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# RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

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## 7.1.3 Answers to DVV Queries

### 7.1.3 – Policy Document

Environment and Green Audit policy adopted by Rammohan College, is a stage-wise review process of systematic identification, quantification, recording, reporting, analysis and documentation of the components of environmental diversity of the College. The Green Audit policy has been designed to ensure the implementation of the Kyoto Protocol for the sustainable development of the country.

The College has adopted the following measures as a part of its Green Campus Initiatives –

1. To reduce electricity consumption the College encourages the use of alternate sources of energy – solar power and LED/CFL lamps.
2. Rainwater harvesting system up gradation and water conservation implemented
3. Waste management system including disposal of E-Waste implemented
4. Segregation of waste is done and the collection of Non-degradable materials is collected separately by the Kolkata Municipal Corporation for recycling.
5. Efforts are made to reduce 'Carbon footprint' in the campus.
6. To maintain green, healthy campus, trees are planted to increase Oxygen emission – environmental awareness is enhanced through programmes conducted by the National Service Scheme.



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The College has authorized RSP Green Development and Laboratories Pvt. Ltd, an ISO 9001:2015 and ISO 14001:2015 certified Company to conduct Green, Environmental and Energy audit in Rammohan College campuses for 2018-19, 2019-20, 2020-21, 2021-22 and 2022-23 and submit reports.



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## Action Taken and Achievement Analysis of Green Campus Initiatives by Rammohan College (2018-2023)

### Analysis 2018-2019

1. Total 2,34,000 Litre of water has been used per month
2. Average 1848.08 unit/month (New Science Building) and 12406.33 unit/month (Old Building) electricity consumption.
3. No segregation of waste produced
4. Biodiversity assessment has been done but PBR records has not yet been done.
5. Carbon Foot Print: 30575 kg (NSB) and 13372 kg (Old Building)
6. No carbon credit has been calculated

### Recommendations

1. Increase installation of CFL/LED to reduce electricity consumption.
2. Arrange segregation of degradable and non-degradable waste products
3. Calculate Shannon- Wiener Index
4. Calculate TH1 and WBGT
5. Construction of two new floors by Rashtriya Uchchar Shiksha Abhiyan(RUSA) must follow intelligent building concept.



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## Analysis 2019-2020

1. Average electricity consumption of New Science Building 2002.67 unit/month (8.33% increase) and 9069.33 unit/month (26.89% decrease) in Old Building due to installation of LED tubes and bulbs.
2. Segregation of bio-degradable and non-bio degradable waste management has been implemented.
3. Shannon- Wiener index of weeds has been calculated.
4. Letter from West Bengal Biodiversity Board received regarding preparation of 'Peoples Biodiversity Registrar '(PBR) under instruction of National Green Tribunal.
5. Construction for up gradation of Rainwater Harvest system started (additional 65000 L storage capacity).
6. No Carbon foot print and Carbon credit has been analysed.

## Recommendations

1. Installation of Solar Panel for green energy in New Science Building to reduce electricity consumption further.
2. Renovation of Rain Water Harvest System into Ecosystem Model Pond.
3. Establishment of Ethnobotany and Ethnomedicine garden.
4. Completion of PBR OF Ward No. 27 and Ward No. 38 within 6 months and submission to Kolkata Municipal Corporation Biodiversity Committee.
5. Formation of Bio-Diversity Management Committee (BMC) of Ward Nos. 27 and 38.
6. Formation of BASUDHA



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## Analysis 2020-2021

1. Average electricity consumption of New Science Building is 898.42 unit/month (55% decrease from previous year) and Old Building is 4680.98 unit/month (48.39% decrease from previous year).

Remark: The reduction of consumption is due to Lockdown.

2. Ecosystem Pond has been established

3. BASUDHA has been formed

Members: a) Principal

b) IQAC Convenor

c) NAAC Coordinator

d) Bursar

e) Three Teachers' Representatives to the Governing Body

f) Teachers' Council Secretary

g) 5 Teaching Staff from Science, Arts and Commerce

h) One Non-Teaching Staff

i) One Student's Representative

4. Carbon Foot Print of New Science Building is 30575 kg CO<sub>2</sub>

5. Carbon Credit of Rammohan College has been calculated 10.63

6. PBR of Ward No. 27 complete.



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## Recommendations

1. Activation of Solar grid converter with Calcutta Electric Supply Corporation(CESC) grid for 3<sup>rd</sup> and 4<sup>th</sup> floor of New Science Building.
2. Completion of Enhanced Storage capacity 65000L of Rain water storage tank.
3. Completion and publication of PBR of Ward No. 38.

## Analysis 2021-2022

1. Average electricity consumption of New Science Building is 1665.75 units/month (185% increase from previous year but 9% decrease from the base line year 2018) and Old Building is 7540 unit/month (61% increase from previous year but 39% decrease from the baseline year 2018)

Analysis: Huge consumption of electricity in the month of April-May, 2021, due to occupancy of the Old Building by the Election Commission.

In the New Science Building, two additional floors have been constructed by using electricity in the year 2021.

2. PBR of Ward No. 27 and Ward No. 38 complete.
3. Documentation of Campus Biodiversity completed by BASUDHA
4. Training of students about Green Campus by using Ecosystem pond and Ethnobotany Garden.
5. No significant improvement in Carbon Foot Print and Carbon Credit.

## Recommendations

1. Reduce electricity consumption and promotion of 'Green Energy'
2. Recycling and use of 'Rain Water'.



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## Analysis 2022-2023

1. Average electricity consumption of New Science Building is 3225.16 unit/month (193% increase from previous year). The increase in consumption is due to Lift and Central Instrument Facility.
2. No significant reduction in water management.
3. PBR of Ward No.27 and Ward No. 38 are totally complete and submitted.
4. Complete segregation of Degradable and Non-degradable and Hazardous waste.
5. 13,500L Rain water storage capacity complete.
6. Carbon credit and Carbon Foot Print calculations regularized.
7. 70% of New Science Building has been covered by LED Tube.
8. Solar Panel and Green Energy is fully functional.
9. E-waste management system implemented.
10. BASUDHA is conducting awareness camps among students, New Science Building has been declared as 'Plastic Free Zone'.



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## 7.1.3: Reports of Green, Environment and Energy Audits (2018-23).

### 1. Audit report 2018-19

<https://rammohancollege.ac.in/images/SSR%20Criteria%207/1.pdf>

### 2. Audit report 2019-20

<https://rammohancollege.ac.in/images/SSR%20Criteria%207/2.pdf>

### 3. Audit report 2020-21

<https://rammohancollege.ac.in/images/SSR%20Criteria%207/3.pdf>

### 4. Audit report 2021-22

<https://rammohancollege.ac.in/images/SSR%20Criteria%207/4.pdf>

### 5. Audit report 2022-23

<https://rammohancollege.ac.in/images/SSR%20Criteria%207/5.pdf>



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## Certificates from Auditing Agency:




**Rammohan College**

102/1, 85A, 85B, 85C & 85D, Raja Rammohan Sarani, Kolkata, West Bengal 700009

**Green, Environmental and Energy Audit Report**

**2018-2019**





Prepared by

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An ISO 9001: 2015 & ISO 14001: 2015 Certified Company

QCI-NABET ACCREDITED ENVIRONMENTAL CONSULTANT

CIN NO: U74999WB2017PTC219565



To  
The Principal  
Rammohan College  
102/1, Raja Rammohan Sarani,  
Kolkata-700009

Sub: Submission of the Green Audit Report Conducted by Rammohan College, 102/1, 85A, 85B, 85C & 85D, Raja Rammohan Sarani, Kolkata-700009 in association with RSP Green Development & Laboratories Pvt. Ltd.

Respected Madam,

On behalf of RSP Green Development & Laboratories Pvt. Ltd., it has been certified that the assigned Green Audit Programme, comprising Energy Audit, Water Audit, Biodiversity Audit, Green Campus Management Audit, Plastic Waste Management, Carbon Foot Print Audit and Carbon Credit, had been successfully completed by Rammohan College, 102/1, 85A, 85B, 85C & 85D, Raja Rammohan Sarani, Kolkata-700009 in association with RSP Green Development & Laboratories Pvt. Ltd. on 15.03.2019. After completion of the work, Final Report has been submitted to you. The report is compiled with Work-sheets, Comparative Assessment through analyses and suggestions for your Institution at the end.

The organization is thankful for your necessary support and adequate cooperation by providing needful information, requisite documents and sharing your institutional activities. We are further thankful to your humble hospitality for our staff and volunteers at the time of work.

Yours sincerely,

Pinaki Roy  
Managing Director  
RSP Green Development & Laboratory Pvt. Ltd.



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**Green, Environmental and Energy Audit Report**

**2019-2020**





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CIN NO: U74999WB2017PTC219565



To  
The Principal  
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102/1, Raja Rammohan Sarani,  
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Sub: Submission of the Green Audit Report Conducted by Rammohan College, 102/1, 85A, 85B, 85C & 85D, Raja Rammohan Sarani, Kolkata-700009 in association with RSP Green Development & Laboratories Pvt. Ltd.

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**2020-2021**





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Sub: Submission of the Green Audit Report Conducted by Rammohan College, 102/1, 85A, 85B, 85C & 85D, Raja Rammohan Sarani, Kolkata-700009 in association with RSP Green Development & Laboratories Pvt. Ltd.

Respected Madam,

On behalf of RSP Green Development & Laboratories Pvt. Ltd., it has been certified that the assigned **Green Audit Programme**, comprising **Energy Audit, Water Audit, Biodiversity Audit, Green Campus Management Audit, Plastic Waste Management, Carbon Foot Print Audit** and **Carbon Credit**, had been successfully completed by Rammohan College, 102/1, 85A, 85B, 85C & 85D, Raja Rammohan Sarani, Kolkata-700009 in association with RSP Green Development & Laboratories Pvt. Ltd. on 15.03.2023. After completion of the work, **Final Report** has been submitted to you. The report is compiled with **Work-sheets, Comparative Assessment** through analyses and suggestions for your Institution at the end.

The organization is thankful for your necessary support and adequate cooperation by providing useful information, requisite documents and sharing your institutional activities. We are further thankful to your humble hospitality for our staff and volunteers at the time of work.

Yours sincerely

  
Pinaki Roy  
Managing Director

RSP Green Development & Laboratory Pvt. Ltd.

  
NABET

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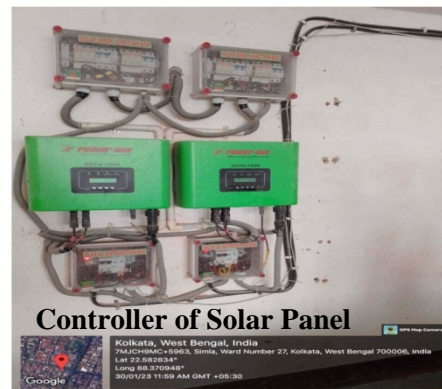
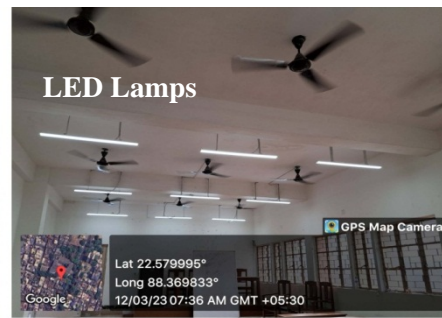
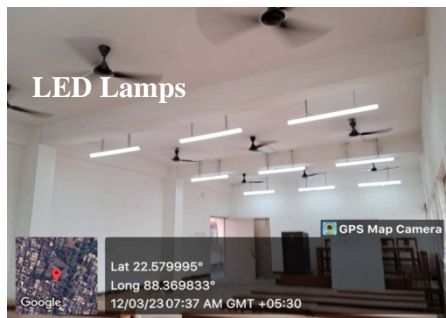
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## Geotagged Photos with Caption and Date

### 1. Alternate Sources of Energy



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## 2. Management of the various types of degradable and non-degradable wastes



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### 3. Water Conservation



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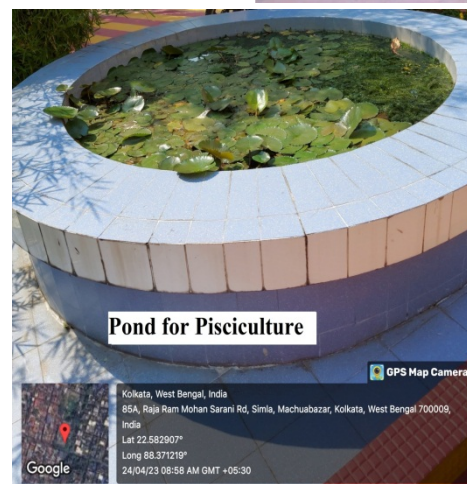
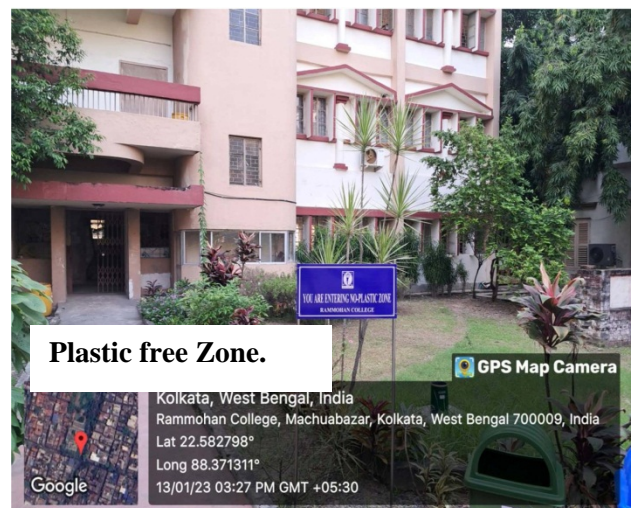
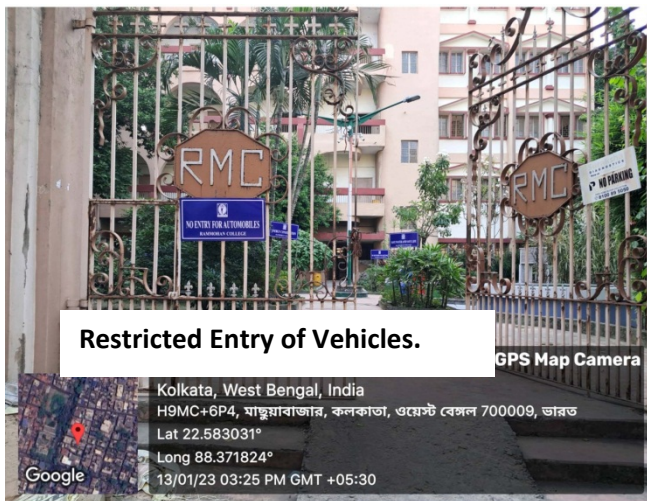
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## 4. Green Campus Initiatives



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## 5. Disabled –friendly, barrier-free environment



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## Documents for Beyond the Campus Environmental Promotions (2022-2023):

**Event name:** Swachh Bharat Abhiyan

**Brief description:** A cleanliness programme was organized on 16<sup>th</sup> December, 2022 at 3.30 pm at the premises of New Science building of Rammohan College and the Rammohan Sarani. Total 44 volunteers and 3 teachers attended the campaign. On that day, all the NSS volunteers participated to clean the adjacent path of the college and the nearby street. They picked up the junk from the campus, along the streets and also swept the whole surrounding. Then they spread bleaching powder. This programme was arranged to make the students understand the importance of cleanliness, how they can keep their surrounding clean and also to make them aware of their duty as a responsible member of the community.

**Photo:**



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**Event name:** Awareness campaign on dengue and Malaria.

**Brief description:** The NSS Unit of Rammohan College arranged an awareness campaign to aware the people on 'Dengue' and 'Malaria' on 20<sup>th</sup> December, 2022. The campaign started from 2.30 pm and ended at 5 pm. Total 48 volunteers and 4 teachers attended the campaign. The volunteers made several placards on the said topic and also raised slogans during the campaign. They visited the slum area of Rammohan Sarani and Chaltabagan area. They gathered the crowd and made them aware of causes of malaria, dengue and how they can fight against them. They also advised them to keep the area clean. This programme raised awareness among people in the slum area, also helped the volunteers in boosting their confidence.

**Photo:**



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