

DATASHEET FOR RESEARCH SCHOLARS



1. Name of the Scholar: Basundhara Rakshit
2. Gender: Female
3. Department: P.G. Department of Environmental Sciences
4. Designation: JRF SRF AnyOther
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8. Contact Number: 8342880450
9. Funding Agency:
10. Date of commencement of Fellowship:
11. Period of Fellowship:
12. Title of Research Work: Assessment of fluoride concentration in Ground Water of Burla Town and its Association with other elements
13. Name of the Guide: Prof. Sanjaya Kumar Pattanayak
14. Registration Number: 01-ENVSC-06.02.2023
15. A Brief Abstract of your Research Work (Within 200 words):

Fluoride is one of the most abundant anions present in groundwater worldwide and creates a major problem in safe drinking water supply. Because of its great reactivity, fluorine cannot be found in nature in its elemental state. Fluoride is one of the most important elements for both human and animal health. Within the permissible limit of 0.5-1.5 mg/L. Fluoride serves to maintain healthy teeth and bone. On the other hand, elevated level of fluoride (>1.5 mg/L) can cause long term diseases such as dental (1.5-4.0 mg/L) and skeletal fluorosis (4.0-10.0 mg/L). The major focus of the research work is exploring the causes of fluoride concentration in ground water of Burla town. Water samples are classifying in to different cluster groups and analysing by using different Hydrogeochemical facies. Although physicochemical parameters are also analysed of the samples.

16. Status of Research Work:

- | | |
|-----------------------------|-------------------------------------|
| a) Writing the Synopsis | <input checked="" 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 Thesis | <input type="checkbox"/> |

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

- a) GoogleScholar
- b) Research Gate
- c) Academia

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

- a) E-sodhSindhufromINFLIBNET
- b) ProQuest

19. Number of Papers published in referred journals with ISSN:

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

Pattamayuk Basundhara Kankhit.

Countersigned by the Research Supervisor

Signature of the Research Scholar

Pattamayuk

Countersigned by Head