



Government of the People's Republic of Bangladesh
Ministry of Water Resources
River Research Institute
<http://www.rri.gov.bd>



Record Number: 42.03.0000.111.16.001.18.1

Date: 15/01/2024

Subject: Submission of Sediment Samples analysis Report No. SED-10 (2023-24)

Reference: CEGIS Memo No.- 42.06.2626.106.37.001.24.00095; Date: 09.01.2024

Please find a copy of report of the specified subject regarding with River Bed's Sediment Sample Test of different location River along with a bill of Tk. 16500.00 (Sixteen Thousand Five Hundred Only) in connection with this report.

Please pay the bill in crossed cheque in favour of Director General, River Research Institute, Faridpur.

Enclosure:

Report No. SED-10 (2023-24).

Bill No. SED-10 (2023-24).

15-01-2024

Uma Saha

Director (A.C)

02478802456 (Phone)

umasaha@gmail.com

Director, Administrative and Finance Division, CEGIS, Dhaka-1212.

(Not in the order of

Attention seniority)

:

1. PS to DG, Director General Office, RRI;
2. Principal Scientific Officer, Chief Scientific Officer, Geotechnical Research Directorate, RRI;
3. Librarian, Library Division, RRI;
4. Accounts Officer, Accounts and Audit Division, RRI and
5. Master/Office Copy.



Rukshana

15-01-2024

Dr. Engr. Fatima Rukshana
Principal Scientific Officer

Attachments:

(1) SED-10 (2023-24)_20240114_0001



SEDIMENT CONCENTRATION ANALYSIS REPORT

FOR

**TWENTY (20) SEDIMENT SAMPLES COLLECTED FROM THE
KIRTONKHOLA RIVER AT BARISAL, THE SUGANDHA RIVER
AT BARISHAL, THE BISHKHALI RIVER PATHORGHATA,
AND THE SONDHA RIVER, UJIRPUR**

CLIENT: CEGIS, DHAKA-1212.

SOIL MECHANICS AND GROUND WATER DIVISION

GEOTECHNICAL RESEARCH DIRECTORATE

REPORT NUMBER: SED- 10 (2023-2024)

RIVER RESEARCH INSTITUTE

FARIDPUR

(FOR OFFICIAL USE ONLY)

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REPORT

1. INTRODUCTION

This report represents the analysis of sediment concentration of twenty 20 sediment samples collected from Kirtonkhola, Shugandha, Bishkhali and Sondha Rivers by the field personnel of CEGIS under a feasibility study of Bangladesh Water Development Board (BWDB) projects, during the month November 2023. In this regard the 20 sediment samples were received at River Research Institute laboratory on the date 10.01.2024 from Director, Administration and Finance Division, CEGIS, Dhaka vide office memo no. 42.06.2626.106.37.001.24.00095, date: 09.01.2024.

2. LABORATORY TESTING

2.1 Sediment Concentration Test

All the suspended sediment samples were analyzed in the Sediment Laboratory of River Research Institute, Faridpur for determining their sediment concentration. Suspended sediment portion of each sample was separated from the liquid portion by using filter paper (Whatman, 42 ASHLESS). Filter papers with the retained materials were oven dried. The results have been shown in parts-per-million (ppm) by weight in Attachment-I.

3. APPENDIX

- A. Bill of this Report no.: SED-10 (2023-2024)
- B. List of personnel associated with testing works, preparation and publication of the report.



Compiled by:

S. Prasad
14.01.24 (SO)

Checked by:

SSM
14.01.2024 (SSO)

Recommended by:

Prubhansu
14.01.24 (PSO)

Approved by:

Uma Saha
14.01.2024

(Uma Saha)

Director (Additional Charge)
Geotechnical Research Directorate
River Research Institute
Faridpur

Table-1

Results of Sediment Concentration studies for the 4 samples collected from Babujanj during the month of November 2023.

Sl. No.	Date of Collection	Time	Bulk Suspended sediment Concentration in ppm.	Remarks
1	2	3	4	5
1	Not provided by Client	09.00 am	28.00	
2		11.30 am	24.90	
3		02.00 pm	28.30	
4		04.30 pm	44.60	

Table-2

Results of Sediment Concentration studies for the 4 samples collected from the Kirtonkhola River at Barisal during the month of November 2023

Sl. No.	Date of collection	Time	Bulk suspended sediment concentration in ppm	Remarks
1	2	3	4	5
1	11/11/2023	09.00 am	43.40	
2	11/11/2023	12.00 pm	43.50	
3	11/11/2023	15.00 pm	47.40	
4	11/11/2023	18.00 pm	44.80	

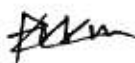



Table-3

Results of Sediment Concentration studies for the 4 samples collected from the Shugandha River at Jhalokathi during the month of November 2023

Sl. No.	Date of collection	Time	Bulk suspended sediment concentration in ppm	Remarks
1	2	3	4	5
1	12/11/2023	8.40 am	46.0	
2	12/11/2023	11.40 am	47.2	
3	12/11/2023	2.40 pm	47.5	
4	12/11/2023	5.40 pm	56.8	

Table-4

Results of Sediment Concentration studies for the 4 samples collected from the Bishkhali River at Pathorghata during the month of November 2023.

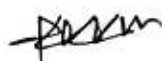
Sl. No.	Date of Collection	Time	Bulk Suspended sediment Concentration in ppm.	Remarks
1	2	3	4	5
1	Not provided by Client	08.00 am	21.60	
2		11.00 am	108.60	
3		02.00 pm	135.30	
4		06.00 pm	39.40	




Table-5

Results of Sediment Concentration studies for the 4 samples collected from the Shondha River at Ujirpur during the month of November 2023.

Sl. No.	Date of Collection	Time	Bulk Suspended sediment Concentration in ppm.	Remarks
1	2	3	4	5
1	13/11/2023	9.30 am	74.6	
2	13/11/2023	12.30 pm	47.4	
3	13/11/2023	3.30 pm	83.0	
4	13/11/2023	6.30 pm	73.5	



Sediment Analysis Bill



SEDIMENT, CHEMICAL & WATER POLLUTION DIVISION
Geotechnical Research Directorate
River Research Institute
Faridpur

Client: **Director**
Administration and Finance
Division
Center for Environmental and
Geographic Information Services
(CEGIS)
Dhaka.

Client Memo: 42.06.2626.106.37.001.24.00095,
Date: 9/01/2024

Bill No.: SED- 10 (2023-2024)

Date: 14/01/2024

Name of the River: Kirtonkhola, Sugondha, Sondha and Bishkhali Rivers.
Duration of Sample Collection: November 2023.

Report No.: SED-10 (2023-2024)

Sl. No.	Name of Sediment Tests	Rate Per Sample in Taka	No. of Sample Tested	Cost in Taka	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1	Sediment Concentration	825.00	20	16,500.00	
2	Specific Gravity	1725.00			
3	Mechanical Analysis by				
4	a. Sieve	2850.00			
	b. Hydrometer (Excluding Specific Gravity)	2850.00			
	c. Sieve & Hydrometer Combined (Excluding Specific Gravity)	5250.00			
5	Organic Matter Content by Loss on Ignition Test	3375.00			
6	Particle Size Analysis by Mervern Particle Size Analyzer	6000.00			
7	Carbon+Hydrogen+Nitrogen by CHNS/O Analyzer	5000.00			
8	Carbon+Hydrogen+Nitrogen+Sulfar/Oxygen by CHNS/O Analyzer	8000.00			
Total above				16500.00	
(In words: Taka Sixteen Thousand Five Hundred Only)					

14.01.24
 (Sumiya Ferdous)
 Scientific Officer
 Geotechnical Research Directorate
 River Research Institute
 Faridpur

14.01.2024
 (Md. Moniruzzaman)
 Senior Scientific Officer
 Geotechnical Research Directorate
 River Research Institute
 Faridpur

14.01.24
 (Dr. Fatima Rukshana)
 Principal Scientific Officer
 Geotechnical Research Directorate
 River Research Institute
 Faridpur

14.01.2024
 (Uma Saha)
 Director (A.C.)
 Geotechnical Research Directorate
 River Research Institute
 Faridpur

Appendix-B

List of personnel associated with testing works, preparation and publication of the report:

Sl. No.	Name	Designation
1.	Uma Saha	Director (Additional Charge)
2.	Dr. Fatima Rukshana	Principal Scientific Officer
3.	Md. Moniruzzaman	Senior Scientific Officer
4.	Sumiya Ferdhous	Scientific Officer
5.	Md. Abdul Mazid Sarker	Lab Technician-C
6.	Md. Jana Alam	Lab Technician-B
7.	Md. Rejaul Karim	Lab Technician-B
8.	Md. Ramjan Ali Molla	Lab Technician-A
9.	Sheikh Md. Rasel	Lab Technician-A
10.	Md. Ikramul Haque	Lab Technician-A
11.	Md. Mahabubur Rahman	Office Assistant

To
Director General
River Research Institute
Fardpur

Date: 9 January 2024

Our ref: 42.06.2626.106.57.001.24.00095

Subject: Request for testing of sediment concentration of Kirtonkhola, Shugandha and Beskhali Rivers.

Dear Sir

I have the pleasure to inform you that CEGIS is carrying out a feasibility study of Bangladesh Water Development Board (BWDB). Under these projects, 20 (Twenty) sediment samples from different locations were collected for the sediment concentration analysis.

Therefore, I would like to request you to take necessary action for the testing of collected samples for the study purpose.

Regards



Md. Syed Afzaul Abedin, psc (Retd.)
Director,
Administration and Finance Division, CEGIS

Enclosure:

- 20 sediment concentration samples.

To
Director General
River Research Institute
Faridpur

Our ref: 42.06.2626.106.37.001.24.00095

Date: 9 January 2024


Subject: Request for testing of sediment concentration of Kirtonkhola, Shugandha and Bishkhali Rivers.

Dear Sir

I have the pleasure to inform you that CEGIS is carrying out a feasibility study of Bangladesh Water Development Board (BWDB). Under these projects, 20 (Twenty) sediment samples from different locations were collected for the sediment concentration analysis.

Therefore, I would like to request you to take necessary action for the testing of collected samples for the study purpose.

Regards



Lt Col Syed Afzalul Abedin, psc (Retd.)
Director,
Administration and Finance Division, CEGIS

Enclosure:

- 20 sediment concentration samples.