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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)

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‘Green and Environment Audit Report 2022-23’ Dibrugarh Hanumanbux Surajmal Kanoi Commerce College Dibrugarh, Assam

The Green and Environment Audit Team, Dibrugarh Hanumanbux Surajmal Kanoi (DHSK) Commerce College, Dibrugarh, Assam prepared the ‘Green and Environment Audit Report-2022-23’ incorporating all the activities/achievements done during the year 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. Khanindra Mishra Bhagawati, Principal and Chairman, Green Audit team; Dr. Tanka Prasad Upadhaya, IQAC Coordinator; Dr. Pankaj Sahu, Team Leader; Dr. Bhupesh Bhagawati, member; Dr. Tulika Mattack, member; Dr. Nabajyoti Dutta, member, Mrs. Bani Kachari, member and Dr. Ajit Goswami, member of the Green Audit team of the college. Dr. Dhruva Jyoti Das, team leader, ICFRE-RFRI monitoring team briefed about the objectives of Green and environment audit. The principal of the college welcomed the monitoring team of ICFRE-RFRI. Dr. Pankaj Sahu, Team Leader accompanied the ICFRE-RFRI monitoring team during the visit. The ICFRE-RFRI team visited the water collection sources, water purifying units, sources of air, noise and soil pollution, library and safety measures adopted and waste management systems operative in the college. The ICFRE-

RFRI team also visited the various infrastructures, hostels, plantations, drainage system, different dustbins, signboards and other facilities available in the College campus related to environment.

The college has three campuses viz. 1) main college building, located at KC Gogoi Path, Dibrugarh, Assam and its geographical location is 27°28'45.66"N latitude and 94°55'23.18"E longitude covering an area of 0.33 ha, 2) Women's Hostel, located at Khalihamari, Dibrugarh and its geographical location is 27°28'45.75"N latitude and 94°54'50.23"E longitude covering an area of 0.29 ha, 3) Banipur campus where newly constructed Boys' Hostel is located and its geographical location is 27°27'56.47"N latitude, and 94°56'38.55"E longitude covering an area of 1.20 ha. Various plants (trees, shrubs and herbs) were also planted in the campus from time to time for keeping the air in the campus pollution free and of good quality. A total of 155 seedlings/saplings were planted in the three campuses of the college during the year where the survival percentage was found 70%. Some of the important species found in the three campuses of the college includes *Mimusops elengi*, *Delonix regia*, *Mesua ferrea*, *Azadirachta indica*, *Mangifera indica*, *Nyctanthes arbortristis*, *Polyalthia longifolia*, *Terminalia arjuna*, *Terminalia chebula*, *Psidium guajava*, *Elaeocarpus floribundus*, *Pterocarpus santalinus*, *Alstonia scholaris*, *Phyllanthus emblica*, *Syzygium cumini*, *Morinda citrifolia*, *Tradescantia zebrina*, *Dracaena trifasciata* 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 the College



Group photo with the Principal & faculty members



A view of the Banipur campus



Women's Hostel of the College



Drinking water reservoir and taps



Rain water harvesting unit



Areca plantation during the year



Dr. Dhruba J. Das, Sc-F interacting with Dr. Pankaj Sahu, Asstt. Professor



QR code fitted in each plant during the year



Decoding of QR code of the Red sandalwood



Quotation on clean and green campus



Solar lights in the Banipur Campus



New plantation in the Banipur campus



New plantation in the Banipur campus



Sanitary napkin incinerators in the college



Dustbins for waste collection



Silence zone in the College



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	A
3	Water Quality Assessment and Management	A
4	Air Quality Assessment and Management	B+
5	Noise Pollution assessment and Management	B+
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, chemical as well as physical parameter of water may be tested in the interval of six months and thereby ensuring the health of the students, teachers and other members of the college.
- (4) Estimation of carbon footprint helps to know the total amount of greenhouse gases that the College adds to the atmosphere. Carbon footprint of the college may be estimated in the next assessment.
- (5) Maintenance of planted seedlings/samplings etc. should be done on a regular basis.
- (6) 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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(Member)



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Dr. Dhruba Jyoti Das
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Link Officer to Director
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