Criterion VII

Institutional Values and Social Responsibilities

7.1.6: Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. ***Green Audit***
2. ***Environment Audit***
3. ***Beyond the Campus Environment Promotional Activities.***

Policy Document on Environmental Awareness and Energy Usage

RAMANANDA COLLEGE

BISHNUPUR ◈ BANKURA
Pin - 722122, West Bengal
Estd. : 1945

Tel : (03244) 252059
Tele Fax : (03244) 254427
e-mail : principalramananda@gmail.com
Website : www.ramanandacollege.org

UGC Recognized & State Government Aided Constituent College
Under the Bankura University (dt.-01.01.2017)
(Re-Accredited by NAAC 2nd Cycle at B Level)

Ref. No. ..... Date .....

From : Principal
Secretary, G.B.

REPORT/ POLICY DOCUMENT ON ENVIRONMENTAL AWARENESS AND ENERGY USAGE

Report / Policy document on environmental awareness and energy usage

- ***Green Audit***

  Environmental Audit Report (05.04.2019) of our college has been prepared by ***Tropical Institute of Earth and Environmental Research*** **(TIEER)** based on visit to the college campus, checking records and interactions with faculty, non-teaching staff and students. No intrusive study was conducted during the audit. The audit report presents greens initiatives taken up the institution and provides suggestions and recommendations to improve environmental sustainability

- ***Green College Campus***

  Our college management is inclined more towards protecting the natural resources. On this context, they have taken initiative in tree plantation and gardening in our campus. These asserts the passion towards greenery and also we have a regular practice to grow flowering plants and medicinal plants.

- ***Seminar on Environmental Awareness***

  College organized seminar on ***Environmental Awareness*** to make students learn gardening and grow plants for utilitarian and aesthetic reasons and also to improve awareness among students about the uses of medicinal plants by planting them in the college campus and making the students care for them. This seminar was organized on 20th December 2018 by the NSS unit of the college.

- ***Seminar on Bio-diversity and its Conservation***

  The biosphere constitutes a vital life support system for man. Its existence in a health and functional state is essential for the existence of human race. It is the complex collection of innumerable organism-the biodiversity which makes our lives both pleasant and possible. Complex beyond understanding and valuable beyond measure biological diversity is the total variety of our life on our planet. That's why our Biodiversity Management Committee organized a one-day national seminar

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) BISHNUPUR

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REPORT/POLICY DOCUMENT ON ENVIRONMENTAL AWARENESS AND ENERGY USAGE

"**Biodiversity and its Conservation**" on 2nd March 2020 in association with the West Bengal Biodiversity Board of the Government of West Bengal.

- The College has been selected by West Bengal Biodiversity Board to undertake projects on the sustainability of the world's natural resources, conservation of biodiversity in and around Bishnupur Municipality.

- ***Namami Gange Project***

  A Massive Plantation Programme was organized by Panchet Division, Bishnupur, Bankura Directorate of Forests, Govt. of West Bengal under the scheme Namami Gange (Avenue Plantation) on 18.07.2018.

- ***Awareness Programme on Social Outreach***

Our college organizes various outreach programme beyond campus aiming to create awareness about literacy, health issues, gender issues, adult education and environment. The members of the Alumni Association delivered their valuable speeches in the awareness campaign with great enthusiasm. We also organized an awareness programme in our Ramnalini Chakrabarty Hall to encourage the NSS volunteers in extension activities and social services. They tried to make the villagers understand the importance of this outreach programme. The villagers were benefitted a lot by this campaign. During beyond campus extension programme environment awareness programmes were undertaken by NSS units in Chowgan Gram Panchayet (2016), Dwarika Gram (2017), Nichupara, Bishnupur Municipality (2018), Panshuli and Mansa Gram (2019) and Abantika Gram (2020). The college has adopted Abantika village under Dwarika-Gossainpur Gram Panchayet for various social activities including awareness on environment.

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) BISHNUPUR

P1/5.1

RAMANANDA COLLEGE

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Ref. No. ..... Date .....

From : Principal
Secretary, G.B.

REPORT/ POLICY DOCUMENT ON ENVIRONMENTAL AWARENESS AND ENERGY USAGE

- The college authorities will prepare a comprehensive plan to conduct Green /Environment Audit and implement their suggestion/recommendations.

- ***Solar Lamps***

  Solar lamps have already been installed in our college with the contribution of one eminent Alumnus. There are high mast solar lamps in the college campus as alternate sources of energy.

- ***Solar PV Power Plants***

  There is a new initiative to install Rooftop Grid Connected Solar PV Power Plants by the West Bengal Pollution Control Board as the college was selected for this purpose in the entire area. This Rooftop Grid Connected Solar PV Power Plants has alredy been installed in our college.

- ***LED lights***

  LED lights are used in most of the places in our college (e.g., class room, office, Laboratory, Campus) as a measure of power efficient equipment.

  - It is now one important objective of the college to use alternative sources energy by solar lamps and Solar PV Power Plants. In future the college can earn revenue from the Electric Supply department of the Government by this initiative. Gradually all other bulbs will be replaced by LED lamps which are already in use in class rooms, library, office, canteens, laboratories, etc. as energy saving equipments.

22/12/2020
Principal
Ramananda College,
Bishnupur, Bankura

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) BISHNUPUR

IQAC Resolution on Environmental Audit

Resolution of IQAC meeting on 26.06.18

The meeting is presided over by the Chairperson and Principal, Ramananda College ,Dr Swapna Ghorai.

Resolutions:

1.The following Plan of action for the next academic year has been chalked out by IQAC(Criteria VII)

- Installation of solar panels
- Construction of concrete gallery beside the play ground
- Provide furniture for computer centre and smart classrooms
- Construction of ramp for physically challenged students
- Renovation of toilets and canteen
- Introduction of e-filing, e-database in Office, Library and Departments
- Mentoring of students by Faculty members
- To introduce more add on/job oriented courses
- To conduct environmental audit
- To construct class rooms for nutrition, computer science
- Renovation of academic and administrative buildings
- To Purchase Sports equipments
- To submit proposals for more research projects
- To organize more seminars
- To access more E-books and e-journals
- To encourage faculty and students for research works
- Compulsory IT classes
- Facilities to students' common rooms
- Coaching classes for jobs
- Counselling the students
- Frequent meeting with the parents (Parent-Teacher Association)
- Introduction of more PG and Add-on Courses.

It will be submitted to the Governing Body for approval.

2. The Annual Quality Assurance Report for 2017-2018 (1st May,2017 to 30th April 2018)has been prepared and as per guideline of NAAC it will be submitted to the apex statutory body of the college, Governing Body. After obtaining necessary approval from the Governing Body, it will be submitted to NAAC.

The meeting ends with Vote or Thanks to the Chair.

RAMANANDA COLLEGE ESTD. - 1945 (BANKURA)

22/6/18

Principal and Chairperson

Principal
Ramananda College
Bishnupur, Bankura

IQAC resolution on environmental audit

Green Audit

Report on the *Green Audit*

Environmental Audit Report 2019

RAMANANDA COLLEGE, BISHNUPUR BANKURA, W.B.



PREPARED BY

TROPICAL INSTITUTE OF EARTH AND ENVIRONMENTAL RESEARCH (TIEER), MIDNAPUR, W.B.

Environmental Audit Report of Ramananda College, Bishnupur, Bankura has been prepared by Tropical Institute of Earth and Environmental Research (TIEER) based on visit to the college campus, checking records and interactions with faculty, non-teaching staff and students. No intrusive study was conducted during the audit.

The audit was conducted on **5th April, 2019.** The audit report presents green initiatives taken up by the institution, and provides suggestions and recommendations to improve environmental sustainability.

Contributors:

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The Enquiry Team with Principal, Ramananda College

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1. Introduction:

1.1 About the College

The inception of Ramananda College in 1945 was the beginning of providing higher education to the otherwise marginalized youths of this locality. The "Temple Town" Bishnupur, a Sub-Divisional Head Quarter is endowed so far with this only co-educational Degree College, which has been serving for more than 74 years as the Alma Mater of thousands of students coming from rural Bengal.



Green and healthy college premises

The proposal to establish a centre of higher education was initially made by Sri Ramnalini Chakraborty, freedom fighter and social worker of Bishnupur. Initiative was taken by Sri Radhagobinda Roy, founder Principal of this college and Ex-minister, Government of West Bengal and many other eminent personalities of the town and the district. Fund was generated by the contributions of Sri Ramnalani Chakraborty (Rs. 25,000/-), Koley family (Rs. 36,000/-), Sri Anil Kumar Bhattacharya (Rs. 10,000/-), Members of the Friends' Union Club (Rs. 10,000/-) and by the donations of the common people. The college was named after the illustrious son of the district of Bankura, Sri Ramananda Chattopadhyay, noted journalists, editor and scholar.

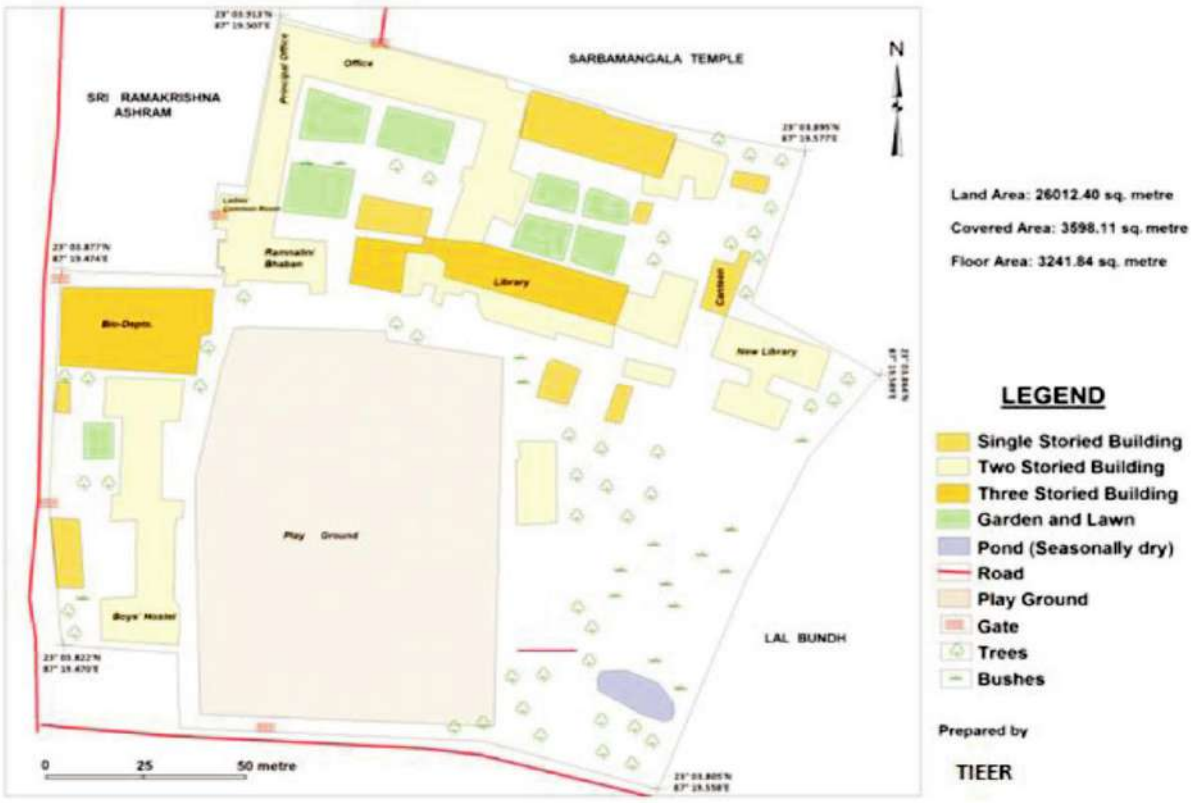
Ramananda Chattopadhyay was the editor, publisher and owner of the Modern Review, a high grade illustrated monthly magazine published in English and Prabasi, a Bengali organ, published in the vernacular. He was pre-eminently an editor although during his useful life he was associated with many reform movements.

The sapling of the past has become the full-grown tree of the present. It fulfils the academic need of the students and nourishes them with the knowledge of real value. The College was initially affiliated to the University of Calcutta and later on to the University of Burdwan and presently to the Bankura University since 1st January, 2017.

The college, with best academic standard, offers Honours & General courses in Bengali, English, Sanskrit, History, Political Science, Philosophy, Geography, Economics, Education, Music, Physical Education, Computer Science, Mathematics, Physics, Chemistry, Botany, Zoology, Physiology and Nutrition. It has separate morning shift for the Commerce section. Every year some students secure ranks in the University Final Examinations. The rate of success in the University Final Examination is more than 90%. Along with this excellent

academic performance the students are involved in social activities like Extension Programme, Adult Education Programme, organizing Health Camp, Plantation Programme, etc. With equal enthusiasm the students serve the nation by being an integral part of N.S.S. & N.C.C. units of the college.

Initially the College was affiliated to the University of Calcutta and later, to the University of Burdwan and now under the affiliation of the Bankura University since 1st January, 2017. The College is recognized by the UGC under Sections 2f and 12B. As the college was established before Independence, it predates both the creations of the UGC and the University of Burdwan. In 2015, the National Assessment and Accreditation Council (NAAC) re-accredited (2nd cycle) the College with 2.75 score. Further, with the introduction of different Post Graduate Courses in Science and Humanities, the College has become a constituent College of the Bankura University. Now the College is complaint with the visions of RUSA.



Location of the College and Land use map

2. Environmental Audit

The Audit covered the following major areas:

2.1. Water Efficiency and Wastewater Management

2.2. Indoor Air Quality

2.3 Energy Efficiency

2.3. Paper Waste Management

2.5. E-Waste Management

2.6. Canteen and Solid Waste Management

2.7. Green Belt

2.1. Water Efficiency and Wastewater Management:

The water is stored in the four storage tanks (Make – Sintex, one of 6 KL, capacity and three of 2Kl capacity each) located on building terrace. Water from bore well is pumped to storage tank around 3 times daily. Stored water is used for drinking, flushing and cleaning. 12 Aquagaurds are provided for drinking water purpose. Water tanks of Hostels are not included.



Polluted water in Unusable tank

No leaking faucets were seen anywhere in washrooms. If water leakage is observed, in-house plumber is called immediately to attend to the complaints. Water conservation faucets in washrooms were not seen. Installation of such faucets can save water and will help in minimising the water footprint of the institute. No signage emphasising water conservation was found in the institute. Sanitary wastewater generated from washrooms is connected to sewerage system. Chemical wastewater generated in chemical labs in the institute is also connected to sewerage system.



Chemical liquid wastage

Waste water recycle is not practiced in the institute as grey water/ sewage treatment /recycle facility is not provided.

Ramananda College is in Bankura region of W.B, which is a water scarce area. Therefore, proper water management practices along with rooftop rain water harvesting system must be installed for recharging ground water and meeting part of the water requirements.

2.2. Indoor Air Quality

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutants are listed as below:

• Molds and other allergens – This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.

• Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.

• Volatile organic compounds – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.

• Carbon dioxide – Due to human respiration

• Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality is as below:

a) Ventilation is achieved by fans in the institute and air conditioners in some places.

b) Heating Ventilation and Air Conditioning (HVAC) system is not installed.

c) Smoke detectors are not provided in the institute.

d) Exhaust fans are only provided in washrooms and chemistry lab.

e) No indoor plants were observed in the entire institute. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits.

2.3. Energy Efficiency

- Good Daylight Design and Ventilation:

a) All the corridors receive good daylight due to the large windows.

b) Corridors are wide with good ceiling height.

c) Classrooms also have high ceiling with wide doors and large windows. Windows are kept open to receive sunlight.

d) Curtains are provided on some of the windows to avoid glare. Due to the location some classrooms do not receive ample natural light and fresh air. Hence these rooms are provided with tube lights even during day time.



Spacious Laboratories



Conversation with students to
Study of environment in laboratories

- **Electricity:**

07 electricity meters are provided for the entire complex. The monthly average electricity consumption is around 7000 KWh (units) approximately. It is necessary to monitor the electricity consumption and we suggest that institute carries out an energy audit to understand the reasons & take corrective action.

The areas of major consumption of electricity are:

LED lights– 100 approximately

Fans – 250 nos. approximately

Air Conditioners – 2nos. (Not energy rated)



Insufficient day light in Classrooms

Computers -150

Fridge 1 in almost every department

Three generators of 20 capacity and one of 15 capacity each are installed in every department, Office, Library and labs as backup in case of power failure.



LPG gas use for chemistry lab.

It was observed that reflectors are not provided for tube lights which can reduce electricity consumption. Computers are always kept on standby mode with power saving screensavers.

There are no signage encouraging users to switch off light and fans to save electricity. Providing signage through screensavers & posters near electrical switches will help in making students responsible for conservation of electricity.

There is no renewable source of energy used e.g. Solar, Wind.

a) LPG gas cylinders are used in laboratories and in the hostel and canteen building for cooking. Other than this, LPG gas is not used anywhere.

b) There is no dedicated gas storage area. Gas cylinders are refilled as and when required.

c) There are no diesel generators used in the premises.

About waste

Waste (or wastes) are useless or unusable materials or components which are discarded after principal use. Sometimes, it is a defective article and of no use. In modern outlook waste may be a valuable substance subject to an appropriate operation or action on the waste. With the context of waste management RRR (reduce, reuse and recycle) model may be followed in appropriate fashion. Keeping the objective of the audit the following study will be limited to the waste generated in an academic campus and surroundings.

Kinds of waste

The following categories of wastes are generated in the college campus:

a) Solid waste

Nearby the physics department old instruments and furniture cause dump. Waste generated through plastic packaging causes nuisance. Some wastes are generated after various experiments, primarily, chemistry laboratory; broken test tube, glassware are the example.

b) Liquid waste

There are bio-chemical wastes generated through various chemical reactions and biological processes. Generally, these are being drained to nearby pond contaminating water and soil. Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation.

2.4. Paper Waste Management:

Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimise and avoid paper usage. Faculty and administration staff uses old papers and envelops for internal usages as rough work, file markers, page separators etc. Paper notices are displayed on the notice boards .The dissertation reports, journals, and answer papers are stored as per the University rules. Most of the storage is in computer laboratory, library and staff room. After couple of years, old submissions and answer papers will be archived and stored in a record room at ground floor. Old publications are still stored in the library. As per the memo, for the disposal of old newspaper scrap dealer is called by central purchase department.



Perception study for paper waste management

2.5. E-Waste Management:

The institute has around 150 PCs and 2 air conditioners in working condition. The data on E-waste generation and its disposal is not available. There is no documented policy for collection, segregation of e-waste.

2.6. Solid Waste Management:

It was observed that:

a) Wet waste and dry waste segregation is not practised in the premises. No separate bins are provided for wet biodegradable and dry recyclable waste.

b) Combined waste is directly handed over to the Municipality



Crisis of solid wastage management

c) Hostel is the main area where biodegradable and non-biodegradable waste is generated. In the back of the girls hostel the sanitary napkins are mostly observed scattered here and there.

e) In other areas like classrooms, it is mostly paper waste and plastic wrappers

Impact of waste on health and environment

Throwing the old furniture here and there is strongly discouraged because it causes the home for spiders, rats, snakes and mosquitoes. Plastics can choke drainage system by causing flood. If get mixed with soil, plastics hinder the growth of root of plants. Generally, bio-chemical wastes are being drained to nearby pond contaminating water and soil.



Inorganic and plastic wastage scattered here and there

2.6.1. Waste management

a) Solid waste

The suggestion is that old instruments may be preserved in a central museum (may be developed if does not exist). The same may be used for demonstration to the new and passionate students and to school children for their project purpose.

Old furniture may be reassembled to make stools, desks, chairs, tables, racks and book shelves with appropriate renovation. Moreover, since cutting of threes is not suggested, whatever timber we have from the ancestors must be preserved and utilize properly.

For plastic three dimensional package-of-practices is suggested. First of all, awareness on plastics material (and its life cycle), its uses and disposal will be there regularly among students. In the second stage, practice of keeping plastics wrapping, packaging, and other plastic-made things in the appropriate bin should be there. For this purpose sufficient numbers of bins will be placed in appropriate locations like students' common room, canteen etc. A mechanism will be there for regular collection by dedicated manpower. At the end, the plastics will recycled by grinding/ chopping instrument and final material is to be dispatched to market. The institution has accepted the suggestion of use of such innovative recycling machine and suggested to design the machine.

Wastes generated from chemical experiments are to be disposed safely maintaining chemical hazard disposal protocol.

b) Liquid waste

Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation.

2.6.2 Waste prevention

Since waste demands a cost for recycling, it is better to design such product which takes less recycling cost. So, at the design phase the proper need assessment is to be undertaken to reduce the target cost for disposal.

Major audit issues in management of waste:

The following are being emphasized during audit of waste management:

a) Name of the waste

b) Category of waste

c) Quantity of waste

d) Hazardous effect of the waste

e) Institutional action and mechanism for waste management

Compliance audit of waste issues:

At the present stage the institute is capable in managing their waste. They are complying with the essential requirements of waste management although suggestions are given for future improvements.

6.3 Performance audit of waste issues:

No critical audit issue is there with respect to the waste management.

2.7. Green belt/ Landscaping:

The Institute has a sprawling campus of 37,635.82 Sq.m



Indigenous plants

a). Plantation is needed in the compound in the periphery of the campus. This plantation will also help keep down severe heat and cold. The trees should be planted in such a way that it should not completely obstruct the view of the building from outside and sunlight to room.



Medicinal plants garden

b). Indoor plants can be potted along the corridors and entrance of the building. For enhancing the scenic beauty it is suggested to plant flowering trees, which bloom in different seasons, in front of the large trees along the periphery.

d).Vertical Gardening can be done on the compound wall of the institute.



Famous 'Lalbandh' water bodies



Rain water harvesting area around the college campus



Playground without any Greenary

Table. 1. Summary of Quantitative Environmental Impact Evaluation

Factors	**Weightage**
Water Efficiency and Wastewater Management	M
Indoor Air Quality	L
Energy Efficiency	M
Paper Waste Management	A
E-Waste Management	A
Green Belt	A

Key: Significant Impact – requires assessment and establishment of measures

Impacts of low or non-existent significance (rated as A = High, M = Moderate, L = Low)

2.8. For Improving Energy Consumption:

a) Every classroom and lab with central switch board should have a diagram linking place of tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.

b) Installation of automatic lights with sensors can be considered.

c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing wherein equipment's with star rating; those using eco-friendly materials; those with safe disposal policy or return to supplier after defunctioning, can be considered.



Local biodiversity patch

d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.

e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.

f) Notices/ signage can be put up/ displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use

g) Use of renewable energy should be considered.

2.9. Water Conservation:

a) Encourage efficient water use and reporting by installing water meters at key locations. Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.

b) Minimize/ reduce water usage by installing water saving faucets such as tap pressmatic taps, tap aerators, jet sprays etc.

c) Dual flushing system can be installed for toilet flushing which saves considerable amount of water.

d) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.

e) Installation of waterless urinals can be considered to reduce water consumption.

f) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption. Encourage efficient water use.



Proposed water recharge site

2.10. Paper and other Solid Waste Reduction:

a) There should be waste segregation practices at source by providing separate bins.

b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.

c) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin. Biodegradable waste from canteen can be used for composting.

d) Plastic bottles to be handed over to PET recyclers.

e) The college can introduce online medium/ app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.



Minimum wastage management methods

f) Paper usage shall be monitored to understand the impact of digitisation in the facility.

2.11. Others

a) Environmental advisory committee could be formed. The discussions and information sharing among different departments can generate lot of ideas and awareness on green issues.



Little water bodies and flora & fauna

b) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.

c) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc). Wallpapers informing students about environment conservation can be created.

d) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

e) Small composting facility can be provided for canteen to treat the biodegradable waste. Compost generated can be utilised for plants near compound wall.

f) Vertical gardening can be done using indoor plants. Hydroponic garden can be an option where in small space also plants can be planted. Drip irrigation system can be provided for plants.

g) Indoor air quality can be monitored to ensure safe and healthy environment.



Sign of healthy environment

3. Suggestions and Proposal and policy on environment management planning for sustain green and healthy college campus

1. The proper conservation and management of heritage Lalbandh Water bodies should be properly done to protect the ecosystem.
2. An eco- green hub for teachers, students and staffs to sustain healthy environment, and to promote environmental awareness can be setup at premises.
3. A solar power grid can be established for implementation of non conventional energy and eco-friendly campus.
4. A ground water recharge station can be established to balance the GWL for water conservation as it is a drought prone area.
5. A green generator can be established for healthy environment.
6. A weather monitoring station can be set up at the college campus for weather forecasting to aware students and local villagers about natural hazard and for collection of weather and atmospheric data for weather forecasting and Disaster management.
7. Micro water harvesting methods could be applied around the catchment area of low land for Water Park at the north- eastern part of college campus.
8. Grass cover and trees walls can be grown at the play ground.
9. To apply the eco-sustainable organic Kitchen garden for the production of fruits, vegetables, flowers and medicinal plants by organic and biotic methods.
10. A Vermi composed pit can be set up to produce the organic fertilizer.
11. To be established the separate bin for chemical liquid waste, solid waste & e-waste.
12. To be maintained and reformed the water bodies (bandh) and ponds for aquaculture and fish farm.
13. Environment departments and offices can be established for perception of healthy environment.
14. Rules and regulations for the pollution free travel and transport system can be created.
15. To arrange the workshops for promoting tourism and skill development. The seminar, symposium, awareness programme can be organized to create awareness and concern about the bio-diversity and environmental conservation and need for management among students and local communities.

16. Can be a planning design for paradise green and healthy environment in college premises and a model for environmental awareness and beautification.

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Vidyasagar University



Environmental enquiry team with principal and staff



'Silent Drive to Environment Management'

Certificate of Green Audit from the Auditing Agency

TROPICAL INSTITUTE OF EARTH AND ENVIRONMENTAL RESEARCH(TIEER)

Reg. No. S/1L/42578 of 2006-07

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GREEN AUDIT CERTIFICATE

ACADEMIC YEAR: 2018-2019

This is to certify that Ramananda college, Bishnupur, Bankura, West Bengal has eco-friendly environment created for saving earth and nature. Tropical Institute of Earth and Environmental Research is satisfied after successful completion of Green Audit with moral support of Respected Principal, Coordinator IQAC, Staff and students for academic year 2018-2019. The efforts taken by the faculty and students towards environment and sustainability are highly appreciable and commendable.

(Dr. Binoy Chanda)	(Dr. Pranab Sahoo)	(Dr. Misha Roy)
President, TIEER	Secretary, TIEER	Expert & Member, TIEER
President Tropical Institute of Earth & Environmental Research Reg. No. - S / 1L / 42578	Secretary Tropical Institute of Earth & Environmental Research Reg. No. - S / 1L / 42578	Dr. Misha Roy Assistant Professor in Environmental Science Coordinator & Convener, Centre for Environmental Studies (CES) Vidyasagar University

Environment Audit

Environment Audit Report

Environmental Audit Report 2019

RAMANANDA COLLEGE, BISHNUPUR BANKURA, W.B.



PREPARED BY

TROPICAL INSTITUTE OF EARTH AND ENVIRONMENTAL RESEARCH (TIEER), MIDNAPUR, W.B.

Environmental Audit Report of Ramananda College, Bishnupur, Bankura has been prepared by Tropical Institute of Earth and Environmental Research (TIEER) based on visit to the college campus, checking records and interactions with faculty, non-teaching staff and students. No intrusive study was conducted during the audit.

The audit was conducted on **5th April, 2019.** The audit report presents green initiatives taken up by the institution, and provides suggestions and recommendations to improve environmental sustainability.

Contributors:

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The Enquiry Team with Principal, Ramananda College

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1. Introduction:

1.1 About the College

The inception of Ramananda College in 1945 was the beginning of providing higher education to the otherwise marginalized youths of this locality. The "Temple Town" Bishnupur, a Sub-Divisional Head Quarter is endowed so far with this only co-educational Degree College, which has been serving for more than 74 years as the Alma Mater of thousands of students coming from rural Bengal.



Green and healthy college premises

The proposal to establish a centre of higher education was initially made by Sri Ramnalini Chakraborty, freedom fighter and social worker of Bishnupur. Initiative was taken by Sri Radhagobinda Roy, founder Principal of this college and Ex-minister, Government of West Bengal and many other eminent personalities of the town and the district. Fund was generated by the contributions of Sri Ramnalani Chakraborty (Rs. 25,000/-), Koley family (Rs. 36,000/-), Sri Anil Kumar Bhattacharya (Rs. 10,000/-), Members of the Friends' Union Club (Rs. 10,000/-) and by the donations of the common people. The college was named after the illustrious son of the district of Bankura, Sri Ramananda Chattopadhyay, noted journalists, editor and scholar.

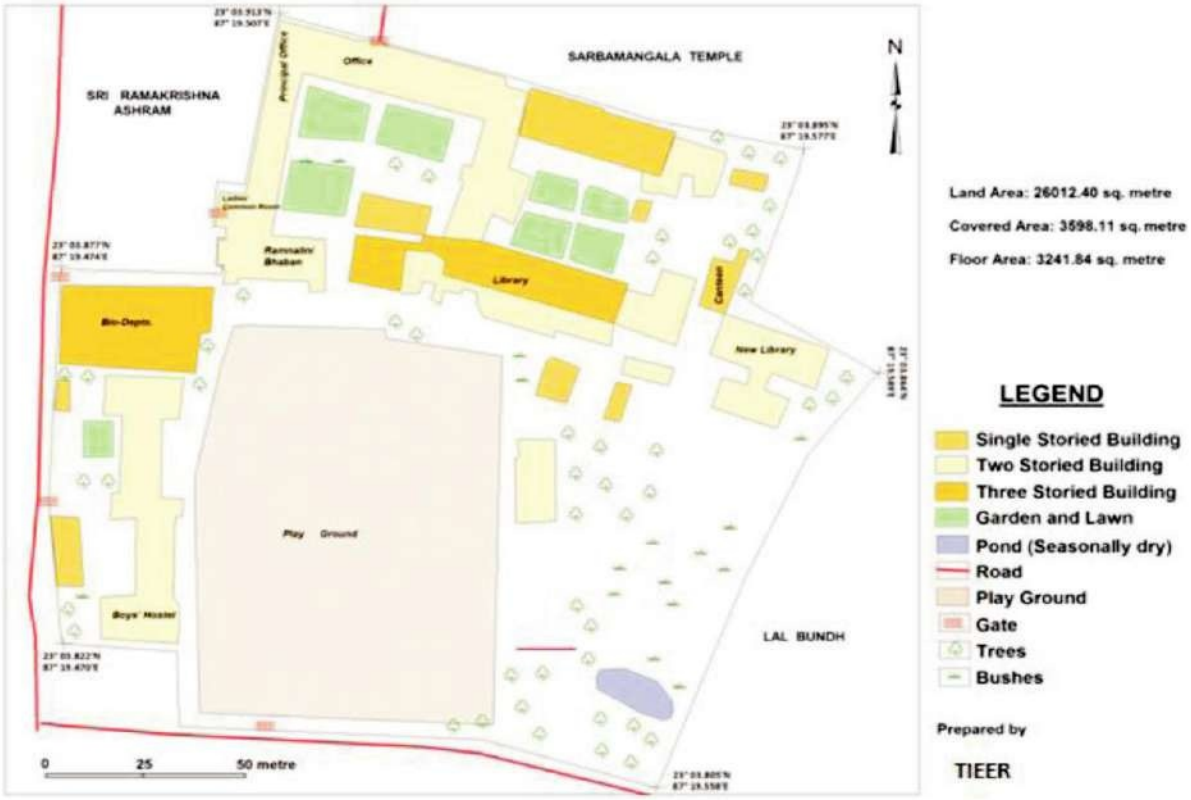
Ramananda Chattopadhyay was the editor, publisher and owner of the Modern Review, a high grade illustrated monthly magazine published in English and Prabasi, a Bengali organ, published in the vernacular. He was pre-eminently an editor although during his useful life he was associated with many reform movements.

The sapling of the past has become the full-grown tree of the present. It fulfils the academic need of the students and nourishes them with the knowledge of real value. The College was initially affiliated to the University of Calcutta and later on to the University of Burdwan and presently to the Bankura University since 1st January, 2017.

The college, with best academic standard, offers Honours & General courses in Bengali, English, Sanskrit, History, Political Science, Philosophy, Geography, Economics, Education, Music, Physical Education, Computer Science, Mathematics, Physics, Chemistry, Botany, Zoology, Physiology and Nutrition. It has separate morning shift for the Commerce section. Every year some students secure ranks in the University Final Examinations. The rate of success in the University Final Examination is more than 90%. Along with this excellent

academic performance the students are involved in social activities like Extension Programme, Adult Education Programme, organizing Health Camp, Plantation Programme, etc. With equal enthusiasm the students serve the nation by being an integral part of N.S.S. & N.C.C. units of the college.

Initially the College was affiliated to the University of Calcutta and later, to the University of Burdwan and now under the affiliation of the Bankura University since 1st January, 2017. The College is recognized by the UGC under Sections 2f and 12B. As the college was established before Independence, it predates both the creations of the UGC and the University of Burdwan. In 2015, the National Assessment and Accreditation Council (NAAC) re-accredited (2nd cycle) the College with 2.75 score. Further, with the introduction of different Post Graduate Courses in Science and Humanities, the College has become a constituent College of the Bankura University. Now the College is complaint with the visions of RUSA.



Location of the College and Land use map

2. Environmental Audit

The Audit covered the following major areas:

2.1. Water Efficiency and Wastewater Management

2.2. Indoor Air Quality

2.3 Energy Efficiency

2.3. Paper Waste Management

2.5. E-Waste Management

2.6. Canteen and Solid Waste Management

2.7. Green Belt

2.1. Water Efficiency and Wastewater Management:

The water is stored in the four storage tanks (Make – Sintex, one of 6 KL, capacity and three of 2Kl capacity each) located on building terrace. Water from bore well is pumped to storage tank around 3 times daily. Stored water is used for drinking, flushing and cleaning. 12 Aquagaurds are provided for drinking water purpose. Water tanks of Hostels are not included.



Polluted water in Unusable tank

No leaking faucets were seen anywhere in washrooms. If water leakage is observed, in-house plumber is called immediately to attend to the complaints. Water conservation faucets in washrooms were not seen. Installation of such faucets can save water and will help in minimising the water footprint of the institute. No signage emphasising water conservation was found in the institute. Sanitary wastewater generated from washrooms is connected to sewerage system. Chemical wastewater generated in chemical labs in the institute is also connected to sewerage system.



Chemical liquid wastage

Waste water recycle is not practiced in the institute as grey water/ sewage treatment /recycle facility is not provided.

Ramananda College is in Bankura region of W.B, which is a water scarce area. Therefore, proper water management practices along with rooftop rain water harvesting system must be installed for recharging ground water and meeting part of the water requirements.

2.2. Indoor Air Quality

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutants are listed as below:

• Molds and other allergens – This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.

• Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.

• Volatile organic compounds – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.

• Carbon dioxide – Due to human respiration

• Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality is as below:

a) Ventilation is achieved by fans in the institute and air conditioners in some places.

b) Heating Ventilation and Air Conditioning (HVAC) system is not installed.

c) Smoke detectors are not provided in the institute.

d) Exhaust fans are only provided in washrooms and chemistry lab.

e) No indoor plants were observed in the entire institute. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits.

2.3. Energy Efficiency

- Good Daylight Design and Ventilation:

a) All the corridors receive good daylight due to the large windows.

b) Corridors are wide with good ceiling height.

c) Classrooms also have high ceiling with wide doors and large windows. Windows are kept open to receive sunlight.

d) Curtains are provided on some of the windows to avoid glare. Due to the location some classrooms do not receive ample natural light and fresh air. Hence these rooms are provided with tube lights even during day time.



Spacious Laboratories



Conversation with students to
Study of environment in laboratories

- **Electricity:**

07 electricity meters are provided for the entire complex. The monthly average electricity consumption is around 7000 KWh (units) approximately. It is necessary to monitor the electricity consumption and we suggest that institute carries out an energy audit to understand the reasons & take corrective action.

The areas of major consumption of electricity are:

LED lights– 100 approximately

Fans – 250 nos. approximately

Air Conditioners – 2nos. (Not energy rated)



Insufficient day light in Classrooms

Computers -150

Fridge 1 in almost every department

Three generators of 20 capacity and one of 15 capacity each are installed in every department, Office, Library and labs as backup in case of power failure.



LPG gas use for chemistry lab.

It was observed that reflectors are not provided for tube lights which can reduce electricity consumption. Computers are always kept on standby mode with power saving screensavers.

There are no signage encouraging users to switch off light and fans to save electricity. Providing signage through screensavers & posters near electrical switches will help in making students responsible for conservation of electricity.

There is no renewable source of energy used e.g. Solar, Wind.

a) LPG gas cylinders are used in laboratories and in the hostel and canteen building for cooking. Other than this, LPG gas is not used anywhere.

b) There is no dedicated gas storage area. Gas cylinders are refilled as and when required.

c) There are no diesel generators used in the premises.

About waste

Waste (or wastes) are useless or unusable materials or components which are discarded after principal use. Sometimes, it is a defective article and of no use. In modern outlook waste may be a valuable substance subject to an appropriate operation or action on the waste. With the context of waste management RRR (reduce, reuse and recycle) model may be followed in appropriate fashion. Keeping the objective of the audit the following study will be limited to the waste generated in an academic campus and surroundings.

Kinds of waste

The following categories of wastes are generated in the college campus:

a) Solid waste

Nearby the physics department old instruments and furniture cause dump. Waste generated through plastic packaging causes nuisance. Some wastes are generated after various experiments, primarily, chemistry laboratory; broken test tube, glassware are the example.

b) Liquid waste

There are bio-chemical wastes generated through various chemical reactions and biological processes. Generally, these are being drained to nearby pond contaminating water and soil. Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation.

2.4. Paper Waste Management:

Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimise and avoid paper usage. Faculty and administration staff uses old papers and envelops for internal usages as rough work, file markers, page separators etc. Paper notices are displayed on the notice boards .The dissertation reports, journals, and answer papers are stored as per the University rules. Most of the storage is in computer laboratory, library and staff room. After couple of years, old submissions and answer papers will be archived and stored in a record room at ground floor. Old publications are still stored in the library. As per the memo, for the disposal of old newspaper scrap dealer is called by central purchase department.



Perception study for paper waste management

2.5. E-Waste Management:

The institute has around 150 PCs and 2 air conditioners in working condition. The data on E-waste generation and its disposal is not available. There is no documented policy for collection, segregation of e-waste.

2.6. Solid Waste Management:

It was observed that:

a) Wet waste and dry waste segregation is not practised in the premises. No separate bins are provided for wet biodegradable and dry recyclable waste.

b) Combined waste is directly handed over to the Municipality



Crisis of solid wastage management

c) Hostel is the main area where biodegradable and non-biodegradable waste is generated. In the back of the girls hostel the sanitary napkins are mostly observed scattered here and there.

e) In other areas like classrooms, it is mostly paper waste and plastic wrappers

Impact of waste on health and environment

Throwing the old furniture here and there is strongly discouraged because it causes the home for spiders, rats, snakes and mosquitoes. Plastics can choke drainage system by causing flood. If get mixed with soil, plastics hinder the growth of root of plants. Generally, bio-chemical wastes are being drained to nearby pond contaminating water and soil.



Inorganic and plastic wastage scattered here and there

2.6.1. Waste management

a) Solid waste

The suggestion is that old instruments may be preserved in a central museum (may be developed if does not exist). The same may be used for demonstration to the new and passionate students and to school children for their project purpose.

Old furniture may be reassembled to make stools, desks, chairs, tables, racks and book shelves with appropriate renovation. Moreover, since cutting of threes is not suggested, whatever timber we have from the ancestors must be preserved and utilize properly.

For plastic three dimensional package-of-practices is suggested. First of all, awareness on plastics material (and its life cycle), its uses and disposal will be there regularly among students. In the second stage, practice of keeping plastics wrapping, packaging, and other plastic-made things in the appropriate bin should be there. For this purpose sufficient numbers of bins will be placed in appropriate locations like students' common room, canteen etc. A mechanism will be there for regular collection by dedicated manpower. At the end, the plastics will recycled by grinding/ chopping instrument and final material is to be dispatched to market. The institution has accepted the suggestion of use of such innovative recycling machine and suggested to design the machine.

Wastes generated from chemical experiments are to be disposed safely maintaining chemical hazard disposal protocol.

b) Liquid waste

Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation.

2.6.2 Waste prevention

Since waste demands a cost for recycling, it is better to design such product which takes less recycling cost. So, at the design phase the proper need assessment is to be undertaken to reduce the target cost for disposal.

Major audit issues in management of waste:

The following are being emphasized during audit of waste management:

a) Name of the waste

b) Category of waste

c) Quantity of waste

d) Hazardous effect of the waste

e) Institutional action and mechanism for waste management

Compliance audit of waste issues:

At the present stage the institute is capable in managing their waste. They are complying with the essential requirements of waste management although suggestions are given for future improvements.

6.3 Performance audit of waste issues:

No critical audit issue is there with respect to the waste management.

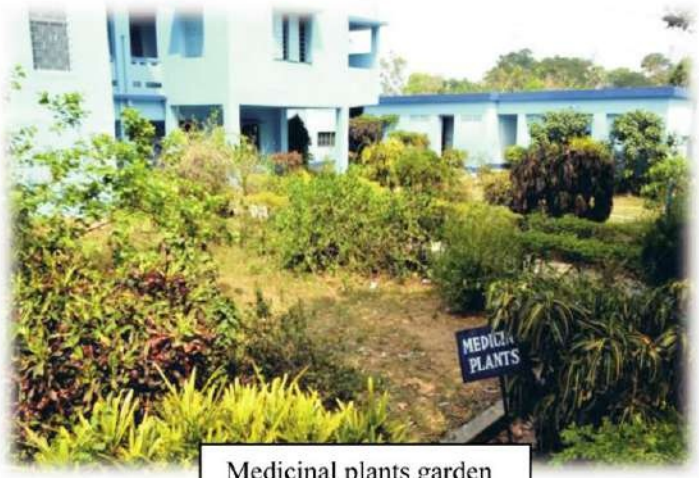
2.7. Green belt/ Landscaping:



Indigenous plants

The Institute has a sprawling campus of 37,635.82 Sq.m

a). Plantation is needed in the compound in the periphery of the campus. This plantation will also help keep down severe heat and cold. The trees should be planted in such a way that it should not completely obstruct the view of the building from outside and sunlight to room.



Medicinal plants garden

b). Indoor plants can be potted along the corridors and entrance of the building. For enhancing the scenic beauty it is suggested to plant flowering trees, which bloom in different seasons, in front of the large trees along the periphery.

d).Vertical Gardening can be done on the compound wall of the institute.



Famous 'Lalbandh' water bodies



Rain water harvesting area around the college campus



Playground without any Greenary

Table. 1. Summary of Quantitative Environmental Impact Evaluation

Factors	**Weightage**
Water Efficiency and Wastewater Management	M
Indoor Air Quality	L
Energy Efficiency	M
Paper Waste Management	A
E-Waste Management	A
Green Belt	A

Key: Significant Impact – requires assessment and establishment of measures

Impacts of low or non-existent significance (rated as A = High, M = Moderate, L = Low)

2.8. For Improving Energy Consumption:

a) Every classroom and lab with central switch board should have a diagram linking place of tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.

b) Installation of automatic lights with sensors can be considered.

c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing wherein equipment's with star rating; those using eco-friendly materials; those with safe disposal policy or return to supplier after defunctioning, can be considered.



Local biodiversity patch

d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.

e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.

f) Notices/ signage can be put up/ displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use

g) Use of renewable energy should be considered.

2.9. Water Conservation:

a) Encourage efficient water use and reporting by installing water meters at key locations. Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.

b) Minimize/ reduce water usage by installing water saving faucets such as tap pressmatic taps, tap aerators, jet sprays etc.

c) Dual flushing system can be installed for toilet flushing which saves considerable amount of water.

d) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.

e) Installation of waterless urinals can be considered to reduce water consumption.

f) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption. Encourage efficient water use.



Proposed water recharge site

2.10. Paper and other Solid Waste Reduction:

a) There should be waste segregation practices at source by providing separate bins.

b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.

c) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin. Biodegradable waste from canteen can be used for composting.

d) Plastic bottles to be handed over to PET recyclers.

e) The college can introduce online medium/ app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.



Minimum wastage management methods

f) Paper usage shall be monitored to understand the impact of digitisation in the facility.

2.11. Others

a) Environmental advisory committee could be formed. The discussions and information sharing among different departments can generate lot of ideas and awareness on green issues.



Little water bodies and flora & fauna

b) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.

c) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc). Wallpapers informing students about environment conservation can be created.

d) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

e) Small composting facility can be provided for canteen to treat the biodegradable waste. Compost generated can be utilised for plants near compound wall.

f) Vertical gardening can be done using indoor plants. Hydroponic garden can be an option where in small space also plants can be planted. Drip irrigation system can be provided for plants.

g) Indoor air quality can be monitored to ensure safe and healthy environment.



Sign of healthy environment

3. Suggestions and Proposal and policy on environment management planning for sustain green and healthy college campus

1. The proper conservation and management of heritage Lalbandh Water bodies should be properly done to protect the ecosystem.
2. An eco- green hub for teachers, students and staffs to sustain healthy environment, and to promote environmental awareness can be setup at premises.
3. A solar power grid can be established for implementation of non conventional energy and eco-friendly campus.
4. A ground water recharge station can be established to balance the GWL for water conservation as it is a drought prone area.
5. A green generator can be established for healthy environment.
6. A weather monitoring station can be set up at the college campus for weather forecasting to aware students and local villagers about natural hazard and for collection of weather and atmospheric data for weather forecasting and Disaster management.
7. Micro water harvesting methods could be applied around the catchment area of low land for Water Park at the north- eastern part of college campus.
8. Grass cover and trees walls can be grown at the play ground.
9. To apply the eco-sustainable organic Kitchen garden for the production of fruits, vegetables, flowers and medicinal plants by organic and biotic methods.
10. A Vermi composed pit can be set up to produce the organic fertilizer.
11. To be established the separate bin for chemical liquid waste, solid waste & e-waste.
12. To be maintained and reformed the water bodies (bandh) and ponds for aquaculture and fish farm.
13. Environment departments and offices can be established for perception of healthy environment.
14. Rules and regulations for the pollution free travel and transport system can be created.
15. To arrange the workshops for promoting tourism and skill development. The seminar, symposium, awareness programme can be organized to create awareness and concern about the bio-diversity and environmental conservation and need for management among students and local communities.

16. Can be a planning design for paradise green and healthy environment in college premises and a model for environmental awareness and beautification.

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Environmental enquiry team with principal and staff



'Silent Drive to Environment Management'

Certificate of Environment Audit from the Auditing Agency

TROPICAL INSTITUTE OF EARTH AND ENVIRONMENTAL RESEARCH(TIEER)

Reg. No. S/1L/42578 of 2006-07

Office Address: M-10, Bidhannagar, Medinipur-721101, West Bengal , India

GREEN AUDIT CERTIFICATE

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President Tropical Institute of Earth & Environmental Research Reg. No. - S / 1L / 42578	Secretary Tropical Institute of Earth & Environmental Research Reg. No. - S / 1L / 42578	Dr. Misha Roy Assistant Professor in Environmental Science Coordinator & Convener, Centre for Environmental Studies (CES) Vidyasagar University

Beyond the Campus Environmental Promotional Activities

Sl No.	Name of the Event / Activity	Data
1.	Special Camp i. Environment Awareness Programme in Chowgan. ii. Environment Awareness Programme in Dwarika Gram iii. Environment Awareness Programme in Nichupara, Bishnupur Municipality iv. Environment Awareness Programme in Panshuli and Mansa Gram v. Environment Awareness Programme in Abantika Gram	25.01.2016 – 31.01.2016 21.02.2017 - 27.02.2017 26.03.2018 – 27.03.2018 14.03.2019 – 20.3.2019 11.11.2020
2.	National Level Seminar on Bio-Diversity	02.03.2020
3.	Activities of Bio-Diversity Management Committee (Beyond the Campus)	Throughout the year
4.	Namami Gange Project	18.07.2018
5.	State Level Seminar on Environmental Awareness	20.12.2018
6.	Dissertation/ Project work (Beyond the Campus)	Throughout the year

RAMANANDA COLLEGE

ESTD - 1945

BISHNUPUR * BANKURA

Pin – 722122, West Bengal

UGC Recognized & State Government Aided Constituent College

Under the Bankura University

(Accredited by NAAC at 'B' Level)

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Report on NSS activity (Extension & Outreach Programme):

- **Title of the programme**: Special Camp (Chowgan Village) - Health Checkup, Household Survey, Awarness Programme, Plantation & Cleaning.
- **Organized by**: NSS Unit & Chowgan Gram Panchayet
- **Date(s) of the programme**: 25.01.2016 – 31.01.2016
- **Funding agency**: The University of Burdwan
- **Number of student participants:** 93
- **Number of teacher participants**: 07
- **Place of extension / outreach activity**: Chowgan Village under Bishnupur BDO.
- **Beneficiaries**: People of Chowgan Village and students of Ramananda College
- **Programme Details**:

  Every year the NSS Unit of the college organizes Special Camps funded by affiliating university and Ramananda College. All NSS volunteers, members of the Students' Union, some teachers and non-teaching staff usually join this extension programme which normally takes place in a neighbouring village or in a local slum area.

  This year also this Special Camp has been organized from 25.01.2016 to 31.01.2016 in the Chowgan Gram Panchayet area. The purpose is to serve the villagers in particular and the society at large. The volunteers also become aware of their social responsibilities.

  Several teachers have subsequently taken up the noble responsibility of continuing the NSS programmes in our college. On 1st July, 2014 the present incumbent Shubhasis Chattopadhyay assumed the charge of Programme Officer for the NSS here. With experience from his student days, he is trying his best to execute the Programmes of NSS with the cooperation of the College Advisory Committee, the College Administration, Non-teaching & Teaching Staff, Students' Union and local communities.

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) BISHNUPUR

Principal
Ramananda College,
Bishnupur, Bankura

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- The programmes carried out by the NSS Ramananda College Unit are as follows.
    - Health Awareness through cleaning drains and roads (in the adopted village).
    - Environment awareness by seminars
    - Social awareness programmes on child marriage, superstitions, women empowerment, etc.
    - Door to door Survey by questionnaire and distribution of leaflets for health and educational awareness.
    - Health check camp—General Health Checkup, Blood Pressure Check, Blood Group Test, ECG of aged villagers
    - Cultural Programme

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) * BISHNUPUR *

Principal
Ramananda College,
Bishnupur, Bankura

Letter of Appreciation/Recognition for Environment Awareness Programme

Ph. No. - 03244 - 209434

OFFICE OF THE MORAR GRAM PANCHAYAT

2 NO. BASUDEBPUR CAMP

BISHNUPUR :: BANKURA

Ref. No.- 240/MGP/2020 Date 02.11.2020

LETTER OF APPRECIATION

This is to certify that the NSS volunteers , Staff Members of Ramananda College, Bishnupur, Dist- Bankura had conducted a survey with local people of the Village Chowkan under Morar Gram Panchayat in various ways from 25/01/2016 to 31/01/2016 as follows.

- They had organized health camp for checking blood pressure , identification of blood group , ECG for senior citizens, Health counseling etc.
- They had also organized awareness programmes on various issues like social issues, superstitions, Literacy, Nutrition environment, etc.
- NSS volunteers had surveyed each and every household of the stated locality regarding health, education, income , fuel consumption , women and gender issues etc.
- They had also participated in cleaning programme and plantation programme.

The entire programme conducted by NSS volunteers , Staff Members of Ramananda College was very helpful to the locality in every aspect and has been highly appreciated by the local people and the undersigned also.

Pradhan
Morar Gram Panchayat

Pradhan

Morar Gram Panchayat

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Report on NSS activity (Extension & Outreach Programme):

- **Title of the programme:** Special Camp (Dwarika Village) - Health Checkup, Household Survey, Awareness Programme, Plantation & Cleaning.
- **Organized by:** NSS Unit& Dwarika Gram Panchayet
- **Date(s) of the programme:** 21.02.2017 - 27.02.2017
- **Funding agency:** The University of Burdwan
- **Number of student participants:** 48
- **Number of teacher participants:** 10
- **Place of extension / outreach activity:** Dwarika Village under Bishnupur BDO.
- **Beneficiaries:** People of Dwarika Village and students of Ramananda College

Sl No.	DATE	Session-I 8AM-1.00PM	Session-II 1.00PM-2PM	Session-III 2PM-5PM	Name of resource persons & department	Place
1.	21.02.17	Inauguration 9.00AM &Seminar	Break	Seminar & Cultural Activities (On the Observance of International Mother Language Day)	Awareness Programme	College Campus
2.	22.02.17	Yoga, Pared & Campus Cleaning	Break	Games & Campus Cleaning	Awareness Programme	College Campus
3.	23.02.17	Leaflet Distribution & Seminar	Break	Seminar	Awareness Programme (Department of physiology & Nutrition)	Adopted village (Dwarika
4.	24.02.17	Health Check-up of Villagers &Volunteers.	Break	Awareness Programme	Awareness programme (Department of physiology & Nutrition)	Adopted village (Dwarika)

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Bishnupur, Bankura

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5.	25.02.17	Cleaning	Break	Doctor Visit	Resource Person - Aloke Bhowmik, Khatra Adibasi Mahavidyalaya & Cultural Activities	Adopted village (Dwarika)
6.	26.02.17	Cleaning	Break	Awareness Programme	Dr. Dipak Singh, (Department of Physical Education)	College campus
7.	27.02.17	Cleaning	Break	Seminar	Closing Ceremony	(College Campus, Biram Bhavan)

Programme Details:

Every year the NSS Unit of the college organizes Special Camps funded by affiliating university and Ramananda College. All NSS volunteers, members of the Students' Union, some teachers and non-teaching staff usually join this extension programme which normally takes place in a neighboring village or in a local slum area.

This year also this Special Camp has been organized from 21.02.2017 to 27.02.2017 in the Dwarika Village. The purpose is to serve the villagers in particular and the society at large. The volunteers also become aware of their social responsibilities. Several teachers have taken up the noble responsibility of continuing the NSS programmes in our college.

- The programmes carried out by the NSS Ramananda College Unit are as follows.
    - Seminar and cultural activities on the observance of the International Mother Language Day on 21.02.2017.
    - Health Awareness through yoga, pared and campus cleaning on 22.02.2017.
    - Leaflet distribution and seminar on health awareness in the adopted village Dwarika.
    - Door to door Survey by questionnaire and distribution of leaflets for health and educational awareness and heath checkup of the villagers and volunteers by the students of the department of physiology and nutrition.
    - Doctor visit on 25.02.2017 for general health checkup, blood pressure check, blood Group test, ECG of aged villagers etc.
    - Cultural Programme.

Principal
Ramananda College,
Bishnupur, Bankura

Letter of Appreciation/Recognition for Environment Awareness Programme

ফোন - (03244) 251117

দ্বারিকা-গোঁসাইপুর গ্রাম পঞ্চায়েত কার্য্যালয়

OFFICE OF THE DWARIKA-GOSSAINPUR GRAM PANCHAYET

গ্রাম - বেলঠ্যা ◈ পোঃ - দ্বারিকা ◈ জেলা - বাঁকুড়া (পঃ বঃ)

পত্রাঙ্ক 307 তারিখ 02/11/2020

Letter of Appreciation

I on behalf of villagers of Dwarika Gossainpur Gram Panchayat acknowledge that the NSS volunteers, staff member of Ramananda collage have served the local people and locality in various ways on 21/02/2017 to 27/02/2017.

- They have organized Health camp – Checking Blood Pressure , identifying Blood Group of all local people, ECG of senior citizens, health counselling.
- They have organized seminars/awareness programmes on social issues, superstitions, literacy, nutrition environment, etc.
- NSS volunteers have surveyed each household of the locality regarding health, education, income, fuel consumption, women and gender issues, and such other social, economic and health and hygiene related issues.
- They have participated in cleaning the locality and plantation.

Their camp in this locality is very much beneficial and this extension activity by the students and staff members of Ramananda Collage has been highly appreciated by the people of the locality.

Dwarika-Gossainpur Gram Panchayet Dist.-Bankura P.O.- Dwarika

02.11.2020

Pradhan
Dwarika-Gossainpur
Gram Panchayet
Pradhan
Dwarika Gossainpur Gram Panchayat

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Report on NSS activity (Extension & Outreach Programme):

- **Title of the programme:** Special Camp at Nichupara, Bishnupur (Extension /Outreach)
- **Organized by:** NSS Unit –I and II
- **Collaborating agency:** Bankura University
- **Dates of the programme:** 26/03/2018 and 27/03/2018
- **Resource person:** Dr. Santu Singha, NSS Programme Coordinator, Bankura University.
- **Funding agency:** Ramananda College
- **Number of student participants:** 96
- **Number of teacher participants:** 8
- **Place of extension/outreach activity:** Nichupara, Bishunupur, Bankura.
- **Beneficiaries:** Students of our college and the local people of Nichupara.
- **Aims and objectives:**
    - Blood group detection
    - General health check-up of the economically weak people living in Nichupara,
    - Health awareness of the community living in Nichupara.
- **Programme outcome:** A health check-up camp was organized and 45 people participated in the camp. The people of Nichupara were benefitted by this camp.

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Principal
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Bishnupur, Bankura

Letter of Appreciation/Recognition for Environment Awareness Programme

Office :- 03244 - 252073 / 252591
Tourist Complex :- 252200
Fax:- 03244-256412
bishnupurmunicipality@rediffmail.com

OFFICE OF THE BISHNUPUR MUNICIPALITY

P.O.- Bishnupur * District - Bankura

Memo No..... *Dated, Bishnupur, the ..26.7../..2020*

To :

Sub : Letter of Appreciation / Recognition

Ref. :

I on behalf of the residents of the ward no. 3 in Bishnupur Municipality acknowledge that the N.S.S. Volunteers, staff members of Ramananda College have served the local people and locality and arrange a Special health Check-up and health awareness programme on 26th March and 27th March 2018.

The main theme of the Programme centres around the above mentioned discourse and contributed immensely to the general people of the locality.

Following programmes have been taken into account

1. Health check-up and health awareness.
2. Height, Weight, Body Mass Index measurement.
3. Blood Group and Blood Pressure check.
4. Cleaning – Sanitization of Local Area.

OFFICE OF THE BISHNUPUR MUNICIPALITY • ESTD-1873 •

Chairperson,
Board of Administrators,
Bishnupur Municipality

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Report on NSS Activity (Extension & Outreach Programme):

- **Title of the programme:** Seven-day special Camp/ Annual camp.
- **Organized by:** NSS unit 1 & 2
- **Date(s) of the programme:** 14/3/2019 to 20/3/2019.
- **Number of student participants:** 100
- **Number of teacher participants:** 8.
- **Place of extension / outreach activity:** This camp was held in Panshuli and Mansa villages under the Belsuliya Gram panchayat.
- **Beneficiaries:** Villagers and students.
- **Aims and Objectives:** We went to afore-mentioned villages with our NSS volunteers for doing some social works. Amis and objectives of this special camp are following:

(i) Making education more relevant to the present situation to meet the felt needs of the communities and supplement the education of university/college/school students by bringing them face to face with the community situation.

(ii) To provide opportunities to NSS Volunteers to play their due roles in the implementation of various development programmes by planning and executing development projects, which not only help in creating durable community assets in rural areas and slums but also result in improvement of the condition of weaker sections of the communities.

(iii) Encouraging the youths to work along with the adults in rural areas, thereby developing their character, social consciousness and commitment, and healthy and helpful attitudes towards the community.

(iv) Building up potential youth leaders by exploring the latent potential among the campers, both students as well as local youth (rural and urban), with a view to involve them more intimately in development projects for longer periods. The local

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leadership generated during the camps would also be useful in ensuring proper maintenance of the assets created as a result of the camps.

(v) Emphasizing the dignity of labour and self-help and the need for combining physical work with intellectual pursuits.

(vi) Encouraging youth to participate enthusiastically in the process of national development, and promote national integration through democratic living and cooperative action.

- **Programme outcome:**

(i) Our NSS volunteers and teachers from the department of Nutrition and physiology advised the people of those villages. The villagers were highly benefitted by their advices. Our NSS volunteers took a great initiative for illiterate villagers who were even unable to sign. Our students tried to teach them how to sign. We cleaned the schools which belonged to those villages and pasted the sayings of great personalities in school premises. We organized some cultural and educational activities. All these activities inspired the school students as well as the villagers.

13/12/2021
Principal
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RAMANANDA COLLEGE * ESTD-1945 (BANKURA) * BISHNUPUR *

Letter of Appreciation/Recognition for Environment Awareness Programme

OFFICE OF THE

Email : wbregs.belsulia3@gmail.com

BELSULIA GRAM PANCHAYAT

BLOCK - BISHNUPUR

VILL. - KHARKATA ◈ P.O. - JIABANDI ◈ DIST. - BANKURA

Ref. No. .....

Date .....

Letter of Appreciation

I on behalf of villagers of Pansuili Village under Belsulia Gram Panchayet acknowledge that the NSS volunteers, staff members of Ramananda College have served the local people and locality in various ways on 14/03/2019 to 20/03/2019

- They have organized Health Camp –Checking Blood Pressure, identifying Blood Group of all local people, ECG of senior citizens, health counseling
- They have organized seminars/awareness programmes on social issues, superstitions, literacy, nutrition, environment, etc.
- NSS volunteers have surveyed each household of the locality regarding health, education, income, fuel consumption, women and gender issues, and such other social, economic and health and hygiene related issues.
- They have participated in cleaning the locality and plantation.

Their camp in this locality is very much beneficial and this extension activity by the students and staff members of Ramananda College has been highly appreciated by the people of the locality.

Pradhan

Belsulia Gram Panchayat

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Report on Environment Awareness Programme in Abantika Village

- **Title of the programme:** Covid Awareness Campaigning Programme
- **Organized by:** Ramananda College
- **Date of the programme:** 11.11.2020
- **Funding agency:** Ramananda College
- **Number of student participants:** 25
- **Number of teacher participants:** 04
- **Place of extension / outreach activity:** Abantika Village
- **Beneficiaries:** Village Community
- **Aims and Objectives:**
    - To create awareness to prevent the transmission Corona Virus.
    - To teach the local people effective ways of hand washing techniques and safety measures.

- **Programme outcome:** Understanding the threat of corona virus in the world, our college took the initiative to make the local people aware of this pandemic disease. We provided hand sanitizers and masks to the villagers. We went to several places in the village holding posters and placards which contain warning messages of Covid-19 to make the local people aware of this global threat. We also provided chocolates for refreshments. This campaign was a successful one. Our college has planned to arrange such awareness programmes in the neighbouring areas.

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Photographs of Environment Awareness Programme at Abantika Village


amananda College
Bishnupur, Bankura, Pin- 722122
Estd : 01.07.1945
- 19 Awareness Programm
On 11.11.2020
ach / Extension Programm
bantika, an adopted Village
in Collaboration with
ika Gossianpur Gram Panchyet
Dwarika, West Bengal, India
Unnamed Road, West Bengal, India
Lat N 23° 5' 52.0332"
Long E 87° 18' 50.958"
11/11/20 01:29 PM
Google


Abantika, West Bengal, India
Bishnupur - Sonamukhi Rd, Abantika, West Bengal
722147, India
Lat N 23° 6' 33.444"
Long E 87° 18' 38.4264"
11/11/20 12:45 PM
Google


Ramananda College
Bankura, Pin- 722122
Estd : 01.07.1945
Google
Abantika, West Bengal, India
Bishnupur - Sonamukhi Rd, Abantika, West Bengal
722147, India
Lat N 23° 6' 30.8952"
Long E 87° 18' 37.5228"
11/11/20 12:34 PM


Google
Abantika, West Bengal, India
Bishnupur - Sonamukhi Rd, Abantika, West Bengal
722147, India
Lat N 23° 6' 31.0968"
Long E 87° 18' 37.9368"
11/11/20 12:35 PM

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Report on Workshop / Seminar

- **Name of the organizing Department**: Biodiversity Management Committee.
- **Collaborating Agency**: West Bengal Biodiversity Board.
- **Title of the Seminar**: One Day National Seminar on Biodiversity & its Conservation.
- **Funded by**: Government of West Bengal.
- **Date**: 02.03.2020
- **Level**: National
- **Number of participants**: 118
- **Details of Resource person(s)**:
  - Prof. Niranjan Behera – School of Life Science, Sambalpur University, Orissa.
  - Prof. Prabir Ranjan Sur – Scientist, B.S.I. Shibpur
  - Dr. Partha Pratim Chakravorty – Assistant Professor & Head, P.G. Dept. of Zoology, Raja N. L. Khan Women's College, Midnapur.

- **Objective**: Biodiversity describes the organisms in the natural environment, which provides the ecosystem services form our natural capital: fresh water, clean air, soil fertility and biological pest control. It is the sustainability of the world's natural resources, conservation of biodiversity, on economic grounds, needs to become core business in the management of our natural resources.

  - The main objectives are:
    - To protect the native vegetation & terrestrial vegetation.
    - Control invasive species.
    - Minimize impacts of climatic change on biodiversity.
    - Improve scientific knowledge and introduce Institutional reforms.

- **Outcome**: Knowledge about biodiversity incorporated the threatened species & ecological communities into integrated regional plans. Number of introduced plant, bird, fish and pathogens which pose major threats to biological diversity are being controlled in this sites like biological conservation process. **Participants including researchers, teachers have been enlightened about innovative research methods in the related field.**

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One day National Seminar on Bio-diversity and its conservation



Speech by Prof. Niranjan Behara, School of Life Science, Sambalpur University, Orissa on Bio-diversity and its conservation

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Report on Biodiversity Management Activities

West Bengal Biodiversity Board under Department of Environment, Govt. of West Bengal, has constituted Biodiversity Management Committee in Ramananda College under Bishnupur Municipality, Bankura District. The college takes initiatives in the study and preservation of biodiversity in this locality. **The study and activities like specimen collection, awareness programmes, environmental promotional activities are conducted beyond campus.**

The study and activities involve exploring the flora and fauna and reveal the environment rich in biodiversity. It also points out the endangered species and the need for their preservation for the sake of environment. The project is a beyond campus initiative and it is ongoing. Some findings at this stage are:

1. **PLANTS:**

   a) Different types of rice varieties are cultivated in and around Bishnupur Municipality. Such varieties are—MTU-1001,MTU—1010,CR—1017,etc.
   b) Pulses are produced like gram, *cajanus cajan, leus esculentius*,etc.
   c) Vegetables growing in this locality are- Brocoli, Bin, Cabbage, tomato,etc.
   d) Endangered species like Panthapadap.*(Ravenela madagascariensis)* is found in this area.

2. **Studying plants which are medicinally important in rural and urban area.**

   --*Terminalia chebula, schleichera trijuga thevetia,cinnamomum tamala,argemonomaxicana ,etc.*

3. **Some rare animals of Phyllum Annelida are found**
   (e.g., *Phiritima phostuma*, leech etc.)

4. **Reptiles** like snakes, garden lizard, tortoise etc. are also found.

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5. Various types of **birds and insects** which are important components of the ecosystem have also been studied.

6. Different types of mollusca are found in local water bodies: types of snails,etc.

7. Types of Mammals like rats, ticks, apes, etc. have been studied.

The biosphere constitutes a vital life support system for man. Its existence in a health and functional state is essential for the existence of human race. It is the complex collection of innumerable organism-the biodiversity which makes our lives both pleasant and possible. Complex beyond understanding and valuable beyond measure biological diversity is the total variety of our life on our planet. That's why our Biodiversity Management Committee organized a one-day national seminar "**Biodiversity and its Conservation**" on 2nd March 2020 in association with the West Bengal Biodiversity Board of the Government of West Bengal

13/12/2021

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Activities of the Biodiversity Management Committee



Haematipsa picta: collected by Biodiversity Committee near Lalbandh



Anisoptera. Sp: Collected by Biodiversity Committee near Lalbandh



Vespula vulgaris: Collected by Biodiversity Committee from Malancha Para, Bishnupur



Biodiversity Awareness Programme: B.D.O Office, Bishnupur,26.07.2019



Achatina fulika: collected by Biodiversity Committee near Lalbandh, a big bandh, rich in biodiversity



Araucaria. Sp: collected by Biodiversity Committee near in ward no 03, Bishnupur



Tabernaemontana divaricate: Collected by Biodiversity Committee near in Ward no 03, Bishnupur



Namami Gange Project(Beyond the Campus)

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Report on Namami Gange Project (Environmental Promotional Activity)

- **Name of the Organizing Department:** Ramananda College
- **Title of the Workshop:** Namami Gange Plantation Program
- **Funded by:** Govt. of India, carried out through Govt., of West Bengal
- **Date:** 18/07/18
- **Level:** District Level
- **Number of Participants:** 150
- **Details of Resource person(s):**

1. SDO Bishnupur, Sri Manas Mandal
2. DFO Bishnupur
3. ADFO Bishnupur
4. SDPO Bishnupur
5. BDO Bishnupur
6. Principal, Ramananda College

- **Objective:** Bringing awareness about the importance of afforestation for rejuvenation the Ganga and making people more eco conscious.
- **Outcome:**

'Namami Gange Program' is a flagship project by the Govt. of India launched in 2014, with the twin aims of rejuvenation and conservation the Ganga river, as well as reducing pollution. As part of the Namami Gange project, a campaign was initiated as part of the Forest Interventions in Ganga in few states. This campaign mainly focused on bringing awareness about the importance of afforestation for rejuvenation of the Ganga through plantation and discussion. A number of higher education institutions took part in this campaign through "Adopt a Plant" initiative.

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22/7/2020

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In the Bishnupur subdivision of Bankura district of West Bengal, about 200 saplings were planted in various areas, as part of this drive. Large flowering plants were planted on three sides of the college field of Ramananda College. The banks of the historic 'Lal Bandh' also were beautified with plantation as part of this project.

A number of residential students from the college Boys' Hostel were entrusted with the responsibility of taking care of these saplings. As a result, most saplings survived. It is expected that these plants will flower soon, and beautify the lanes of Bishnupur, along with the college ground, while helping to contribute towards ecotourism.

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27/11/2020

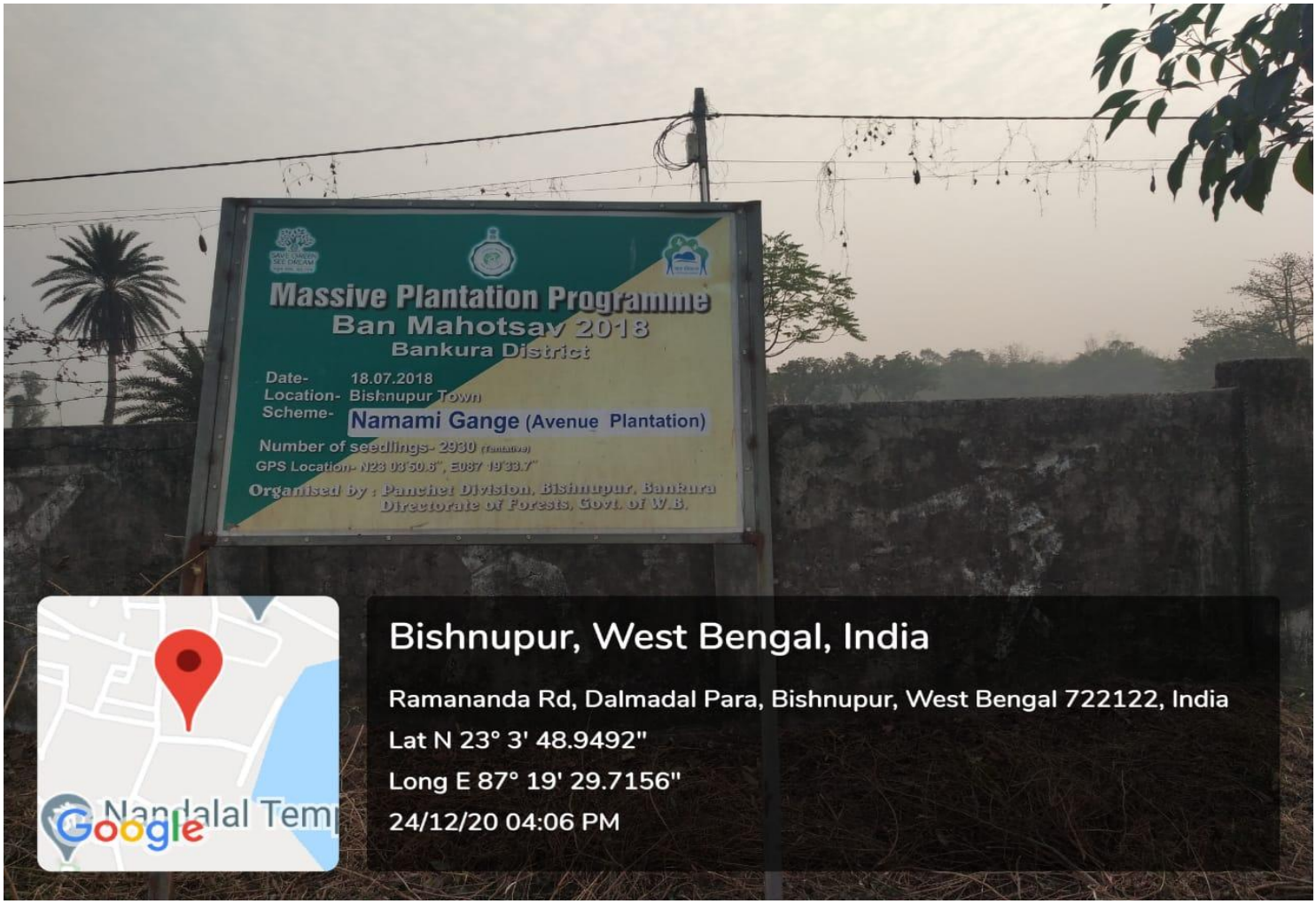
Principal
Ramananda College,
Bishnupur, Bankura

Photographs of Namami Gange Project (Beyond the Campus)


Plantation of Namami Gange
Bishnupur, West Bengal, India
Bishnupur College Rd, Rajdarbar, Dalmadal Para,
Bishnupur, West Bengal 722122, India
Lat N 23° 3' 56.2932"
Long E 87° 19' 36.9264"
24/12/20 02:04 PM
Google



Inauguration of Massive Tree Plantation Programme (Namami Gange) - 18.07.2018



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Report on the Seminar on Environmental Awareness

- **Title of the programme**: One day State Level Seminar on ENVIRONMENTAL AWARENESS
- **Organized by**: NSS unit 1 & 2
- **Date of the programme**: 20/12/2018.
- **Resource persons**:
  - Swami Eakacittananda, Vice-Principal of Ramakrishna Mission Vidyamandira.
    - Dr. Santu Singha, Assistant professor Dept. of Sanskrit, BKU.
    - Dr. Nilanjana Chatterjee, Associate Professor Dept. of Geography, Vidyasagar University.
    - Dr. Sanjoy Mukherjee, Associate Professor Dept. of History, Saldiha College.
- **Funding agency**: BKU NSS.
- **Number of student participants**: 140
- **Number of teacher participants**: 30.
- **Place of extension / outreach activity**: Viram Bhawan.
- **Beneficiaries**: students.
- **Aims and Objectives**:

  To acquire the knowledge, values, attitudes, and practical skills to participate in a responsible and effective way in anticipating and solving social problems, and in the management of the quality of the environment.

- **Programme outcome**:

  This seminar helps the students to understand how their decisions and actions affect the environment. It also helps to build knowledge and skills to address complex environmental issues. It also encourages the students to take action to keep our environment healthy and sustainable for the future. Our resource persons delivered their insightful lectures on environmental awareness. The participants and resource persons have joined the seminar from different parts of the state. It is a ***beyond campus*** initiative for environmental promotional activity.

RAMANANDA COLLEGE ESTD-1945 (BANKURA) BISHNUPUR

13/12/2021
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Bishnupur, Bankura



Key-note speech about Environmental Awareness in one day state level seminar



Speech by Dr. Nilanjana Das Chatterjee, Dept. of Geography, Vidyasagar University on Environmental Awareness

DISSERTATION / PROJECT WORK ON ENVIRONMENT (BEYOND THE CAMPUS)

A STUDY OF SOCIO ECONOMIC STATUS OF THE VILLAGE CHOWKAN,BISHNUPUR,BANKURA

REPORT OF SOCIAL OUTREACH PROGRAMME SUBMITTED TO THE UNIVERSITY OF BURDWAN FOR DEGREE OF M. SC. IN BOTANY

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Saikat Mondal

ABSTRACT

Socio economic survey was carried out in Chowkan village of Bankura district to collect the information about various agricultural crop products and economic condition of the village. The present work revealed that most of the people are daily labours in the adjacent nearby field and also livestock dwellers. Nearly 200-250 individuals lives , whose annual income on an average ranges between 25000-100000. They mainly lives on the yield of Seasonal crops. In summer rice production is the main along with other crops, such as a *Sissamum sp* , bitter gourd , snake gourd & pumpkin etc. Winter crops are potato, rye, tomato etc. Some people also involved in pisciculture.

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INTRODUCTION

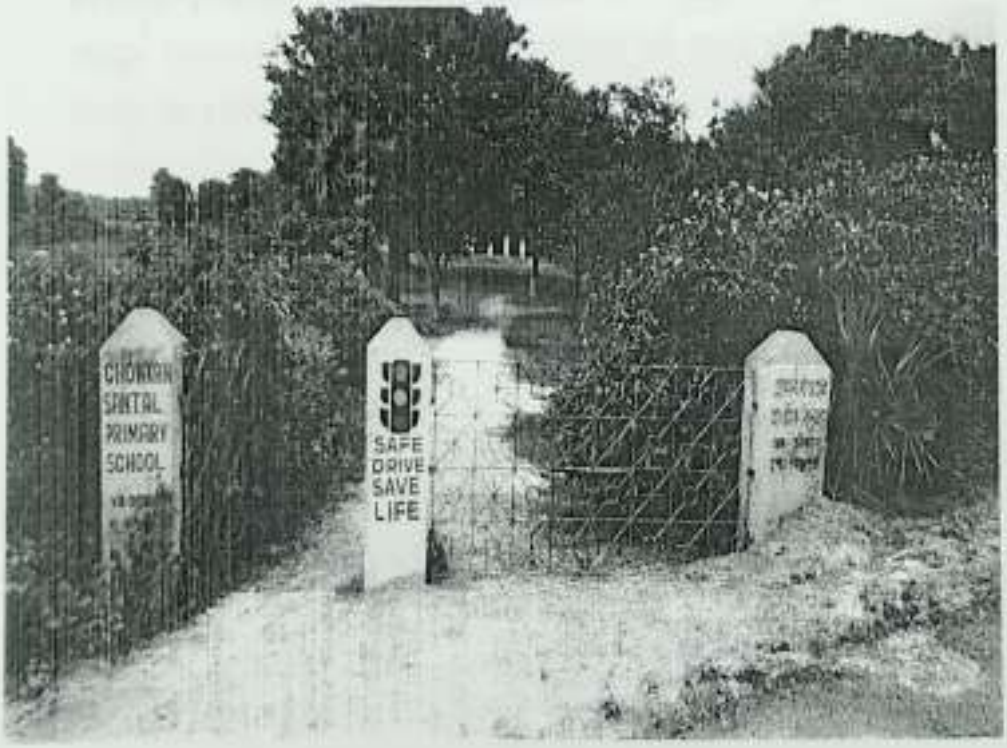
Socio economic status is a combination of sociological as well as economical life style circumstances. It is the total measures of a person's work experience and of an individuals or family's economic and social position in relation to the others, based on income and education. However socio-economic status is commonly used to depict on economic difference in society as a whole.

OBJECTIVES

- Main objectives of the study was to access the social, economical and agricultural condition of the village.
- To explore the possibilities of improvement in this village through various foundation.
- To study about perception level of community toward agriculture.

STUDY SITE

The survey was done on the village of Chowkan situated in the northeast border of Bishnupur town in Bankura district. Climate of this region is tropical forest type with an average rainfall of above 1500 mm each year. Soil of this region is loamy alluvial type with high carbon and phosphorus content respectively. Soil is also less acidic more basic.



METHODOLOGY

The present work is primarily based on through field survey in the study sites. During field trip, information collected from local people through interview. Primary data was carried out in order to gather the data knowledge and experience of the villagers. This data is collected through the interview of 74 farmers in the village.

RESULT AND DISCUSSION

Chowkan is moderate to few populated village with an average member of 250 individuals. Majority of the people are of tribal community specially Santhalis. Most people are daily labour in the crop field, nearly some of them are live stock dwellers. There are also people who are involved in pisciculture. People involved in irrigational works depends mainly on seasonal crops like rice , gourd,snake gourd, bitter gourd etc(summer season) and potato , rye , tomato(winter season).

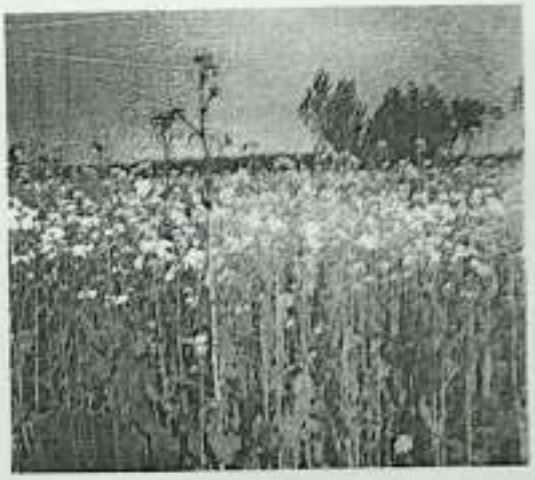












PHOTOGRAPHY OF THE WORK

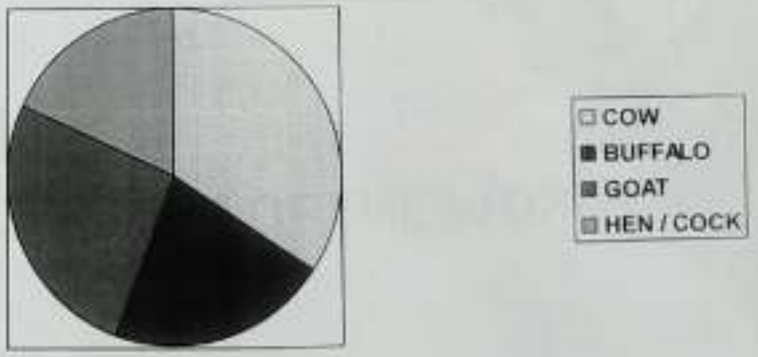
MAIN SOURCE OF INCOME OF THE FAMILIES

SL NO	SOURCE OF INCOME	NO OF RESPONDENT	% OF RESPONDENT
1	AGRICULTURE	65	42%
2.	BUSINESS	0	0%
3.	DALILY WAGE WORKING	40	25%
4	PISCICULTURE	17	11%
5.	CATTELE SHIP	36	23%



Different no of live stock present in the village

SL NO	LIVE STOCK	NO OF RESPONDENT	% OF RESPONDENT
1.	COW	38	34%
2.	BUFFALO	23	21%
3.	GOAT	29	26%
4.	HEN / COCK	20	19%



CONCLUSION

After this survey work which was conducted for about 2 months it can be concluded that the village Chowkan is a low populated village ,whole economic status is not to high. Of total 250 individualds most are involved and earn from irrigational work and also in piscicultural jobs. People who are involved in animal husbandry are second largest compared to the total number of individuals. Apart from this some people are also involved in the jobs.

SIGNATURE

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Signature of Internal Examiner

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Signature of External Examiner