



DHRUBA CHAND HALDER COLLEGE

(FORMERLY DAKSHIN BARASAT COLLEGE)

ESTD.-1965

A NAAC Accredited Degree College Affiliated to University of Calcutta

P.O.-Dakshin Barasat Dist.-South 24 Parganas West Bengal Pin - 743372 E-

mail:dchcollege@yahoo.com, Website:www.dchcollege.org

Phone:(03218)-222550(Prin.)/223-668(Off.)

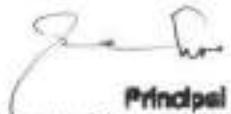
Ref.No.....

Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Bio-diversity* for 15 days duration was undertaken and successfully completed by **51** students under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for the session 2021-22, as per the syllabus of Calcutta University.


Principal
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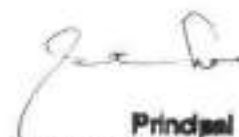
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Bengali Theatre and Binodini Dasi* for 15 days duration was undertaken and successfully completed by *17* students under our guidance and supervision to our complete satisfaction.

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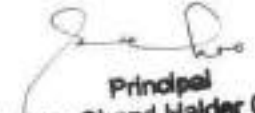
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Sylvia Plath as a Confessional poet* for 15 days duration was undertaken and successfully completed by *14* students under our guidance and supervision to our complete satisfaction.

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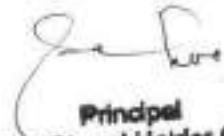
Ref.No.....

Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Solving L.P.P by moving Hyperplane Method* for 15 days duration was undertaken and successfully completed by *26* students under our guidance and supervision to our complete satisfaction.

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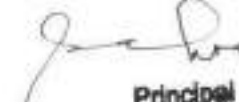
TO WHOM IT MAY CONCERN

This is to certify that Project work on *Ideal of a ring*

for 15 days duration was undertaken and successfully completed by 22 students

under our guidance and supervision to our complete satisfaction.

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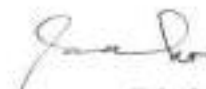
Ref.No.....

Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Rape of the Lock* as a mock-heroic poem for 15 days duration was undertaken and successfully completed by 19 students under our guidance and supervision to our complete satisfaction.

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TO WHOM IT MAY CONCERN

This is to certify that Project work on "YOGA FOR THE BODY AND MIND" for 15 days duration was undertaken and successfully completed by 69 students under our guidance and supervision to our complete satisfaction.

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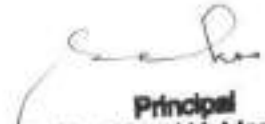
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Perfume extraction from lemon grass* for 15 days duration was undertaken and successfully completed by *21* students under our guidance and supervision to our complete satisfaction.

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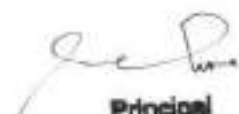
Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Arduino*

for 15 days duration was undertaken and successfully completed by 22 students under our guidance and supervision to our complete satisfaction.

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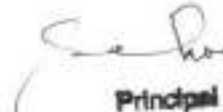
Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Laser and Fibre Optics*

for 15 days duration was undertaken and successfully completed by 11 students under our guidance and supervision to our complete satisfaction.

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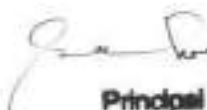
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Review on CO₂ capture with ionic liquids* for 15 days duration was undertaken and successfully completed by *15* students under our guidance and supervision to our complete satisfaction.

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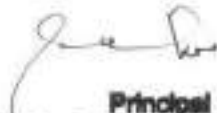
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Role of Agriculture in Indian Economy* for 15 days duration was undertaken and successfully completed by 1 student under our guidance and supervision to our complete satisfaction.

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Ref.No.....

Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Effects of COVID-19 on Indian Labour Market* for 15 days duration was undertaken and successfully completed by 1 student under our guidance and supervision to our complete satisfaction.

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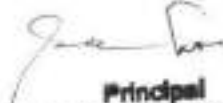
Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Banking Sector Reforms and their Impact on Indian Banking System* for 15 days duration was undertaken and successfully completed by 1 student

under our guidance and supervision to our complete satisfaction.

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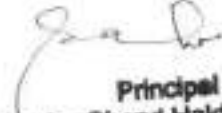
TO WHOM IT MAY CONCERN

This is to certify that Project work on *Pranta Bangla Lokommitiya : Sankat O Sambhabna*

for 15 days duration was undertaken and successfully completed by 97 students

under our guidance and supervision to our complete satisfaction.

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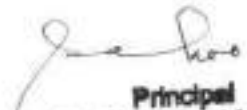
TO WHOM IT MAY CONCERN

This is to certify that Project work on *Chitranaitya Rupayan: Sahitya Theke Chalachitre*

for 15 days duration was undertaken and successfully completed by 98 students

under our guidance and supervision to our complete satisfaction.

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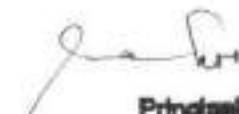
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Kalidasasya Grantheshu Prakitichetana* for 15 days duration was undertaken and successfully completed by *47* students under our guidance and supervision to our complete satisfaction.

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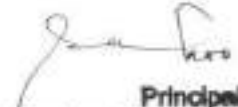
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Pariveshadushanam* *Lat*
Pratikarasa
for 15 days duration was undertaken and successfully completed by *46* students
under our guidance and supervision to our complete satisfaction.

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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Tree Plantation in College Campus* for 15 days duration was undertaken and successfully completed by *67* students under our guidance and supervision to our complete satisfaction.

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Ref.No.....


Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on **A LOCAL BIODIVERSITY REPORT ON CHINTAMANI KAR BIRD SANCTUARY (CKBS), SOUTH 24 PARGANAS**

for 15 days duration was undertaken and successfully completed by **17** students under our guidance and supervision to our complete satisfaction.

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TO WHOM IT MAY CONCERN

This is to certify that Project work on *Estimation of Domestic
Biodegradable and Nonbiodegradable Waste
and its Effect on Landfills*

for 15 days duration was undertaken and successfully completed by 20 students under our guidance and supervision to our complete satisfaction.

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TO WHOM IT MAY CONCERN

This is to certify that Project work on "Study of Local Economically Important plant
(Guava)"

for 15 days duration was undertaken and successfully completed by 12 students
under our guidance and supervision to our complete satisfaction.

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Date..... 20

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This is to certify that Project work on 'Independence and Partition of India' for 15 days duration was undertaken and successfully completed by 114 students under our guidance and supervision to our complete satisfaction.

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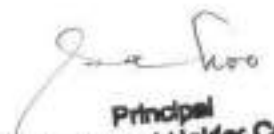
Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on "Conception of class Marxist."

for 15 days duration was undertaken and successfully completed by 101 students under our guidance and supervision to our complete satisfaction.

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Phone:(03218)-222550(Prin.)/223-668(Off.)

Ref.No.....

Date..... 20

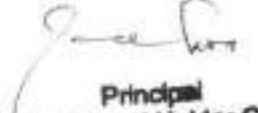
TO WHOM IT MAY CONCERN

This is to certify that Project work on "Definition of vyapti "

for 15 days duration was undertaken and successfully completed by 119 students

under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for the session 2021-22, as per the syllabus of Calcutta University.


Principal
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DHRUBA CHAND HALDER COLLEGE

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Date..... 20

TO WHOM IT MAY CONCERN

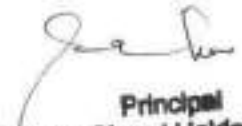
This is to certify that Project work on "Rabindranather Palli Bhabana."

for 15 days duration was undertaken and successfully completed by 1395 students

under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for

the session 2021-22, as per the syllabus of Calcutta University.


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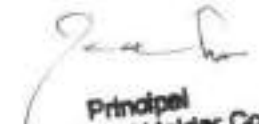
Ref.No.....

Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on 'English Language : Its Use in the Modern World' for 15 days duration was undertaken and successfully completed by 1711 students under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for the session 2021-22, as per the syllabus of Calcutta University.


Principal
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Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on "Comparative Analysis of British and USA Cabinet System." for 15 days duration was undertaken and successfully completed by 91 students under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for the session 2021-22, as per the syllabus of Calcutta University.


Principal
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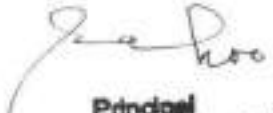
Ref.No.....

Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on 'India - China Relations in 21st Century,' for 15 days duration was undertaken and successfully completed by 86 students under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for the session 2021-22, as per the syllabus of Calcutta University.


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Ref.No.....


Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on *Socio-economic study in Nischindapur Village,*
South 24-parganas

for 15 days duration was undertaken and successfully completed by *54* students
under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for
the session 2021-22, as per the syllabus of Calcutta University.


Principal
Dhruba Chand Halder College
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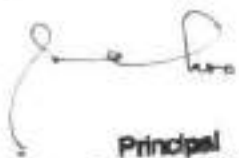
Date..... 20

TO WHOM IT MAY CONCERN

This is to certify that Project work on POND ECOSYSTEM

for 15 days duration was undertaken and successfully completed by 3351 students under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of different academic departments for the session 2021-22, as per the syllabus of Calcutta University.


Principal
Dhruba Chand Halder College
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Phone: (03218) -222550 (Prin.) /223-668 (Off.)

Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that [✓]Shri/Smt JAKIR UDDIN LASKAR

having student ID / Registration Number DCHC/04787/19

completed the Project work on India-China Relations in 21st Century.

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(HONS)

in Semester 3rd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

Date
Pg
Secy



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Phone: (03218) -222550 (Prin.) /223-668 (Off.)

Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that [✓]Shri/Smt **RISHABH DAS**

having student ID / Registration Number **DCHC/01207/20**

completed the Project work on **English Language: Its use in the Modern World.**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.A(Gv)**

in Semester **3rd**, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

PRINCIPAL

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] MONIKA NASRIN MOLLA

having student ID / Registration Number DCHC/02545/19

completed the Project work on Rabindranath Tagore Bhawan

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(6)

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] BIDISHA MONDAL

having student ID / Registration Number 532-1212-0006-19

completed the Project work on Definition of Vyapti

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(H) PHIL

in Semester 5th, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

PRINCIPAL

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Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that [✓]Shri/Smt **ASTIK MONDAL**

having student ID / Registration Number **532-1112-0003-19**

completed the Project work on **Conception of Class Marxist**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.A(HONS), PHIA**

in Semester **3rd**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
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Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] CHINMAY SARDAR

having student ID / Registration Number 532-1112-0008-19

completed the Project work on Independence and Partition of India

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(HONS) History

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

PRINCIPAL

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] ANANYA HALDER

having student ID / Registration Number DCHC/00685/20

completed the Project work on comparative Analysis of British and USA Cabinet System

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A-(HONS)

in Semester 5th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Dhruba Chand Halder College
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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt **UMA PAL**

having student ID / Registration Number **532-1214-0011-19**

completed the Project work on **Indian Women in 20th century**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.A(HONS) History**

in Semester **6th**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
Dhruba Chand Halder College
P.O.-D. Barasat, P.S.-Jaynagar
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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] DEBALINA BANERJEE

having student ID / Registration Number DCHC/04861/19

completed the Project work on Study of local economically important plant (Guava)

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc. Bio (General)

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt PEETASHREE NASKAR

having student ID / Registration Number DCHC/01961/19

completed the Project work on Estimation of Domestic biodegradable and non-biodegradable waste and its effect on landfills.

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc. (Microbiology) HONS.

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt RUDRA ROY

having student ID / Registration Number DCHC/02050/19

completed the Project work on A LOCAL BIODIVERSITY REPORT ON CHINTAMANJ
KAR BIRD SANCTUARY (CKBS), SOUTH 24 PARGANAS

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc. ZOOA

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] MASUMA MOLLA

having student ID / Registration Number DCHC/03573/20

completed the Project work on True Plantation in College Campus.

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc. Bio

in Semester 4th, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

PRINCIPAL

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt PRIYA PAUL

having student ID / Registration Number DCHC/01228/19

completed the Project work on Pariveshadushanam Tat pratikarsa

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A. (HONS), SANA

in Semester 4th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL

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Ref. No.

Date18/12/2021

COMPLETION CERTIFICATE

This is to certify that ~~Shri~~/Smt ANANYA MANDAL

having student ID / Registration Number DCHC/00017/20

completed the Project work on Kalidasa's *Gnantheshu Prakritichetana*

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A. (HONS), *SAN*

in Semester 3rd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ~~Shri~~/Smt SWATI HALDER

having student ID / Registration Number DCHC/02778/20

completed the Project work on Chitranatya Rupayan : Sahitya Theke Chalochitra

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(HONS), BNGRA

in Semester 3rd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
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Phone: (03218) -222550 (Prin.) /223-668 (Off.)

Ref. No.

Date18.12.2021

COMPLETION CERTIFICATE

This is to certify that ~~Shri~~/Smt SANGITA MONDAL

having student ID / Registration Number DCHC/00031/18

completed the Project work on *Pranta Bangla Lokanvitya : Sankat o*
-Sambhabana.

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of BA. (HONS), BNGA

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
Dhruba Chand Halder College
P.O.-D. Barasat, P.S.-Jaynagar
Dist.-24 P.G. (S), Pin-743372



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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt Rohan Roychowdhury

having student ID / Registration Number 532-1111-0853-19

completed the Project work on Banking Sector Reforms and Their Impact-
On Indian Banking System.

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc.(HONS), EcoA

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt SK SOHAIL

having student ID / Registration Number 532-1115-0843-19

completed the Project work on *Effects of COVID-19 on Indian Labour Market.*

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of *B.Sc. (HONS), ECOA*

in Semester 6th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt **BIKRAM MONDAL**

having student ID / Registration Number **532-1112-0888-18**

completed the Project work on **Role of Agriculture in Indian economy**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B. Sc. (HONS) ECOA**

in Semester **6th**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ~~Shri~~/Smt **ANKITA MANDAL**

having student ID / Registration Number **532-1212-3587-21**

completed the Project work on **Pond Ecosystem**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc. General**

in Semester **2nd**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021.

COMPLETION CERTIFICATE

This is to certify that [✓]Shri/Smt **DHANANJAY NASKAR**

having student ID / Registration Number **DCHC/03736/20**

completed the Project work on **Review on CO₂ capture with ionic liquids**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc(H) CEMA**

in Semester **4th**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021

COMPLETION CERTIFICATE

This is to certify that ✓ Shri/Smt **SOUVIK MOYRA**

having student ID / Registration Number **DCHC/02012/19**

completed the Project work on **Reviews on CO₂ capture with ionic liquids**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc(H)CEMA**

in Semester **6th**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021.

COMPLETION CERTIFICATE

This is to certify that Shri/Smt. BAPI MONDAL

having student ID / Registration Number 532 - 1112 - 3815 - 21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A. General

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt **SANJU SARDAR**

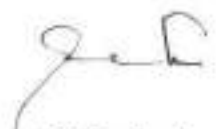
having student ID / Registration Number **532 - 1112 - 0897 - 21.**

completed the Project work on **Pond Ecosystem**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Com. (Hons)**

in Semester **2nd**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021.

COMPLETION CERTIFICATE

This is to certify that [✓]Shri/Smt SRIJANA DAS

having student ID / Registration Number 532 - 1211 - 0001 - 21.

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A. (H), BNGTA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021.

COMPLETION CERTIFICATE

This is to certify that Shri/Smt. JUGAL MONDAL


having student ID / Registration Number 532 - 1112 - 0279 - 21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A (H), PLSA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL

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Ref. No.

Date 18.12.2021

COMPLETION CERTIFICATE

This is to certify that ~~Shri~~ ✓ Smt SWAPNA KAYAL

having student ID / Registration Number 532 - 1212 - 0438 - 21.

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(H), EDCA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Date 18.12.2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt SATADRUSOVAN SARKAR

having student ID / Registration Number 532 - 1111 - 0767 - 19

completed the Project work on *Laser and Fibre Optics*

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of *B.Sc(H), PHSA*

in Semester *5th*, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021 .

COMPLETION CERTIFICATE

This is to certify that ~~Shri~~/Smt DISHA SARDAR

having student ID / Registration Number 532 - 1212 - 0767 - 20

completed the Project work on Arduino

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc(H), PHSA

in Semester 4th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18.12.2021.

COMPLETION CERTIFICATE

This is to certify that ✓ Shri/Smt TUSHAR MONDAL

having student ID / Registration Number 532 - 1112 - 0191 - 21.

completed the Project work on Pond ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(H), HISA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ✓ Shri/Smt **ARGHYA HALDER**

having student ID / Registration Number **532-1112-3690-21**

completed the Project work on **Pond Ecosystem**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Com Gen-
-eral**

in Semester **2nd**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] SUTAPA DAS

having student ID / Registration Number 532-1214-0370-21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A. (H), PHIA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] DEBARATI DAS

having student ID / Registration Number 532-1214-0124-21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A. (H) ENGLA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt ANUSHKA SAHA

having student ID / Registration Number 532-1212-0707-21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.A.(H), GEOA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt ☒ **AMINA MONDAL**


having student ID / Registration Number **DCMC/03492/20**

completed the Project work on **Perfume extraction from lemon grass**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc (General)**
CEMG

in Semester **4th**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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Phone: (03218) -222550 (Prin.) /223-668 (Off.)

Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ✓ Shri/Smt **SANJIB HALDER**

having student ID / Registration Number **DCHC/04738/19**

completed the Project work on **Perfume extraction from lemon grass**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc. (General)**
CENG

in Semester **6th**, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

PRINCIPAL

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ✓ Shri/Smt **INDRAJIT PRAMANIK**

having student ID / Registration Number **532-1114-0766-21**

completed the Project work on **Pond Ecosystem**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc (Hons) MTMA**

in Semester **2nd**, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

PRINCIPAL

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ☒ Shri/Smt **TIRTHABRATA MANDAL**

having student ID / Registration Number **532-112-0799-21**

completed the Project work on **Pond Ecosystem**

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Sc. (Hons), PHSA**

in Semester **2nd**, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] GODHULI MAL

having student ID / Registration Number 532-1212-0814-21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc. (Hons.)
CEMA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.

Signature of Principal

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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that ✓ Shri/Smt SOUMYADIP TARAFDAR

having student ID / Registration Number 532-1112 -0844-21

completed the Project work on Pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc. (Hons.),
BOTA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
Dhruba Chand Halder College
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Dist.-24 Pgs.(3), Pin-743372



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Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that [✓]Shri/Smt SAHINRAJ MONDAL

having student ID / Registration Number 532-1115-0872-21

completed the Project work on pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc.(Horn), MeBA

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
Dhruba Chand Halder College
P.O.-D. Barasat, P.S.-Jaynagar
Dist.-24 Pgs.(S), Pin-743372



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Phone: (03218) -222550 (Prin.) /223-668 (Off.)

Ref. No.

Date 18/12/2021

COMPLETION CERTIFICATE

This is to certify that Shri/Smt [✓] NAYANIKA HALDER

having student ID / Registration Number 532-1212-6833-21

completed the Project work on pond Ecosystem

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of B.Sc.(Hons.), Zoology

in Semester 2nd, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

PRINCIPAL
Dhruva Chand Halder College
P.O.-D. Barasat, P.S.-Jaynagar
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Date 18/12/2021

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This is to certify that ✓ Shri/Smt **SOURAV GHOSH**

having student ID / Registration Number **DCHC/03415/20**

completed the Project work on "**YOGA FOR THE BODY AND MIND**"

for 15 days duration under our guidance and supervision to our complete satisfaction.

This is being submitted as part of the activity of the department/ stream of **B.Com General**

in Semester **3rd**, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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having student ID / Registration Number 532-1212-0611-20

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for 15 days duration under our guidance and supervision to our complete satisfaction.

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in Semester 3rd, Session 2021-22, as per syllabus of Calcutta University.


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in Semester *5th*, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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This is being submitted as part of the activity of the department/ stream of B.Sc (Horn), GE0A

in Semester 4th, Session 2021-22, as per syllabus of Calcutta University.


Signature of Principal

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**Socio Economic
Study in
Nishchindapur
village, South 24
Parganas**

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UNIVERSITY OF CALCUTTA



DHRUBA CHAND HALDER COLLEGE

B.SC - GEOGRAPHY HONOURS

NAME - RAJASHREE SANPUI

COLLEGE ROLL NO :- 53

6TH SEMISTER (UNDER C.B.C.S.)

SUBJECT :- CC-14

UNIVERSITY ROLL NO :- 193532-11-0014

REGISTRATION NO :- 532-1212-0655-19

SESSION - 2021-2022

Examined
2021-2022
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Date: 01.01.2022

This is to certify that Shri/Smt. Rajashree Sanjiv

bearing registration no. 832-1212-0659 of 2022

Roll No. 193832-11-0014 of 2022

Completed the field work on Waste Management

And made a report entitled Socio-Economic study in Nischindapur village
South 24 Parganas.

Under our guidance and supervision to our complete satisfaction.

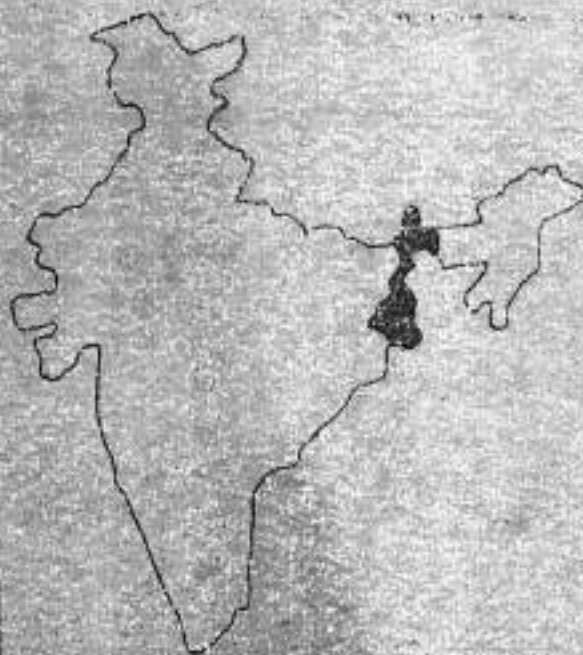
This is being submitted as part fulfillment of HONS. in Geography

part B.E.M. syllabus under Calcutta University.

Signature
21.01.22

Signature
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INDIA



WEST BENGAL



SOUTH 24 PARGANAS



NISCHINTA PUR



[Signature]
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■ OBJECTIVE OF THE STUDY:

The present study has been undertaken with the specific objectives which are following.

- To examine the vulnerable embankment of the southern part of South 24 parganas district.
- To assess climate influence on vulnerable embankment.
- Risk and vulnerable analysis of the southern part of South 24 parganas.
- To suggest alternative strategies of reduce the extent of breaching and its impact.

■ DATABASE AND METHODOLOGY:

This study is based on secondary data. Map and census data collected from internet. District disaster management plan 2015 collected from the internet. The successive stages of methodologies are simple but scientific.

■ IMPORTANCE OF EMBANKMENT:

Human settlement in the Sunderbans has been possible only because embankment. Importance of embankment in the life of local people of the Sunderbans island is so great that the embankment may be considered as saviour, the 'life line' to them. Survival of human society in this area is entirely depend upon embankment and southern part

is not an exception. Most of the people in the study area are economically weak and are engaged in primary activities determined by natural environment like agricultural and fishing. It protects the agricultural land, source of sweet drinking water and fisheries from the ingression of saline water.

■ TYPES OF EMBANKMENT:

In the study area four main types embankment can be seen along the different river side. These are. —

- a. Earthen embankment
- b. Earthen embankment with bamboo fence.
- c. Earthen embankment with bamboo fence and sand fill sag along the embankment.
- d. Boulder pitching or concrete pitching embankment.

gub
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Fig: Earthen Embankment with sand

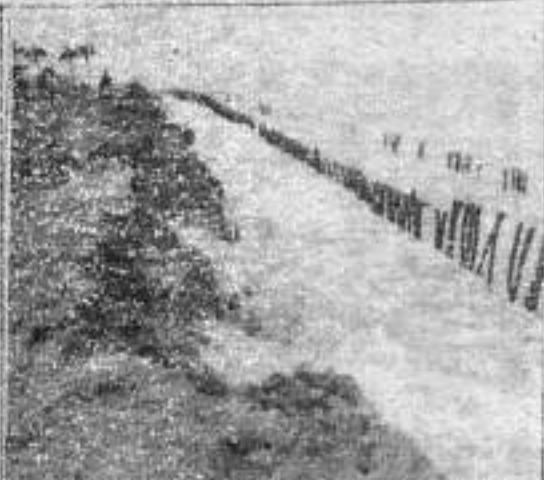


Fig: Earthen Embankment with house line



Fig: Boulders embankment



Fig: Earthen Embankment



Fig: Boulders pitching Embankment

■ FACTOR OF EMBANKMENT BREACHING:

Cyclone, storm surges and tidal action are the three natural factors instrumental to embankment breaching. Anthropogenic interference significantly enhances natural processes in the deltaic plain. The premature reclamation of the Sunderbans through deforestation and faulty construction of embankment exert reverse effects upon the natural system. Embankments are the man-made artificial walls that separate the physical and cultural disrupted the morphological and hydraulic equilibrium. Construction of embankment has disturbed the dynamics of sedimentation restricting the spill-over of silt water on flood plains and has increased the rate of sedimentation in the river bed. Thus the depth the carrying capacity of the rivers experience gradual reduction. As a result, while river beds were elevated the flood plain remained at the same height. Now water levels in many embankment creeks remain at least two meters above the adjoining flood plain during high tide. The tidal inflow was transformed into a tidal bore which had the power to

to breach the embankments. The settled lands remain below the level of the river beds and get flooded frequently whenever embankments is a breached. The Sundarbans delta experiences two flood tides and two ebb tides in south 24 parganas in 24 hours. The range of tides varies from three to five meters and may rise up to a height of eight meters during normal spring tides. The flood tide takes less time to enter the river while the low tide take much time to leave. This increases deposition of sediments as in most cases, another high tide encroaches prior to the complete retreat of the first low.

The earthen embankment are geographically weak as they are made with local silt or mud which are unable to resist tidal surges for a long time but are proved eco-friendly. The embankments can not resist the tidal surges in the long run as they are made up of un-cohesive silt. The earthen embankments are almost 100 years old and are being weakened everyday by these unwilling currents (Hazra, 2010). Igne is another force for embankment breaching geographically. The area is embankment were tremendously damaged by the hit of cyclone of 1988, 1989, 1995 and 2009 that severely damaged and breached conversion of mangrove forest land and paddy fields.

Table-1 FACTORS AND ELEMENTS OF BREACHING OF EMBANKMENT:

Factors	Elements
Nature of current	<ul style="list-style-type: none"> • Nature and extent of discharge. • Velocity and shear stress. • Presence of eddy currents.
Embankment material	<ul style="list-style-type: none"> • Texture and cohesiveness of material
Climate	<ul style="list-style-type: none"> • Nature of Rainfall • Duration of Rainfall • Dry and wet cycle
Geology	<ul style="list-style-type: none"> • Permeability • Nature of soil moisture • Presence of capillary water
Geometry of the channel	<ul style="list-style-type: none"> • Shape, breadth and depth of the channel • Height of the bank • Sinuosity of the meanders
Biotic factors	<ul style="list-style-type: none"> • Nature and density of natural vegetation • Biological activities
Anthropogenic Factors	<ul style="list-style-type: none"> • Settlement, urbanisation, transport and artificial drainage system • Change in land use • Artificial device for protecting channel • Improper implementation and negligence in work

Table-2 IMPACT OF BREACHING ELEMENTS:

Direct Impact	Indirect Impact
<ul style="list-style-type: none"> • Shifting of bank lines • Loss of Fisheries • Loss of Agriculture • Loss of Orchard • Loss of human lives • Loss of Domestic animals 	<ul style="list-style-type: none"> • Changes in eco-system • Changing in occupation • Depopulation • Threat of survival • Vulnerability to girl • Increase in area of land erosion

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■ SUGGESTIVE MEASURE TO REDUCE PROBLEMS:

As the constitution of human society in Sundarbans is associated with existence of the embankments, managements of the embankment are very much crucial. But it is true that there is no permanent solution to protect the island from severe erosion. There are some possible way to reduce the impact of embankment breaching.

- a. Identification, mapping and classification of vulnerable areas as well as embankments of the island should be done primarily by using modern techniques, equipments and empirical survey before formulation of any plan.
- b. The vulnerable embankments must monitored and repaired at regular interval. It should be protected by rock pitching or block pitching.
- c. The creeks should not be obstructed by any construction and land use rather they should be excavated to allow waters spill area to reduce hydrostatic pressure on embankment.
- d. Settlement and agriculture activities should be avoided in the frequently flooded areas to reduce to loss of resources. Settlement must be removed from the embankment sites.

CONCLUSION:

Breaching of embankment has damaged the livelihood support system of the local community of the southern part of the West Bengal. Through damaging of agriculture, fisheries, orchards along with inundating roads and settlement. It can be concluded that the marginal groups of the area under review live in a measurable condition area more threatened by the physical hazards. The embankment have become insuperable and ironic to this area. Thus sustainability of life economy and cultural of the area has now been conditioned by the embankment. The security of the cultural economy system and the people in them guaranteed only when the sustenance of the embankment is secured. proper coastal zone management combined with local peoples, awareness and participation can protect the public and private organization. should be participants to sustain the embankment in order to sustain themselves.

12.08.22

Examined by
Rajmangla
12/8/22

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