

DATA SHEET FOR RESEARCH SCHOLARS



1. Name of the Scholar: NARAD RAJESH
2. Gender: Male
3. Department: P.G. Department of Environmental Sciences
4. Designation: JRF  SRF  Any Other
5. Permanent Address: AT-Telgupada, Po-Burla, Sambalpur, Odisha,768017
6. Address for Communication: P.G. Department of Environmental Sciences, Sambalpur Burla, 768019
7. Email ID: [naradrajesh10@gmail.com](mailto:naradrajesh10@gmail.com)
8. Contact Number: 9178672129
9. Funding Agency: UGC-NFOBC
10. Date of commencement of Fellowship: 04/05/2022
11. Period of Fellowship: 5 Years

12. Title of Research Work: Water and Suspended sediments from Dam Reservoirs in Mahanadi river Basin, upstream of Boudh: Assessment of the physico-chemical parameters and their impacts in the River system.

13. Name of the Guide: Prof. Sanjaya Kumar Pattanayak

14. Registration Number: 03-ENVSC-04.06.2022

15. A Brief Abstract of your Research Work (Within 200 words): The Mahanadi is one of the chief rivers of India, flowing east and draining into the Bay of Bengal. This study includes seasonal analysis of heavy metals of the river water and suspended load from Dam reservoirs to understand the overall metal concentration in the Mahanadi River basin. The LULC map will be prepared using Satellite image from Landsat, thematic mapper, and Enhanced Thematic mapper to find land use changes and their affect on water specifically heavy metals. Furthermore, the study will also include the determination of some physico-chemical parameters. This study is useful towards pollution of the river and water bodies in study area, also groundwater quality and management studies and future development and management of Mahanadi River and sub-watershed.and the study will also be helpful in accessing the characteristics of water and sediment and analyzing their relationship with origin and effects.

The Objectives include

1. To prepare Land use and Land cover map to Mahanadi river basin.
2. To analyze the suspended sediments from the upper and lower regions of Dams on Mahanadi river.
3. To study the water chemistry of Mahanadi river.
4. To study the Geochemical processes controlling sedimentation and siltation.

16. Status of Research Work:

- |                            |                                     |
|----------------------------|-------------------------------------|
| a) Writing the Synopsis    | <input type="checkbox"/>            |
| b) Review of Literature    | <input checked="" type="checkbox"/> |
| c) Data Collection         | <input checked="" type="checkbox"/> |
| d) Data Analysis           | <input type="checkbox"/>            |
| e) Writing the Draft Thesi | <input type="checkbox"/>            |

17. Do you have your profile in the following research networks?

- a) Google Scholar
- b) Research Gate
- c) Academia

18. Do you access the following e-resources subscribed by the university

- a) E-sodh Sindhu from INFLIBNET
- b) ProQuest

19. Number of Papers published in referred journals with ISSN: Two in the preparation stage

20. Mention any two of your best publications in APA standard:

*Pattanayak*

Countersigned by the Research Supervisor

*Narad Rajesh*

Signature of the Candidate

*Pattanayak*

Countersigned by Head

