

Assessment of water pipelines and unaccounted for water in Indian Institute of Science Campus, Bangalore

TTI Consulting Engineers, Bangalore was awarded this project on 05 February 2008.

The project comprises

1. Physical identification/verification of water pipeline location, pipeline diameter, valves, valve chambers, meters etc.
2. Measurement of flows into the campus
3. measurement of flows, in main lines in order to ascertain the possible unaccounted flows
4. Assessment of the condition of existing pipelines some of which are 60 or more years old.
5. Collection of data relating to water consumption in institutional buildings as well as staff housing areas
6. Comparison of inflow and accounted flow within the campus and advise the extent of unaccounted flows

Consultancy fees: US\$ 17000.00

The project is expected to be completed by 05 May 2008.

Staff involved in the Project

K.Rajasekharan, K.Umesh Babu, Dayanand Reddy,
B.K.Anand, K.Raghu,
Ms. Bhuvaneshwari



Site visit by our staff



Inspection of Chamber



Sewage flowing in existing Manhole

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Assessment of Sewage flows in Indian Institute of Science Campus, Bangalore

The Scope of work for the project includes

1. Physical identification/verification of sewer location, manholes
2. Field verification of representative manhole depths and silting of manholes
3. Physical verification of sewage outlets from major institutions and their connection into the sewer mains
4. Physical verification of sullage flows from institutions and verification of their connections with the sewer mains
5. Measurement of outflows in two locations where IISc sewers join BWSSB trunk mains.
6. Collect samples and investigate the characteristics of domestic sewage.

It is proposed use FLO_DAR an ultrasonic flowmeter for measuring the sewage flows.

The project is programmed to be completed by 05- May 2008

Consultancy Fees: US\$ 14,000.00

Staff involved in the Project:

K.Rajasekharan, N.Balaji, Dayanand Reddy, Kiran Kumar, Ms. Rajeswari, Ms. Yuvarani,



Existing Nala



Existing Condition of Manhole



Sewage overflowing from the manhole

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GIS Mapping of Water Supply and Sewerage Utilities in Indian Institute of Science Campus, Bangalore

The Scope of work of the project includes

1. Preparation of base map
2. Updating field data
3. Integration of data into GIS Map
4. Hyper-linking of drawings
5. Submission of hard copy and soft copy in drawing format.

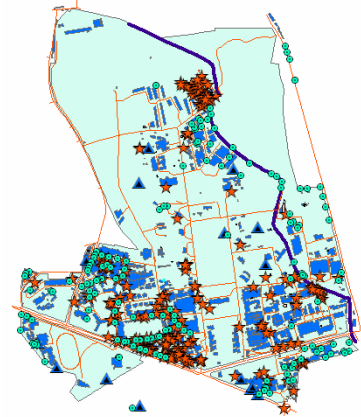
The team of Engineers has commenced collection of basic data regarding the water supply and sewerage in the campus.

The project is programmed to be completed by 05- May 2008

Consultancy Fees: US\$ 12,000.00

Staff involved in the Project:

K.Rajasekharan, B.K.Anand, Baig, Ravi Kiran , Suresh, Rama Rao



Base Map



Hyper-linking of Photo with the base map

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