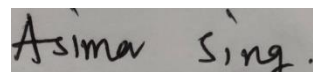


REPORT ON PROJECT WORK

According to syllabus of University of Kalyani for 6th semester had been organized a field work at Fulia, Chapatala Mathpara, Nadia, on 25th June, 2024. The topic of the project work was "RIVERBANK EROSION AND ITS IMPACT ON ECONOMY AND SOCIETY. A STUDY OF RIVER BHAGHIRATHI. AT CHAPATALA MATH PARA, FULIA, NADIA. WEST BENGAL." 28 students had been completed their work. The present project report deals with the river bank erosion in Chapatala Math Para area of Fulia, identifies some causes and impact of economy, faced by villagers with respect to management. For this purpose 55 samples were taken from near of village by using simple random sampling method by the means of questionnaires and personal interviews of villagers.



Signature of the HOD

Signature of Faculty

Informations are as below:



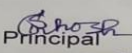
1. Topic Name: "RIVERBANK EROSION AND ITS IMPACT ON ECONOMY AND SOCIETY. A STUDY OF RIVER BHAGHIRATHI. AT CHAPATALA MATH PARA, FULIA, NADIA. WEST BENGAL.
2. Semester Name: 6th Semester
3. Place: Fulia, Chapatala Mathpara Village, Nadia, West Bengal.
4. Duration: One day . Time: 10.00 to 5.00 p. m

5. Students list of Participation:

Sl Nos.	Registration Number	Name of the Students
1	42010	Ananya Sarkar
2	42011	Ankita Khan
3	42013	Bithika Mondal
4	42014	Brishti Bose
5	42015	Maumita Mallick
6	42016	Mili Biswas
7	42018	Mouli Ghosh
8	42019	Pallabi Dutta
9	42020	Puja Ghosh
10	42021	Puspita Biswas
11	42022	Rimpa Biswas
12	42023	Ritika Mondal
13	42024	Riya Sarkar
14	42025	Sarbani Adhikary
15	42026	Sharna Chowdhury
16	42027	Sunanda Biswas
17	42028	Susmita Ghosh
18	42029	Susmita Ghosh
19	42030	Anish Roy
20	42031	Debraj Bachhar
21	42034	Karna Debnath
22	42035	Piku Poddar
23	42036	Sajal Sarkar
24	42037	Sani Saha
25	42038	Santanu Biswas
26	42039	Sayan Biswas
27	42041	Soumen Saha
28	42042	Sujoy Biswas

6.Course Code: GEO/H/CC/P/14

7.Principals Permission Letters:

	SRIKRISHNA COLLEGE Bagula o Nadia o W.B. o India ESTD : 1950 o Govt. Sponsored	
Affiliated to the University of Kalyani Re - Accredited by NAAC, Grade - B+ (Cycle - III)		
Memo No.		Date
TO WHOM IT MAY CONCERN		
<p>It is for kind information that a group of 27(Twenty Seven) students, 5 (Five) teachers of Geography Department of this college is going to organize a Field Work at Fulia, chapatala Moth Para Village on 25th June,2024.</p>		
<p>All concerned are requested to offer their help and co- operation for success of the same.</p>		
<p style="text-align: right;"> Principal Principal Srikrishna College P.O.-Bagula, Dist.-Nadia.</p>		
<p>Post : Bagula, Dist : Nadia, Pin : 741502, (W.B.), Tel : 03473-272205 / Fax : 03473-273812 Website : www.srikrishnacollegebagula.ac.in / email : srikrishnacollegebagula@rediff.com</p>		

8. Certificate of course completion

CERTIFICATE

This is to certify

that Mili Biswas

Roll: 3116137 No: 2141460,

Reg: 042016 of 2021-22

has completed the project report on 25th June 2024
as part fulfillment of geography 6th semester honours
syllabus course core: (GEO/H/CC/P/14) of University
Of Kalyani.

Date: 12.08.2024




10/08/2024

(ii)

INTRODUCTION

River bank erosion occurs when water wears away at the banks of a river or stream. While river erosion is a naturally occurring process, human impact can increase its rate. While amount all rivers will have some amount of healthy river bank erosion, unstable rivers that have large amount of erosion are cause for concern in Fulia, Chapatala Mothpara village. At the site of the erosion, issue can include loss of business and farmland which can bring economic hardship to the area. Additionally, erosion can lead to homelessness and migration if people are forced to move. The most significant problem with river bank erosion is mass failure, which occurs when an entire section of the river bank collapse into the river in bank of Chapatala Mothpara gram panchayat in Fulia.

ACKNOWLEDGEMENT

Today it is my pleasure to submit my project work , which could be complete after crossing any steps .

It will be discourteous on my part if I forgot to my indentedness to all honourable teachers of Geography dept. Srikrishna college and other personalities whom are directly concerned with the project work .

In the first step of my acknowledgement , I wish to express my deep regards to my teachers of the department for their guidance and other sincere help and valuable information. I also offer my heartfelt thanks to the honourable principal Dr. Sukdeb Ghosh.

Together with this due thank must be given to the respondent , who potentially answered all my queries and share their information with me .

Date : 12.8. 2024

Roll no. : 3116137- 2141460

Reg no. : 042016

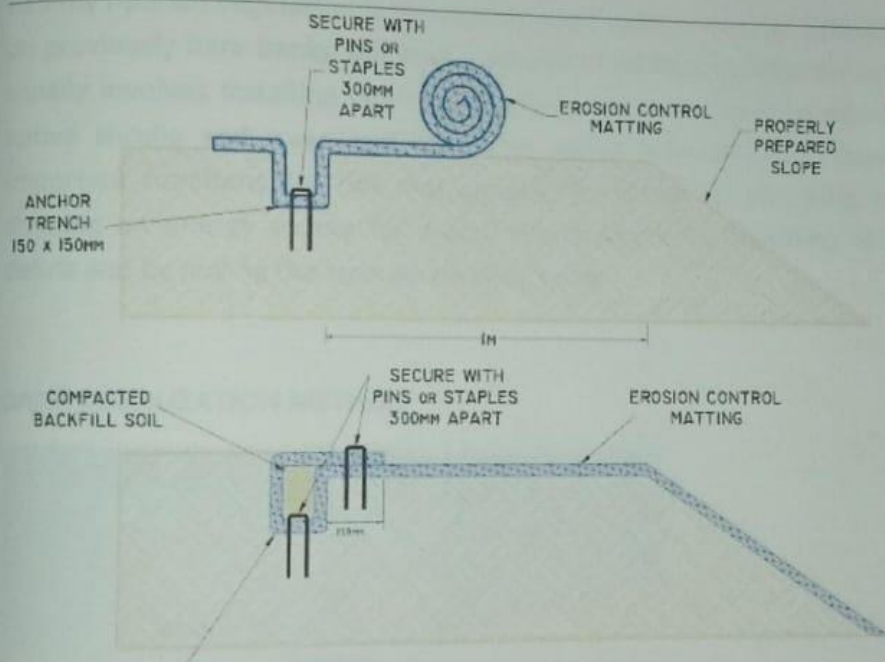
Year : 2021-22

RIVER BANK EROSION CONTROL METHODS

There are several methods of control river bank erosion and protect the bank in Chapatala Mothpara village under Fulia.

SOIL EROSION MATS OR BLANKETS

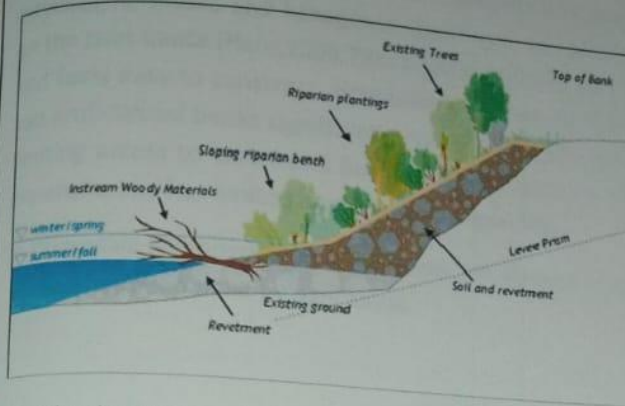
Soil erosion mats or blankets are stabilization fabric which reinforce the soil and support the bank until the plants are ready to take root. They help to slow down the flow velocity along the surface. The main purpose is to retain the soil and prevent from shifting away. They maintain ideal grow condition as well as protect and cover the soil. Thus they prevent formation of gullies. They can be used on a flat surface or a steep slope area.



BIODEGRADABLE EROSION CONTROL MAT

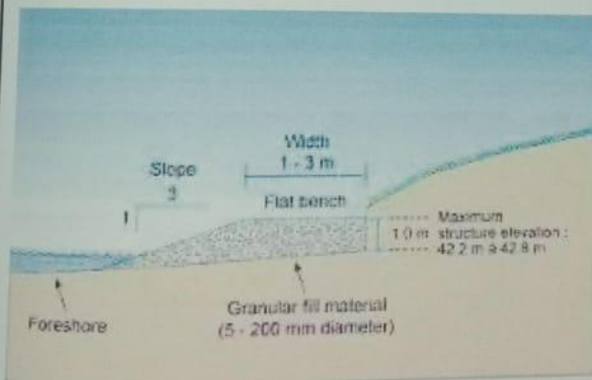
Natural materials are coconut fibre, aspen fibres, jute, wood fibres or straw which biodegradable overtime. It can take months to year to break down the fibres in environment depending on the composition of the matting. The use of coir fibres is more preferable. It can act as temporary reinforcement by offering soil stabilization.

REVEGETATION



Healthy riparian vegetation is the best defence against erosion. Establishing vegetation on previously bare banks will start a course towards a healthy stable river bank. This usually involves installing cutting of native willows and cotton woods, transplanting native shrubs and trees and spreading native riparian seed. Vegetation provides important functions for fish and aquatic life forms by providing complex habitat, creating an energy source for macro invertebrates by shedding leaves and woody debris and by pulling the river by creating shade.

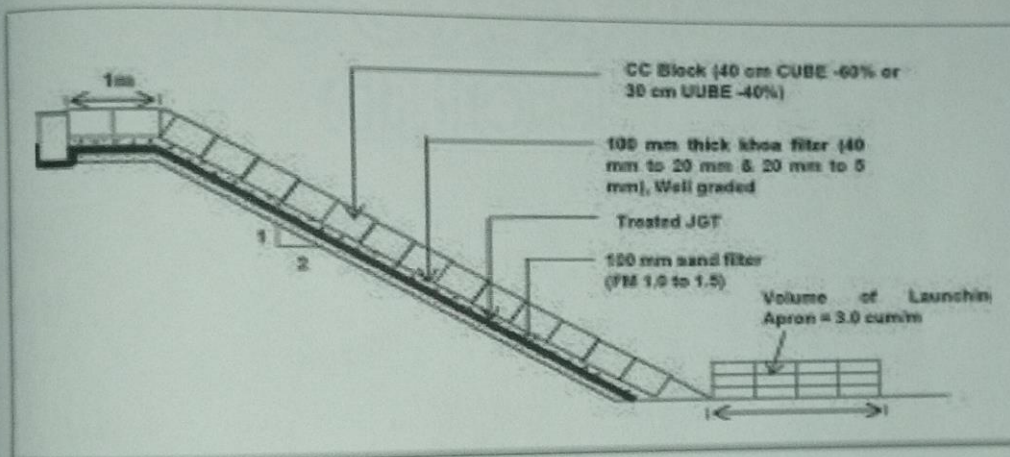
BANK STABILIZATION METHOD



Bank stabilization methods designed to fit all filled condition can sometimes lead to oversigned structure that are poorly suited to the local environment. Some

CONCLUSION AND RECOMMENDATION

While river bank erosion is an ongoing issue in Chapatala Mothpara gram panchayat under Fulia. There are certain river bank control methods available that can slow down or even stop the process because erosion occurs in a natural environment on the water, most people prefer to use natural material to control bank erosion in Chapatala Mothpara gram panchayat. River bank erosion and floods are unpredictable devastating hazard in Chapatala Mothpara village. There impacts put the livelihood of the inhabitants at risk forcing them to leave lives full of uncertainty. However, all the communities prone to floods and river bank erosion are not equally vulnerable.



The impact may vary according to time and space. People living along the river bank are affected by bank erosion and floods, but the impacts are more severe in char areas. The people of the char are more vulnerable and prone to hazards than river bank people due to its isolation from the main land. However, the situation of the people residing along the river bank not straight forwards either. River bank erosion takes away everything from the poor inhabitants, including their homes, living them with no option other than migration. They are compelled to resettle in open space, on embankments in areas of Chapatala gram panchayat under Fulia, Santipur block.

Photographs:

