

101 C. 5) ASSESSMENT OF HYDROLOGICAL AND PHYSICAL STATUS OF TRADITIONAL WATER HARVESTING SYSTEMS IN KARNATAKA STATE USING GEO-SPATIAL TECHNOLOGIES AND MEASURES FOR RESTORATION AND REJUVENATION

Project Investigator : Dr. U.T.Vijay
Budget & Funding Agency : Rs. 48,29,500/- & DST, GOI
Duration : 2 Years
(April 2017 - March 2019)

Objectives:

- To carryout field survey and map the Geographic location of Traditional Water Harvesting Systems using GPS technology
- To create digital database on both spatial & non spatial database on various parameters and hyperlink the photographs using Geo-spatial technologies
- To assess the Physical and Hydrological status including the water quality of these water bodies by integrating various thematic layers in GIS Environment
- To provide suggestions and scientific measures for restoration and rejuvenation based on its Physical and hydrological status and usage.
- To conduct District level workshops to highlight the importance of TWHS, present status and measures for restoration and rejuvenation

Progress :

- Field survey of Traditional Water Harvesting Systems(TWHS) in Ballary, Davanagere, Bengaluru Rural, Bengaluru Urban, Chikkamagaluru, Kodagu, Koppal, Dharwad, Haveri, Bidar and Belagavi has been completed as depicted in table no.1.
- Prepared Talukawise and Districtwise scientific reports containing the present physical and hydrological status along measures for Rejuvenation in English and Kannada for Bengaluru Rural and Urban districts and submitted the reports to the concerned CEO and President of these Zilla Panchayaths.
- Organization of workshop for Officials of Panchayath Raj Institutions such as ZP, TP and Grama Panchayaths of Bengaluru Rural district during February 2018.
- Field survey of TWH Structures in Chitradurga, Shivamogga, Udupi, and Chamarajnagar district is under progress

- Creation of database in GIS Environment and Preparation of report for Davanagere, Chikkamagaluru, Ballary and Kodagu districts is under progress.

Table 1. : District wise status of Field survey completed

Sl No	District	No. of TWH Structures
1	Bengaluru Urban	171
2	Bengaluru Rural	351
3	Ballary	436
4	Bidar	231
5	Chikkamagalur	160
6	Davanagere	291
7	Kodagu	45
8	Koppal	240
10	Dharwad	348
11	Haveri	627
12	Belagavi	245
	Total	3145

Keeping this in view, in order to showcase the technologies and models for rejuvenation of these Kalyanis, the Council has initiated to take up the restoration and rejuvenation of one problematic Kalyani in each district to impress upon the Panchayath Raj Institutions of the state on the importance of rejuvenation of Kalyanis for future use.

In this connection, KSCST has initiated to take up the restoration rejuvenation of Kalyani in Shantigrama village in Hassan taluk and district having the capacity of 14500 cu.m. Hasiru Bhomi Prathishtana, a non-profit making organization in Hassan.

Glimpses of Photographs on Traditional Water Harvesting Systems



Kalyani in Santebennuru, Channagiri taluk, Davanagere District



Release of the Scientific report on TWHS by Sri. V. Prasad, President, Zilla Panchayath, Bengaluru Rural District during workshop at Zilla Panchayath