



# Government General Degree College, Tehatta

*Tehatta, Nadia-741160, West Bengal.*

## Field Work on the River Jalangi

**Field Instructor:** Susmita Chowdhury  
Assistant Professor  
Department of Chemistry



To  
The Officer-In-Charge  
Government General Degree College, Tehatta,  
Tehatta, Nadia-741160.

**Date:** 20-02-2023

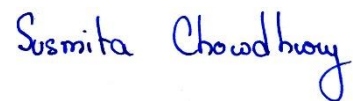
**Sub:** Intimation for conducting a field work on Jalangi river as a part of environmental studies.

Sir,

I would like to request you to grant permission for carrying out a field work on the river Jalangi as a part of their environmental study. The intended field work is scheduled on 01-03-2023. The students of 1<sup>st</sup> semester who have ENVS in their curriculum will be a part of this field work. I am sure this work will greatly enhance the students' sense of environmental ethics.

Hope for your kind approval.

Thanking You,  
Yours sincerely



Assistant Prof. in Chemistry  
Government General Degree College

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The Officer-In-Charge  
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Susmita Chowdhury  
Susmita Chowdhury

Assistant Prof. in Chemistry  
Government General Degree College

Permitted  
20/2/23



Government General Degree College, Tehatta  
Tehatta, Nadia- 741160

**Notice**

Date: 20/02/2023

All the students of 1<sup>st</sup> semester (Hons) are informed that a field work will be carried out on the river Jalangi on 01/03/2023 (Wednesday). The students have to report to the college at 11:00 a.m. sharp. They have to carry a small notebook and a pen with them. After completion, the students will have to submit a report on the day's work.

*Susmita Chowdhury*

Assistant Prof. in Chemistry,  
Govt. General Degree College, Tehatta

## Permission From Sub-Divisional Officer

DMDE-1  
Pl. Sec

To  
The Sub-divisional Officer,  
Tehatta, Nadia.

**Date:** 21/02/2023

**Sub:** Permission for carrying out a field work on the river Jalangi as a part of environmental studies.

Sir/Madam,

I would like to request you to grant permission to carry out a field work on the river Jalangi as a part of environmental studies during the period of 01/03/2023 to 30/06/2023.

Objective: To carry out a thorough survey on the pollution and cleanliness of river Jalangi.

Participants: Students and teachers of Government General Degree College, Tehatta.

Outcome: To make the students aware of their local environment and improve their environmental ethics.

I assure you that our teachers will properly guide the students to prevent any undesirable situation that is going to affect the locality. Hope for your kind cooperation in this regard.

Thanking You,  
Yours faithfully



Allowed for  
the area, from  
Chanderghat to  
Tehatta Ghat.  
me me  
27/2/23.

Sub-Divisional Officer, Tehatta  
Tehatta, Nadia

21/2/23  
S. S. Pal  
Officer in Charge  
Govt. Gen. Degree College, Tehatta  
Nadia-741160



**GOVERNMENT GENERAL DEGREE COLLEGE, TEHATTA**  
**ATTENDANCE SHEET FOR FIELD WORK ON JALANGI RIVER**  
**(IN COLLABORATION WITH NSS UNIT OF THE COLLEGE)**

**DATE: 24/03/20223**

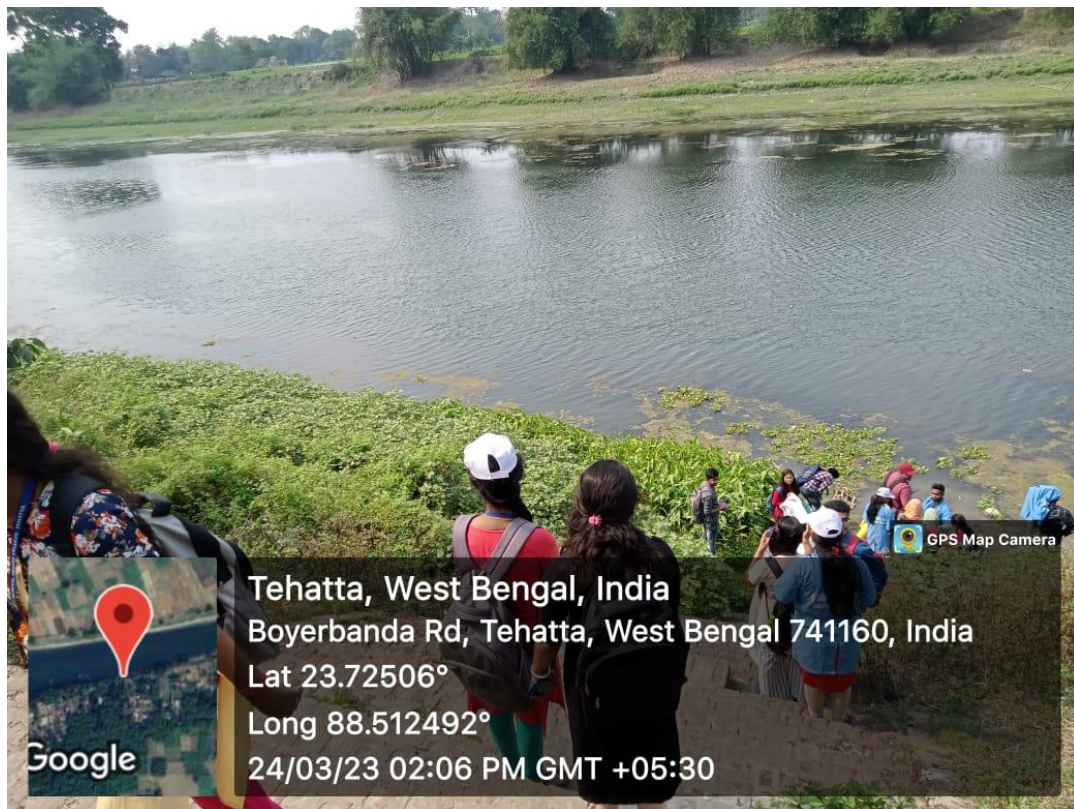
| Sl No. | Name                   | Department                   | Signature of Participant |
|--------|------------------------|------------------------------|--------------------------|
| 1.     | Dipika Biswas          |                              | Lipika Biswas            |
| 2.     | Mehbub Akhtar          |                              |                          |
| 3.     | Sadik Mondal           |                              | Sadik Mondal             |
| 4.     | Ramisha Mondal         |                              |                          |
| 5.     | Ankan Biswas           |                              |                          |
| 6.     | Santanu Sarnakar       |                              |                          |
| 7.     | Anisha Mondal          |                              | Anisha Mondal            |
| 8.     | Khushi Biswas          |                              | Khushi Biswas            |
| 9.     | Barsha Halder          |                              |                          |
| 10.    | Rimpa Dey              |                              |                          |
| 11.    | Arpita Sarkar          |                              |                          |
| 12.    | Tanushri Halder        |                              | Tanushri Halder          |
| 13.    | Tithi Ghosh            | Philoso Phy (F1/1st)         | Tithi Ghosh              |
| 14.    | Mitra Biswas           |                              | Mitra Biswas             |
| 15.    | Rina Biswas            | philosophy Honours (1st sem) | Rina Biswas              |
| 16.    | Sanhita Biswas         |                              |                          |
| 17.    | Tanusree Biswas        | Philosophy Honours (1st)     | Tanusree Biswas          |
| 18.    | Prithwi Mandal         |                              |                          |
| 19.    | Pratima Das            | History Honours (1st)        | Pratima Das              |
| 20.    | Paulami Biswas         | Bengali Hons (1st)           | Paulami Biswas           |
| 21.    | Soumi Saha             |                              |                          |
| 22.    | Puja Nath              |                              | Puja Nath                |
| 23.    | Mosammat Reshma Khatun |                              |                          |
| 24.    | Labani Halder          | Bengali Hons (1st)           | Labani Halder            |
| 25.    | Ankan Mondal           | English Hons (1st)           | Ankan Mondal             |
| 26.    | Soumyadeep Halder      | History Hons (1st)           | Soumyadeep Halder        |
| 27.    | Shreya Tewary          |                              |                          |
| 28.    | Raja Mondal            |                              |                          |
| 29.    | Shreya Mandal          |                              |                          |
| 30.    | Shyamali Khatun        |                              |                          |
| 31.    | Archita Biswas         |                              |                          |
| 32.    | Jisan shaikh           |                              |                          |
| 33.    | Ananya Mondal          | Bengali Honours (1st)        | Ananya Mondal            |
| 34.    | Koyel Das              | Bengali (Honours) (1st)      | Koyel Das                |
| 35.    | Abhik Mondal           |                              |                          |
| 36.    | Moumita Biswas         | English Hons (1st)           | Moumita Biswas           |

|     |                   |                             |                       |
|-----|-------------------|-----------------------------|-----------------------|
| 37. | Rakhi Biswas      | (History Hons 1st)          | Rakhi Biswas          |
| 38. | Trisha Mandal     | Bengali (Hons)              | Trisha Mandal         |
| 39. | Labani Mondal     |                             |                       |
| 40. | Lisa Halder       | Lisa Halder Beng (H)        | Lisa Halder           |
| 41. | Partha Sharma     | Hist (H)                    | Partha Sharma         |
| 42. | Rimon Shaikh      | Philosophy (H) 1st          | Rimon Shaikh          |
| 43. | Soma Mondal       | Bengali (H) 1st             | Soma Mondal           |
| 44. | Shreya Roy        | Shreya Roy General 6th      | Shreya Roy            |
| 45. | Rupkatha Paul     | English Hons. (1st Sem)     | Rupkatha Paul         |
| 46. | Misipriya Nasrin  |                             |                       |
| 47. | Sonali Halder     |                             |                       |
| 48. | Bidisha Mondal    |                             | Bidisha Mondal        |
| 49. | Sathi Ghosh       |                             |                       |
| 50. | Shreya Sarkar     |                             |                       |
| 51. | Suman Chakraborty | Suman Chakraborty           | Suman Chakraborty     |
| 52. | Shreya Sarkar     |                             |                       |
| 53. | Tanushri Mondal   | Tanushri Mondal Bengali (H) | Tanushri Mondal (1st) |
| 54. | Rittik Mal        |                             |                       |
| 55. | Prithwi Mandal    | History Hons (1st)          | Prithwi Mandal        |
| 56. | Tuhin Das         | POL. SC                     | Tuhin Das             |
| 57. | Subhojit Modak    | English Hons (1st)          | Subhojit Modak        |
| 58. | Ayan Mandal       | English Hons (1st)          | Ayan Mandal           |
| 59. | Rajesh Ghosh      |                             |                       |
| 60. | Disha Guin        | History Hons (1st)          | Disha Guin            |
| 61. | Sneha Halder      | History Hons (1st)          | Sneha Halder          |
| 62. | Banti Debnath     |                             |                       |
| 63. | Sourav Biswas     |                             |                       |
| 64. | Rimpa Mondal      | History Hons (1st)          | Rimpa Mondal          |
| 65. | Debjyoti Halder   | English Hons (1st)          | Debjyoti Halder       |
| 66. | Soumika Mondal    |                             |                       |
| 67. | Sanchu Dawn       |                             |                       |
| 68. | Jayanti Mondal    | History Hons (1st)          | Jayanti Mondal        |
| 69. | Amarjit Biswas    | Bengali Hons (1st)          | Amarjit Biswas        |
| 70. | Piu Mondal        | Bengali Hons (1st)          | Piu Mondal            |
| 71. | Rubina Khatun     | English Hons (1st)          | Rubina Khatun         |
| 72. | Sandipa Biswas    |                             |                       |
| 73. | Priya Mondal      | Bengali Hons (1st)          | Jayeta Modak          |
| 74. | Jayeta Modak      | Sathi Mandal                | History Hons (1st)    |
| 75. | Sathi Mandal      | Philosophy (1st)            | Kojel Kar             |
| 76. | Koyel Kar         | Bengali Hons (1st)          | Mafuja Khatun         |
| 77. | Mafuja Khatun     | Bengali Hons (1st)          | Anish Roy             |
| 78. | Anish Roy         | Bengali Hons (1st)          | Tanmoy Das            |
| 79. | Tanmoy Das        | Bengali Hons (1st)          | Manik Ghosh           |
| 80. | Manik Ghosh       |                             |                       |
| 81. | Bittu Mondal      |                             |                       |



|      |                       |                         |                       |
|------|-----------------------|-------------------------|-----------------------|
| 82.  | Mouli Biswas          |                         |                       |
| 83.  | Abhijit Debnath       |                         |                       |
| 84.  | Sathi Mallik          | Sathi Mallik            | History Hons (1st)    |
| 85.  | Aditi Haldar          | Aditi Haldar            | History Hons (1st)    |
| 86.  | Mihika Pramanik       | Mihika Pramanik         | History Hons (1st)    |
| 87.  | Rinku Mandal          | History (H) 1st         | Rinku Mandal          |
| 88.  | Akash Biswas          | Bengali Honours (1st)   | Akash Biswas          |
| 89.  | Nilkantha Mandal      |                         |                       |
| 90.  | Anish Mondal          |                         |                       |
| 91.  | Fawjal Kabir Khadim   |                         | Fawjal Kabir Khadim   |
| 92.  | Falguni Joarder       |                         |                       |
| 93.  | Easha Sarkar          | Bengali Hons (1st)      | Easha Sarkar          |
| 94.  | Souvik Ghosh          |                         |                       |
| 95.  | Rubel sekh            | B.Sc. Gen.              | Rubel Sekh            |
| 96.  | Rubina Khatun         | History Hons (1st)      | Rubina Khatun         |
| 97.  | Pritya Mandal         | Bengali Hons (1st)      | Pritya Mandal         |
| 98.  | Pritya Mandal         | English Hons (1st)      | Pritya Mandal         |
| 99.  | Itika Mandal          | Bengali Hons (1st)      | Itika Mandal          |
| 100. | Payel Singha          | Pol Science Hons (1st)  | Payel Singha          |
| 101. | Rishwan Mondal        | B.Sc. Gen.              | Rishwan Mondal        |
| 102. | Sahin Shahuwar Mondal | B.Sc. Gen.              | Sahin Shahuwar Mondal |
| 103. | Sukalpa Sutta         | B.Sc. Gen.              | Sukalpa Sutta         |
| 104. | Anindya Dey           | Political Science (1st) | Anindya Dey           |
| 105. | Sumami Khatun         | B.Sc. Gen.              | Sumami Khatun         |
| 106. | Shova Khatun          | B.Sc. Gen.              | Shova Khatun          |





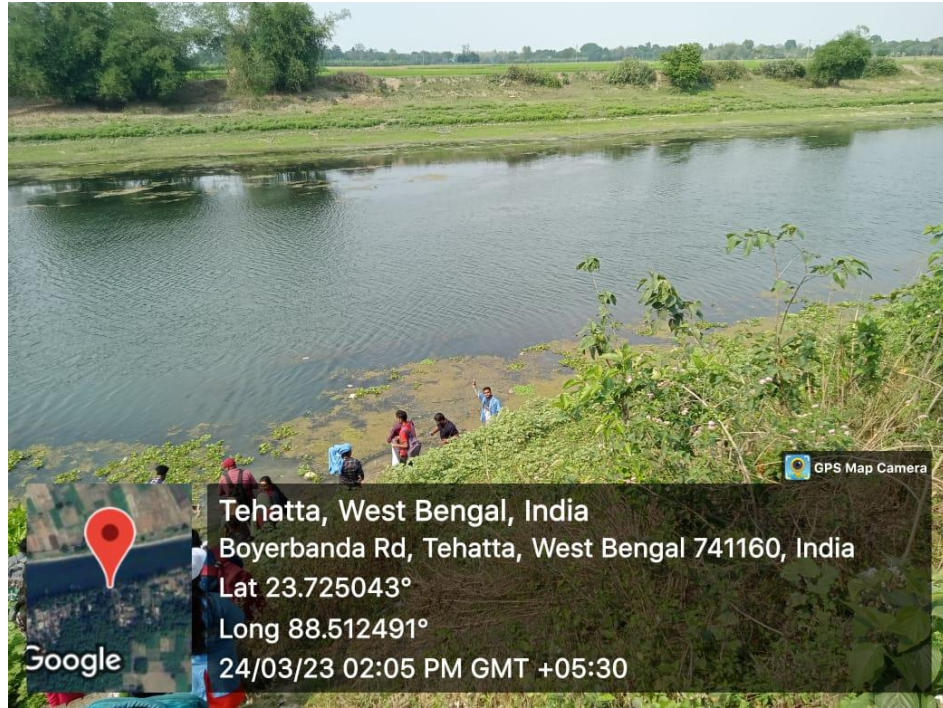














# Report on Field Work

যাদবপুর বিশ্ববিদ্যালয়  
কলকাতা-৭০০০৩২, ভারত



\*JADAVPUR UNIVERSITY  
KOLKATA-700 032, INDIA

SCHOOL OF ENVIRONMENTAL STUDIES

Ref. No. SOES/JU/WT/S214/May/2023

Date: 17<sup>th</sup> April, 2023

To

Officer-in-Charge

Government General Degree College, Tehatta

Tehatta, Nadia-741160

Sub: Analysis report of your supplied water sample

Sir,

With reference to your letter dated 28<sup>th</sup> March, 2023 (Ref. No. Nil), please find herewith the analytical report of the water sample collected and supplied by your organization dated 28<sup>th</sup> April, 2023.

| Description of sample & Location | Water quality parameters | Observed value | Recommended value as per Indian standard |
|----------------------------------|--------------------------|----------------|--|
| River water sample               | Arsenic (As)             | 20 µg/L        | 10 µg/L                                  |
| Location: Jalangi                | Iron (Fe)                | 400 µg/L       | 300 µg/L.*                               |

\* No health based guideline value for iron in drinking water proposed by WHO; however, the *taste* is usually unacceptable at concentration above 300 µg/L.

The guideline and recommended values of arsenic in drinking water proposed by different organizations are as follows:

| Organization  | Guideline value (µg/L) | Recommended value (µg/L) |
|---|------------------------|--------------------------|
| World Health Organization (WHO)                       | 10                     | -                        |
| United States Environmental Protection Agency (USEPA) | -                      | 10                       |
| Indian Standard                                       | -                      | 10                       |

From the estimated value, the supplied water sample is unsafe for drinking and cooking with respect to the recommended value of arsenic in drinking water.

**Warning:** In West Bengal, groundwater samples that had initially been safe with respect to arsenic ( $\leq 10$  µg/L) were found later to be contaminated with arsenic ( $> 10$  µg/L) within a span of 3–7 years and arsenic concentrations in many tube wells had been increased by as much as 5–20 folds (based on our research report). It is therefore suggested to analyze the water sample again after about a year. Surface water is very unusual to be contaminated with arsenic through geogenic activities (natural contamination); however, it can be contaminated through anthropogenic activities.

Sincerely yours,

Tarit Roychowdhury, Ph.D

School of Environmental Studies

Jadavpur University, Kolkata-700032

Tel: 0091-8902034430 (M)

Email: retarit@yahoo.com; tarit.roychowdhury@jadavpuruniversity.in

(Former JSPS and Eco-Frontier Fellow, Govt. of Japan)

\* Established on and from 24<sup>th</sup> December, 1955 vide Notification No.10986-Edn/IU-42/55 dated 6<sup>th</sup> December, 1955 under Jadavpur University Act, 1955 (West Bengal Act XXIII of 1955) followed by Jadavpur University Act, 1981 (West Bengal Act XXIV of 1981)

দূরভাষ: ৯১-৩৩-২৪১৪-৬১৪৭ (সরাসরি)  
৯১-৩৩-২৪১৪-৬৬৬৬ (২৮৭৪, ২৪৪৩ প্রসারণ)  
ফ্যাক্স: ৯১-৩৩-২৪১৪-৬৪১৪

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