PROJECT PROPOSAL ON GROUNDWATER CONTAMINATION

TILTE

Groundwater contamination - prediction and mitigating measures

INTRODUCTION

Groundwater level is an indicator of groundwater availability, groundwater flow, and the physical characteristics of an aquifer or groundwater system. Management of water resources requires input from hydrological studies. This is mainly in the form of estimation or forecasting of the magnitude of a hydrological parameter. The factors that influence and control the groundwater level fluctuation and contamination are determined to develop a forecasting model and examine its potential in predicting water table depth using limited data. Prediction of regional groundwater level fluctuation and purity would guide the way towards conceiving, designing and taking scientific measures to ensure sustainable groundwater management.

OBJECTIVES

- To find the combination of best parameters which have influence on groundwater level of the study area
- To find the impurities and factors influencing contamination of groundwater in the study area
- To develop a model for predicting groundwater level and contamination trends in future
- To identify the best mitigating measure for improving groundwater quality