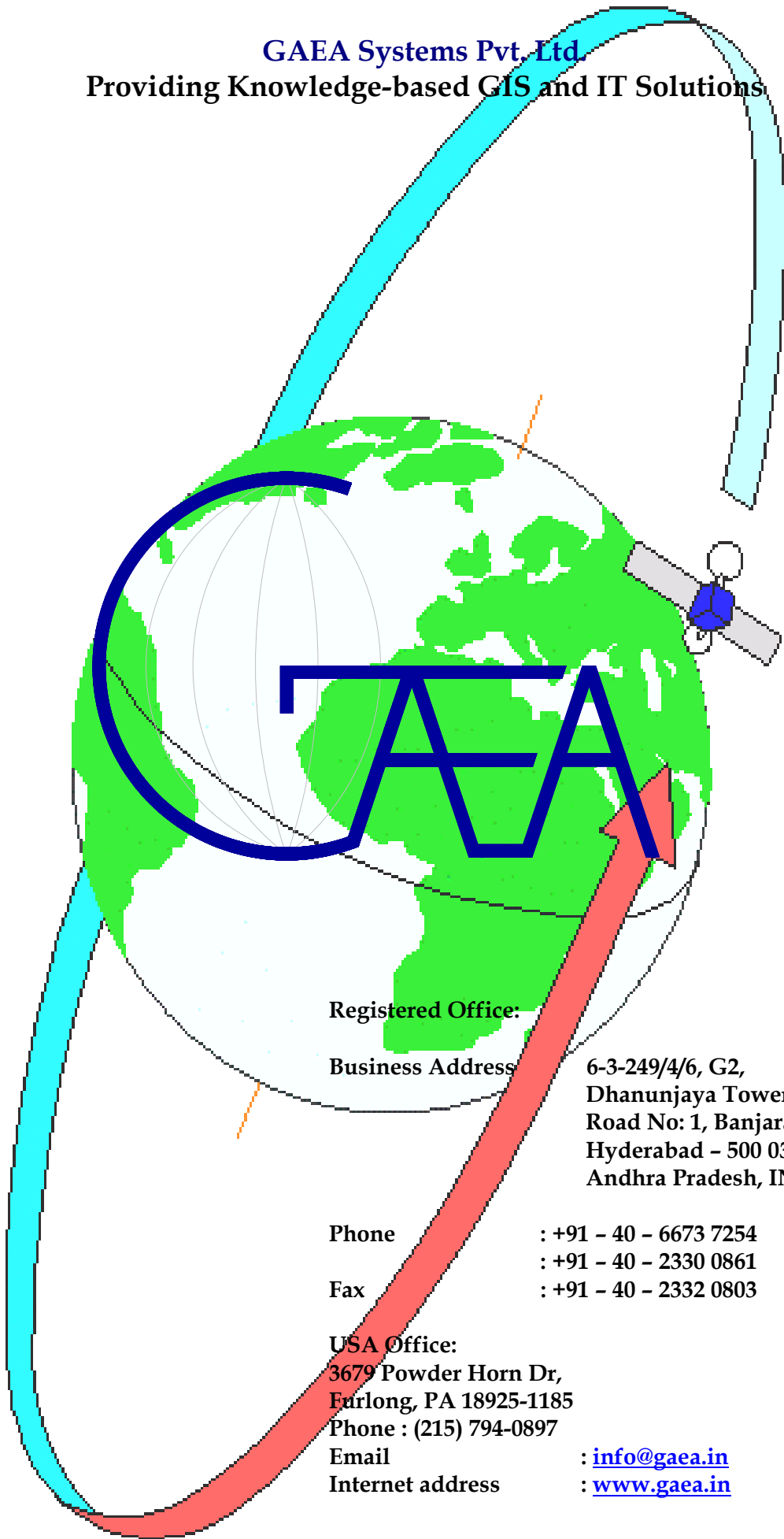


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# Watershed Management Information System - Swedish Client

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## OVERVIEW

**Arkavathi Data Viewer Ad Hoc Report & Map Generator** is an analytical tool designed to assist Arkavathi project team professionals with displaying Watershed information, analyzing Watershed events, predicting outcomes, and planning strategies.

The primary purpose of the tool is to contribute to improving the knowledge of the Arkavathi team regarding socio economic and resource details of the people living in Arkavathi region for development, enhancing techniques to save natural sources, increasing the standards of living, and maximizing resources. The implementation of the new technology is designed to meet the immediate and long-term objectives of the Arkavathi team.

### **Data Viewer provides three methods of viewing Watershed information.**

All three views are interconnected, providing a direct means for navigating through each view to the "see" information in a different perspective.

**Data View** - the Data View provides information access as it relates to all categorical areas of interest. An Ad-Hoc interface with categorical tabs and a columnar display grid, allow the Arkavathi team to select desired attribute information and submit a custom query, and have the results immediately displayed.

**Map View** - based on GIS technology, the Map View displays Arkavathi watershed information as it relates to geographic areas of interest. A graphical interface and associated legend, allow the team to organize, analyze and display information for visual representation. Spatial variations, subtle patterns, and trends can be revealed to support decision making for analyzing and planning strategies.

**Report View** - The Report View provides a graphical interface and hard copy output of selected information. The Report View includes charts and related information. The reports that are there in Report Viewer are all dynamic reports.

## FEATURES & FUNCTIONALITY

### **The Data View**

The Data View (Figure 2.1) is where all of the data selection criteria are defined. The user can select Village along with Live Stock (Animals), Watershed, Cultivation, Family, Home water, Irrigation, Crop land utility, Soil, Water harvest, Khate number, Survey number, Land owner, Well and Population details. A user must select a Village (remaining details are optional) and click Execute Query. Runoff tab is also provided so that if a user feeds Annual Rainfall in mm he will get Runoff coefficient and Annual Yield (in mm). There are two main parts

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**Arkavathi Data Viewer** Ad Hoc Report & Map Generator

**Select Villages**

- Doddarayapanhalli
- Gandarajapura
- Gantiganahalli
- Goolya
- Heggadi Hally
- Kanchiganala
- Kodihalli
- Kurubarahalli

**Selected Villages**

- Bedikere
- Bidikere Agrahara
- Channapura
- Chikkarayapanahilly
- Chogodnahalli
- Dandudasakodigehalli
- Dasagodanahalli
- Doddaballepur

Locate Village:

No. of Records: 12      Criteria: Village: Bidikere, Bidikere Agrahara, Channapura, Chikkarayapanahilly, Chogodnahalli, Dandudasakodigehalli, Dasagodanahalli, Doddaballepur, Doddarayapanhalli, Gandarayapura, Gantiganahalli, Goolya, Heggadi Hally, Kanchiganala, Kodihalli, Kurubarahalli

V_ID	village	panchayat	hobli	taluk	district	hamlets	Agricultural land	Kushki	Tari
11185	Bedikere	Melekote	Tubugere	Doddaballapura	Bangalore Rura	1	277.360	265.480	4.380
11181	Bidikere Agrahara	Heggadihalli	Tubugere	Doddaballapura	Bangalore Rura	1			
11133	Channapura	Melekote	Tubugere	Doddaballapura	Bangalore Rura	1	271.480	246.580	9.800
11118	Chikkarayapanahilly	Melekote	Tubugere	Doddaballapura	Bangalore Rura	1	476.930	354.600	42.530
11173	Chogodnahalli	Melekote	Tubugere	Doddaballapura	Bangalore Rura	2	402.580	335.950	18.000
11111	Dandudasakodigehalli	Heggadihalli	Kasaba	Doddaballapura	Bangalore Rura	1	374.260	273.130	62.230
11241	Dasagodanahalli	Rajagatta	Kasaba	Doddaballapura	Bangalore Rura	1	203.340	133.880	39.380
11126	Doddarayapanhalli	Melekote	Tubugere	Doddaballapura	Bangalore Rura	1	101.200	165.900	21.550
11155	Gantiganahalli	Melekote	Tubugere	Doddaballapura	Bangalore Rura	1			
11154	Heggadi Hally	Heggadihalli	Tubugere	Doddaballapura	Bangalore Rura	2	521.500	387.650	101.630
11190	Kanchiganala	Rajagatta	Kasaba	Doddaballapura	Bangalore Rura	1			

Buttons: Show Records, Print Grid, Export

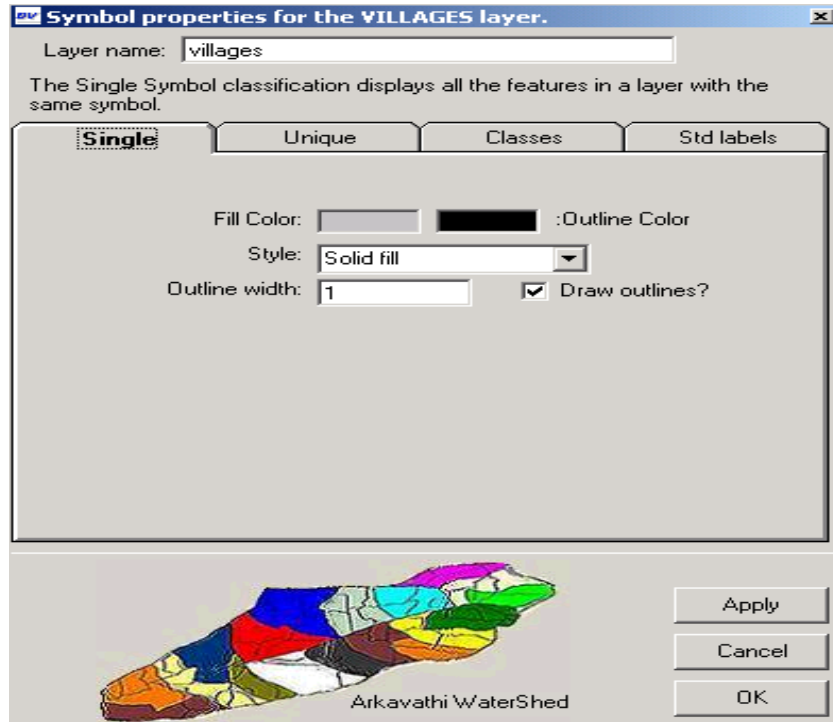
Status: Finished Loading      4:01 PM

## The Map View

The application opens with the 'Data View' as the active tab. Use the tab bar at the right side of the screen to go between Map View, Data View and Report View. The Map View is where the Villages of the Arkavathi region were displayed.

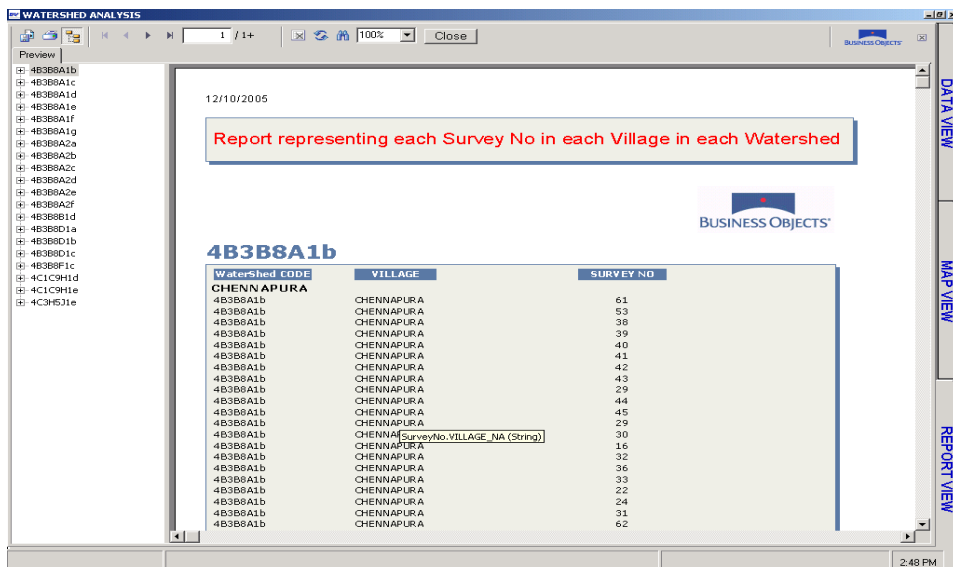


# Watershed Management Information System - Swedish Client



## The Report View

The Report View (Figure 2.10) is where the Ad Hoc reporting capabilities are complemented. The canned reports were created by Crystal Reports XI. These reports can query the Watershed region in minute detail. The report viewer consist various reports like Soil, Watershed, Survey numbers in each Watershed, etc. The Microsoft Access Database and the Crystal Reports XI capabilities make the reports compelling and powerful.



Technologies: MapObjects 2.2 (ESRI) VB 6.0, Crystal Reports XI, MS Access.