

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAUM, KARNATAKA.**



A PROJECT REPORT ON

**“MONITORING THE PRESENCE OF HEAVY METALS IN K.G.F SOIL
RESIDUE FOR BIO-REMEDIATION”**

**A project submitted in partial fulfillment of the requirement for the award of degree of
Bachelor of Engineering in Civil Engineering**

Submitted by,

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ABSTRACT

K.G.F or kolar gold fields is a mining town in bangarpet taluk, in the kolar district of Karnataka state, India. The town was known for gold mining over a century. Which was closed on 2001 because of low production of gold. Mining is one of the main sources of heavy metal pollution in the environment. It is a well known fact that because of mining there will be contamination of soil. We have found some heavy metals both in soil as well as water. Heavy metals causes serious health effects including reduced growth and development, cancer, organ damage, in extreme cases death. Hence remediation is necessary for the removal heavy metals from soils.

Our project is about monitoring the presence of heavy metal in K.G.F soil residue for bio-remediation. The main objective of our project is to evaluate the presence of heavy metals. There are many methods for removal of heavy metals from contaminated soil but out of all we have selected bio-remediation which is an inexpensive, safe and environment friendly technology and end products of bio-remediation are the harmless. For bio-remediation we have used three bacteria's namely indigenious bacteria, cow dung and pseudomonas aeruginosa and by setting up the reactors, depending upon the obtained results we are trying to propose the best method for the removal of heavy metals from the contaminated soil.