



Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering



Final Year B.Tech. Project- Abstract

Department: Civil Engineering

Project Title	Development of portable, low cost water filter
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Abstract	<p>The pollution of water is increasing at a rapid rate due to the rapid urbanization and industrialization. Contamination of water is hazardous to any living life. From the total volume of water on earth, only 2.5% fresh water is available. Mostly, for people in the poverty line, those who are stuck in natural disasters or people in the army that are deployed to certain remote areas, have difficulties finding safe drinking water. There have been countless diseases and deaths due to drinking unsafe water. There is also scarcity in drinking water due to various types of pollution. To overcome these circumstances, water filters are being used worldwide.</p> <p>The existing water filters are affordable only by middle class and premier class mass. Most of these water filters are non-portable. Such filters are useless to travel lovers, as the source of the water is questionable. To overcome this situation, portable water filters are available in the market. These filters are often quite costly and are not affordable to common masses. These constraints evoked an idea of designing a portable water filter which would be easily accessible, use only locally available materials and without incorporating any electronic components.</p> <p>In current project work, the selected filter materials are such that they can be manufactured in laboratory and are low- cost. This portable and low-cost water filter will be a boon to people who are stuck in natural disasters or people in the army that are deployed to certain remote areas or people who face problems due to contaminated water available in their locality and couldn't afford costly water filters available in market. Through this project an attempt is made to help people in these situations by developing a portable, low-cost way.</p>
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