



**RAIDIGHI COLLEGE**  
(NAAC Accredited Cycle - 1 on 05.11.2016)  
P.O. & P.S. -Raidighi, South 24 Parganas, Pin- 743383  
Mobile No. 9735310008 Phone No. +91-3218-358262  
Website – [www.raidighicollege.in](http://www.raidighicollege.in)  
Email – [raidighicollege95@gmail.com](mailto:raidighicollege95@gmail.com)



# RAIDIGHI COLLEGE



## BEST PRACTICES (2018-2023)



  
Dr. Sasabindu Jana  
Principal  
RAIDIGHI COLLEGE



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## Best Practice – 1

### Title: Building a Greener Tomorrow

#### Objectives:

- raise awareness among students and local community about protecting our environment
- involve all stakeholders in promoting conservation of local natural habitats
- develop habit of optimal and responsible utilization of natural resources (like water, electricity)
- encourage informed participation in biodiversity preservation
- actively participate in ‘People’s Biodiversity Register’ preparation (mandated in Biological Diversity Act, 2002) with West Bengal Biodiversity Board
- prevent environmental degradation and pollution through regular plantation programs
- maintain green, clean, healthy campus with organic kitchen garden, medicinal plant garden
- foster eco-friendly, sustainable practices (waste management, composting, endorsing circular economy)
- promote environmentally-friendly sustainable livelihood through handhold training

#### The Context:

Raidighi College is situated within the Sundarban region, a UNESCO World Heritage site, renowned for its unparalleled biodiversity. However, it faces mounting threats from the devastating impacts of climate change, heightening its vulnerability. In recent years, various major cyclones have resulted in gradual depletion of mangrove and other biological resources, soil erosion, salt water intrusion and disruption of natural habitats. Simultaneously, the local livelihoods have been brutally impacted. Financial inequality, unplanned disproportionate modernization, unsustainable livelihood practices and deficit of ecological cognizance and compassion threaten severe broad-scale environmental degradation.



  
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Recognizing the pressing ecological challenges, our college underscores the urgent need for action and puts in best efforts in building a greener tomorrow through curricular, co-curricular and extra-curricular activities. Initiatives are aided by~

- Green Club
- NSS units
- IQAC
- various departments
- collaborators

However, anthropogenic activities, lack of awareness and limited resources pose serious challenges to continue our green practices in full swing.

### **The Practice:**

#### **Uniqueness and Relevance in the context of Higher Education~**


Climate crisis, driven by ignorance and indifference, is threatening our existence. Education can lead to much needed action. Both CBCS curriculum and NEP 2020 incorporate environmental themes. Our teachers promote climate literacy through~

- classroom teaching,
- seminars,
- projects,
- field works,
- certificate courses,
- student-centric activities,

which are often uniquely designed for their ecologically fragile, economically insecure habitat.

To help students link climate crisis with their lives and livelihood and to inspire them to take informed actions, we blend conventional green practices with holistic, location-relevant, innovative approaches ~



  
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1. Eco-friendly campus: Achieved through~
  - a) solar panel installation
  - b) rainwater harvesting
  - c) green generator
  - d) innovative landscaping with carbon friendly, useful trees, indigenous plants
  - e) innovative organic kitchen garden and medicinal plant garden
  - f) "Ban Plastic" and "No Tobacco" drives
  - g) State-of-the-art monitoring of campus Air Quality Index
  - h) signboards advocating “reduce, reuse, recycle”, “no honking”, etc
2. Plantation drives: Conducting sapling distribution and plantation drives within and outside campus, especially during
  - a. Van Mahotsav,
  - b. Sundarban Divas,
  - c. World Environment Day,
  - d. Earth Day,
  - e. National Pollution Control Day
3. Post-plantation nurturing: carried out with care by Botany Department and Green Club
4. Swachhata Pakhwada observation: observed through~
  - a. Cleanliness drive
  - b. "Save Water" programs
  - c. water safety testing
5. Waste management: Implemented through~
  - a. dedicated waste segregation bins
  - b. e-waste disposal (aided by Hulladek Recycling Pvt Ltd)
  - c. minimizing paper usage and waste through e-governance
6. Energy conservation practices:
  - a. training staff and students to switch off lights and fans when not in use
  - b. using air conditioners only during unbearable summer months (set to 25°C)



  
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- c. transition to energy efficient LED bulbs
- d. installing solar panels
7. Unique Green Circular Economy:
  - a. Fresh, healthy produce from organic kitchen garden distributed among staff, hostel students, local schools
  - b. Biodegradable waste used in composting
8. Green audit and Energy audit: being done annually (since post-Covid re-opening)
9. Outreach Programs: Several environmental outreach programs, often uniquely designed to engage local community, are arranged (involving schools, government offices, local administration, common people)
10. Innovative Green Strategies in Research and Employment:
  - A. **Research Projects:** A few research projects focus on benefits of local natural resources (like honey), environmental protection, occupational sustainability.
  - B. **Green sustainable entrepreneurship training:**
    - i. **Mushroom cultivation:** requires minimal land and water resources, helps nutritional security and agro-waste recycling.
    - ii. **Apiculture:** involves pollinators who support healthy ecosystem and biodiversity

**Limitations:** Lack of adequate funding, resources, manpower.

## **Evidence of Success:**

Success of this best practice can be ascertained from the following~

- Despite repeated devastations caused by cyclones, our college has fruitfully persevered in rebuilding and reinstating greenery on campus
- We have successfully restored and enriched campus flora and fauna, for our students to study



  
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- The lush green campus successfully helps students cope with stress and provides an environment conducive to deeper thinking and learning
- Medicinal plants such as basil, aloe vera, ginger, and calendula have provided practical benefits in first-aid, minor ailment treatments.
- We have lower electricity bills, clean campus, improved air quality.
- The healthy produce from our organic kitchen garden helps feed hostel students, promoting a nutritious diet and reducing our carbon footprint.
- Enthusiastic participation by student volunteers in environmental outreach programs, seminars, plantation drives, biodiversity register process assures us of greater future triumphs
- Mushroom cultivation has successfully aroused significant interest among students, highlighting their zeal for green entrepreneurship.
- Our efforts have been rewarded by awards and acknowledgements to individual students/faculty/department or to college as a whole from government offices, national organizations, other institutes of national importance, etc.

## Problems Encountered and Resources Required:

- i. Green Campus initiatives demand unwavering determination, patience, and long-term commitment, making it a challenging process.
- ii. General lack of environmental awareness and empathy among local people exacerbates the challenges.
- iii. People do not readily agree to change their way of living or working. For example, many local farmers continue to overuse inorganic fertilizers and pesticides for profit, which is detrimental for the environment.
- iv. It takes time and perseverance to foster the essential shift in community mindset towards adopting green, sustainable choices.



  
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- 
- v. It is difficult to nurture the saplings planted outside the campus and to protect them from adverse anthropogenic activities.
- vi. Limited funds pose another major challenge since some initiatives are costly and require expert advice.
- vii. College lacks sufficient manpower needed for sustainable green practices.

Nevertheless, we remain steadfast in our commitment to environmental sustainability and continue to seek innovative solutions to overcome all obstacles.

## Best Practice 2



  
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**Title: Nurturing and Empowering our Daughters in classroom and beyond**

**Objectives of the Practice:**

1. Close gender gap in higher education, provide equal access to all
2. Increase girl student enrollment, reduce drop-outs by providing adequate facilities
3. Encourage students to break down unfair social barriers
4. Create awareness on gender equity among students
5. Ensure safety, health, hygiene for girl students in campus, hostel, community
6. Implement strict policy of zero tolerance towards gender discrimination and sexual harassment
7. Discourage early marriage and pregnancy
8. Encourage girls to pursue their career goals
9. Engage parents as our allies in this practice
10. Ensure that women empowerment begins at home

**The Context:**

In rural India, many women and girls face significant social barriers, like:

- Gender discrimination
- Child marriage
- Early pregnancy
- Sexual assault
- Dowry
- Domestic violence
- Trafficking

Our college is situated in socio-economically backward, rural region of the Sundarbans. For generations, girls here have been deprived of equal access to education and other rights. This holds them back, limiting any meaningful contribution to society.

Higher education plays crucial role in empowering young women. Raidighi College is fully committed to stop gender bias and empower the daughters of this land through quality education, social and emotional support, mentoring and awareness programs, so that they may fulfill their potential while journeying to womanhood. We believe that educated, independent, goal-driven women can accomplish anything they set their minds to, through informed choices, hard work and determination. They can, in turn, empower their mothers and future girl children, thus breaking the perpetual cycle of poverty and inequality.

**The Practice:**



  
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### **Uniqueness in context of Indian Higher Education**

Knowledge begets understanding, wisdom, power, self-esteem. We believe higher education is the sole gateway to a girl's liberation and progress. It offers the best opportunity to nurture and empower her. The more she learns, the better are her chances of forging her path forward. Several CBCS courses and NEP 2020 address gender issues, women's movement, empowerment. Our Women's Cell, NSS, IQAC, different departments promote this best practice through uniquely designed

- classroom teaching
- seminars
- student activities
- cultural programs
- motivational talks/videos
- community services

### **We blend conventional methods with innovative practices which include:**

#### **1. Equal Opportunity Cognizance:**

Implemented through~

- a. Gender sensitization programs
- b. Observing International Women's Day, National Girl Child Day, etc.
- c. Celebrating eminent women (from Nobel laureates to astronauts)
- d. Advocating equal rights, justice, opportunities
- e. Outreach activities to break gender stereotyping

#### **2. Facility for girl students:**

- a. Scholarship/Free-ship
- b. Hostel accommodation
- c. Common room with sick bed
- d. Refurbished modern toilets, sanitary pad vending machine
- e. Toilet for Divyang girls
- f. Special events/opportunity in sports, cultural activities

#### **3. Ensuring health, hygiene, mental fitness, safety:**

- a. CCTVs, security personnels for round-the-clock surveillance
- b. Awareness on Women's Safety Apps
- c. Cyber-crime awareness, legal provisions
- d. Contemporary nutritional assessments, health counselling
- e. Novel psychotherapy



  
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- f. Awareness on AIDS, STDs, safe conjugal life, menstrual hygiene
  - g. Special yoga sessions
  - h. Thalassemia counselling-cum-screening
  - i. Self-defense workshops
  - j. Innovative student activities (role-playing, video-making etc.) highlighting importance of healthy gut, weight, heart, habits
- 4. Roles, Rights, Responsibilities: The Unique Ripple Effect~**
- a. Educating wider community through student rallies, demonstrations
  - b. Teaching constitutional and legal rights, social responsibilities
  - c. Instilling the power to say 'yes', the right to say 'no'
  - d. Inspiring informed choices
  - e. Training students to advocate fairness, justice, uniformity
- 5. Career Counselling:**
- a. Awareness on government scholarship, credit card, trainings
  - b. Encouraging progression to higher studies
  - c. Discouraging early marriage/pregnancy
  - d. Workshops on employability (SSC, Indian Army, etc.)
  - e. Instilling entrepreneurship-cum-leadership skills
  - f. Expert counselling on financial management
  - g. Certificate courses for self-enrichment, professional skills
- 6. Zero tolerance policy towards gender-based misconduct:** executed via
- a. Strict vigil by Internal Complaints Committee, Anti-ragging cell
  - b. Robust Grievance Redressal System
- 7. Beyond the campus initiatives:**
- a. Nutritional assessments and counselling sessions in nearby schools
  - b. Encouraging school girls to enroll in college
  - c. Building alliance with parents as empowerment must start at home
  - d. Inviting guardians at prize distribution ceremonies

## Constrains:

Transforming the mindset of girls who have been marginalized for generations is a challenging task.

## Evidence of Success:



  
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Girl empowerment has emerged as an effective force dismantling older oppressive norms. Our efforts are being gradually rewarded as we replace the old narrative of deprivation and marginalization with accounts of success, self-fulfillment and an overall positive sense of purpose in life. This is evident from:

- 1) Increase in girl student enrollment in college, decrease in drop-outs
- 2) Increase in pass percentage of girl students, along with progression to higher studies (PG).
- 3) Improvement in nutritional and health practices of girls with the message spreading to their families.
- 4) Several awards/acknowledgements received by our girl students (from Raidighi College, University of Calcutta, Microbiologists Society of India, Government offices, other institutes/organizations), in studies, sports, cultural events, outreach activities, competitions.
- 5) Our college has been awarded by state government for Kanyashree scholarship initiative.
- 6) Successful COVID-19 vaccination drive, Thalassemia screening camp conducted for all girl students.
- 7) Noticeable changes in prevailing mindset of silence, compliance, subservience among rural girls
- 8) Girls taking up responsibility of spreading social messages and breaking down societal shackles by becoming NSS volunteers.
- 9) Girls feeling free to express their thoughts and perspectives through oral presentations, posters, slogans
- 10) Enthusiastic participation by boys and girls alike, in gender-based seminars, workshops, awareness programs

## Problems Encountered and Resources Required:

- 1) Society is still rife with gender inequalities and an underlying patriarchal mindset, especially in rural regions.
- 2) Persuading families to allow their daughters to complete their UG course and pursue further higher studies is a challenging task.
- 3) Deep-rooted cultural norms, discriminatory traditions, and poverty issues pose significant obstacles.
- 4) Lack of fund, resources and adequate staff, does not allow us to organize community awareness campaigns on larger scale.
- 5) Educated mothers are more likely to prioritize their daughters' education, thereby initiating a cycle of progress and empowerment. But fund deficit and insufficient manpower prevent us from initiating a long-planned adult literacy project for older females.
- 6) Lack of financial support also rules out the prospect of establishing an aid fund dedicated to supporting promising but economically disadvantaged girl students. This could have helped us significantly reduce drop-out rates.



  
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## 7.2.1

*SUPPORTING DOCUMENTS  
ON  
'Best Practices'*



  
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**BEST PRACTICE: 1**

**Building a Greener Tomorrow**



  
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**ENVIRONMENTAL AGREEMENTS & AUDITS**

Ref. No GB/Abstract/03/21



Date: 20.06.2021

**ABSTRACT OF G.B. RESOLUTION**

**Meeting No: 21 Dated 10.02.2021**

Place: Zilla Parishad Bhawan, Alipore, Time: 3:00 pm

**Members Present:**

- |                              |                               |
|------------------------------|-------------------------------|
| 1. Mr. Choudhury Mohan Jatua | 5. Mr. Sankar Halder          |
| 2. Dr. Sasabindu Jana        | 6. Mr. Uttam Roy Mandal       |
| 3. Dr. Sudhin Sinha          | 7. Mr. Sakti Pada Jana        |
| 4. Mr. Sanat Kumar Purkait   | 8. Dr. Alok Jaldata (invitee) |

Shri Choudhury Mohan Jatua, president of the Governing Body took the chair and the meeting started.

\* \* \* \* \*

**Resolution Adopted:**

A meeting of the Governing Body (Meeting No: 21) is held today i.e 10.02.2021 at Zilla Parishad Bhawan, Alipore and resolved the following:

Resolved that the broken compound wall at the south-western side of the College be repaired / constructed immediately out of any external or internal development fund and the pond associated with the ground of the wall also be restored properly after the huge ecological loss during Amphan Super cyclone in 2020.

College pond is an integral part of our 4 acres land and always committed for local ecological as well as economic benefits as not only main pivotal distribution/ drainage system of the College and surrounding but also fishing with financial scope under lease system. After the evaluation of deterioration of the Water Body in COVID lockdown and series of natural calamities for nearly 2 years, Governing Body is unanimously decided to take the responsibility of maintenance in forms of de-weeding, aeration, reduction of land erosion and other management support for conservation and rejuvenation with the help of local people for the Session 2021-22.

\* \* \* \* \*

The meeting is ended with a vote of thanks to the chair.

Sd/-

(C.M. Jatua)

President

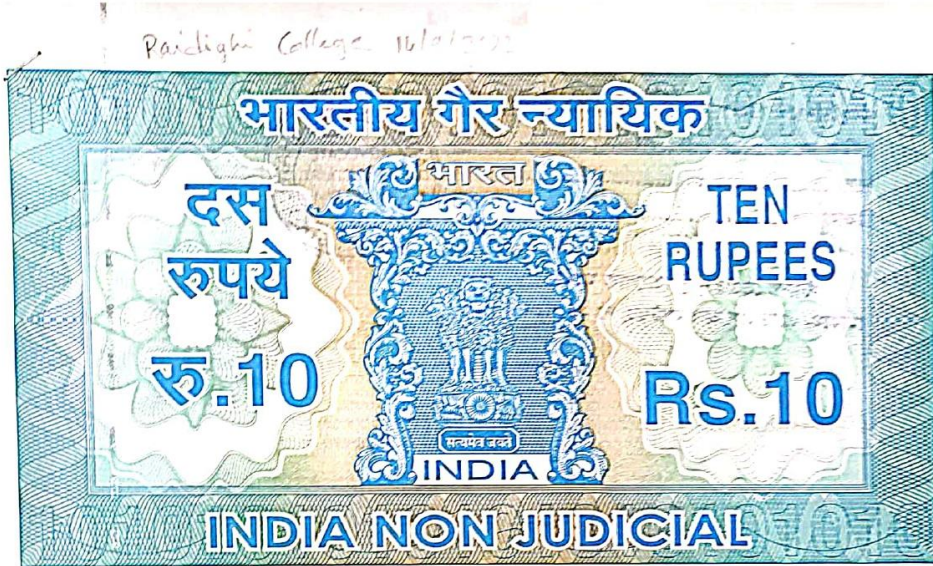


  
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পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL

69AB 180628

## SERVICE AGREEMENT FOR E-WASTE MANAGEMENT

The Agreement is entered into at Kolkata on this 14 day of September, 2022

By and Between

**Hulladek Recycling Private Limited**, a company incorporated under the Companies Act 2013 having its registered office at **4, D.L. Khan Road, Flat No. B-401, 4<sup>th</sup> Floor, Kolkata-700025, West Bengal, India** thereafter referred to as First Party which expression shall unless contrary to and or repugnant to the context mean and include its successors representative and permitted assigns through **Mr. Nandan Mall** to enter into and sign this Agreement for and on behalf of the First Party.

AND

**Raidighi College** established in 1995, is an undergraduate college in Raidighi, West Bengal. It is affiliated with the University of Calcutta having its premises at **P.O.+P.S. Sub. Division: Diamond Harbour, 24 Paraganas(South) Raidighi, West Bengal 743383**. There in after referred to as Second Party which expression shall unless contrary to and or repugnant to the context mean and include its successors representative and permitted assigns through **Dr. Sasabindu Jana (Principal)** to enter into and sign this Agreement for and on behalf of the Second Party.

A.) First Party is a registered Producer Responsibility Organization (PRO) vide The Registration No. **B-29016(12)/(PRO)/18/WM-III Division** dated 12.11.2018 valid up to 12.11.2023 and is authorized to undertake activities prescribed for Producer Responsibility Organizations.

B.) The Second Party in compliance of E-Waste Management Rules, 2018 & 2022 desires to have services for management of their Electronic Waste except liquid waste.



  
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Now, being that, this Agreement witnesses the following terms & conditions to be performed by both the parties to the Agreement.

1. The First Party has agreed to pick up, transport, carry and recycle/dispose of the E-Waste from the second party as per the norms prescribed by the Government Authorities from time to time.
2. The First Party has agreed to make available Utilization Certificate confirming that E-Waste provided by the Second party to the First Party has been recycled/ disposed of as per the norms prescribed by the Government Authorities within 60 days of the pick up the E-Waste.
  - a. The second party will sign required documents to acknowledge that E-Waste has been handed over to the First Party.
3. This agreement will be in force for a period of Five (05) years (14.09.2022 – 13.09.2027) from the date of execution of this Agreement and can be renewed at the end of every period by mutual consent.
4. The second party is expected to generate minimum 300 kgs of E-Waste annually during each contractual term.
5. The First Party shall provide compliance documents such as Form 2', 'Form 3' Query Letters from PCB or any other document required as per government norms and shall file annual return for the respective year to the state pollution control board on a chargeable basis of per location, annually as records of e-waste movement from the premises of the second party to first party as and when applicable
6. The Second Party will accumulate all E-Waste and inform to the first party once reasonable volume (approx. 200 kgs minimum) has accumulated. The pickups confirmed by the Second Party will be carried out on a priority basis within Five days from the date of request.
7. The Second party has agreed to handover the E-Waste items, the details of which are mentioned here below to the first party on "as is where is basis". The first party will dispose off such equipment and specifically agreed that they will charge the second party.
8. The Second party has agreed to handover the E-Waste, the details of which are mentioned here below to the first party on "as is where is basis".
  - a. The first party will dispose off such equipment and specifically agreed that they will charge the second party towards the disposal of E-Waste as shown in ANNEXURE 2.
9. The first party will pay in case of the items in ANNEXURE 1. Any monies payable/receivable by the First party will be identified and settled by 7<sup>th</sup> of preceding month for the current month or the subsequent month/s as may be mutually decided from time to time. Applicable GST on such items will be additional.
10. The second party's responsibility will cease once electronic waste has been handed over to the First Party s per clause 3 above. Thereafter, no liability would accrue to the Second party on account of e-waste.
11. The renewal of the contract is chargeable at the end of the tenure/period and the documentation formalities shall be done by the First Party within 30-45 days prior to the date of agreement termination.



  
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12. Records & data of the e-waste material procured will be maintained and transparently shared by the first party.
13. The Second Party has agreed that the general waste such as municipal solid Waste will not be included in the E-Waste.
14. It is clearly agreed that all the E-waste procured by or in the possession of the second party will be exclusively managed by the first party as per the terms and conditions specified above
15. The First Party shall conduct an 'Awareness Session' at the premises of the 'Second Party' for generating awareness about the benefits and process of e-waste recycling.
  - a. The second party then shall prepare and share with first party an Awareness report to be submitted the West Bengal pollution control board.
16. Refund and Termination : During the tenure In case The First Party Fails to Deliver any of the services mentioned or any operational service failure Then It shall be a liable cause for Termination of the Agreement by the Second Party post which the balance advance amount for the year of 2022-2027 shall be refunded by the First Party to the Second Party without any interest.

"First Party"

M/s. Hulladek Recycling Private Limited



Authorized Signatory  
(Mr. Nandan Mall)

Witness: -

1)

"Second Party"

Raidighi College

Authorized Signatory  
Dr. Sasabindu Jana (Principal)  
PRINCIPAL

RAIDIGHI COLLEGE  
Raidighi, 24 Pgs(S), Pin-743383

Witness: -

1)

1990/1ml

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CB



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Email – [raidighicollege95@gmail.com](mailto:raidighicollege95@gmail.com)



Hulladek Recycling Private Limited  
5, Deshpran Sashmal Road, Kolkata 700033  
☎ 1800-212-7880 | ☎ 9903028800  
🌐 [www.hulladek.in](http://www.hulladek.in) | 📧 [help@hulladek.re](mailto:help@hulladek.re)

**Hulladek**  
Hungry for Waste

**Payment Terms :** The Second Party has agreed to pay an 'agreement fee' of ₹ 7,000 /- + 18%GST annually to the first party as fee for the contract. Total of ₹ 35,000 /- + 18%GST to be paid one time in advance for Five (05) years. for 5 years of the E-waste Awareness Session included.

### Annexure 1

### List of Positive E-waste & Plastic Waste items (Scrap/Non-Working)

The FIRST PARTY shall pay to the SECOND PARTY for the following items listed below :

Particulars	Weight	Price Paid by Hulladek Recycling to Raidighi College (Inclusive of all applicable taxes)
Electronic Items (Scrap/Non-Working)	In Kgs.	
Mixed IT scrap lot	On Actuals	₹ 20.00 / kgs
Mixed Electricals	On Actuals	₹ 35.00 / kgs
UPS Battery	On Actuals	₹ 70.00 /kgs
Industrial Battery	On actuals	₹ 80.00 / kg
Copper Cables	On actuals	₹ 60.00 / kg
Aluminum Cables	On actuals	₹ 50.00 / kg
Air Conditioners	On actuals	₹ 50.00 / kg
Cables	On actuals	₹ 8.00 / kg
Motors (AC/DC)	On actuals	₹ 50.00 / kg
Small Miscellaneous & Consumer Items	On actuals	₹ 10.00 / kg

"First Party"

M/s. Hulladek Recycling Private Limited



"Second Party"

Raidighi College

Authorized Signatory  
Dr. Sasabindu Jana (Principal)  
DR SASABINDU JANA  
PRINCIPAL  
RAIDIGHI COLLEGE  
Raidighi, 24 Pgs(S), Pin-743383

GSTIN: 19AADCH4384E1Z1  
CPCB REGISTRATION NO.: B-29016(12)/(PRO)/18/WM-III Division



Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



**RAIDIGHI COLLEGE**  
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☎ 1800-212-7880 | ☎ 9903028800  
🌐 [www.hulladek.in](http://www.hulladek.in) | 📧 [help@hulladek.re](mailto:help@hulladek.re)

**Hulladek**  
Hungry for Waste

The SECOND PARTY shall pay to the FIRST PARTY for the following items listed below :

Lighting Equipment (Scrap/Non-Working)				Price Charged by Hulladek Recycling To Raidighi College
Particulars		Weight/piece	Number of Pieces/kg	(Inclusive of all applicable taxes)
Item	Description			
Tubelight	Big	0.030 kgs	34 units	₹ 40.00 / kg
Tubelight	Small	0.020 kgs	50 units	₹ 40.00 / kg
PI bulb		0.025 kgs	40 units	₹ 40.00 / kg
Lamps		0.050 kgs	20 units	₹ 40.00 / kg
CFL bulb		0.023 kgs	44 units	₹ 40.00 / kg
Incandescent bulb	AAA battery	0.011 kgs	91 units	₹ 40.00 / kg
Pencil battery	AA battery	0.023 kgs	44 units	₹ 40.00 / kg
Pencil battery	C battery	0.066 kgs	15 units	₹ 40.00 / kg

“First Party”

M/s. Hulladek Recycling Private Limited

Authorized Signatory  
(Mr. Nandan Mall)



“Second Party”

Raidighi College

Authorized Signatory  
Dr. Sasabindu Jana (Principal)  
DR SASABINDU JANA  
PRINCIPAL  
RAIDIGHI COLLEGE  
Raidighi, 24 Pgs(S), Pin-743383

GSTIN: 19AADCH4384E1Z1  
CPCB REGISTRATION NO.: B-29016(12)/(PRO)/18/WM-III Division



Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



## MEMORANDUM OF UNDERSTANDING

RAIDIGHI COLLEGE, SOUTH 24 PARGANAS, W.B.

&

HUMAN WAVE, MANKUNDU, HOOGHLY, W.B.

PURPOSE OF MOU: THE SUSTAINABLE METHODS OF WASTE MANAGEMENT AND GREEN COLLEGE CAMPUS

TENURE OF THE AGREEMENT: THREE YEARS (2022-25)

PLACE: Raidighi College, South 24 Parganas, West Bengal-743383

Date of Implementation: 31st MAY, 2022

The general objective of the MEMORANDUM OF UNDERSTANDING (MOU) is to organize a proper system associated with dispose, reduce, reuse of waste and prevent pollution in Campus environment. The daily footfall in Raidighi College is about three thousand where people are coming from different corners of the district of South 24 Parganas and outside also. Raidighi College believes that modern waste management are geared towards sustainability. The purpose of the MEMORANDUM OF UNDERSTANDING is to address multiple strategies of waste management with the help of stakeholders of this educational institution outsourcing the expertise of a non government organization with proper experience and capacity of certification.

Here thus RAIDIGHI COLLEGE, South 24 Parganas, West Bengal and HUMAN WAVE, Mankundu, Hooghly, have agreed that in support of their mutual interest in field of environmental sustainability and pollution free community.

The two organizations will-

- Cooperation in the exchange of ideas and strategies for overall waste management and environmental awareness in and around Raidighi College campus.
- Promote appropriate procedures of waste disposal, collection, reuse and dispersal from all buildings of Raidighi College and campus ground.
- Support waste management related promotional and awareness activities for different layers of stakeholders within College campus.
- Certification of college endeavours to attain and support the principles of environmental consciousness among students and associated community after appraisal of practices.



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



E) Organize participative programs with collaborative understanding in and around any environmental hazards, if any.

Activity Initiation according to rules of Priority Under point A & B

Plastic collection & accumulation will be done by the College Authority within the campus in 3 particular preinstalled site & total plastic hazard mass removed from the campus by Human Wave Society in every 21 days. A register will be maintained by both sides regularly for further data analysis.



Activity Initiation according to rules of Priority Under point A & C

A survey and regular observation will be conducted by both sides mutually against plastic & petroleum hazard dumping near Neighbouring riverbank for sustainable mangrove vegetation improvement and stunting of erosion.

A multilayered campaigning will be established in near future for prevent of disaster from river to country side.

Activity Initiation according to rules of Priority Under point D & E

Several practical demonstration, whispering campaigning, pilot project, award ceremony, competitive discussion, etc will be conducted jointly for future sustainability as well as Establishment of Concept.



The aim of the MEMORANDUM OF UNDERSTANDING shall be to achieve a proper healthy and pollution free campus and neighbouring Society with overall motivation for our students who will be the responsible citizens of 21st Century's India.



For HUMAN WAVE

*Tapas Kumar Sur*  
Secretary 31/05/22

*[Signature]* 31/05/22  
DR. SASABINDU JANA  
Principal  
Raidighi College  
Raidighi, South 24 Parganas  
West Bengal-743383

TAPAS KUMAR SUR  
Secretary,  
Human Wave  
Mankundu, Hooghly

DR. SASABINDU JANA  
Principal  
RAIDIGHI COLLEGE  
South 24 Pgs.



*[Signature]*  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



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**SONAR BHARAT ENVIRONMENT & ECOLOGY (P) LIMITED**  
(ISO 9001:2015)

Registered Office: Flat No. 1A N368, Baishnabghata Patuli,  
Kolkata - 700 094

Head Office: 35, Chitaranjan Avenue, 3<sup>rd</sup> Floor Kolkata - 700 012  
Phone : (91-33) 2211 -3034/0397, 033 4003 1179,  
E-mail : [sonarbharat2010@gmail.com](mailto:sonarbharat2010@gmail.com)  
[sonarbharat2017@gmail.com](mailto:sonarbharat2017@gmail.com)

Date : 27.01.2023

**WORK COMPLETION REPORT**

- Name of Work Project : Energy Audit of Raidighi College  
P.O. Raidighi, South 24 Parganas – 743 383.
- Duration of Audit : From 04/01/2023 to 06/01/2023
- Period of Audit : 2021-2022
- Sonar Bharat Environment & Ecology Pvt. Ltd. has conducted Energy Audit in the campus of Raidighi College, P.O. Raidighi, South 24 Parganas – 743 383, West Bengal.
- With the cooperation of faculty members and other staff audit has been successfully completed.

*Suvra Majumdar*

- Suvra Majumdar  
BEE-EA-5723, AEA-0221  
Chartered Engineer (India) – Electrical Engineering Div.



*Parimal Sarkar*

Parimal Sarkar  
Director



*[Signature]*  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



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E-mail : [sonarbharat2010@gmail.com](mailto:sonarbharat2010@gmail.com)  
[sonarbharat2017@gmail.com](mailto:sonarbharat2017@gmail.com)


Date : 24.01.2023

**WORK COMPLETION REPORT**

- Name of Work Project : Environmental Monitoring of Raidighi College  
P.O. Raidighi, South 24 Parganas – 743 383.
- Duration of Audit : From 10/01/2023 to 11.01.2023
- Period of Audit : 2021-2022
- Sonar Bharat Environment & Ecology Pvt. Ltd. has conducted Environmental Monitoring in the campus of Raidighi College, P.O. Raidighi, South 24 Parganas – 743 383, West Bengal.
- With the cooperation of faculty members and other staff audit has been successfully completed.

  
Subrata Desarkar  
(Auditor)



  
Parimal Sarkar  
(Director)



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



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E-mail : [sonarbharat2010@gmail.com](mailto:sonarbharat2010@gmail.com)

[sonarbharat2017@gmail.com](mailto:sonarbharat2017@gmail.com)

Date : 03.02.2023

**WORK COMPLETION REPORT**

- Name of Work Project : Green Audit of Raidighi College  
P.O. Raidighi, South 24 Parganas – 743 383.
- Duration of Audit : From 16.01.2023 to 18.01.2023
- Period of Audit : 2021-2022
- Sonar Bharat Environment & Ecology Pvt. Ltd. has conducted Green Audit in the campus of Raidighi College, P.O. Raidighi, South 24 Parganas – 743 383, West Bengal.
- With the cooperation of faculty members and other staff audit has been successfully completed.

*Subrata Desarkar*

Subrata Desarkar  
(Auditor)



*Parimal Sarkar*

Parimal Sarkar  
(Director)



*Dr. Sasabindu Jana*  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE





**ENVIRONMENT FRIENDLY EQUIPMENTS**

**LED LIGHTS: SAMPLE PHOTOGRAPHS**



LED lights and energy efficient AC in Offices



LED lights in Classrooms



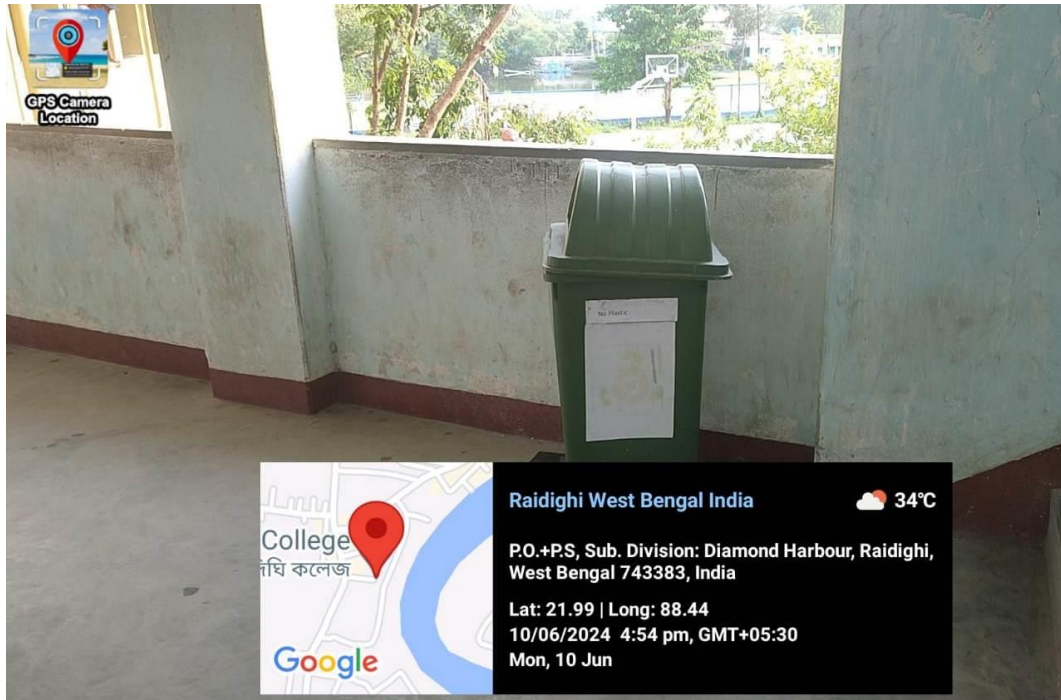
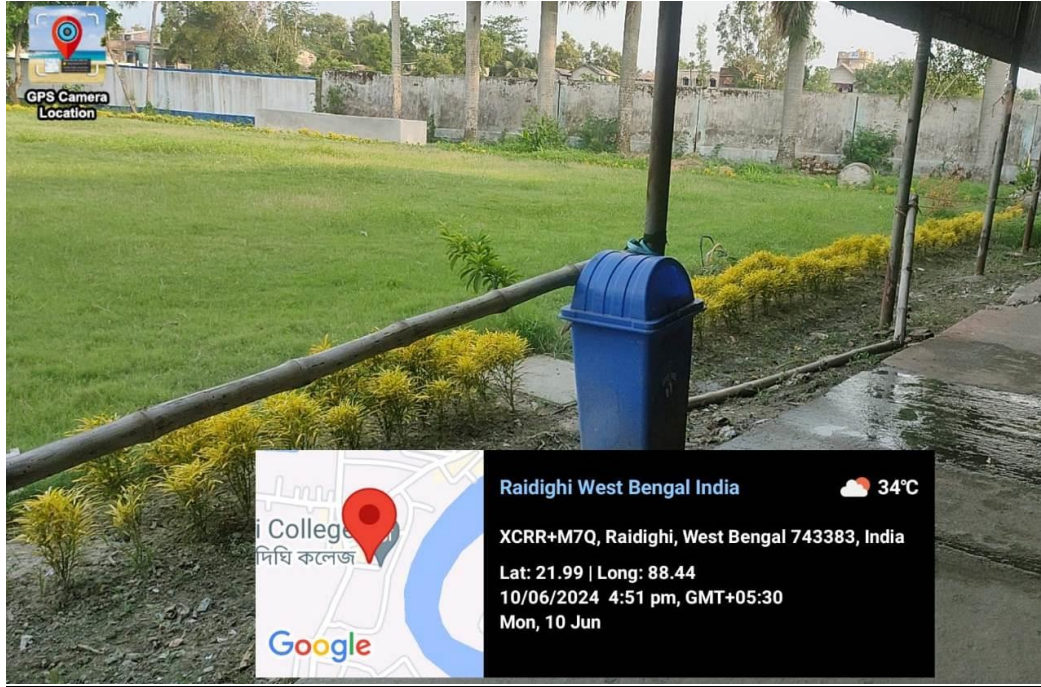
  
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**WASTE MANAGEMENT SYSTEM: SAMPLE PHOTOGRAPHS**



  
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Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



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## RAINWATER HARVESTING: SAMPLE PHOTOGRAPHS



P.O.+P.S, Sub. Division: Diamond Harbour, Raidighi, West Bengal 743383, India


Latitude  
21.9913466°

Longitude  
88.4411291°

Local 11:23:52 AM  
GMT 05:53:52 AM

Altitude 7.69 meters  
Friday, 03.02.2023



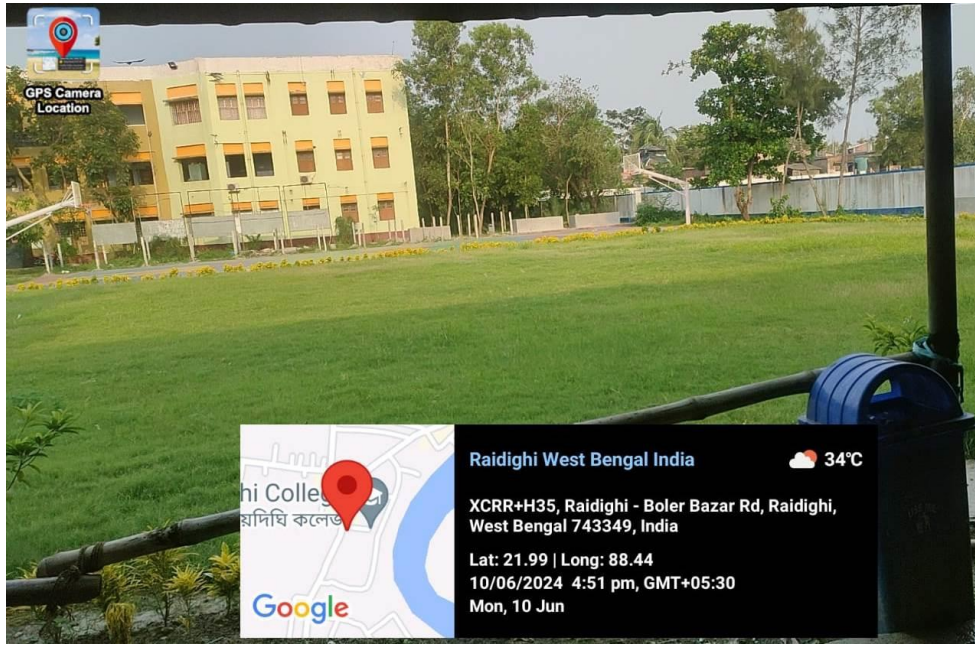
  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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### GREEN CAMPUS: SAMPLE PHOTOGRAPHS



Green Campus



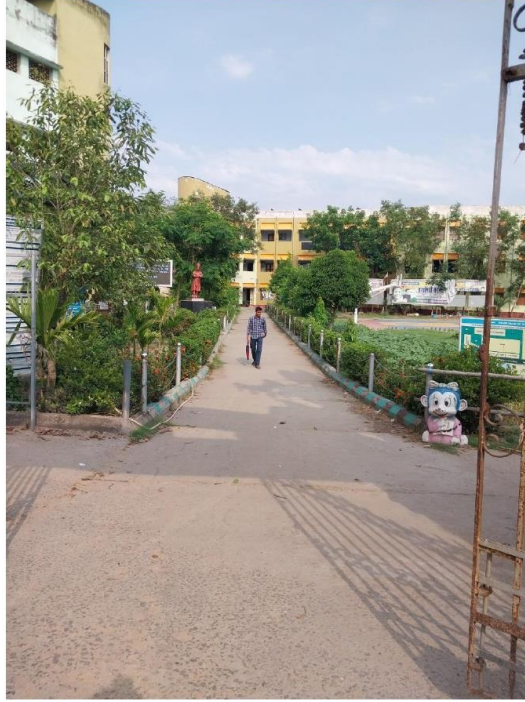
Garden



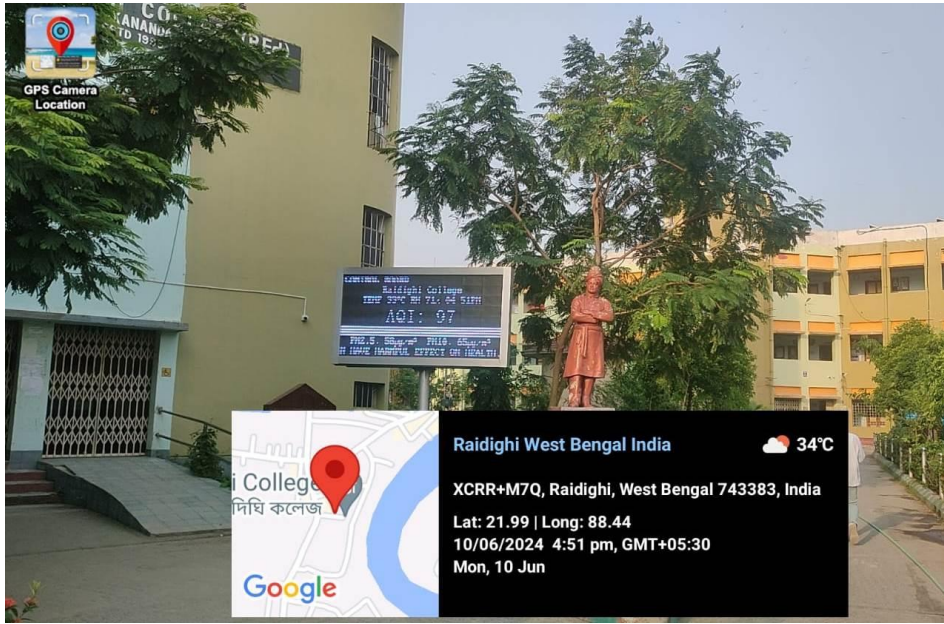
  
Dr. Sasabindu Jana  
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Pedestrian friendly pathways, plastic free zone



**Pollution Measuring Board**



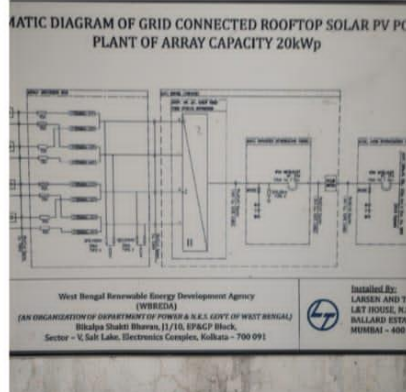
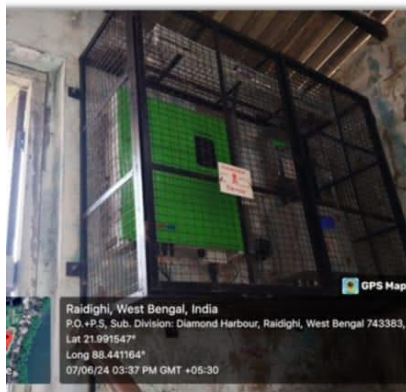
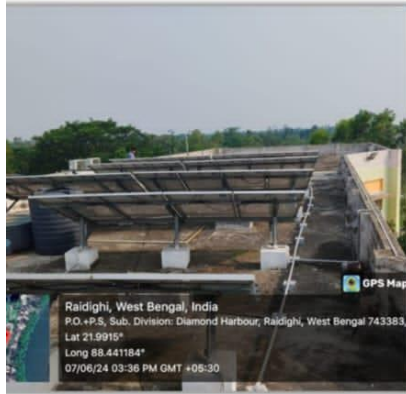
  
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**INSTALLED SOLAR PANEL AT RAIDIGHI COLLEGE**



  
Dr. Sasabindu Jana  
Principal  
RAIDIGHI COLLEGE



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## LESSER POWER CONSUMPTION DUE TO GREEN INITIATIVES: SAMPLE ELECTRICITY BILLS

(A Government of West Bengal Enterprise)  
 24-PARGANAS (SOUTH) REGIONAL OFFICE  
 1ST FLOOR PADMAPUR MORE, KULPI ROAD BARUIPUR, KOLKATA, PIN- 700144  
 Phone: 03324230493, Email: CM.24PSDC@GMAIL.COM, CORPORATE TAN:CALW02888E



Consumer ID:900001399 Installation No:21869693 RAIDIGHI COLLEGE PO-RAIDIGHI Pin - 743383 Country:India		Invoice No.:625000145665 Billing Date:01.08.2021 Billing Cycle:JUL,2021 Present Reading Date:01.08.2021 Previous Reading Date:01.07.2021 Service At:PO-RAIDIGHI, BILL No:000900001399 Account Reference No:24485030 Consumer No: 000900001399		Tariff Code:C-ID Supply Voltage (KV):0.40 Contract Demand (KVA):113.00 FF:0.9945 LF:1.1045 Nature Of Industry:COMMERCIAL Pan No:AAALR0557K							
Meter No	GL5B0021	Type	W	MC	1	MF	1.000 00	Loss Factor	1	Net MF	1
Meter Readings		KVAH			KWH			KVA / Dc. & Time of MD			
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak		
Present	68173.120			68016.720			5.360				
Previous	67383.860			67231.820			26.07.21				
							14:00:00				
Reading Advance * Net MF		KVAH			KWH			KVA			
	789.260	0.000	0.000	784.900	0.000	0.000	5.360	0.000	0.000		
Energy Charge		Normal	Peak	Off-peak	Energy/Min Charge (Rs)		4889.93				
Rate	EC (p/KWH)	623			Rebate on EC (Rs.)		0.00				
	P.F.Reb(-)/Sur(+)(%onEC)	-5.00			Addl.EC (Rs.)		0.00				
	L.F.Reb(-) (p/KWH)				Total EC (Rs.)		4889.93				
Chargeable	KWH	784.900	0.00	0.00	*Demand Charge		24480.00				
IEC Amount	Rs.	4889.9300	0.00	0.00	Addl.DC (Rs.)		0.00				
Chargeable	PF	0.9945			Total DC (Rs.)		24480.00				
FF	Rs.	-244.50			Reb on DC						
Demand Charge		Rate		Normal (Rs/KVA/month)		255.00					
Chargeable		Normal KVA		96.00							
Addl.KVA		0.00									
Rebate(-)/Surcharge(+) (Rs.)											
LF Reb(-)/Sur(+)										0.00	
FF Reb(-)/Sur(+)										-244.50	
MCA Charges @23 Paise/KWH										180.53	
###Government subsidy											
## Other Arrear Charges										0.00	
Electricity Duty											
EDM Units	00.00	%On Net Charge	15.00	Net ED (Rs.)	3626.61						
EDDM Units	784.90	%On Net charge	12.50	Exemption (Rs.)							
EDFUR Units	00.00	%On Net charge	5.00	#Arrear ED (Rs.)	0.00						
ED DDM Units	00.00	%On Net charge	15.00	ED Adjust (Rs)							
						Total ED (Rs.)		3626.61			
Other Charges & Outstanding (Rs.)											
Rental of Meter/Meters	1200.00	Amt. For Current Month (Rs)	34132.57								
Transformer Rental + GST	0.00	Due Date :	11.08.2021								
E.C adjustment		Outstanding Amount (Rs.): #	0.00								
D.C adjustment		Adjustment Amount (Rs) :	-0.15								
Other adjustment		Adjustment Amount1 (Rs) : ~	0.00								
LFSC Charges	0.00	Payable by DueDate (Rs):	33840.00								
Adjustments	-0.15	Payable After DueDate (Rs):	34133.00								
Timely Payment Rebate	-293.06	Payable by DueDate									
-Addl LF Rebate for Timely Payment	0.00	Through NEFT/RTGS (RS) :	33550.00								
Total Timely Payment Rebate	-293.06										
Amount Before Due Date (Rs)	Thirty three thousand eight hundred forty rupees										
Amount After Due date (Rs)	Thirty four thousand one hundred thirty three rupees										
Messages to consumer	Register your mobile No. and email Id at <a href="http://www.wbsecl.in">www.wbsecl.in</a> to get Billing and Payment info.										
		Payment may be made using RTGS/NEFT in your exclusive a/c no: WB90000139921869693 with IFSC code ICIC0000104									
		*Demand charge includes interruption benefit of 00:00:00 hours									

Superintending Engineer/Divisional Engineer

For and on behalf of West Bengal State Electricity Distribution Company Limited

### Electricity Bill from July 2021



Dr. Sasabindu Jana  
 PRINCIPAL  
 RAIDIGHI COLLEGE



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(A Government of West Bengal Enterprise)  
24-PARGANAS (SOUTH) REGIONAL OFFICE

1ST FLOOR PADMAKUR MORE, KULPEI ROAD BARUIPUR, KOLKATA, PIN- 700144  
Phone: 03324230493, Email: [sm.south24pgs@wbsecl.in](mailto:sm.south24pgs@wbsecl.in), TAN:CALW05053G



Consumer ID:900001399 Installation No:21869693 RAIDIGHI COLLEGE PO-RAIDIGHI Pin - 743383 Country:India		Invoice No.:644000171664 Billing Date:05.06.2024 Billing Cycle:MAY,2024 Present Reading Date:01.06.2024 Previous Reading Date:01.05.2024 Service At:PO-RAIDIGHI, BILL No:000900001399 Account Reference No:24485030 Consumer No: 000900001399		Tariff Code:C-ID Supply Voltage(KV):0.40 Contract Demand(KVA):113.00 Solar PV Capacity(Kwp):20.15 FF:0.9865 IFS:4.2960 Nature of industry: COMMERCIAL Pan No:AAALR0557K								
Meter No	SL5E0270	Type	W	MC	1	MF	1.0000	Loss Factor	1	Net MF	1.00	
Meter Readings		KVAH			KWH			KVA / Dc. & Time of MD				
Time	Normal	Peak	Off-peak	Normal	Peak	Off-peak	Normal	Peak	Off-peak			
Present	82904.000			80430.500			26.800					
Previous	79834.000			77402.000								
Present (Inj)	8550.000			7946.000			10.240					
Previous (Inj)	8248.000			7855.000								
Reading Advance * Net MF		KVAH			KWH			KVA				
Inj RD. ADV. * Net MF	3070.000	0.000	0.000	3028.500	0.000	0.000	26.800	0.000	0.000			
Inj RD. ADV. * Net MF	302.000	0.000	0.000	91.000	0.000	0.000	10.240	0.000	0.000			
c/p C.O. KWH	0.000	Inj KWH	91.000	Exc. Inj. KWH	0.000	c/l C.O. KWH	0.000					
Energy Charge		Normal			Peak			Off-peak			Energy/Min Charge(Rs)	
Rate	EC(p/KWH)	631									18535.63	
	F.F.Reb(-)/Sur(+)(%onEC)	-4.00									Rebate on EC(Rs.)	
	L.F.Reb(-)/Sur(+)(p/KWH)										0.00	
Chargeable	KWH	2937.500			0.00			0.00			Addl.EC(Rs.)	
!EC Amount	Rs.	18535.6300			0.00			0.00			Total EC(Rs.)	
Chargeable	PF	0.9865									18535.63	
FF	Rs.	-741.43										
Demand Charge		Normal (Rs/KVA/month)			270.00			*Demand Charge			25920.00	
Chargeable	Normal KVA	96.00						Addl.DC(Rs.)			0.00	
	Addl.KVA							Total DC(Rs.)			25920.00	
Rebate(-)/Surcharge(+) (Rs.)								Reb on DC(on TP)				
LF Reb(-)/Sur(+)											0.00	
FF Reb(-)/Sur(+)											-741.43	
MCA Charges @0.00 Paise/KWH											0.00	
##Government subsidy												
## Other Arrear Charges											0.00	
Electricity Duty												
EDIM Units	00.00	%on Net Charge			0.00			Net ED(Rs.)			6491.56	
EDDM Units	2937.50	%on Net charge			15.00			Exemption (Rs.)				
EDFUR Units	00.00	%on Net charge			0.00			#Arrear ED(Rs.)			0.00	
EDDM/OTH Units	00.00	%on Net charge			0.00			ED Adjust (Rs)				
								Total ED(Rs.)			6491.56	
Other Charges & Outstanding (Rs.)												
Rental of Meter/Meters		1200.00			Amt. For Current Month(Rs)			51405.78				
Transformer Rental + GST		0.00			Due Date :			18.06.2024				
E.C adjustment					Outstanding Amount (Rs.): #			0.00				
D.C adjustment					Adjustment Amount (Rs) :			-18253.59				
Other adjustment					Adjustment Amount1 (Rs) : ^^			0.00				
LFSC Charges		0.00			Payable by DueDate(Rs):			32716.00				
Adjustments		-18253.59			Payable After DueDate(Rs):			33153.00				
Timely Payment Rebate		-437.14			Payable by DueDate							
-Addl LF Rebate for Timely Payment		0.00			Through NEFT/RTGS (Rs) :			32396.00				
Total Timely Payment Rebate		-437.14										
Amount Before Due Date(Rs)		Thirty two thousand seven hundred sixteen rupees										
Amount After Due date(Rs)		Thirty three thousand one hundred fifty three rupees										
Messages to consumer		Register your mobile No. and email Id at <a href="http://www.wbsecl.in">www.wbsecl.in</a> to get Billing and Payment info.										
Payment may be made using RTGS/NEFT in your exclusive a/c no: WBB9000013999693 with IFSC ICIC000104 or SBIN0004266												
Users of PMS portal shall replace first three characters of the a/c no. by "WBE" in place of "WBB" and pay using IFSC ICIC0000104 only												
Outstanding Dues :NIL												
*Demand Charge includes interruption benefit of 00:00:00 hours												

## Electricity Bill from May 2024



Dr. Sasabindu Jana  
Principal  
RAIDIGHI COLLEGE





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**DEVASTATION BY AMPHAN & POST-AMPHAN GREEN REJUVENATION**



**Photographs of the devastation caused by Amphan cyclone in 2020**



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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**Hostel beautification after Amphan**



  
Dr. Sasabindu Jana  
Principal  
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Xcrr+J4W Collage More, 330, Raidighi - Boler Bazar Rd, Raidighi, West Bengal 743383, India

Latitude  
21.99153567°

Longitude  
88.44047843°

Local 10:15:49 AM  
GMT 04:45:49 AM

Altitude 5 meters  
Wednesday, 12.06.2024

## Our Green Campus at present



XCRR+H35, Raidighi - Boler Bazar Rd, Raidighi, West Bengal 743349, India

Latitude  
21.99123442°

Longitude  
88.44039433°

Local 10:17:20 AM  
GMT 04:47:20 AM

Altitude 5 meters  
Wednesday, 12.06.2024



  
Dr. Sasabindu Jana  
Principal  
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**A FEW ENVIRONMENT FRIENDLY SIGNBOARDS IN DISPLAY**



  
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Principal  
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Dr. Sasabindu Jana  
Principal  
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Email – [raidighicollege95@gmail.com](mailto:raidighicollege95@gmail.com)



## MEDICINAL PLANT GARDEN: CURATED AND MAINTAINED BY THE DEPARTMENT OF BOTANY & THE GREEN CLUB



P.O.+P.S, Sub. Division: Diamond Harbour, Raidighi, West Bengal 743383, India

Latitude  
21.9915192°

Local 10:23:59 AM  
GMT 04:53:59 AM

Longitude  
88.44107354°

Altitude 6 meters  
Wednesday, 12.06.2024



XCCR+M7Q, Raidighi, West Bengal 743383, India

Latitude  
21.99166447°

Local 10:12:30 AM  
GMT 04:42:30 AM

Longitude  
88.44100119°

Altitude 6 meters  
Wednesday, 12.06.2024



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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**Leucas aspera (Dronapushpi)**

**Leucas aspera**  
Family- Lamiales

Antifungal, Anti-inflammatory, Antimicrobial, Prostaglandin inhibitory and antioxidant activities, Antinociceptive, antioxidant and cytotoxic activities of Leucas aspera root. Antidote to snakebite, in fever, headache and insect-stings, asthma, Earache and arthritic pain, one side headache, Skin diseases, ghibis tich and ringworm, Burning sensation and redness of eyes.

GPS Map  
Camera Lite

XCRR+M7Q, Raidighi, West Bengal 743383, India

Latitude	Longitude
21.99161274°	88.44082299°
Local 10:31:42 AM	Altitude 6 meters
GMT 05:01:42 AM	Wednesday, 12.06.2024



  
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Principal  
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## MUSHROOM CULTIVATION AS AN ENVIRONMENTAL PROJECT



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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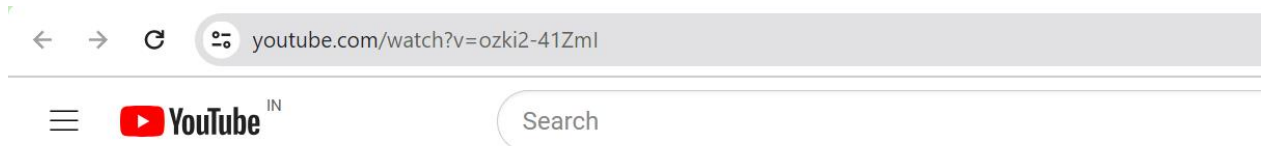
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## A FEW ENVIRONMENTAL OBSERVANCES



**Raidighi College**  
Presents

A Webinar Series  
on  
**"Sustainable Living"**

(A series of lectures defining sustainable lifestyle during the current pandemic era)

Organized by  
**Department of Chemistry**  
&  
**Department of Food & Nutrition**

### The Magical Mangroves: Biodiversity and Challenges (Webinar Series on Sustainable Living)



Raidighi College  
955 subscribers

Subscribe

38



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Principal  
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youtube.com/watch?v=Xe9\_qmjPTsI



Search



### World Environment Day and Community Outreach Programme by the Geography Department, Raidighi college



Raidighi College  
955 subscribers


Subscribe

13



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**Sunderban Divas**



  
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**Presentation of Wall Magazine (2022-23):**  
**by the Department of Botany, Raidighi College [30.01.23]**



  
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Principal  
PRINCIPAL  
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**Raidighi College**  
P.O. & P.S. -Raidighi, Dist-24 parganas, Pin-743383  
**Inter College Photography Competition on**

**'Forests and Health'**  
to commemorate International Day of Forest  
Organized by  
**Department of Botany**  
In collaboration with  
**IQAC, Raidighi College**  
Modalities of Photography competition

1. Participants for photography competition can submit their entries under three categories namely **Mangrove forest & vegetation, Wild life, Landscape** through e-mail.
2. Please submit your entries in this email address [Botany@raidighicollege.org.in](mailto:Botany@raidighicollege.org.in) within 26/03/2023
3. Each participant can submit two unrelated photographs under single/multiple categories.
4. Photograph should be in **JPEG format**.
5. Mention your salutation, name, department, Semester, Institution (Only UG Students) and also specify the name of the category you are submitting your entry in the e-mail.
6. Decision taken by the judge will be final and shall be accepted by all.
7. Violation of any of the above mentioned rules will be considered as cancellation of the candidature.
8. **1st, 2nd & 3rd winners** will be awarded and all the participants will be given the participation certificates.

**DEPARTMENT OF BOTANY**  
HAPPY INTERNATIONAL DAY OF FOREST (21ST MARCH)  
Theme For 2023 - **FORESTS AND HEALTH**

**FORESTS PROVIDE MEANINGFUL WORK  
GIVE WILD LIFE A PLACE TO CALL HOME** **IMPROVE YOUR HEALTH**

**IMPROVE YOUR MENTAL HEALTH  
REGULATE TEMPERATURES** **COMBAT CLIMATE CHANGE**

**MAKE OUR WORLD A BETTER PLACE**

**PROTECT AGAINST EXTREME WEATHER AND PROVIDES DELICIOUS NUTRITIOUS FOOD**

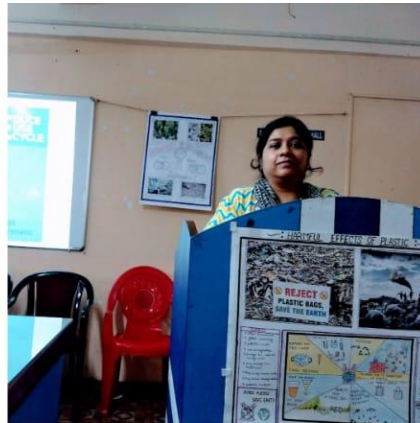
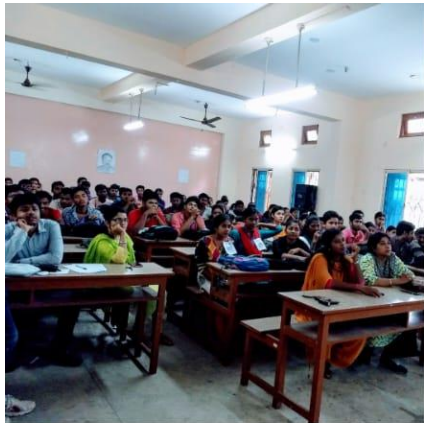


  
Dr. Sasabindu Jana  
Principal  
**RAIDIGHI COLLEGE**



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Email – [raidighicollege95@gmail.com](mailto:raidighicollege95@gmail.com)



Latitude: 21°59'30"  
Longitude: 88°26'28"  
Elevation: -37.53m  
Accuracy: 15.5m  
Time: 27-09-2019 14:42  
Note: gggkjhjjj




  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE





## A FEW ENVIRONMENTAL REPORTS

### Green Report

LESS TOXICITY MORE SUSTAINABILITY it is the prime objective of Raidighi College green club. Every step or change in our observation & activity reflected our long-term sustainable beneficiary views. We have collaborative practice under several departments and stronghold on potential professionals for improvement our achievements and destination towards the sustainability.

In Shorts our work plan----

#### Section A

Hazard free campus:

Plastic And other non-degradable wastes are collected in a particular restricted sterile zone and dispatched regularly through a Memorandum of understanding with a recognized NGO named Human Wave.

Every wet waste and organic debris are deposited in compost preparation pit with well-maintained facility like biodegrade culture, structural satisfaction of pit, regular aeration & watering etc.

No burning of weeds or other waste is not allowed in campus, only ideal for bacterial media in compost pit.

Weeds remover or herbicide chemicals are strictly prohibited here. Due to dangerous toxicity of herbicides, this type of chemicals long durable and main agent of ecological disaster of our natural biodiversity. There is so many research paper highlighted in our regular discussion among different stakeholders. We are believer of “not to destroy our natural herbs and grasses by using chemical spray on road side or agricultural fields”.

#### Section B

Energy conservation:

In this head line a large achievement reached, roof top solar panel installation completed. Now we are a clean electricity generator and transmission unit of our power grid.

Suitable electricity consumption unit's modification and modulation are ongoing regular basis with permeable funding allocation. Quarterly consumption rate analysis and effective modification maintained regularly by responsible subcommittee with valuable discussion among us.





**Section C**

Rain water Harvesting:

Proper ground water recharge through rainwater harvesting is not appropriate project in our location. But salinity reduction through rain water utilization is better for us. We are located in a saline river bank and more or less saline water submerged condition appears in every 5 to 10 years. So, our main objective restoration of soil properties by removing salinity through rain water washing. A 5000-litter water tank used as reservoir of rain water and different way out for toilet washing, drainage cleaning, supply additional sweet water to the pond for less salinity etc.

**Section D:**

Plantation:

Huge potential sector, there are so many steps taken time to time, in shorts....

Fruit Plants propagation.... Every seminar, Meeting or discussion with recourses person, guest and other important personals are welcomed by a token of gift of Fruit plants from our end.

Plantation and adoption of fruit plant in our campus achieved great tempo as a great ceremony.

Environmental studies programme has regular project outcome as protection of biodiversity and plantation of consumable perennial fruit plants in local area. On the basis of Last discussion, 1000 deshi Khejur Plantation per session programme approved by our administration to prevent indigenous food product adulteration in sundarban area. It may be helpful for pure Jiggery (Khejur gur, pataly) availability due to huge resources generate programme.

Herbs and important medicinal weeds are tagged in our campus for better settlement of this kind of highly valuable, multirole, medicinal and essential cattle fodder for disease resistance and milk quality improvement, ethno botanical importance and accessibility, etc.

**Section E:**

Sustainable Development with Plant science (SDWP):

In continuation of Sustainable Development with Plant Science, Phase III, Green club prepared a work plan collaboration With NSS unit, Botany Department and some Non-government Organization of our locals. Mangrove study and focus on its ecological importance, green compost, organic farming, energy plantation, motivational workshop, practical and economic workshop, awareness programme, etc included in session 2022-23.

**Section F:**

Compost Preparation Pilot Project:

It's a very potential upcoming sustainable economic backbone restructuring sector of Indian agricultural sector. Economic pressure of import duty of synthetic fertilizer causes the rise of exponential expenditure in agriculture. Another important factor is bioaccumulation of toxicity





in everywhere. After long interval we finally start minimum cost compost preparation and demonstration of bio compost in our campus. Every step and regulation of pit always open to our student for practical approach.

**Section G:**

Medicinal Plant Garden:

Pre-established, well designed and more than 100 species of medicinal plants are growing in our campus. Regular monitoring and demonstration of utility does occur. According to B.Sc. Botany syllabus, one section of this garden arranged in Bentham Hooker classification for spot identification. Another section maintained for horticultural and beautification in front of garden. A Woman health related section is ongoing for ethno medicinal knowledge improvement special reference to our girl's student's health benefit. All-important plants are identified and tagged with their formulation reference.

**Section H:**

Pisciculture unit:

We have about 40 decimal semi saline sweet water pond in our campus. Different mix culture fish are grown under natural farming procedure jointly by the college and responsible fisherman of locals. Department of Zoology are operating regularly with our students and its purely educational purpose.

We hope Professional touches of expatriation and Green Audit always move us to reach goal of sustainability to our futuristic achievements.



  
**Principal**  
**Raidighi College**  
PRINCIPAL  
RAIDIGHI COLLEGE  
SOUTH 24 PARGANAS



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



### Online students' awareness quiz on the occasion of World Water Day 22/3/23

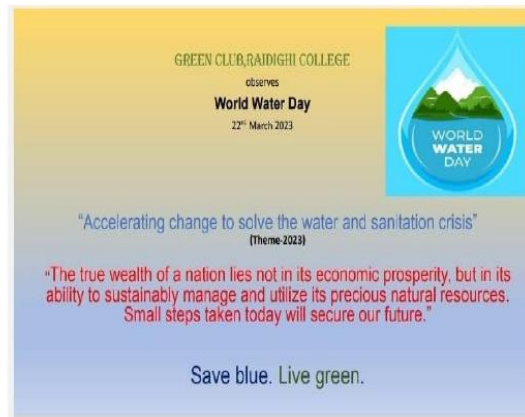
In a refreshing confluence of environmental consciousness and digital engagement, Raidighi College's Green Club and Seminar/Webinar Coordination Committee joined forces to host a unique online students' awareness quiz on World Water Day, March 22nd, 2023. The virtual platform buzzed with eager participants, their minds brimming with knowledge about this precious resource.

Interactive questions spanning the gamut of water conservation, pollution challenges, and sustainable practices kept the students on their toes. From identifying water-guzzling household habits to brainstorming innovative solutions for rainwater harvesting, the quiz ignited a spirit of responsibility and creative problem-solving among the participants.

As the winners were declared, a wave of excitement washed over the virtual space. But the true reward went beyond mere competition. Each participant received a certificate, a testament to their commitment to learning and their contribution to raising awareness about water's critical role in our lives.


This online quiz transcended the limitations of physical space, bringing together students from diverse backgrounds under the common banner of environmental stewardship. It served as a gentle nudge towards positive action, reminding everyone that even small changes in our daily routines can have a significant impact on the future of our planet's most precious resource.

The resounding success of this initiative solidified the Green Club and Seminar/Webinar Coordination Committee's dedication to fostering environmental consciousness within the Raidighi College community. This online quiz was not just a test of knowledge; it was a springboard for a generation to embrace water conservation as a way of life.



<https://forms.gle/jqFXac6sjy3J3bHV7>



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE



### World Environment Day

Sunlight dappled through Raidighi College's leafy canopy as the Green Club and NSS joined hands on World Environment Day to weave a verdant legacy. Laughter mixed with the earthy scent of freshly dug soil as seven or eight saplings, chosen for their resilience and future shade, were nestled into the campus grounds. Each shovelful of earth was a silent promise to nurture life, a gesture of defiance against environmental apathy.

The activity transcended mere symbolism. Students' faces flushed with purpose as they learned proper planting techniques, understanding the delicate dance between root and soil. The air buzzed with whispered promises whispered to each sapling - promises of sunlit branches cradling future generations, promises of birdsong and whispered secrets in the breeze.

But the day wasn't just about planting; it was about fostering a community of environmental consciousness. Informative posters adorned the campus, each a vibrant call to action against plastic pollution and deforestation. Interactive quizzes engaged students, testing their knowledge about sustainable practices and sparking lively discussions about eco-friendly alternatives.

As the day waned, a sense of shared accomplishment echoed through the campus. The saplings, bathed in the golden glow of the setting sun, stood as tangible symbols of hope, testaments to the collective power of even small actions. Raidighi College, its grounds adorned with new life, had taken a step towards a greener future, proving that environmental stewardship begins not on grand stages, but in the heart of a college campus, nourished by the sweat and smiles of passionate students.





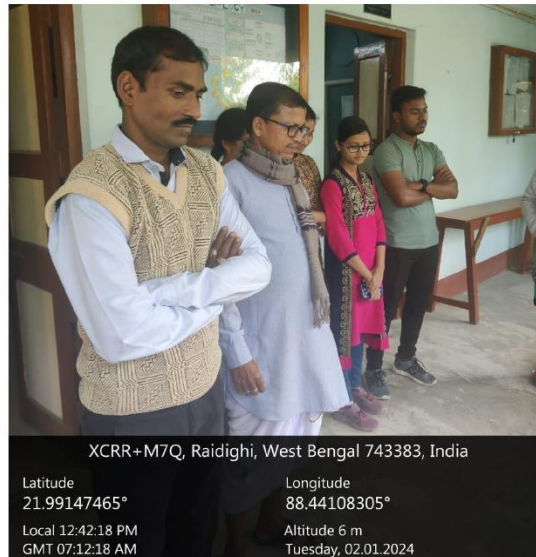
**Community Awareness Program on Biofuels and Antimicrobial Resistance by Department of Microbiology on 2nd January 2024**

The first rays of 2024 dawned on Raidighi College, not with fireworks, but with the embers of scientific awareness. The Department of Microbiology ignited a community outreach program, tackling two of humanity's pressing challenges: Biofuels and Antimicrobial Resistance.

Villagers of the surrounding areas flocked to the college grounds, their faces etched with curiosity. Expert faculty members transformed into knowledge weavers, unraveling the intricacies of biofuels – sustainable alternatives to fossil fuels derived from organic matter. Animated posters and interactive demonstrations brought science to life, showcasing the potential of bioethanol and biodiesel to power a greener future.

The afternoon shifted focus to a looming threat – Antimicrobial Resistance. In simple, yet impactful language, microbiologists explained how the misuse of antibiotics is creating superbugs, rendering existing drugs ineffective. Practical tips on responsible antibiotic use resonated with the audience, empowering them to become stewards of their own health and champions of global health security.

The Community Awareness Program on Biofuels and Antimicrobial Resistance wasn't just an academic exercise; it was a bridge between the ivory tower and the everyday lives of local communities. It sowed the seeds of environmental consciousness, encouraged responsible health practices, and left a lasting impression of science as a force for good, illuminating the path towards a more sustainable and healthier future.





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P.O. & P.S. -Raidighi, South 24 Parganas, Pin- 743383  
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### World Science Day for Peace and Development

10th November, 2021

Intra-College Slogan Writing Competition organized by  
Department of Microbiology & IQAC of Raidighi College  
~ An extension activity to spread community awareness

Celebrated every 10<sup>th</sup> November, "World Science Day for Peace and Development" highlights the significant role of science in society and the need to engage the wider public in discussions on emerging scientific issues. The year 2021 marks 20<sup>th</sup> edition of World Science Day for Peace and Development. With climate change becoming a serious threat to the lives of billions of people and the planet, UN will highlight this year the importance of "Building Climate-Ready Communities". The objective is to bring science closer to society by highlighting some key scientific aspects and possible solutions provided by science technology and innovation to some of the major global challenges society is facing today, for example, climate change and its solutions.

As instructed by Principal, Dr. Sasabindu Jana, Dept. of Microbiology and IQAC organised intra-college online slogan writing competition for all students of Science stream to spread awareness in our local community about this very relevant issue. Dr. Sisir Chatterjee, IQAC Coordinator and Associate Professor of Geography, acted as an impartial judge.



**ONLINE STUDENT COMPETITION**  
on  
**SLOGAN WRITING**  
organized by  
*Department of Microbiology & IQAC of Raidighi College*  
To observe  
**World Science Day for Peace and Development,**  
10th November, 2021

Event Theme: **Building Climate-Ready Communities**

Slogan Topic: **Climate Solutions through Science, Technology & Innovation**

All students of B.Sc. (Honours & General) stream of Raidighi College are welcome to participate. First 50 submissions will be considered.  
Submission is strictly through given link: <https://forms.gle/1SZihAPJrKNkJCSa7>



  
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Principal  
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**Please note~**

Slogan Topic: **Climate Solutions through Science, Technology & Innovation.**

Word limit of slogan: maximum 25 words [in English]

Image may be added/drawn.

Submission must be an **original** creation.

Max file size: 5 MB (upload as pdf only).

**Registration and submission are free and strictly on "first come first serve" basis.**

**Last date of submission: 20th Nov, 2021, till 10pm**

**Program Flyer**

**Submissions Received**

Email Address	Name of the Student	Stream	Semester	Subject(s)	Mobile number	Upload your slogan as pdf file of max 5 MB
provatigayen2001@gmail.com	Provati Gayen	B.Sc. Honours	Sem 5	Microbiology Hons	8827871741	<a href="https://drive.google.com/open?id=1f1G8epHLtjpl-s8P87mzVBPw0cZNVFQ">https://drive.google.com/open?id=1f1G8epHLtjpl-s8P87mzVBPw0cZNVFQ</a>
paramardas5@gmail.com	Parameswar Sardar	B.Sc. Honours	Sem 5	Microbiology Hons	7383989031	<a href="https://drive.google.com/open?id=1VvcVdQUJNIV-3uuPc_2SipP13o-g4Gm">https://drive.google.com/open?id=1VvcVdQUJNIV-3uuPc_2SipP13o-g4Gm</a>
gayenparboti@gmail.com	Parboti Gayen	B.Sc. Honours	Sem 5	Microbiology Hons	8827451060	<a href="https://drive.google.com/open?id=1v-yv6v5PAP2M-gLUQJyB8KjKvmsG">https://drive.google.com/open?id=1v-yv6v5PAP2M-gLUQJyB8KjKvmsG</a>
iananya1209@gmail.com	Ananya Tevani	B.Sc. Honours	Sem3	Food and Nutrition Hons	9883749147	<a href="https://drive.google.com/open?id=1p4kcuVt5TUDRLUyq3hCDEAdHhRvSplAa">https://drive.google.com/open?id=1p4kcuVt5TUDRLUyq3hCDEAdHhRvSplAa</a>
midyashishna06@gmail.com	Krishna Midya	B.Sc. Honours	Sem3	Food and Nutrition Hons	8328716636	<a href="https://drive.google.com/open?id=1zGwQdAw8L-zGMDVWYbcCmbMwZr-04BQ">https://drive.google.com/open?id=1zGwQdAw8L-zGMDVWYbcCmbMwZr-04BQ</a>
animeshshikari15@gmail.com	Animesh Shikari	B.Sc. Honours	Sem3	Physics Hons	8207221612	<a href="https://drive.google.com/open?id=1zFom9lQmLXhC1vAPvCqdtFdzs3x">https://drive.google.com/open?id=1zFom9lQmLXhC1vAPvCqdtFdzs3x</a>
manikajana2020@gmail.com	Manikajana	B.Sc. Honours	Sem3	Physics Hons	+918116732872	<a href="https://drive.google.com/open?id=1P0a3ovA7GZpVnNzozdHHUjF86isMg">https://drive.google.com/open?id=1P0a3ovA7GZpVnNzozdHHUjF86isMg</a>
iamanikamati10@gmail.com	Ankan Majhi	B.Sc. Honours	Sem3	Physics Hons (PHSA)	+918945820647	<a href="https://drive.google.com/open?id=1a4e2k0Egop7e7vQil_vhWVY2Vwe5LUGS">https://drive.google.com/open?id=1a4e2k0Egop7e7vQil_vhWVY2Vwe5LUGS</a>
nckmahji9@gmail.com	Mrganka Majhi	B.Sc. Honours	Sem 1	Botany, Zoology, Chemistry	8530815107	<a href="https://drive.google.com/open?id=1Z_LYN-E38d86CZDovONOUK4B656">https://drive.google.com/open?id=1Z_LYN-E38d86CZDovONOUK4B656</a>




1st: Animesh Shikari, Sem3, Physics Hons



2nd: Provati Gayen, Sem5, Microbiology Hons



  
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### National Pollution Control Day 2023

Raidighi College's campus vibrated with green energy as they celebrated National Pollution Control Day with a vibrant tree-planting drive. Armed with spades and saplings, students, faculty, and staff transformed barren patches into pockets of hope. Laughter mingled with the earthy scent of freshly turned soil as neem, peepal, and ashoka trees found their new homes. The air crackled with a renewed commitment to a cleaner future. Placards bearing slogans like "Plant a tree, breathe easy" and "Green lungs for a healthy nation" adorned the college, reminding everyone of their shared responsibility. As the sun dipped below the horizon, casting long shadows on the newly planted trees, a sense of accomplishment bloomed. Raidighi College had not just planted trees, they had planted seeds of environmental consciousness, nurturing the promise of a greener tomorrow.



  
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### Online students' awareness quiz on the occasion of World Water Day 22/3/23

In a refreshing confluence of environmental consciousness and digital engagement, Raidighi College's Green Club and Seminar/Webinar Coordination Committee joined forces to host a unique online students' awareness quiz on World Water Day, March 22nd, 2023. The virtual platform buzzed with eager participants, their minds brimming with knowledge about this precious resource.

Interactive questions spanning the gamut of water conservation, pollution challenges, and sustainable practices kept the students on their toes. From identifying water-guzzling household habits to brainstorming innovative solutions for rainwater harvesting, the quiz ignited a spirit of responsibility and creative problem-solving among the participants.

As the winners were declared, a wave of excitement washed over the virtual space. But the true reward went beyond mere competition. Each participant received a certificate, a testament to their commitment to learning and their contribution to raising awareness about water's critical role in our lives.


This online quiz transcended the limitations of physical space, bringing together students from diverse backgrounds under the common banner of environmental stewardship. It served as a gentle nudge towards positive action, reminding everyone that even small changes in our daily routines can have a significant impact on the future of our planet's most precious resource.

The resounding success of this initiative solidified the Green Club and Seminar/Webinar Coordination Committee's dedication to fostering environmental consciousness within the Raidighi College community. This online quiz was not just a test of knowledge; it was a springboard for a generation to embrace water conservation as a way of life.



<https://forms.gle/jqFXac6sjy3J3bHV7>



  
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## World Environment Day

Sunlight dappled through Raidighi College's leafy canopy as the Green Club and NSS joined hands on World Environment Day to weave a verdant legacy. Laughter mixed with the earthy scent of freshly dug soil as seven or eight saplings, chosen for their resilience and future shade, were nestled into the campus grounds. Each shovelful of earth was a silent promise to nurture life, a gesture of defiance against environmental apathy.

The activity transcended mere symbolism. Students' faces flushed with purpose as they learned proper planting techniques, understanding the delicate dance between root and soil. The air buzzed with whispered promises whispered to each sapling - promises of sunlit branches cradling future generations, promises of birdsong and whispered secrets in the breeze.

But the day wasn't just about planting; it was about fostering a community of environmental consciousness. Informative posters adorned the campus, each a vibrant call to action against plastic pollution and deforestation. Interactive quizzes engaged students, testing their knowledge about sustainable practices and sparking lively discussions about eco-friendly alternatives.

As the day waned, a sense of shared accomplishment echoed through the campus. The saplings, bathed in the golden glow of the setting sun, stood as tangible symbols of hope, testaments to the collective power of even small actions. Raidighi College, its grounds adorned with new life, had taken a step towards a greener future, proving that environmental stewardship begins not on grand stages, but in the heart of a college campus, nourished by the sweat and smiles of passionate students.





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## **A DETAILED REPORT ON THE MEDICINAL PLANT GARDEN**

In the heart of rural landscapes, where access to modern healthcare facilities might be limited, the significance of medicinal plant gardens within college campuses becomes paramount. These green sanctuaries not only enrich the aesthetic appeal of the campus but also serve as invaluable repositories of traditional healing knowledge. Nestled amidst the academic hustle, a medicinal plant garden stands as a living testament to the deep-rooted connection between nature and human health.

In rural settings where communities often rely on indigenous remedies, these gardens play a pivotal role in preserving and promoting traditional medicinal practices. Students, faculty, and local inhabitants alike benefit from the wealth of botanical resources, learning about the therapeutic properties of diverse plant species firsthand. Such gardens foster a sense of appreciation for biodiversity and environmental stewardship while empowering individuals with the tools to address healthcare needs sustainably.

Moreover, these green spaces serve as living laboratories for research and education, bridging the gap between theory and practice in fields such as botany, pharmacology, and ethnobotany. By cultivating medicinal plant gardens, rural colleges not only nurture a deeper understanding of traditional medicine but also contribute to community well-being and the conservation of plant biodiversity on a local and global scale.

### **Reporting of Raidighi college Medicinal Plant Garden Expansion as per meeting resolution dated 19<sup>th</sup> September 2019, towards Community Involvements.**

As per Raidighi College Green Club Resolution dated 19th September 2019, our medicinal plant garden, The Dr. Kalipada Biswas Medicinal Plant Garden, formerly known as the Raidighi College Medicinal Plant Garden, has expanded to include various poly-herbal formulations. These formulations are not only for identification purposes but also allow stakeholders to collect leaves and twigs for medicinal use. Below are details on some (26 species are allowed to public collection) important medicinal plants and their combinations


#### **1. Ashwagandha (*Withania somnifera*) (*Solanaceae*)**

**Uses:** Reduces stress, boosts energy levels, and improves concentration.

**Parts Used:** Roots, Leaves

**Details:** This adaptogenic herb is often used to enhance physical and mental performance. It helps the body adapt to stress and has rejuvenating properties.



  
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## 2. Hadjoda (*Cissus quadrangularis*)



**Uses:** Promotes bone health, speeds up fracture healing, and reduces inflammation.

**Parts Used:** Stem

**Details:** Hadjoda is known for its ability to enhance bone healing and strength. It is also used to treat joint pain and inflammation.



  
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3. Devil's Backbone (*Euphorbia tithymaloides*)



**Uses:** Ligament wound healing, Treats skin conditions, digestive issues, and respiratory problems.

**Parts Used:** Leaves, Stem, and Warm watery latex.



  
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**Details:** This plant is used in traditional medicine for its ability to treat ligament wound recovery, skin conditions, aid digestion, and relieve respiratory issues.

#### 4. *Wedelia* (*Wedelia chinensis*)



**Uses:** Treats liver disorders, skin issues, and hair problems.

**Parts Used:** Leaves, Roots

**Details:** *Wedelia* is known for its hepatoprotective properties and is often used in the treatment of liver disorders. It also promotes hair growth and skin health.



  
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5. Thankuni (*Centella asiatica*)



**Uses:** Enhances cognitive function, reduces anxiety, and promotes wound healing.

**Parts Used:** Leaves, Stems

**Details:** Gotu Kola is renowned for its ability to improve memory and cognitive function. It also promotes wound healing and reduces anxiety.



  
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6. Wild Turmeric, Palo, (*Curcuma aromatica*)



**Uses:** Anti-inflammatory, antimicrobial, and used in skin care.

**Parts Used:** Rhizome



  
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**Details:** Wild Turmeric is commonly used for its anti-inflammatory and antimicrobial properties. It is also used in skin care to improve complexion and treat skin conditions.

---

## 7. False Daisy (*Syndrella nodiflora*)

**Uses:** Promotes hair growth, treats skin disorders, and has anti-inflammatory properties.

**Parts Used:** Leaves, Flowers

**Details:** False Daisy is widely used in traditional medicine for promoting hair growth and treating skin disorders. It also has anti-inflammatory properties.

---

## 8. Tridkshya (*Tridax procumbens*)


**Uses:** Wound healing, anti-inflammatory, and antimicrobial properties.

**Parts Used:** Leaves, Stems

**Details:** This plant is known for its wound healing abilities and is also used for its anti-inflammatory and antimicrobial properties.

---



  
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9. Nayan tara (*Catharanthus roseus*)



**Uses:** Treats cancer, diabetes, and high blood pressure.

**Parts Used:** Leaves, Flowers

**Details:** This plant is significant in the pharmaceutical industry for its anticancer properties. It is also used to manage diabetes and high blood pressure.

10. Gandal (*Paederia foetida*)

**Uses:** Treats gastrointestinal issues, arthritis, and muscle pain.

**Parts Used:** Leaves, Roots

**Details:** Skunk Vine is used in traditional medicine to treat gastrointestinal issues, arthritis, and muscle pain.





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11. Akanda (*Calotropis gigantea*)



**Uses:** Treats skin infections, digestive disorders, and respiratory issues.

**Parts Used:** Leaves, Bark, Latex

**Details:** Crown Flower is known for its medicinal properties in treating skin infections, digestive disorders, and respiratory issues.



  
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## 12. Jarul (*Lagerstroemia speciosa*)



**Uses:** Manages diabetes, improves skin health, and has anti-inflammatory properties.

**Parts Used:** Leaves, Flowers, Bark

**Details:** This plant is known for its antidiabetic properties and is also used to improve skin health and reduce inflammation.


## 13. Satamul (*Asparagus racemosus*)

**Uses:** Supports reproductive health, boosts immunity, and reduces stress.

**Parts Used:** Roots, Leaves

**Details:** Indian Asparagus, or Shatavari, is used to support reproductive health, boost immunity, and reduce stress.



  
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14. Punarnava (*Boerhaavia diffusa*)



*Boerhavia repens*

**Uses:** Treats liver disorders, improves kidney function, and has anti-inflammatory properties.

**Parts Used:** Roots, Leaves

**Details:** Punarnava is known for its liver-protective properties and is also used to improve kidney function and reduce inflammation.



  
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## 15. Brahmi (*Herpestis monniera*)



**Uses:** Enhances cognitive function, reduces anxiety, and provides antioxidant support.

**Parts Used:** Leaves



  
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**Details:** Brahmi is valued for its ability to improve memory and concentration. It is also used in managing anxiety and stress-related conditions.

---

#### 16. Ginger (*Zingiber officinale*)

**Uses:** Effective in treating nausea, improving digestion, and reducing inflammation.

**Parts Used:** Rhizome

**Details:** Ginger is widely used for its anti-nausea and anti-inflammatory properties. It also aids digestion and can relieve pain.

---

#### 17. Lemon Grass (*Cymbopogon citratus*)

**Uses:** Aids digestion, reduces fever, and relieves pain.

**Parts Used:** Leaves, Stems

**Details:** Lemon Grass is known for its aromatic properties and is used to aid digestion, reduce fever, and relieve pain.

---

#### 18. Amla (*Phyllanthus emblica*)

**Uses:** Rich in Vitamin C and antioxidants, enhancing immunity and improving skin health.

**Parts Used:** Fruit


**Details:** Amla, or Indian Gooseberry, is known for its high vitamin C content. It boosts the immune system, improves digestion, and promotes healthy skin and hair.

---

#### 19. Turmeric (*Curcuma longa*)

**Uses:** Prized for its anti-inflammatory, antioxidant properties, and its ability to improve digestion.



  
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**Parts Used:** Rhizome

**Details:** Turmeric contains curcumin, which has potent anti-inflammatory and antioxidant effects. It is commonly used in both culinary and medicinal contexts.

---

## 20. Giloy (*Tinospora cordifolia*)

**Uses:** Known for boosting immunity, its anti-inflammatory properties, and antipyretic (fever-reducing) effects.

**Parts Used:** Stem

**Details:** Giloy is often used in traditional medicine to enhance the immune system, combat fever, and reduce inflammation.

---

## 21. Aloe Vera (*Aloe barbadensis*)

**Uses:** Celebrated for its skin healing properties, digestive health benefits, and anti-inflammatory effects.

**Parts Used:** Leaves (Gel)

**Details:** Aloe Vera gel is commonly applied to the skin for burns and wounds. It also supports digestive health and boosts the immune system.

---

## 22. Neem (*Azadirachta indica*)


**Uses:** Strong antibacterial, antifungal, and anti-inflammatory properties. It is widely used for detoxification and improving skin health.

**Parts Used:** Leaves, Bark

**Details:** Neem is considered a powerful medicinal plant in Ayurveda. Its leaves and bark are used to treat various skin conditions, boost immunity, and purify the blood.

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## 23. Tulsi (*Ocimum sanctum*)

### *Ocimum sanctum* (Lamiaceae)

*Ocimum sanctum* Linn, Lamiaceae, (known as Tulsi in Hindi), a small herb seen throughout India, have been recommended for the treatment of bronchitis, bronchial asthma, malaria, diarrhoea, dysentery, skin diseases, arthritis, painful eye diseases, chronic fever, insect bite




**Uses:** Renowned for its immune-boosting properties. It is also effective in treating respiratory issues and has anti-inflammatory benefits.

**Parts Used:** Leaves

**Details:** Tulsi, also known as Holy Basil, is a sacred plant in Indian tradition. It is often used in Ayurvedic medicine for its diverse health benefits, including stress relief, fever reduction, and respiratory support.



  
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24. Kalmegh (*Andrographis paniculata*)



**Uses:** Enhances liver function, boosts immunity, and has anti-inflammatory properties.

**Parts Used:** Leaves, Stem

**Details:** Kalmegh is known for its liver-protective and immune-boosting properties. It is also used to reduce inflammation and treat fever.



  
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## 25. Vasak (*Adhatoda vasica*)



**Uses:** Treats respiratory conditions, relieves cough, and has anti-inflammatory properties.

**Parts Used:** Leaves, Roots

**Details:** Malabar Nut is commonly used in Ayurvedic medicine to treat respiratory conditions such as asthma and bronchitis. It also helps to relieve cough and reduce inflammation.



  
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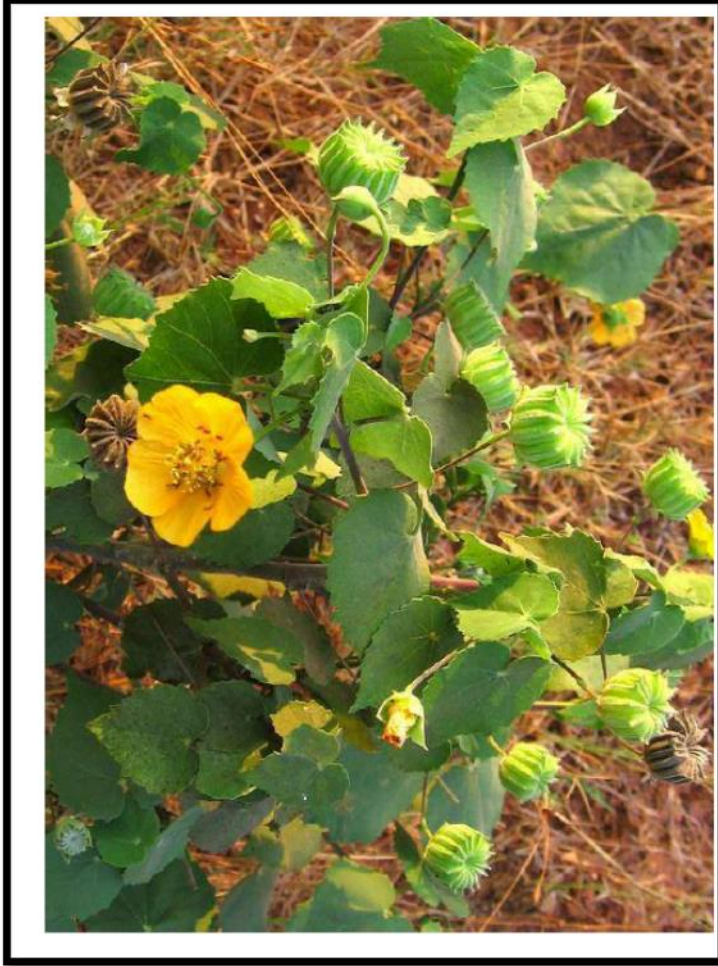
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## 26. Potari (*Abutilon indicum*)



**Uses:** Treats respiratory disorders, reduces inflammation, and supports wound healing.

**Parts Used:** Leaves, Roots, Seeds

**Details:** Indian Mallow is used in traditional medicine for its benefits in treating respiratory disorders, reducing inflammation, and supporting wound healing.



  
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Combo Formulations

## *Combo 1: Immunity Booster*

**Ingredients:** Ashwagandha, Amla, Giloy, Tulsi, Neem

**Uses:** Enhances overall immune function, reduces stress, and promotes overall health.

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## *Combo 2: Anti-inflammatory Blend*

**Ingredients:** Turmeric, Ginger, Wild Turmeric, Neem, Aloe Vera

**Uses:** Reduces inflammation, alleviates pain, and promotes skin health.

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## *Combo 3: Digestive Health*

**Ingredients:** Ginger, Lemon Grass, Tulsi, Amla, Kalmegh

**Uses:** Improves digestion, reduces nausea, and supports liver function.

Combo 4: Toothaches

**Ingredients:**

- Acmeilla oleracea
- Abutilon indicum
- Psidium guajava leaves and young shoots

**Uses:**


- This combination is utilized for relieving toothaches.
- The dried or decocted form of these ingredients is employed against gum infections, providing relief from pain and inflammation associated with dental issues.

Combo 5: Ligament Wound

**Ingredients:**

- Calotropis leaves



  
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- Euphorbia tithymaloides stem

#### Uses:

##### 1. Preparation:

- Warm up Euphorbia tithymaloides stem juices until they transform into a milky white color and become a watery liquid.

##### 2. Application:


- Wrap up the wound with cotton soaked in the prepared Euphorbia stem juice.
- Cover the wound with Calotropis leaves.
- Allow the bandage to stay overnight.

#### Benefits:

- This combination is beneficial for ligament wounds.
- The Euphorbia stem juice is known for its wound-healing properties, and when combined with the soothing and anti-inflammatory attributes of Calotropis leaves, it can promote faster healing and alleviate discomfort associated with ligament injuries.

A recovery case presented here for an example of influencing community connection of Raidighi College medicinal plant garden. Vernonia, Boerhavia, Mikania, wedelia collected from this garden by the patient's relative time to time and he recover from dangerous injury. Sequential images are given below as sample of trust.



  
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3<sup>rd</sup> March 2024



20<sup>th</sup> May 2024

## Development Strategies:

### 1. Documentation and Inventory:

- Establish a comprehensive inventory of all plant species in the garden, documenting their botanical names, common names, medicinal uses, and cultivation requirements.
- Develop a digital database accessible to students, researchers, and the wider community for educational and research purposes.

### 2. Educational Outreach:

- Organize workshops, seminars, and training programs on herbal medicine, traditional healing practices, and sustainable gardening techniques.
- Collaborate with local schools, colleges, and community organizations to conduct educational tours and hands-on activities in the garden.

### 3. Research and Innovation:

- Encourage students and faculty to engage in research projects exploring the pharmacological properties, bioactive compounds, and therapeutic potential of medicinal plants.
- Foster partnerships with research institutions and pharmaceutical companies to facilitate collaborative research and technology transfer.

### 4. Conservation and Sustainability:

- Implement conservation measures to protect endangered or threatened medicinal plant species and promote sustainable harvesting practices.



  
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- Introduce organic farming methods, composting, and water conservation techniques to promote environmental sustainability within the garden.
- 5. **Community Engagement:**
  - Host community health fairs, herbal medicine clinics, and outreach programs to raise awareness about the importance of medicinal plants in healthcare.
  - Partner with local healthcare providers, traditional healers, and herbalists to integrate traditional medicine into primary healthcare services.
- 6. **Infrastructure and Amenities:**
  - Enhance the infrastructure of the garden with facilities such as interpretive signage, seating areas, and shade structures to enhance the visitor experience.
  - Develop a medicinal plant nursery and propagation center to support the cultivation and distribution of medicinal plant seedlings to the community.
- 7. **Digital Presence:**
  - Create a website or online platform for the Raidighi College Medicinal Plant Garden to showcase its features, upcoming events, and educational resources.
  - Utilize social media channels and digital newsletters to engage with a wider audience and promote the garden's activities and initiatives.

By implementing these development strategies, the Raidighi College Medicinal Plant Garden can evolve into a dynamic hub for education, research, conservation, and community empowerment in the field of herbal medicine and sustainable agriculture.

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## A REPORT ON

### **Mangroves and Their Ecological Habitat and Importance: An Overview of Moni River Bank**

The Sundarbans mangrove forest, located in the delta region of the Ganges, Brahmaputra, and Meghna rivers in Bangladesh and India, is one of the largest contiguous mangrove ecosystems in the world. Here are some key characteristics of mangroves in the Sundarbans:

1. **Biodiversity:** The Sundarbans mangroves support a rich diversity of flora and fauna, including numerous species of mangrove trees, wildlife such as Bengal tigers, crocodiles, spotted deer, and a variety of birds, fish, and invertebrates.
2. **Adaptations to Salinity:** Sundarbans mangroves are adapted to high salinity levels. They have specialized mechanisms to exclude salt from their tissues, such as salt glands in their leaves or the ability to excrete excess salt through their roots.
3. **Tidal Influence:** Tides play a significant role in shaping the Sundarbans mangrove ecosystem. The area experiences diurnal tides, with water levels rising and falling twice a day. Mangroves in the Sundarbans are adapted to regular tidal inundation and often have prop roots or pneumatophores to cope with fluctuating water levels.
4. **Mangrove Species:** The Sundarbans mangrove forest is home to several species of mangrove trees, including Sundri (*Heritiera fomes*), Gewa (*Excoecaria agallocha*), Goran (*Ceriops decandra*), Keora (*Sonneratia apetala*), and Kankra (*Bruguiera gymnorrhiza*), among others.
5. **Ecosystem Services:** Sundarbans mangroves provide valuable ecosystem services, including shoreline stabilization, protection against coastal erosion, carbon sequestration, and habitat for numerous species of wildlife. They also support local communities by providing resources such as timber, fish, and honey.
6. **Threats and Conservation:** The Sundarbans mangrove ecosystem faces various threats, including habitat loss due to deforestation, pollution from industrial activities and shipping, climate change impacts such as sea-level rise and cyclones, and human-wildlife conflict. Conservation efforts are underway to protect and sustainably manage this unique and ecologically important ecosystem.

Mangrove species have evolved to thrive in specific environmental conditions, including variations in salinity, water depth, and soil type. In areas like the Sundarbans, which experience dynamic changes in these factors, the natural selection of mangrove seeds for plantation is crucial for successful vegetation development.



  
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When planning artificial or natural mangrove plantation projects along river banks or in other coastal areas, it's essential to consider the following factors:

- 1. Salinity Tolerance:** Different mangrove species have varying levels of tolerance to salinity. Selecting species that are adapted to the salinity levels of the specific river bed is important for their survival and growth.
- 2. Water Depth:** Some mangrove species are better adapted to shallow water conditions, while others can thrive in deeper areas. Understanding the water depth variations along the river bank helps in choosing appropriate species for plantation.
- 3. Soil Type:** Mangroves grow in diverse soil types, ranging from sandy to muddy substrates. Certain species may prefer one type of soil over another, so selecting species that are suited to the soil conditions of the river bed is essential.
- 4. Tidal Influence:** Mangroves are influenced by tidal patterns, with some species preferring areas with regular tidal inundation while others thrive in areas with less frequent inundation. Planting species that match the tidal regime of the river bank enhances their chances of establishment and growth.
- 5. Ecological Role:** Consider the ecological functions of different mangrove species, such as their role in shoreline stabilization, biodiversity support, and habitat provision for wildlife. Selecting a mix of species that fulfil various ecological roles can enhance the resilience and sustainability of the planted mangrove forest.

By carefully considering these factors and allowing for natural selection processes to occur, mangrove plantation efforts can contribute to the restoration and conservation of coastal ecosystems while promoting the long-term health and biodiversity of the area.


## The Moni River Bank: Mangroves

The specific adaptations and ecological benefits of mangroves on the Moni River bank are likely similar to those observed in other mangrove ecosystems. The presence of mangroves along the Moni River can help stabilize the riverbank, reduce erosion, and provide a habitat for diverse species. They play a critical role in maintaining the health of the riverine and coastal environments.

In summary, mangroves along the Moni River bank are a testament to nature's resilience and adaptability. Their presence not only supports a wide range of ecological functions but also offers protection and resources to the local communities.

- Sundri (*Heritiera fomes*): Known locally as "Sundari", it's one of the dominant species in the Sundarbans and provides valuable timber.



  
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Sundari



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- Gewa (*Excoecaria agallocha*): Known locally as "Gewa", it's a common species found in the Sundarbans.



Gewa



  
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- Goran (*Ceriops decandra*): Known locally as "Goran", it's often found in areas with higher salinity levels.



  
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- Keora (*Sonneratia apetala*): Known locally as "Keora", it's adapted to brackish water conditions and provides important habitat for wildlife.



  
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- Hantal (*Phoenix paludosa*): Known locally as "Hantal", it's a species of palm found in the Sundarbans.



Hantal



  
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- Kankra (*Bruguiera gymnorhiza*): Known locally as "Kankra", it's characterized by its stilt roots and is often found in the intertidal zone.



  
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- Passur (*Xylocarpus mekongensis*): Known locally as "Passur", it's a mangrove species with climbing habits.



  
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- Dundhul ( Xylocarpus granatum) Cannon ball tree.



  
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- Kankrol (*Rhizophora mucronata*): Known locally as "Kankrol", it's a type of mangrove with prop roots that help it to withstand tidal forces.



  
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- *Avicennia officinalis* is one of the mangrove species found in coastal regions of the Indian subcontinent, including areas like the Sundarbans. It typically grows in intertidal zones and is characterized by its pencil pneumatophores (aerial roots) and salt-excreting glands on its leaves, which allow it to thrive in saline environments



  
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- **Excoecaria agallocha (Blinding Tree):** Also known as the river poison tree, it has milky sap that can cause irritation, and it's often found in mangrove ecosystems



  
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Harguja. *Acanthus ilicifolius*, commonly known as sea holly or holly-leaved acanthus.



### *Restoration Projects*

- Reforestation and habitat restoration can help recover degraded mangrove areas.
- Focus on naturally selected species like Rhizophora, Avicennia, Laguncularia, and Sonneratia for successful adaptation and growth.

### *Community Engagement*

- Involving local communities in conservation efforts ensures long-term success and fosters stewardship.



  
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### *Conclusion*

The mangroves of the Moni River bank are a vital ecological asset, providing numerous benefits from coastal protection to biodiversity conservation and climate regulation. Protecting and conserving these ecosystems is crucial for maintaining their functions and supporting local communities. Through sustainable practices, restoration, and community engagement, these mangroves can thrive and contribute to environmental and social resilience

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**A REPORT FROM**

**Raidighi College  
Department of Botany**

**Sustainable Development with Plant Science (SDWPS).**

Since 2014, Raidighi College's Department of Botany has been running a project titled "Sustainable Development with Plant Science" (SDWPS). The primary focus of this project is the integration of plant science with sustainability principles, ensuring that development meets the evolving demands of nature and the environment. Regular observations and continuous improvements have been made to the college campus throughout the project's duration.

The project is structured into multiple phases, from 2014 to the present, with each phase marking significant milestones and developments.

**Phase I (2014):**

The journey began with the establishment of a 5,000 square feet medicinal plant garden on the college campus. This phase was initiated with a monetary contribution of 5,000 INR, in collaboration with the Raidighi College NSS Unit. The project was spearheaded by the former principal, Prof. Ali Reza Molla, a true nature lover and a man of wisdom and vision. Under his guidance, a garden featuring 50 species of plants was established within a year, focusing primarily on syllabus-oriented plants and local vegetation.


**Student Benefits:**

In Phase I, the Department of Botany developed to become independent for local excursions and spot identification during practical examinations. This development has greatly benefited students in several ways:

- **Plant Taxonomy:** Students received high appreciation for their enhanced skills in plant taxonomy, allowing them to identify and classify various plant species accurately.
- **Medicinal Plant Identification & Morphology:** The establishment of the medicinal plant garden provided a hands-on learning environment where students could identify and study the morphology of medicinal plants.
- **Plant Anatomy:** The garden served as a practical resource for students to observe and understand plant anatomy in a real-world context.

As a result of this installation, the Department of Botany now offers a complete, student-friendly structure and better facilities compared to many larger and more prestigious colleges in urban areas. This has made Raidighi College's Department of Botany a preferred choice for students interested in plant science and sustainable development.



  
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## Phase II (2016-2017):

Under the SDWPS initiative, the first priority was given to plantation within the college campus to mitigate the extra heat generated by bare building reflections during summer. A green meeting resolution supporting this agenda was accepted by the committee, and a request for plantation support was forwarded to the Raidighi Grampanchayat.

## September 2016:

It was decided to trim some branches of the Eucalyptus trees planted by the Raidighi Grampanchayat as part of our proposal. This action successfully reduced the temperature of the entire college campus. For example, a single sunflower plant can transpire 75 gallons of water to the environment throughout its lifecycle, acting as a natural temperature regulator. This phase focused on planting such natural regulators without any cost or hazard.

## September 2017:

After a year of dedicated efforts, a concrete pathway adorned with more than 400 flowering plants, such as Dopati, Vinka, and Ganda, was established. During the previous winter, the pathway was exceptionally attractive with large sunflower blooms. It became a common sight to see parrots flying down to the sunflower heads near sunset to feed on the seeds. Additionally, the project yielded approximately 8 kg of sunflower oil from the remaining seeds.

## Benefits:

- **Beautification:** The college campus became more visually appealing.
- **Increased Moisture:** Enhanced the moisture levels in the environment.
- **Ecological Impact:** Supported local wildlife and improved the ecological balance.
- **Campus Freshness:** Contributed to a fresher and more pleasant campus atmosphere.

Our respected Principal was directly involved in this project every step of the way, ensuring its success and sustainability.

## Phase III (2018-2019):

The extension of the medicinal plant garden continued with the addition of more than 100 species. A separate location was allotted for a single vegetation bed display, allowing both our students and those from other colleges to conduct identification work within this allocation. The conserved natural and undisturbed region of the medicinal plant garden is maintained exclusively by specialists.

## Next Steps:

We are excited to introduce some orchids with diverse spectrums to enhance the garden's biodiversity. Additionally, a mangrove photo gallery, highlighting the indigenous species along the banks of the Moni River and focusing on crab protection awareness, is planned to be established next to the medicinal plant garden.



  
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### September 2016:

A PowerPoint presentation was prepared by the Department of Botany to convey the message of crab protection effectively. Within a year, two articles were published addressing the main challenge of protecting the Sundarbans from threats to its crab population. One of the articles, titled “Sundarbaner Pran, Sundarbaner Kada,” offered a diversified perspective on sustainable development in the Sundarbans.

### Impact:

The interest in mangroves among students has grown significantly. In response, we propose the establishment of a mangrove study centre, monitored jointly by the Department of Botany and the Department of Zoology.

### Benefits:

- **Educational Resource:** The extended medicinal plant garden and the new mangrove photo gallery provide invaluable educational resources for students and researchers.
- **Conservation Awareness:** Increased awareness of crab protection and mangrove conservation among students and the local community.
- **Biodiversity:** The addition of diverse plant species, including orchids, enhances the biodiversity of the garden.
- **Collaborative Learning:** The project fosters collaboration between different departments and institutions, enriching the learning experience.

### Phase IV (2019-2022):

In response to the COVID-19 pandemic, the focus shifted towards cultivating immuno-boosting herbs and creating polyherbal formulations to support community health.

### Post-Amphan Cyclone (2020):

After the Amphan cyclone, invasive and toxic phytochemical-releasing timber-yielding plants were destroyed and removed. In their place, various fruit plants were introduced to the garden. These fruit plants were propagated and given as gifts at college ceremonies, seminars, and other events, fostering a sense of community and sustainability.


### Mangrove Photo Gallery:

A mangrove photo gallery was established, featuring 30 species found near the Moni River bank, promoting awareness of these vital ecosystems and their conservation.

### September 2021:

A PowerPoint presentation prepared by the Department of Botany emphasized the importance of crab protection for mangrove re forestation near Saline river bank.



  
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## Sustainable Kitchen Garden:

A sustainable kitchen garden program was started adjacent to the office building as an experimental phase, aiming to provide fresh produce and serve as a model for sustainable living practices.

## Principal's Involvement:

Our respected Principal, Dr. Sasabindu Jana, remained actively involved in every phase of the project, ensuring its ongoing success and alignment with the college's mission and values.

## Phase V (2022-2023):

The devastation caused by Cyclones Amphan and Yash left a profound impact on the medicinal plant garden at Raidighi College. The precious reservation, brimming with botanical treasures, succumbed to the fury of nature. However, from the ashes of destruction emerged a beacon of resilience and innovation.

**Rebirth of the Medicinal Plant Garden:** Through a pioneering initiative, the medicinal garden at Raidighi College was reborn, fortified against the difficulties of saline water invasion. An ingenious plan was devised, featuring the installation of cement structure rings to shield the flora from future calamities. Fifty such rings were acquired, each meticulously placed to safeguard the first fifty species.

These cement rings, standing as bastions against inundation, symbolize not just protection but also hope for the revival of biodiversity. Within the demarcated perimeters of each ring, a singular species of vegetation flourishes, signifying nature's persistence amidst adversity. With an elevation of eight inches above ground level, these botanical havens stand tall, resilient against the tides of destruction.

The reestablishment of Raidighi College's medicinal garden through this innovative approach showcases the power of human creativity in harmony with nature. It stands as a testament to our commitment to preserving biodiversity and nurturing life, even in the face of the most formidable challenges.

**Combating Invasive Species:** Indeed, the invasive plants, particularly *Acacia moniliformis*, presented a formidable challenge to the delicate ecosystem of Raidighi College's medicinal garden. Despite their resilience, these invaders posed a multifaceted threat. Their unchecked proliferation led to the overshadowing of indigenous species, disrupting the balance and vitality essential for the garden's health and sustainability.

The dominance of *Acacia moniliformis* not only altered the composition of the ecosystem but also introduced adverse ecological dynamics. The phytochemicals leached by these invasive plants inhibited the germination and growth of medicinal species, compounding the garden's plight. As a result, the once-rich biodiversity of the garden faced significant jeopardy, with native medicinal plants struggling to thrive amidst the encroachment of invasive species.



  
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This ecological imbalance underscored the urgent need for intervention and restoration efforts. Recognizing the detrimental impact of invasive plants on the medicinal garden's ecological integrity, proactive measures were implemented to mitigate their spread. Through strategic removal initiatives and targeted management strategies, the invasive species were gradually supplanted, allowing native flora to reclaim their rightful place within the ecosystem.

The plight of Raidighi College's medicinal garden serves as a poignant reminder of the insidious threat posed by invasive species to natural ecosystems. Yet, through diligent conservation efforts and a commitment to restoring ecological equilibrium, the garden stands as a testament to the resilience of nature and the transformative power of proactive conservation measures.

**Visionary Program for Fruit Plant Propagation:** A visionary program has been initiated to transform the landscape of roadsides and institutional campuses by prioritizing the propagation and plantation of common fruit plants over timber-yielding species. This strategic shift reflects a commitment to sustainability, community well-being, and environmental stewardship.

The adoption of common fruit plants serves multiple purposes, aligning with both ecological and socio-economic objectives. By introducing a diverse array of fruit-bearing species, the program not only enhances the aesthetic appeal of the surroundings but also promotes biodiversity and ecosystem resilience. Moreover, the availability of fresh fruits contributes to improved nutrition and food security, particularly in areas where access to nutritious foods may be limited.

Furthermore, the propagation and plantation of common fruit plants offer myriad economic opportunities for local communities. Through value-added activities such as fruit processing, marketing, and agro-tourism, the program catalyzes rural development and entrepreneurship, empowering individuals to harness the economic potential of fruit cultivation.

**Holistic Approach to Sustainable Development:** By prioritizing common fruit plants over timber-yielding species, the program embodies a holistic approach to sustainable development, balancing environmental conservation with socio-economic empowerment. Through collaborative efforts and community engagement, Phase V aims to create vibrant, resilient landscapes that not only nourish the body and soul but also foster prosperity and well-being for generations to come.

## Phase VI (2024 Onward): Introducing Microbial Inoculants Dependent Farming Practice in Sundarban

Under the Sustainable Development with Plant Science Phase VI initiative, Raidighi College is embarking on a groundbreaking endeavor to introduce microbial inoculants dependent farming practices in the Sundarbans.

### Objectives:



  
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- Enhancing Soil Health:** The primary objective of this initiative is to improve soil health and fertility in the Sundarbans region through the application of microbial inoculants. These inoculants will introduce beneficial microorganisms into the soil, promoting nutrient cycling, enhancing soil structure, and increasing crop productivity.
- Reducing Chemical Dependency:** By harnessing the power of beneficial microorganisms, we aim to reduce the reliance on chemical fertilizers and pesticides in agricultural practices. This shift towards microbial inoculant-dependent farming practices aligns with principles of sustainable agriculture, minimizing environmental pollution and promoting ecological balance.
- Promoting Resilience:** The Sundarbans region faces numerous environmental challenges, including soil salinity, waterlogging, and climate change impacts. By fostering healthy soil ecosystems through microbial inoculants, we aim to enhance the resilience of agricultural systems in the face of these challenges, ensuring food security and livelihood sustainability for local communities.

## Implementation Strategy:

- Research and Development:** Collaborating with experts in microbiology and agricultural sciences, we will conduct research to identify locally adapted microbial strains suitable for the Sundarbans ecosystem. These microbial inoculants will be rigorously tested in field trials to evaluate their efficacy in improving soil health and crop yield.
- Capacity Building:** Training programs and workshops will be organized to educate farmers and agricultural extension workers about the benefits of microbial inoculant-dependent farming practices. Practical demonstrations and hands-on training sessions will empower participants to adopt these innovative techniques in their agricultural activities.
- Demonstration Farms:** Establishing demonstration farms in strategic locations within the Sundarbans region will serve as model sites to showcase the successful implementation of microbial inoculant-dependent farming practices. These farms will provide valuable learning opportunities for farmers and serve as hubs for knowledge dissemination and exchange.
- Community Engagement:** Engaging local communities and stakeholders in the planning and implementation of this initiative will be crucial for its success. Participatory approaches, including farmer field schools and community-led decision-making processes, will ensure the active involvement and ownership of the initiative by the local populace.

## Expected Outcomes:

- Improved Soil Health:** The application of microbial inoculants will lead to enhanced soil fertility, increased nutrient availability, and improved soil structure, resulting in healthier and more resilient agricultural ecosystems.
- Reduced Environmental Impact:** By reducing the use of chemical inputs, microbial inoculant-dependent farming practices will contribute to the conservation of natural resources, preservation of biodiversity, and mitigation of environmental pollution in the Sundarbans region.



  
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- 3. Increased Crop Productivity:** Farmers adopting microbial inoculant-dependent farming practices can expect to achieve higher crop yields, improved crop quality, and enhanced resistance to biotic and abiotic stresses, ultimately leading to improved livelihoods and food security.
- 4. Socio-economic Empowerment:** By promoting sustainable agricultural practices and fostering community participation, this initiative will empower local farmers, enhance rural livelihoods, and contribute to the socio-economic development of the Sundarbans region.

In conclusion, the introduction of microbial inoculant-dependent farming practices in the Sundarbans represents a pioneering effort towards sustainable agriculture and environmental stewardship. Through collaborative partnerships, innovative research, and community engagement, Raidighi College is committed to realizing the full potential of this initiative and fostering a brighter future for the Sundarbans and its inhabitants.



  
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**BEST PRACTICE: 2**

**Nurturing and Empowering our Daughters in Classroom and Beyond**



  
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Principal  
PRINCIPAL  
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## CBCS COURSES HAVING GENDER AS A SUBJECT

### TOPICS RELEVANT TO PROFESSIONAL ETHICS, GENDER, HUMAN VALUES, ENVIRONMENT AND SUSTAINABILITY IN CURRICULUM

Sl No:	Subject	Professional Ethics	Environment & Sustainability	Gender Issues	Human Values
1,	Political Science	Part-II Paper-III (H) Role of religion		Part-II Paper-III (H) Womens Movement. Part-III Paper-VII Gender and politics; basic issues	Part-I (H) Paper-I Liberty, Equality, Rights and Justice Liberty, Equality, Rights Part-II Paper-III (H) Fundamental Rights Part-III Paper-VI (H) Movements against caste system and untouchability – Ambedkar's views on Social Justice and Depressed Class.
2,	Education		Part –III (Honours) Paper- V Group- A (Psychology of Adjustment) Module I & Module- II Part I (General) Paper- 1 (Principles of Education) Module I		Part-I (Honours) Paper-I (Philosophical Foundation of Education and Contribution of Great Educators) Group- A Module-I Part I (General) Paper 1 (Principles of Education) Module- I



  
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UNIVERSITY OF CALCUTTA  
CBCS SYLLABUS FOR UG ENGLISH (HONS)

CORE COURSES (CC) – 14 COURSES, 6 CREDITS PER COURSE  
DISCIPLINE SPECIFIC ELECTIVE (DSE) – 4 COURSES (out of 8), 6 CREDITS PER COURSE  
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC) – 2 COURSES, 2 CREDITS PER COURSE  
SKILL ENHANCEMENT COURSE (SEC) – 2 COURSES (out of 4), 2 CREDITS PER COURSE

COURSE NAMES:

CC1 – HISTORY OF LITERATURE AND PHILOLOGY  
CC2 – EUROPEAN CLASSICAL LITERATURE  
CC3 – INDIAN WRITING IN ENGLISH  
CC4 – BRITISH POETRY AND DRAMA (14<sup>TH</sup> – 17<sup>TH</sup> CENTURY)  
CC5 – AMERICAN LITERATURE  
CC6 – POPULAR LITERATURE  
CC7 – BRITISH POETRY AND DRAMA (17<sup>TH</sup> – 18<sup>TH</sup> CENTURY)  
CC8 – BRITISH LITERATURE (18<sup>TH</sup> CENTURY)  
CC9 – BRITISH ROMANTIC LITERATURE  
CC10 – 19<sup>TH</sup> CENTURY BRITISH LITERATURE  
CC11 – WOMEN'S WRITING  
CC12 – EARLY 20<sup>TH</sup> CENTURY BRITISH LITERATURE  
CC13 – MODERN EUROPEAN DRAMA  
CC14 – POSTCOLONIAL LITERATURE

DSE (ANY TWO FROM DSE-A AND ANY TWO FROM DSE-B)  
DSE-A1 – MODERN INDIAN WRITING IN ENGLISH TRANSLATION  
DSE-A2 – LITERARY THEORY AND LITERARY CRITICISM  
DSE-A3 – PARTITION LITERATURE  
DSE-A4 – MEDIA AND COMMUNICATION STUDIES  
DSE-B1 – LITERARY TYPES, RHETORIC AND PROSODY  
DSE-B2 – CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT  
DSE-B3 – AUTOBIOGRAPHY  
DSE-B4 – TEXT AND PERFORMANCES

AECC1 – COMMUNICATIVE ENGLISH OR MILA  
AECC2 – ENVIRONMENT STUDY

CC11 (SEMESTER 5, CODE – ENG-A-CC-5-11-TH/TU)  
WOMEN'S WRITINGS: 6 CREDITS

(5 CREDITS THEORY AND 1 CREDIT TUTORIAL)

Poetry

Emily Dickinson, 'I cannot live with you' Elizabeth Barrett Browning, 'How do I love thee' Eunice De Souza, 'Advice to Women'

Fiction

Alice Walker, *Color Purple* OR Emily Bronte, *Wuthering Heights* Mahasweta Devi, 'Draupadi', translated Gayatri Chakravorty Spivak Katherine Mansfield, 'Bliss'

Non-Fiction

Mary Wollstonecraft, *A Vindication of the Rights of Woman*, Chapters I & II (New York: Norton, 1988)  
Rassundari Devi, *Amar Jiban*, translated Enakshi Chatterjee, Writers' Workshop.

End Semester Question Pattern: Objective


– 5 marks

One question of 15 marks from poetry (out of two)

Two questions of 15 marks each from fiction (out of three, one from each)

One question of 15 marks from non-fiction (out of two, one from each)



  
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**SEMINAR/WEBINAR ON GENDER SENSITIZATION/WOMEN CONCERN: SAMPLE SCREENSHOT**

youtube.com/watch?v=cSDXCw4aU0M

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SASABINDU JANA 1:58:21 / 2:02:16

**Celebration of International Girls' Child Day 2021 10 06 at 22 37 GMT 7**

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**Gender Sensitization or Women Cell Raidighi College**

**NATIONAL GIRL CHILD DAY 24TH JANUARY, 2022**

**Raidighi College celebrates Foundation Day of Calcutta University & National Girl Child Day'22**

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**ACTIVITIES INVOLVING GIRL STUDENTS**



**RAIDIGHI COLLEGE**  
DEPARTMENT OF FOOD AND NUTRITION  
CORDIALLY INVITES YOU TO ATTEND

**"A COMMUNITY OUTREACH PROGRAMME:  
ON NUTRITIONAL ASSESSMENT & DIET  
COUNSELING SESSION"**  
(SPECIAL FOCUS ON GIRL'S & WOMEN HEALTH)  
ON  
**11<sup>TH</sup> APRIL, 2023**  
TO OBSERVE  
**WORLD HEALTH DAY, 2023**  
(THEME: HEALTH FOR ALL)

**VENUE: DEPARTMENT OF FOOD & NUTRITION, RAIDIGHI COLLEGE**  
TIME: 12 NOON TO 1.30 PM



**Students participating in World Health Day**



  
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**Students participating in Cultural Programmes**



  
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youtube.com/watch?v=yHrBtcsHVZs



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Meeting details ^



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## Department of English presents Rabindra Janmo Jayanti-2021



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**Our student participating in Rabindra Jayanti (Kavi Pranam)**



  
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Our girls involved in Yoga sessions



  
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## Inter-University Kabbadi Tournament, 2023

The thrill of victory resonated across 7 states as 30 universities battled it out in the East Zone Inter-University Kabbadi Tournament 2023. Among them, University of Calcutta's women's team, fueled by the fierce spirit of 3rd Semester Raidighi College student Payel Das, emerged triumphant. Their grit and skill saw them conquer every raid, leaving opponents breathless and securing their coveted spot in the National level Kabbadi Inter-University Tournament. Payel, a star raider whose lightning-fast dashes and unwavering determination ignited the team, deserves a thunderous round of applause! She's not just a champion on the court, but an inspiration to countless aspiring athletes. Here's to Payel, to Team Calcutta, and to their glorious journey on the national stage! May their victory bring home the gold!



## A report on our girls' outstanding sports activity



  
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**Our girls excel in Kabbadi**



  
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**Our girls emerging as victorious at KHELA HOBE championship**



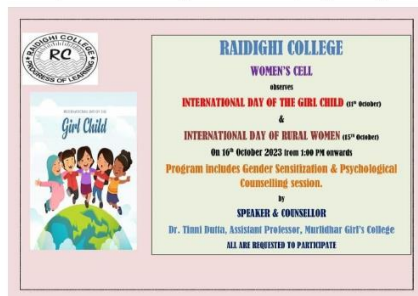
  
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## OBSERVANCE OF IMPORTANT DAYS

### **Programme on International Day of the Girl Child and International Day of Rural Women Held on: 16th October, 2023**

October 16th saw Raidighi College pulsate with empowerment! In a poignant celebration of womanhood, two global days coalesced – International Day of the Girl Child and International Day of Rural Women. The campus resounded with vibrant discussions, showcasing the challenges and triumphs of girls and women, both in rural and urban landscapes. Powerful poetry by students echoed their dreams and struggles, while interactive workshops tackled issues like gender bias and access to education. Guest speakers, rural women themselves, shared their inspiring stories of resilience and innovation. The day culminated in a poignant dance performance, a tapestry of movement that spoke volumes about female solidarity and strength. This wasn't just a campus event – it was a ripple of awareness, urging everyone to champion the cause of girls and women, rural and urban, who are changemakers shaping a brighter future.



  
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**Celebration of International Girls' Child Day 2021 10 06 at 22 37 GMT 7**




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**Our student participating in International Girl Child Day 2021**



  
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youtube.com/watch?v=e8yKFzfrtXc&t=910s

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জাতীয় কন্যাশিশু দিবস (National Girl Child Day) এ রায়দিঘি কলেজের নিবেদন



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**OTHER PROGRAMMES INVOLVING GIRL STUDENTS**



XCRR+M7Q, Raidighi, West Bengal 743383, India

Latitude  
21.99167088°

Longitude  
88.44083927°

Local 11:58:15 AM  
GMT 06:28:15 AM

Altitude 6 m  
Thursday, 04.01.2024

**Credit Card Awareness Programme**



  
Dr. Sasabindu Jana  
Principal  
RAIDIGHI COLLEGE

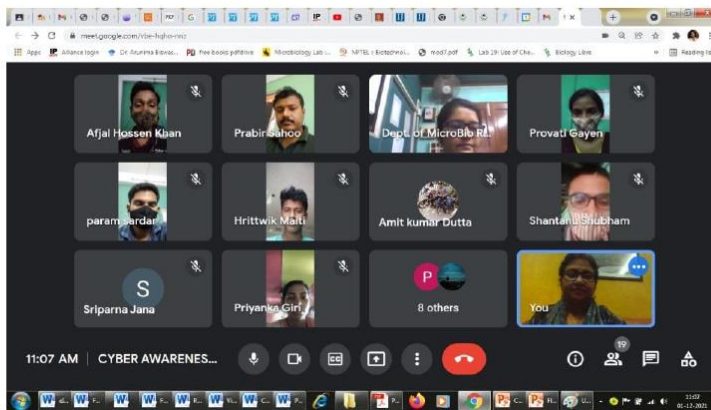
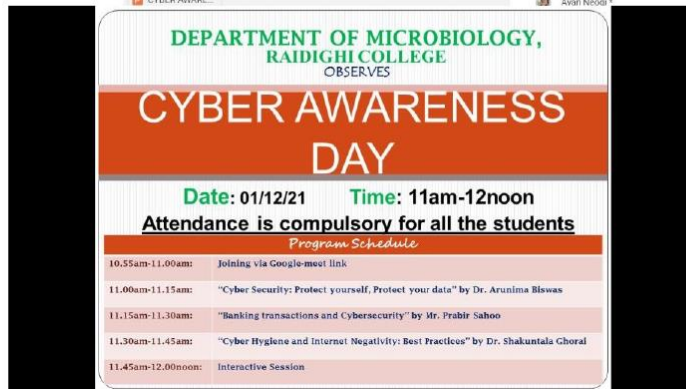
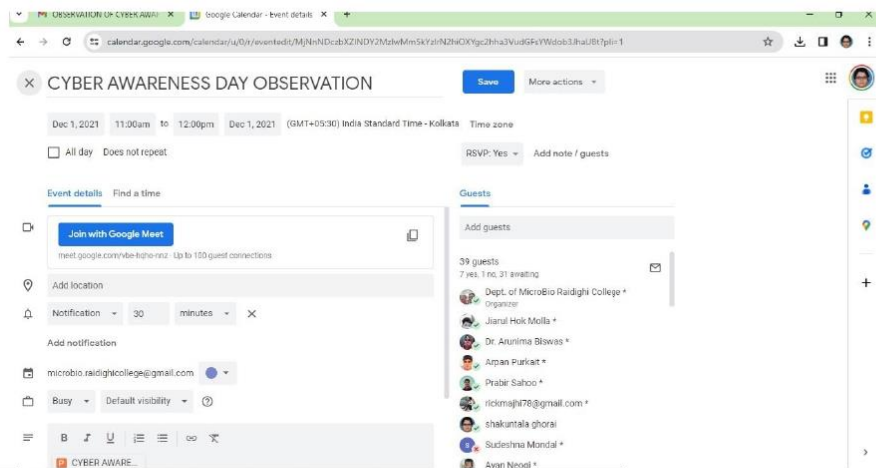


Cyber Awareness Day\_1<sup>st</sup> December 2021

Conducted via online mode

Faculty: 3

Students: 16



**Cyber Awareness Day**



*Dr. Sasabindu Jana*  
 Dr. Sasabindu Jana  
 Principal  
 RAIDIGHI COLLEGE



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## National Nutrition Month Celebration by Department of Food and Nutrition at Amala Vidya Mandir, Raidighi ( 6 to 9 years)

Sunlight dappled through the trees of Amala Vidya Mandir as the aroma of freshly baked muffins filled the air. Laughter and eager chatter mingled with the clatter of pots and pans, a vibrant symphony emanating from the schoolyard. Raidighi College's Department of Food and Nutrition, armed with knowledge and a passion for well-being, had descended upon the school to celebrate National Nutrition Month in a unique and engaging way.

Gone were the sterile classrooms and dry lectures. Today, the schoolyard transformed into a culinary classroom, a stage for interactive learning and delicious exploration. Students from Raidighi College, transformed into temporary nutritional educators, guided their younger companions through hands-on workshops. Deft hands measured, chopped, and kneaded, mixing healthy ingredients into scrumptious delights. Banana oat muffins yielded to the magic of baking soda, beetroot salads morphed into vibrant rainbows on plates, and fruit shakes whirred to life, promising a burst of vitamins and energy.

But the learning wasn't confined to the kitchen. Interactive quiz games tested the youngsters' knowledge about healthy choices, while puppet shows and catchy rhymes brought complex nutritional concepts to life in a way that resonated with their laughter. Soon, the schoolyard buzzed with chatter about balanced meals, hidden sugars, and the importance of water.

By the end of the day, more than just bellies were full. Amala Vidya Mandir students carried home not just the sweetness of muffins and the tang of beetroot salad, but the seeds of nutritional awareness. Raidighi College, through its innovative celebration, had not only brought the joy of cooking to young minds, but had also planted the seeds of healthy habits that would take root and flourish long after the day was over. This wasn't just a National Nutrition Month event; it was a promise, a pledge to empower younger generations to make informed choices, one delicious bite at a time.



## Outreach Programme with Girl Students



  
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youtube.com/watch?v=NfT42TqluWI



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INTERNATIONAL  
*Women's Day*

**DEPARTMENT OF MICROBIOLOGY**  
in collaboration with  
*Women's Cell*  
& **ICAC**  
of *Raidighi College*  
pays a humble tribute to some of the  
**Great Women Scientists**  
who have made significant contributions in Biology

*#She Persisted*    *#She Discovered*  
*#She Inspired*

## Raidighi College celebrates International Women's Day



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**RECOGNITION: SAMPLE**  
**CERTIFICATE**



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**Dr. Sasabindu Jana**  
Principal  
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Email – [raidighicollege95@gmail.com](mailto:raidighicollege95@gmail.com)



### AMENITIES FOR GIRL STUDENTS



CCTV surveillance in the AJC Bose Bhawan, Swami Vivekananda Bhawan & Office



Security services for entry



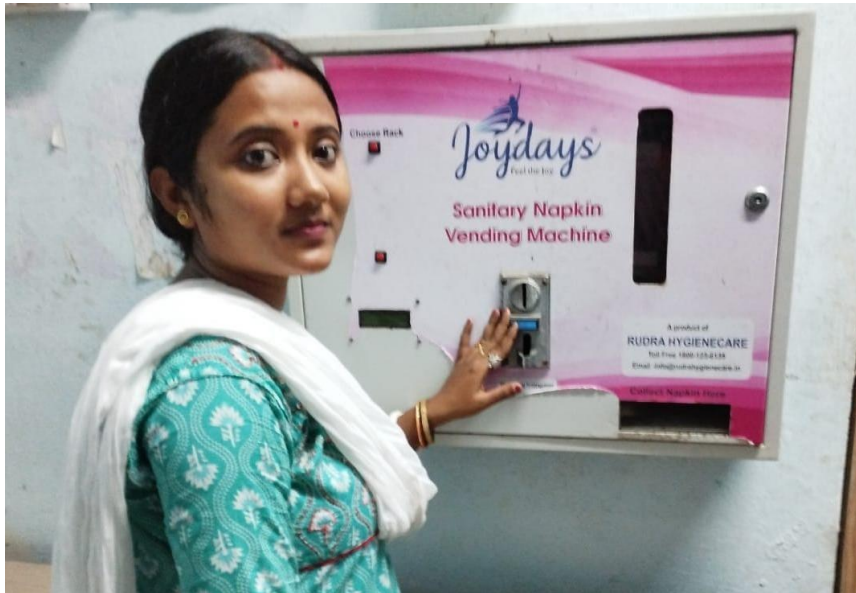
  
Dr. Sasabindu Jana  
Principal  
RAIDIGHI COLLEGE



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**Girls' Common Room with Pink Toilet**



**Sanitary Napkin Vending Machine**



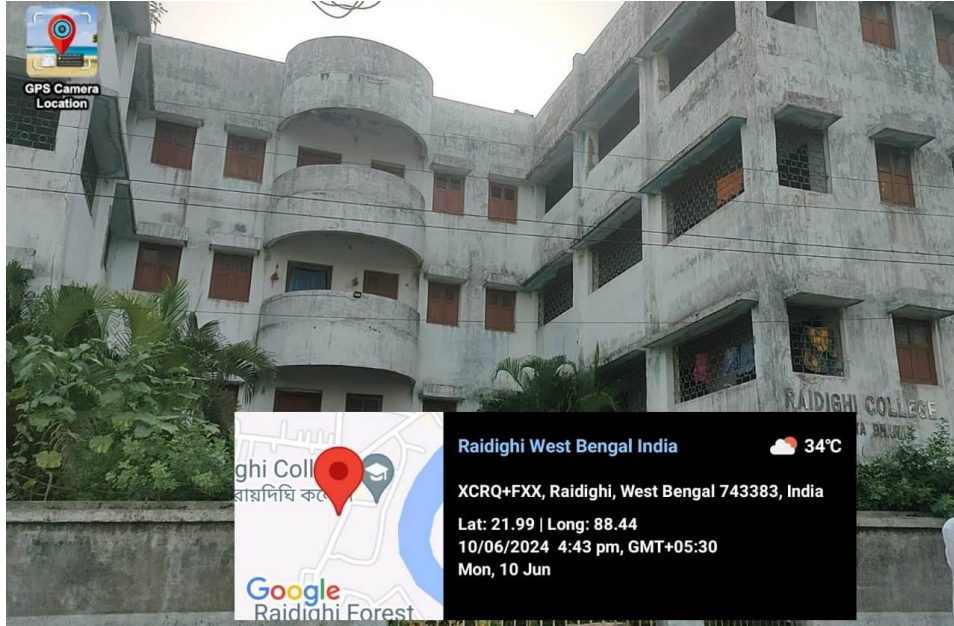
  
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### GIRLS' HOSTEL: SAMPLE PHOTOGRAPHS



  
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Raidighi West Bengal India

34°C

XCRR+M7Q, Raidighi, West Bengal 743383, India

Lat: 21.99 | Long: 88.44

10/06/2024 4:48 pm, GMT+05:30

Mon, 10 Jun



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
RAIDIGHI COLLEGE




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**VISHAKHAA GUIDELINES ON DISPLAY: SAMPLE PHOTOGRAPHS**



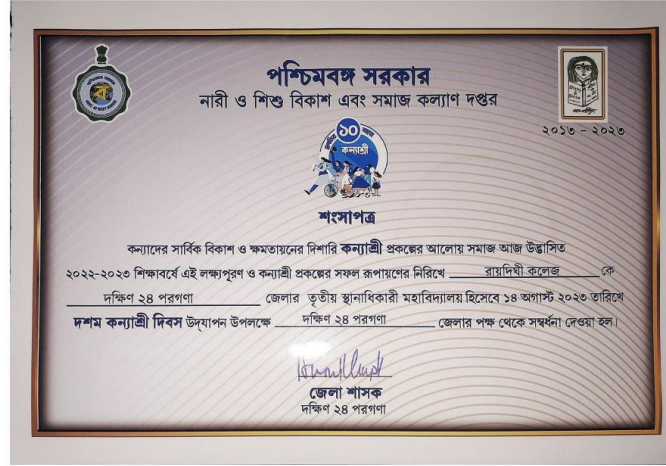
  
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**KANYASHREE AWARD: SAMPLE PHOTOGRAPHS**



  
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Principal  
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OFFICE OF THE  
DISTRICT MAGISTRATE & COLLECTOR  
SOUTH 24 PARGANAS

Office: 12, Biplobi Kanai Bhattacharya Sarani, Alipore, Kolkata - 700027  
Phone: 033-2449 0944 / 2479 1654, Fax: 033-2448 7871  
Email: dm.s24pgs@gmail.com, dm-ai@nic.in



Memo No. 1107/SUD(S24P) Dated: 08/08/2023

To  
The Principal,  
Raidighi College,  
Mathurapur-II Block,  
Raidighi, South 24 Parganas

**Sub: Invitation.**

Sir/Madam,  
You are aware of the fact that Kanyashree scheme is going to complete 10 years. The scheme was launched in the year 2013 and this year there is a plan to celebrate the Kanyashree Day 2023 with grandeur.

Hence, on account of the observance of 10th Kanyashree Day on 14th August 2023, your college has been selected as top performer in Kanyashree Prkalpa for 2022-23.

You are requested to participate our District Kanyashree Dhas Programme on 14 August 2023 at Office of the District Magistrate Office, New Administrative Building, South 24 parganas, 3<sup>rd</sup> floor Conference room at 12 noon, where invitees are to be felicitated by the district authority.

Yours sincerely

Officer In charge-Kanyashree Prkalpa  
South 24 Parganas

Memo No. 1107/1(2)/SWD(S24P) Dated: The 08/08/2023

Copy forwarded for information to:

- 1) The Block Development Officer, Mathurapur-II, South 24 Parganas with request to intimate the college.
- 2) CA to the District Magistrate, South 24 Parganas.
- 3) CA to the Additional District Magistrate (Treasury), South 24 Parganas.

Officer In charge-Kanyashree Prkalpa  
South 24 Parganas



  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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**AWARD FROM THE BDO OFFICE**

OFFICE OF THE  
BLOCK DEVELOPMENT OFFICER  
MATHURAPUR-II DEVELOPMENT BLOCK  
COMPANIRTHEK, P.O- BAKULTALA,  
SOUTH 24 PARGANAS.

---

Memo No. /Mpur II Date.

**Nari Shakti Award**

This award certificate is proudly presented to Raidighi College in appreciation of their continuous effort and sincere dedication to promote women's higher education, empowerment and welfare in Mathurapur-II block.

*[Handwritten Signature]*  
Block Development Officer  
Mathurapur-II Development Block  
South 24 Parganas  
Block Development Officer  
Mathurapur- II Dev. Block  
South 24 Parganas



*[Handwritten Signature]*  
Dr. Sasabindu Jana  
Principal  
PRINCIPAL  
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**More details may be accessed from:**

**<http://www.raidighicollege.in/College%20Events.html>**



  
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