

**VISVESWARAIAH TECHNOLOGICAL UNIVERSITY
BELGAUM**



A

**PROJECT REPORT
ON**

**CREATION OF BASE MAP FOR WATER AND SEWAGE NETWORK
FOR RAMANAGARAM TOWN USING REMOTE SENSING AND
GEOGRAPHIC INFORMATION SYSTEM**

**Submitted in partial fulfillment of the requirement for the award of
B.E degree in Civil Engineering**

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SYNOPSIS

The development of science and technology, particularly space and information science has made the man to collect, analyze, interpret and manage the geographically related information of any area of interest. The remote sensing (RS) provides complete information at regular interval of the desired area, whereas, geographical information system (GIS) helps in creating and handling spatial and attribute database accurately. With the launch of both polar and geostationary satellites and advent of global positioning system (GPS), availability of data has become very easy and cheap. Hence, the conventional land surveying and preparation of maps for visualizing geospatial database has become obsolete, instead permanent database can be created for each thematic layer (land-use and land-cover) using full-fledged GIS, so that, choosing an attribute corresponding to any feature of interest on the digitized map, provides lot of information which helps in decision making process very simple and cost effective.

Ramnagaram District, the 28th district of Karnataka has 4 taluks under it. They are Ramnagaram, Channapatna, Kanakapura and Magadi. The total area of the new district is 3555 sq.kms. The total population is about 10.31 lakhs. Ramnagaram place is known for silk production. It has Asia's largest cocoon market. As a part of dissertation work, it is proposed to create a "digital database" for sewage and water pipe line of Ramnagaram town using GIS software. Land-use and land cover and in fractural facilities prompted to create a "district GIS". This is the first project of its kind and the main aim of the study is to develop an integrated GIS to manage the facilities and to take quick decision for developmental planning by querying the database on sewage and water pipe line of Ramnagaram town.