

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM – 590014**



Project Report On

**“STUDY OF DRINKING WATER QUALITY AND
ITS TEMPORAL VARIANCE IN ABBALAGERE
GRAM PANCHAYAT”**

*A Project report submitted to Visvesvaraya Technological University in partial fulfillment of the
requirement for the award of degree of Bachelor of Engineering in Civil Engineering*

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ABSTRACT

Abbalagere gram panchayat in Shimoga taluk was selected for the study of water quality and its seasonal variation. The Abbalagere gram panchayat consist of 7 villages, Abbalagere, Basavanaganguru, Mathodu, Kalaganguru, Mojappana hosur, Channamabapura, Hunasodu. 8 sampling points were selected. The main water source in this gram panchyat is ground water.

To understand and gather information on ground water quality for its temporal variance 8 samples collected from 7 villages. The sample are collected from over head tank of capacity 50000 litre at Abbalagere, Basavanaganguru, Mathodu, Channamambapura, and three mini water supply tank at Kalaganguru, Mojappana Hosur , Hunasodu, and also collect the sample from well at Basavaganguru.

The water sample has been analysed for only 16 parameters such has Turbidity, Conductivity, Hydrogen ion concentration (P^H), Total Hardness (TH), Calcium Hardness (CalH), Chloride (Cl), Sulphate (SO_4), Fluoride (F), Nitrate (NO_3), Iron (Fe), Alkalinity (AIK) , Acidity (Acd), DO, BOD, Ammonia-Nitrogen(NO_3-N), Temperature. The Data is tabulated. Seasonal variation is represented in 3-D Column graph and using Minitab software. Results were analysed and recommendation is suggested.

KEYWORDS: Water quality, Abbalagere gram panchayat, Seasonal variation, Water Quality Index, DO, BOD.