



भा.वा.अ.शि.प.-वर्षा वन अनुसंधान संस्थान
ICFRE-RAIN FOREST RESEARCH INSTITUTE

भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद

Indian Council of Forestry Research & Education

(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के अधीनस्थ एक स्वायत्त परिषद)

(An Autonomous body of Ministry of Environment, Forest & Climate Change, Govt. of India)

देववन, जोरहाट - 785010, असम: Deovan, Jorhat-785010, Assam



हरित एवं पर्यावरण ऑडिट का प्रमाण पत्र
Certificate of Green and Environment Audit

यह प्रमाणित किया जाता है कि मनोहरी देवी कनोई गर्ल्स कॉलेज, डिब्रूगढ़, असम ने कॉलेज द्वारा कार्यान्वित हरित पहल और प्रयासों का आकलन करने के लिए 'हरित और पर्यावरण ऑडिट 2022-23' सफलतापूर्वक आयोजित किया है। इस संबंध में, हरित और पर्यावरण-अनुकूल परिसर को बनाए रखने की दिशा में कॉलेज प्राधिकरण, संकाय और छात्रों द्वारा किए गए प्रयास संतोषजनक पाए गए।

This is to certify that Manohari Devi Kanoi Girls' College, Dibrugarh, Assam has successfully conducted 'Green and Environment Audit 2022-23' to assess the green initiatives and efforts implemented by the college. In this regard, the efforts taken by the college authority, faculties and students towards maintaining a green and eco-friendly campus was found quite gratifying.

Overall grading: 'Very good' (A)

(डॉ. नितिन कुलकर्णी / Dr. Nitin Kulkarni)
निदेशक/Director

जोरहाट / Jorhat

दिनांक/Date: 23.07.2024



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No. RFRI/FECC/ENV-AUD/2021

दिनांक/Date: 23/07/2024

‘Green and Environment Audit Report 2022-23’ Manohari Devi Kanoi Girls’ College Dibrugarh, Assam

The Green and Environment Audit Team, **Manohari Devi Kanoi Girls’ College** Dibrugarh, Assam prepared the **‘Green and Environment Audit Report-2022-23’** incorporating all the activities/achievements done from 2017-18 to 2022-23. The report was submitted to ICFRE-Rain Forest Research Institute, Jorhat for necessary evaluation and suggestions for improvement. The ‘Green and Environment Audit’ committee for third party monitoring and evaluation from ICFRE-RFRI headed by Dr. Dhruva J. Das, Scientist-F, and Head, Forest Ecology and Climate Change division, ICFRE-RFRI along with Dr. Girish Gogoi, ACTO (member) reviewed the report and provided necessary guidance in the form of suggestions and comments for further improvement. The suggestions were duly incorporated in the Green and Environment Audit Report. The ICFRE-RFRI committee visited the college on 25 June, 2024 to inspect and monitor the various facilities, infrastructures, plantations and other green environment related management initiatives mentioned in the ‘Green and Environment audit report-2022-23’.

The monitoring team, ICFRE-RFRI interacted with Dr. Nibedita Phukan, Principal & Chairman of the Green Audit team; Dr. Utpal Sut, Assistant Professor & IQAC Coordinator; Dr. Anita Sharma, Assistant Professor; Dr. Sukanya Boruah, Assistant Professor; Dr. Bornali Nath Dowerah, Assistant Professor; Dr. Mitali Sonowal, Assistant Professor; Prof. Bhagya Lakhi Boruah, Assistant Professor and all members of Green and Environment Audit Team and faculties of various departments dealt with the preparation of the report. The principal of the college welcomed the monitoring team of ICFRE-RFRI. Dr. Dhruva Jyoti Das, team leader, ICFRE-RFRI monitoring team briefed about the objectives of Green and environment audit. The ICFRE-RFRI team was accompanied by the entire above mentioned faculty members during visit of the college. The ICFRE-RFRI team visited the

water collection sources, water purifying system, sources of air, noise and soil pollution, human health, hostels, library, Chemistry lab., Physics lab. and safety measures followed in the college. The ICFRE-RFRI team also visited the various departments, Solar lights, LED lights, infrastructures, plantations, drainage system, different dustbins, signboards and other facilities available in the College campus related to environment.

The college has two campuses and are located in the heart of Dibrugarh town. One campus with Arts stream is a two storied building and second campus with Science stream is four storied building. Both the campuses have very limited space for plantation of trees, shrubs and herbs. To counter this constraint, the college authority decided to go for plantation in the nearby adopted village called Nagakhelia Gaon. Plantation of about a total of 50 plants was done in the said village where the survival percentage was found more than 60%. Some of the important plant species found in the campus include *Polyalthia longifolia*, *Gmelina* sp., *Cinnamomum* sp., *Psidium* sp., *Magnifera indica*, *Thuja* sp., *Phyllanthus emblica*, *Syzygium cumini*, *Pteris* sp., *Cycas* sp., *Dracaena braunii*, *Averrhoa carambola*, *Alstonia* sp, *Nyctanthes arbor-tristis*, *Rosa* sp. *Ocimum* sp., *Cinnamomum tamala*, etc.

Various signboards displayed for awareness located at important places were also checked. Dry and Wet dustbins in different locations of the college were also seen and found satisfactory. In order to save and conserve energy, LED bulbs and tubes have been found used in almost all the classrooms, principal's office, administrative office, library of the college. The other initiatives as mentioned in the Green Audit report were visited as well.

Some of the photographs of the visit and inspection are given below:



Main entrance of MDK Girls' college



Group photo with the Principal and the Green Audit team



Interaction with the Green Audit team



Interaction with the faculty member & students



A view of the college campus



A view of the college campus



Polyalthia longifolia tree with orchid



Quotation to save tree



Quotation to save tree



Quotation to reduce pollution



Quotation to make the college campus plastic free



Quotation to make the college campus 'No smoking Zone'



Wall magazine maintained by Eco Club of the college



Aquaguard RO water purifier for the college students



Green dustbins for segregation of wet waste



Blue dustbins for segregation of dry waste



Sanitary pad vending machine and incinerator



Solar lights in the college campus



Vermi-composting unit in the college campus



Vermi-composting unit in the college campus

Each component under 'Green and Environment Audit' was inspected on ground and grading was done as shown below:


SN.	Parameters	Grade
1	Phyto-diversity Status of the College Campus	B+
2	Green biomass/Carbon Stock of the College Campus	B+
3	Water Quality Assessment and Management	B+
4	Air Quality Assessment and Management	A
5	Noise Pollution assessment and Management	A
6	Soil quality Assessment and management	A+
7	Waste Management	A+
8	Energy Consumption and Management	A
9	Health & hygiene Management	A
10	Awareness programmes organized by the college	A+
	Overall grading	A


Grading system:		
Grade	Scale	Grade Description
O	10	Outstanding
A+	9.00 - 9.99	Excellent
A	8.00 - 8.99	Very Good
B+	7.00 - 7.99	Good
B	6.00 - 6.99	Above Average
C	5.00 - 5.99	Average
P	4.00 - 4.99	Pass
S	3.00 - 3.99	Satisfactory
F	0.00 - 2.99	Fail

The final grading of overall activities as mentioned in the Green and Environment Audit Report were found 'Very Good (A)'. However, the following recommendations are given to the Green and Environment Audit Team and college authority to be followed for further improvement in this regard:

Recommendations:

- (1) Larger solar panel should be installed in the college so that most of the energy requirement may be met from the renewable source of energy which eventually shall minimize the carbon foot print of the college. The roof top is a good option for such purpose.
- (2) Biogas units may be setup in the college campus to minimize the consumption of fossil fuel.
- (3) Source of water to be used for daily consumption is of extreme importance for the overall sanitation of the campus. The sources of water in the college are predominantly the tube well and tap water. The bacteriological testing of water may be done to ensure the potability and thereby ensuring the health of the students, teachers and other members of the college.
- (4) Estimation of carbon footprint is of great importance as it helps in understanding the total amount of greenhouse gases that an organization, activity, product, company or country adds to the atmosphere. Carbon footprint of the college may be estimated in the next assessment.
- (5) Vermi-compost unit is an effective means for management of bio-waste of the college and at the same time these compost may be used as nutrition for plantations in the campus. Number of vermi-compost unit therefore may be increased in the campus.


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