



List of completed project work of 4 Year Major in English students Course: Vac 01 (Environmental Studies)

SI. No	Name	Registration No	Registratio n Year	Sem	Title of the Project
1	ARATI SAREN	VU231230021	2023-24	1st	STUDY AND DOCUMENTATION OF POLLUTION IN LALGARH, WEST BENGAL
2	ARPAN NAYEK	VU231230024	2023-24	1st	STUDY AND DOCUMENTATION OF ENVIRONMENTAL IMPACTS OF POLLUTION
3	BAPI MANDAL	VU231230036	2023-24	1st	POLLUTION
4	KAMALA KHAN	VU231230113	2023-24	1st	STUDY AND DOCUMENTATION OF POLLUTION IN LALGARH, WEST BENGAL
5	MAHAMMAD RAKIB	VU231230134	2023-24	1st	STUDY AND DOCUMENTATION IMPACT OF POLLUTION IN JHARGRAM WEST BENGAL
6	MEGHNA DEY	VU231230152	2023-24	1st	POLLUTION
7	SONALI KHAN	VU231230300	2023-24	1st	STUDY AND DOCUMENTATION OF POLLUTION IN LALGARH, WEST BENGAL
8	SUBRATA DULEY	VU231230314	2023-24	1st	STUDY AND DOCUMENTATION OF POLLUTION IN LALGARH, WEST BENGAL

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Value Added Course (VAC)

Value Added Course (VAC)- 01

VAC-01: ENVS- Environmental Studies

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Course contents:

Unit-I: Introduction to environmental studies

- Multidisciplinary nature of environmental studies; •
- Scope and importance; Concept of sustainability and sustainable development.

Unit-II: Ecosystems

• What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem; b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit-III: Natural Resources: Renewable and Non-renewable Resources (8 lectures)

- Land resources and land use change; Land degradation, soil erosion and desertification;
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Joint forest management.
- Water: Use and over--exploitation of surface and ground water, floods, droughts, conflicts over water (international & interstate).
- Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Unit-IV: Biodiversity and Conservation

- Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega---biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, • biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

Unit-V: Environmental Pollution

- Environmental pollution: types, causes, effects and controls; Air, water, soil and • noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies.
- Noise pollution.

(6 lectures)

(8 lectures)

(8 lectures)

Credits 04 (Full Marks-100)



(2 lectures)

Unit-VI: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.
- Environmental policy and gender issues •

Unit-VII: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi)

Unit-VIII: Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems--pond, river, Delhi Ridge, etc.
- Disaster management.
- Coastal ecosystem

Suggested Readings:

- Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt. i.
- Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of ii. California Press.
- Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge. iii.
- Gleick, P. H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. iv. Stockholm Env. Institute, Oxford Univ. Press.
- Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. Principles of Conservation Biology. v. Sunderland: Sinauer Associates, 2006.
- Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339: vi. 36--37.
- McCully, P. 1996. Rivers no more: the environmental effects of dams (pp. 29---64). Zed Books.
- McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the vii. viii. Twentieth Century.
- Odum, E.P., Odum, H.T. & Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
- Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic ix. х.
- Rao, M.N. & Datta, A.K. 1987. Waste Water Treatment. Oxford and IBH Publishing Co.Pvt. Ltd.
- Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. Environment. 8th edition. John Wiley& Sons. xi. xii.

(Equal to 5 lectures)



(6 lectures)

UG 1st Semester (CCFUP-NEP) Examination 2023 Subject- English Paper- VAC 01 (Environmental Studies Project)

SIST



Oral and Evaluations of Project Report

Date: 25.04.2024

ATTENDANCE RECORD

	REGISTRATION			
ROLL NO	NO	REG. YEAR	NAME	SIGNATURE OF THE CANDIDATE
4131123-2318947	VU231230021	2023-2024	ARATI SAREN	Arati Saren
4131123-2318948	VU231230024	2023-2024	ARPAN NAYEK	Hispan Norger,
4131123-2318950	VU231230036	2023-2024	BAPI MANDAL	Bop: Mond of
4131123-2318953	VU231230113	2023-2024	KAMALA KHAN	Kamada Khan
			MAHAMMAD	Klahommad Pouile
4131123-2318954	VU231230134	2023-2024	RAKIB	Klahommaa (Prose
4131123-2318955	VU231230152	2023-2024	MEGHNA DEY	Meghna Dey
4131123-2318957	VU231230178	2023-2024	PIU GHORAI	0
4131123-2318962	VU231230300	2023-2024	SONALI KHAN	Sonale khan
			SUBRATA	Subrath Duley
4131123-2318963	VU231230314	2023-2024	DULEY	HOTARY Stary

STUDY AND DOCUMENTATION

OF POLLUTION IN LALGIARH, W.B (A project report on environmental studies Based on field visit for the Portial fulfillment of the 1st sem B.A (Hons) Degree In Humanities)

Report submitted to: Lalgarh Govt. college, Thangsam, W.B. Affilited to: VIDYASAGIAR UNIVERSITY, MIDNAPUR, W.B. 721102

Report submitted by:

Roll= 4131123 NO. = 2318947

Registration No.: VU231230021 of year: 2023-2024 (Affilited to vidyasagar university, Midnapur, W.B)

Supervised by: Prof. Bisweswar chakraborty officer-in-charge

Lalgarh Govt. College. Lalgarh, Jhargram, W.B 721516 Year: 2024

Declaration of the candidate

I, Anati Saren, 1st year, First store, B.A (Hons) student of Lalgarh Government college, Lalgarh, Thargsram, West Bengal have done my allotted project work on Environme--ntal studies. The title of the project was "study and Documentation of pollution in Lalgari as stipulated by our mentor teachers under the graduation syllabus of B.A (Hons) course affiliated to Vidyasagar university, Midnapur, West Bengal, India. It has been placed for the evaluation and for the partial fullfilment of under Graduate (UGI) degree, in Arits in the Year 2023 from Government General Degree college, Lalgarh, Thargman for 1st semester Examination.

Arati Saren

university Roll=4131123 NO=2318947 Registration NO.= VU231230021 of year: 2023-2024 Lalgarch, Jhargstam, W.B. 721516

To Whom It May Concern This is to certify that Miss Arati Soren, a 1st sem B.A (Hons) students of UG CBCS/GGDC Lalgarh, Thargman, W.B. has done that alloted Project Work on Environmental studies (ENVS) entitled project, "the pollution in Lalgarch," as per the guideline of vidyasagar university under the title pollution in Lalgarh for the fulfilment of 1st sem B.A degree from vidyasaga University in the year 2024 with full satisfaction. The project work supervised by prof. Bisweswar chakraborty, principal of GGIDC Lalgarh, Thargon W.B. she also completed study on the major topic in the field and at home to prepare the project report complete in all aspects. Signature of Supervisons: Riswuwws chaltaborty 13/04/4

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STUDY AND DOCUMENTATION

OF

Control of WEST BENGAL Control of THE PROVIDENT OF CONTROL OF THE PROVIDENT OF CONTROL OF

ENVIRONMENTAL IMPACTS OF POLLUTION (A PROJECT REPORT ON ENVIRONMENTAL STUDIES BASED ON FIELD VISIT FOR THE PARTIAL FULFILLMENT OF THE FLROND END SEMESTER B.A (HONDURS)

DEGREE IN ENGLISH)

REPORT SUBMITTED TO:

Lalgarih Govt. College, Jhorigton W.B. Affiliated to: VIDYASAGAR UNIVERSITY MIDNAPORE, W.B. 721102

REPORT SUBMITTEB BY: Roll-4131123 No.-2318948 Reg. No.- VU231230024 of 2023-2024

(Affiliated to Victyasagan University, Midnapone, W.B.)

SUPERVISED BY:

Biswesworm chorknowborky. W.B.E.S. OFFICER-IN-CHARGE

Lalgornh Grovt. College, Lalgerth, Thangnonn, NB. 721516

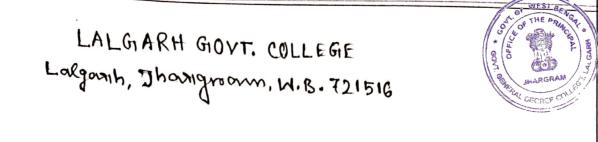
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DECLARATION OF THE CANDIDATE

I Aupon Noryak, 1st years, Firist Semestern, 13A. (Hnouris) Student of Lalgeonth Giveniment College, Lalgeonth, Theory room, West Bengel have done my allotted Project work on Environmental studies. The title of the Project work, was Environmental imports of follution." as stipulated by our mentanteactions under the graduation Syllabus of B.A. (Hons) Course affiliated to vial yasagan University, Midnapone, West Bengal, India, It has been flowed for the evaluation and for the Possicial fulfilment of under graduate (UG) deegroee. In Arits (S English) in the yash 2024 from Given mental begave callege, lalgerth, Thorago and for 1st B. Semestern Examination

Anopom Norger. University Roll-4131123 No.-2318948 Registriation No- VU23123024 of 2023-2024

Date - 24/04/2024



To whom it May Concern This is to coarlify that Mus. Komm Ampoon Noryex, a 1st Semester B.A. (HONS) Students of UG C.BC.S/GGDC Lalgarth, Thomason W.B. hors done the allotted Project Work on Environmental Studies (ENVS) Entitled Project "Environmental impacts of Pollution" (ENVS) Entitled Project "Environmental impacts of Pollution" fille Found at local en-stsitu site for the fulfilment of 2024 with full of Satisfaction. He has completed 5 hown field visit for data collection and Photogrouph in-Bisweswoon Charmobarty, N.B. E.S. OFFICER-IN-CHARGET Study on the mojor tropic in the field/college and at how to prepare the Project report complete in all aspects.

Signature of Superivisor 24/04/29

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VIDYASAGAR UNIVERSITY

SUBJECT : ENVS

SEM- 1ST

SUBMITTED BY

NAME :- BAPI MANDAL

ROLL :-4131123 NO:- 2318950

REG NO :VU231230036 OF 2023-2024

SESSION : (2023-2024)

Declaration of the Candidate



I, Bapi Mandal, 1st year, 1st Semester, B.A. Honours student of Lalga Government College, Lalgarh, Jhargram, West Bengal have done my allowed project work on Environmental Studies. The title of the Project was "POLLUTION" as stipulated by our mentor teachers under the graduation syllabus of B.A/ B.Sc/-B.Com, (Hons/General) course affiliated to Vidyasagar University, Midinipur, West Bengal, India. It has been placed for the evaluation and for the partial fulfillment of Under Graduate (UG) degree, in Arts (Honours) in the year 2024 from Government General Degree College, Lalgarh, Jhargram for 1st Semester Examination.

Bap; Mondal (Signature of the Candidate)

University Roll :- 4131123 No:- 2318950 RegistrationNo.:VU231230036 of Year :2023-2024

Place: Date:24.04.24

Lalgarh Govt. College Lalgarh, Jhargram, W.B. 721516



To Whom It May Concern

This is to Certify that Smt./Sri./Miss/Mr./Mrs. Bapi Mandal (Name), a 1st Semester B.A. (Honours) students of UG CBCS/GGDC Lalgarh, Jhargram, W.B. has done the allotted Project work on Environmental Studies (ENVS) entitled project, "pollution" as per the guideline of Vidyasagar University.

The Project was supervised by Bisweswar Chakraborty, Officer-in-charge, Bapi Mandal completeda 5 hours field visit for data collection and photography on 05/01/2024. The project work completed with full satisfaction and cover all aspects.

We wish her his success in life.

e of Supervisors:

Govt. General Degree College Lalgarh, Jhargram,



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TUDI AND DOCUMENTATION



POLLUTION IN LALGERH

(A PROJECT REPORT ON ENVIRONMENTAL STUDIES)

LALGARH Govt. GENERAL DEGREE COLLEGE, JHARGRAM, W.B. AFFILIATED TO: VIDYASAGAR UNIVERSITY, MIDNAPORE, W.B. 721102

REPORT SUPPORT BY: KAMALA KHAN ROLL: 4131123 NO.:2318953 REGISTRATION NO.: VU231230113 OF YEAR/SESSION: 2023-2024

(Affiliated to VIDYASAGAR UNIVERSITY, MIDNAPORE, W.B)

<u>SUPERVISED BY</u>: Bisweswar Chakraborty (OffiCen - in - Charge)

LALGARH GOVT. GENERAL DEGREE COLLEGE, LALGARH, JHARGRAM, W.B. 721516

CANDIDATE'S DECLARATION



PROJECT TITLE: Pollutions of Environment.

I, Kamala Khan my Registration Number is -VU231230113, B.A. (General) student of Lalgarh Govt. College, Lalgarh, Jhargram, West Bengal have done my allotted project work on *Environmental Studies*. "Study and Documentation of Pollution in Lalgarh" as stipulated by our mentor teachers under the graduation syllabus of B.A (General) course Affiliated to Vidyasagar University, Midnapore, West Bengal, India.

<u>University Roll</u> : 4131123 <u>NO.</u>: 2318953

Registration Number -VU231230113

Date: 24/04/24

Signature: Kamada Khan

Place: Ramgarh

TO WHOM IT MAY CONCERN



This is to certify that Miss. Kamala Khan, a 1st semester B.A.(Honours) students of UG CBCS/GGDC Lalgarh, Jhargram, W.B. has done the allotted project work on **environmental studies** (ENVS) entitled project, "<u>study and</u> <u>documentation of pollution in lalgarh"</u> as per the guideline of Vidyasager University.

Ri GWUW Or Chakraborn Signature of supervisors 23/04/19

Lalgarh Govt. General Degree College, Lalgarh, Jhargram, W.B.

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Study And Documentation of Impact of Pollutions in Jhargram, WB

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(A PROJECT REPORT ON ENVIRONMENTAL STUDIES BASED ON FIELD VISIT FOR THE PARTIAL FULFILLMENT ON THE FIRST END SEMESTER B.A [HONOURS] DEGREE IN ENGLISH)

REPORT SUBMITTED TO: Government General Degree College, Thangrom WB Affiliated to: VIDYASAGAR UNIVERSITY MIDNAPORE, W. B. 721102

REPORT SUBMITTED BY: Roll-4131123 NO-2318954-Reg. No:-VU231230134 of Yean 2023-2024 (Affiliated to Vidyasagar University, Midnapone, W.B.)

> SUPERVISED BY: BISWESWAR CHAKRABORTY, OFFICER-IN-CHARGE

DECLARATION OF THE CANDIDATE

I, Mahammad Rokib, 1st yean, finst somoster, B.A. (Honours) Student of Lalgarh Governerhument General Degree College, Thargroom, West Bougal have done my alloted Project work on Environmental Studies, The title of the project was "Impact of follution in our Surrounding Regions" as Stapled by our montors tachens under the groduction Syllabus of B.A. (Honours) course affiliated to Vidyasagar University, Midnapore, West Bougal, India. It has been placed for the evaluation and for the Partial fulfillment of Under Graduate (UG) degree, in Ants (English) in the year 2023 from Government General Degree College, Lalgarh, Thangram for 1st End Somoster Examination.

Mahammad (Plakib (Signature of the Candidate) University Roll: 4131123 NO. 2318954 Registration No.: VU231230134 of Year: 2023-2024 Date: - 24/04/24

Government General Degree

Lalgarh, Jhargram, W.B.721516

TO WHOM IT MAY CONCERN

This is to centify that Mahammad Rakib, a 1st Semester B.A. (Honours) student of UG CBCS/GGDC Lalgarh, Thangnam, W.B., has completed the alloted project Work on Environmontal Studios (ENVS) titled "Impact of Pollution in our surrounding regions" as por Vidyasagar University's quidelines. The project was supervised by BISWESWAR CHAKRABORTY, OFFICER-IN-CHARGE. Mahammad Rakib completed a 5-hours field visit for data collection and photography on 15/02/24. The project report was completed with full satisfaction and covers all aspects. We wish him success in life. Signatumo of Supervisors:-BISWESWAR CHAKRABORTY (PSiGuldHAR Chakrabing 24/041 23/04/19 Govt. General Degree College, Lalgarh, Thargram, WB

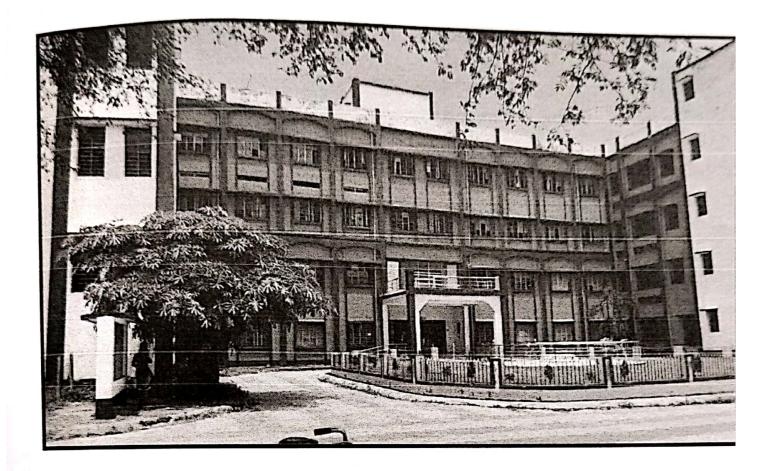


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Government General Degree College, Lalgarh



Name: Meghna Dey Subject: ENVS Sem: 1st Roll: 4131123. No: 2318955



Declaration of the Candidate

I, Meghna Dey, 1st year, 1st Semester, B.A. Honours student of Lalgarh Government College, Lalgarh, Jhargram, West Bengal have done my allotted project work on Environmental Studies. The title of the Project was "POLLUTION" as stipulated by our mentor teachers under the graduation syllabus of B.A/ B.Se/ B.Com. (Hons/General) course affiliated to Vidyasagar University, Midnapore, West Bengal, India. It has been placed for the evaluation and for the partial fulfilment of Under Graduate (UG) degree, in Arts (Honours) in the year 2024 from Government General Degree College, Lalgarh, Jhargram for 1st Semester Examination.

Meghra Dey (Signature of the Candidate) University Roll: 4131123 No.: 2318955 Registration No.: VU231230152 of Year:2023-2024

Place: Date: 24.04.24



Lalgarh Govt. College Lalgarh, Jhargram, W.B. 721516

To Whom It May Concern

This is to Certify that Smt./Sri./Miss/Mr./Mrs.. Meghna Dey (Name), a 1st Semester B.A. (Honours) students of UG CBCS/GGDC Lalgarh, Jhargram, W.B. has done the allotted Project work on Environmental Studies (ENVS) entitled project, "pollution" as per the guideline of Vidyasagar University.

The Project was supervised by Bisweswar Chakraborty, Officer-in-charge, Meghna Dey completeda 5 hours field visit for data collection and photography on 05/01/2024. The project work completed with full satisfaction and cover all aspects.

We wish her/his success in life.

Signature of Supervisors: Bi Swimmer charter 201904/14

Govt. General Degree College Lalgarh, Jhargram,



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STUDT AND DOCUMENTATION

OF

POLLUTION IN LALGARH



(A PROJECT REPORT ON ENVIRONMENTAL STUDIES)

REPORT SUBMITTED TO:

LALGARH Govt. GENERAL DEGREE COLLEGE, JHARGRAM, W.B. <u>AFFILIATED TO:</u> VIDYASAGAR UNIVERSITY, MIDNAPORE, W.B. 721102

REPORT SUBMITTED BY: SONALI KHAN ROLL: 4131123 NO.:2318962 REGISTRATION NO.: VU231230300 OF YEAR/SESSION: 2023-2024

(Affiliated to VIDYASAGAR UNIVERSITY, MIDNAPORE, W.B)

SUPERVISED BY: Bisweswar Chakraborty

LALGARH GOVT. GENERAL DEGREE COLLEGE, LALGARH, JHARGRAM, W.B. 721516

1

CANDIDATE'S DECLARATION

PROJECT TITLE: Pollutions of Environment.



I, Sonali Khan my Registration Number is -VU231230300, B.A. (Honours) student of Lalgarh Govt. College, Lalgarh, Jhargram, West Bengal have done my allotted project work on Environmental Studies. "Study and Documentation of Pollution in Lalgarh" as stipulated by our mentor teachers under the graduation syllabus of B.A (Honours) course Affiliated to Vidyasagar University, Midnapore, West Bengal, India.

Signature: Sonali than

University Roll: 4131123 NO.: 2318962

Registration Number - VU231230300

Date:

Place:

TO WHOM IT MAY CONCERN



This is to certify that Miss Sonali Khan 1^{*} Semester B.A (Honours) students of UG CBCS / GGDC Lalgarh , Jhargram , W.B as done the allotted project work on Environmental studies (ENVS) entitled project, "study and documentations of pollution in Lalgarh " as per guideline of Vidyasagar University.

Signature of supervisors

DVERNMENT GENERAL DEGREE COLLEGE , LALGARH , JHARGRAM , W.B

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AGKNOWLEDGMENT



I would like to thank to thank my teacher's whose valuable guidance, suggestion and instructions has served as the major contribution towards the completion of the project. Then I would like to thank my parents and friends who have helped me with their valuable suggestions and guidance has been helpful in various phases of the completion of the project.

Sonali khan

Signature of candidates

Date:

Place:



STUDT AND DOCUMENTATION OF POLLUTION IN LALGARH

(A PROJECT REPORT ON ENVIRONMENTAL STUDIES)

REPORT SUBMITTED TO:

LALGARH Govt. GENERAL DEGREE COLLEGE, JHARGRAM, W.B. <u>AFFILIATED TO:</u> VIDYASAGAR UNIVERSITY, MIDNAPORE, W.B. 721102

REPORT SUBMITTED BY: SUBRATA DULEY ROLL: 4131123 NO.:2318963 REGISTRATION NO.: VU231230314 OF YEAR/SESSION: 2023-2024

(Affiliated to VIDYASAGAR UNIVERSITY, MIDNAPORE, W.B)

SUPERVISED BY: Bisweswar Chakraborty

LALGARH GOVT. GENERAL DEGREE COLLEGE, LALGARH, JHARGRAM, W.B. 721516

1

CANDIDATE'S DECLARATION

PROJECT TITLE: Pollutions of Environment.



I, Subrata Duley my Registration Number is -VU231230314, B.A. (Honours) student of Lalgarh Govt. College, Lalgarh, Jhargram, West Bengal have done my allotted project work on Environmental Studies. "Study and Documentation of Pollution in Lalgarh" as stipulated by our mentor teachers under the graduation syllabus of B.A (Honours) course Affiliated to Vidyasagar University, Midnapore, West Bengal, India.

Signature: Subrata Duley

University Roll : 4131123 NO.: 2318963

Registration Number - VU231230314

Date: 25.04.2024

Place:

TO WHOM IT MAY CONCERN



This is to certify that Mr. Subrata Duley 1" Semester B.A (Honours) students of UG CBCS / GGDC Lalgarh , Jhargram , W.B as done the allotted project work on Environmental studies (ENVS) entitled project, "study and documentations of pollution in Lalgarh " as per guideline of Vidyasagar University.

Signature of supervisors

OVERNMENT GENERAL DEGREE COLLEGE , LALGARH , JHARGRAM ,W.B