

## **PREFACE**

Groundwater resources play a very important role for socioeconomic, biological, and ecological development of the region. Sustainable management and development of groundwater resources requires precise quantitative and qualitative assessment based on scientific and modern techniques. Now a days groundwater potential zones are mapped using modern techniques of remote sensing and GIS. Various parameters like geology, LULC, slope, drainage density, rainfall, geomorphology, soil map is considered to map the groundwater potential zones for the study area. GIS, remote sensing and AHP techniques are used identifying the potential zones.

Assessing the parameters that determine the potential zones of groundwater for the district will be useful for the government for effectively identifying appropriate locations for extraction of ground water.

**Keywords:** Groundwater, AHP, Nashik, Maharashtra.