

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

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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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Village Water Supply and Sanitation in Northeast Thailand James Arbuthnot, Robert H. Thomas, 1981 **COMMON FUNDAMENTALS AND UNIT OPERATIONS IN THERMAL DESALINATION SYSTEMS - Volume III**, 2010-11-08 These volumes are part of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The three volumes present state of the art subject matter of various aspects of Common Fundamentals and Unit Operations in Thermal Desalination Systems such as Conventional Water Treatment Technologies Guidelines for Potable Water Purification Advanced Treatment

Technologies for Recycle Reuse of Domestic Wastewater Composition of Desalinated Water Crystallization Deep Bed Filtration Modeling Theory and Practice Distillation Rectification Flocculation and Flocculation Filtration Hazardous Waste Treatment Technologies Microfiltration and Ultrafiltration Post Treatment of Distillate and Permeate Pre Cleaning Measures Filtration Raw Water Pre Treatment Sludge Treatment Technologies Supercritical Extraction Potential for Industrial Wastewater Reuse Treatment of Industrial Wastewater by Membrane Bioreactors Unconventional Sources of Water Supply Problem of Non Condensable Gas Release in Evaporators Entrainment in Evaporators Mist Eliminators Chemical Hazards in Seawater Desalination by the Multistage Flash Evaporation Technique Concentration of Liquid Foods Environmental Impact of Seawater Desalination Plants Environmental Impacts of Intakes and Out Falls Industrial Ecology Water Resources and Desalination Rural and Urban Water Supply and Sanitation Sustainable Development Water Supply and Sanitation Technology These volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers

Environmental and Health Aspects of Water Treatment and Supply Shoji Kubota, Yasumoto Magara, 2009-03-04 Environmental and Health Aspects of Water Treatment and Supply is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Aquatic environment is one manifestation of the water circulation of the Earth Wastewater has been used for various purposes agriculture aquaculture urban and domestic uses etc Health aspects are major concern to reuse wastewater and quality standards are established The theme discusses environmental and health aspects of water treatment and supply This volume is aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts Managers and Decision makers and NGOs

Participatory Planning for Integrated Rural Water Supply and Sanitation Programmes: Guidelines and Manual Jeremy Ockelford, Bob Reed, 2002 These guidelines are to help planners and managers in national governments to develop their own rural water supply and sanitation programmes They can also be used by consultants and NGOs could adapt them for their programmes The Guidelines have been developed to help planners and managers to meet two challenges in rural water supply and sanitation RWSS 1 how to integrate the different components of RWSS water supply sanitation and hygiene promotion and now water resource management in relation to domestic water supply and sanitation together with the institutional arrangements to provide the services 2 to enable all the stakeholders to participate in the planning process women and men in the villages and communities to be served field staff of implementing and facilitating agencies the various technical and management staff at district provincial and central levels and other organisations including NGOs and the private sector The Guidelines and supporting Manual provide a participatory process and methods to enable the user to address both these challenges The process and methods can be applied in most contexts they are intended to help the user to develop their own

solutions to their own issues and problems

Water Supply Management D. Stephenson, 2012-12-06 Supply of sufficient clean drinking water is often taken for granted but it requires a considerable technical and financial effort to ensure reliable and economic water supply This volume presents an up to date overview of water supply management and aims at efficient management of water supply schemes rather than design of new works Various chapters of the book are devoted to water demands management of reservoirs and conjunctive use of alternative sources Asset management and loss control are also considered Water quality and provision of water to developing communities are also discussed Water supply management is of concern to developed urban environments as well as developing communities The book will be equally valuable to the practising water engineer and the newcomer or graduate student in the subject

Community Water Supply and Sanitation in Sudan Charles G. Chandler, 1982 Selected Water Resources Abstracts , 1991 *Developing and Managing Community Water Supplies* Jan Davis, Gerry Garvey, Michael Wood, 1993 This book discusses the issues and stages in the development of water supplies from the initiation of a programme through to the community management of a supply system The importance of involving all the members of a community in decisions about water provision is emphasised as is the need to incorporate hygiene education

Third Evaluation of the Thailand National Family Planning Program , 1980

Small-Scale Evaluation Colin Robson, 2000-02-11 How can evaluation be used most effectively and what are the strengths and weaknesses of the various methods Colin Robson provides guidance in a clear and uncluttered way The issue of collaboration is examined step by step stakeholder models are compared with techniques such as participatory evaluation and practitioner centred action research ethical and political considerations are placed in context and the best ways of communicating findings are discussed Each chapter is illustrated with helpful exercises to show the practical application of the issues covered making this an invaluable introduction for anyone new to evaluation

Project Impact Evaluation , 1979

Evaluations, Suggestions and Recommendations on the Program of the Volta River Authority for Resettlement of the People in the Area to be Inundated by Construction of the Volta River Dam, Ghana W. Dean Boyle, United States. Bureau of Reclamation, 1963

Frontiers in Urban Water Management Cedo Maksimovic, J. A. Tejada-Guibert, 2001-05-31 *Frontiers in Urban Water Management* presents the state of the art in urban water management at the beginning of the 21st century The book marks the end of the fifth phase of UNESCO's International Hydrological Programme in this field by bringing together major scientific and professional players to address critical and topical issues in water management This team of leading world experts investigate themes such as the challenges of urban water management infrastructure integration issues and emerging paradigms in water supply and sanitation Key issues are investigated from the hydrological technical and managerial points of view incorporating both social and economic realities Specific reference is also made to solutions for developing countries With a view to the future conclusions from past experiences are highlighted new pathways are explored and future developments are suggested

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urban water management Urban water as a part of integrated catchment management Interactions with the environment
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