freshwater availability was 5, 177 cubic meters which came down to 1, 545 cubic meters in 2011. It is estimated that in 2019, it is about 1, 368 cubic meters which is likely to further go down to 1, 293 cubic meters in 2025. If present trend continues, in 2050, fresh water availability is likely to decline to 1, 140 cubic meters. With the growing population and expanding economic activities, there is an increase in demand for water in various sectors, viz. agriculture, industry, domestic, recreation, infrastructure development, etc., whereas the source of water is finite. Thus, finite availability and

competing demands make drinking water management a complex issue. The widening demand - supply gap is further compounded by other challenges, viz. depletion of ground water caused by over - extraction, poor recharge, low storage capacity, erratic rainfall due to climate change, presence of contaminants, poor Operation and Maintenance (O&M) of water supply systems, etc.

1.2 Previous studies

The initial water distribution network was developed by (G. Venkata Ramana et al., 2015) with the help of the EPANET software. To create the network "chowduru of proddaturu Mandal in the YSR Kadapa district of AP in INDIA. " In the end, he was able to obtain the information that there are 53 pipelines made of the same material, 49 connections, 1 tank, and 1 source reservoir from which water is pumped to an elevated service reservoir. He forecasts the population and the design in 2031. The water distribution system for rural regions, which was built by utilizing the LOOP program, was developed by (Bhavana K & Ajadiya et al., 2017). The challenges of designing a new distribution network in developed rural regions were addressed in this study, which was beneficial to water supply engineers who are working on the topic. This network designed at sokada village in Gujarat state. (Bolognesi A. et al., 2010) proposes a new modal named genetic heritage evolution" by stochastic transmission GHEST, a multi population evolutionary strategy like algorithm applied to the design of water distribution network. (Srivastava, H., & Singhal, A.2018) designed the water distribution network using EPANET. A network is laid according to old days requirement and is not suitable to the future needs and demands. The network was

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