



वीरमाता जिजाबाई तंत्रज्ञान संस्था
VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE (VJTI)
MATUNGA, MUMBAI, MAHARASHTRA, INDIA

INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SUSTAINABILITY (ICES-2023)
16th - 17th March 2023

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Mrs. Puja Chandrakant Kadam

Presented the Paper No. 26
Redesigning Of Water Distribution Network Of Region Of Virar Using WaterGems Software

in this conference, organized by the Veermata Jijabai Technological Institute
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Track Name: ICES2023

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Paper Title: Redesigning Of Water Distribution Network Of Region Of Virar Using WaterGems Software

Abstract:

Water is the essential element required for the existence of human life. Hence to supply the water there is a requirement of the proper water distribution network. Water distribution system connects consumers to the source of water by the networking of pipes, valves, pumps and storage tanks. The basic aim of the water distribution network is to meet the demand of the rapidly increasing population and deliver water to consumers end with the adequate pressure and quantity and also with good quality. So the solution of the problem of increasing demand of water there is necessity of designing of new or upgradation of the existing water distribution network. So this can be done by using Bentleys WaterGems software. WaterGems is the hydraulic modelling software which stimulates hydraulic parameters such as head, pressure and flow rate. The aim of our study is to analyze and redesign the water distribution network of Narangi area of Virar region of state of Maharashtra, India. In this study the distribution network is designed based on the population estimated for the future 25 years using WaterGems software. Thus the result obtained are compared with the existing network so that we can find out that the pressure and velocity of the flow in all pipes at the junction can provide adequate amount of water in the network of our study area.

Created on: Fri, 03 Feb 2023 07:06:11 GMT

Last Modified: Fri, 03 Feb 2023 07:06:11 GMT

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Primary Subject Area: Clean Water, Sanitation and health

Secondary Subject Areas: Not Entered

Submission Files: VJTI Conference.docx (13 Kb, Fri, 03 Feb 2023 07:03:41 GMT)

Submission Questions Response: Not Entered

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Regards,

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