

STATUS OF RESEARCH & DEVELOPMENT PROJECTS RGNGWTRI, CGWB, RAIPUR

PROJECTS COMPLETED

1. Stable isotope investigations to study surface water – ground water interaction in a hard rock terrain in parts of Durg District, Chhattisgarh.

(Collaborators: RGNGWTRI, CGWB, Raipur & PRL, Ahmedabad)

- December 2015 – March 2019.
- Report submitted and under printing.

2. Sustainability of aquifer systems underlying Bemetara Block, Bemetara, Chhattisgarh - a mathematical modelling approach.

(Collaborators: RGNGWTRI, CGWB, Raipur & CGWB, NCCR, Raipur)

- May 2015 – March 2019.
- Report submitted and under final scrutiny.

ONGOING PROJECTS

1. Occurrence and Movement of Arsenic in Ground Water In Rajnandgaon District, Chhattisgarh State

- June 2017 – March 2019
- Report under scrutiny

2. Impact of Climate Change on Ground Water Regime in Punjab and Haryana

- June 2017 – March 2020
- Data processing and analysis in progress.

FUTURE PROJECTS BEING UNDERTAKEN

1. Spring-flow modelling in Sikkim Himalayas. June 2019 – March 2020.
2. Ground water modelling in Lakshadweep Island. June 2019 – March 2021.
3. Impact of managed aquifer recharge on ground water regime in parts of Chhattisgarh. June 2019 – March 2021.
4. Sea water intrusion in coastal area of the Sundarbans: a study in and around Ganga Sagar Islands, West Bengal. June 2019 – March 2021.
5. Impact of climate change on the water resources of the Vellar River basin, Tamilnadu. June 2019 – March 2021.

M.Sc./M.Tech DISSERTATIONS

2016-2017

1. “Estimation of Aquifer Parameters in Gypsiferous Shale”, Ms. Devi C. Babu, M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
2. “Assessment of Seasonal, Temporal & Spatial Variation in Distribution of Ground Water Chemistry in Karimnagar District, Telangana”, Ms. Rohini Shaji, M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
3. “Identification of Subsurface Formation and Zones for Artificial Recharge in Raipur Municipal Corporation Area by Surface Geophysical Method ”, Ms. Sreelakshmi R., M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
4. Feasibility of Roof Top Rain Water Harvesting at the proposed New Building Complex of NGWTRI, Naya Raipur (C.G.)”, Sh. Saikiran C. Malipatil, M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
5. Identification of Subsurface Lithology and Ground Water Potential Zones in Naya Raipur Area using Geophysical Methods”, Sh. Rathod Saitarun, M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
6. “A Comparison of Groundwater Resource Estimation using GEC 1997 and GEC 2017 methodologies in Bemetara block, district Bemetara, Chhattisgarh”, Ms. Sonal Chourasia, Master of Technology in Agricultural Engineering (Soil and Water Conservation Engineering), Department of Farm Engineering, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi.

2017-2018

7. “Ground Water Resources Estimation of Gurur Block, Chhattisgarh Using GEC 2015 Methodology, Sh. Mallarapu Uma Maheswara Rao, M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
8. “Ground Water Issues and management Options in Arsenic affected Ambagarh Chowki Block in Rajnandgaon District of Chhattisgarh State, Sh. Edwin Paul, M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.

2018-2019

9. “Human and Climate Impacts on the Ground Water Levels in Punjab State”, Sh. Ramakrishna Belundagi, a student of M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.
10. “Human and Climate Impacts on the Ground Water Levels in Haryana State”, Sh. Ranadheer Astagi, a student of M.Sc. (Applied Geology and Geoinformatics), Central University of Karnataka, Gulburga.

2019-20

11. “Impact of Managed Aquifer Recharge on ground water regime in parts of Chhattisgarh State”, Mr. D Vinod Kumar Naik, M.Tech. Dissertation, Department of Water Engineering and Management, Central University of Jharkhand, Ranchi (yet to commence work).