

7.1.6 Quality Audits

a) Green Audit

b) Certificate of Appreciation from Green Club of Raniganj

c) Beyond the campus environmental promotional activities

- Collaboration with the Department of Ecological Studies, International Centre for Ecological Engineering of the University of Kalyani for setting up a training centre in vermicomposting



Government of West Bengal
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TO WHOM IT MAY CONCERN

A green audit was conducted at Raniganj Girls' College on 24.12.2021 by the Office of the undersigned with help from the Principal & the Lecturers from Botany Department of the college. The followings are the observation and recommendations:-

General Remarks: - The Collage is located in an area of 6.4 acres with green vegetation. The campus comes under the fringe region of Chhotonagpur Plateau with lateritic soil and a subtropical climate setting with an average temperature hovering between 35° C summer and 20° C in winter.

Observations:- The College campus presently has 718 number of trees as well as adequate herbal & flowering plants. The list of 718 trees as submitted by the college is verified by the inspecting officer and attached with this report. Campus is clean and green.

Following steps toward Environmental consciousness have been taken.

1. The College campus is green with---
 - Flower plants like rose, chandramallika etc. which undoubtedly increases the aesthetic beauty of the college premises. The flowering plants are protected with permanent fencing and maintained & watered regularly.
 - Fruit and timber yielding plants like Mango, Jackfruit, Sofeda, Chalta, Jamrul, Coconut etc. is spread across the campus.
 - Herbal shrubs & plants like Pudina, Amloki, Kulekhera, Bohera, Haritaki, Kalmegh, Basak, Turmeric, Caedamom etc. is planted in separate plot near hostel.
2. The greenery in maintained by watering and pruning of plants by students & staffs.
3. Degradable wastes are converted into compost for own vegetation. One Vermicompost chamber is constructed near hostel for this purpose.
4. Small vegetation gardens are raised in the campus. The produces are partly consumed by the staffs of college & rest is sold in the market.
5. Use of plastics (Polythene, Thermocole, PVC etc.) is minimized and non-degradable waste like plastics etc. are handed over the Municipal garbage section.
6. Waste paper is sold to vendors for recycling. Some initiatives are taken by the students for recycling of waste paper by converting paper pulp into handicrafts like decorative pot, flower vase etc.
7. Some indoor plants decoration has been initiated by the students in several places of the college buildings including Principal's Chamber.
8. A small green shed net nursery has been initiated by the students where grafting of different species has been tried under guidance of the respective Teachers.
9. Rejected computers, printer, key-boards etc. in non working condition are either sold or send to concerned organization for recycling.

10. Use of tobacco for smoking and Chewing in the campus is strictly prohibited.
11. The College building(s) kept clean properly by sweeping and washing.
12. Classrooms are provided with cross-ventilation that ensures sufficient natural lighting thereby minimizing use of electricity.
13. Electric fitting and plumbing's kept in proper condition to prevent electricity leakage and water dripping.
14. All COVID protocols like sanitization, social distancing etc. as per Govt. Guidelines are properly maintained in the College Campus.
15. As reported the College takes adequate steps to sensitize student and staff about energy conservation, environment and pollution hazards.
16. All electrical appliances (light, fans, air-conditioners, refrigerators, laboratory instruments) are switched off when not in use.
17. The management of the college are planning to change most of the existing light sources to LED ones instead of CFL which has proven bad impact on health.
18. The college has installed water harvesting system and making use of stored rainwater. There are 3 rain water harvesting structures in the campus. The water is utilized for vegetation garden during dry season and also used for pisciculture, car washing etc.
19. College makes use of solar energy & has planned to install solar panels in the campus. There are approx. 10-11 solar lights in the campus.
20. There are several numbers of dustbins for disposal of garbage in the campus well distributed over the area.
21. There are 2 sports ground in the campus which are properly maintained.
22. Some Avenue/ Miscellaneous plantation gas also been taken up from different NGOs, Clubs with active participation from the College Authority.
23. Purchase of fans, refrigerators and air-conditioners etc. are being made keeping in mind low energy consumption and higher efficiency.
24. Collage has replaced CRT monitors with LCD monitors, and DOT matrix Printer with DeskJet & LaserJet printers.
25. Collage implements hazardous waste management with soak pits for waste water from Chemistry lab and other labs and uses water based chemical reaction.
26. The College observes Environment Day/ Earth Day, organizes seminars on environment-related issue. National environmental awareness campaign on biodiversity conservation has been conducted and certificate of excellence has been awarded by the Ministry of Environment & Forests (Government of India, 2008)

Recommendations:-

- 1) The ground should be planted at the periphery with 3 tiered canopy vegetations, the first tier with short canopy shrubs of flowering and medicinal variety, The second tier with middle canopy flowering species like Lagerstomea, Jacaranda, Cassia, Spathodia etc. and the last canopy with tall timber species like Sissoo, Mahogany, Piasal etc. This will not only add to the green cover but will increase the aesthetics of the college and become a revenue earning source as well.
- 2) All the existing plantations including flower garden, kitchen garden needs to be maintained properly including watering of the same on regular basis during dry season.

- 3) Some hedges with ixora, duranta, kamini etc should be made in the seasonal garden and in front of the college, The seasonal garden should also have some perennial flowering trees like Mussaenda, Ixora, Travellers tree, Aurucaria, Palms etc.
- 4) All electrical appliances should be converted to LED at the earliest.
- 5) More Solar lightings to be adopted wherever possible. Since a huge roof area of college & hostel building is available, the same can be used for placing solar panels which can generate electricity to cater a substantial portion of the overall consumption.
- 6) The rain water harvesting structures should be regularly maintained, one of the structure found non-operative during inspection which needs to be repaired immediately.
- 7) Some banners, flexes, permanent boards to be displayed in the college premises and hostels for raising environmental awareness as well as ban plastic/ tobacco etc.
- 8) Medicinal garden and kitchen garden need to be upgraded.


30/12/21
Divisional Forest Officer
Durgapur Division

Raniganj Girls' College

List of Plants (on 17.12.2021)

Sl. No.	Name of plant	Scientific name	Number
1	Amlaki /Amla tree	<i>Phyllanthus emblica</i>	2
2	Areca palm plant	<i>Dyopsis lutescens</i>	4
3	Arjun tree	<i>Terminalia arjuna</i>	2
4	Ashoka tree	<i>Saraca asoca</i>	2
5	Bahera tree	<i>Terminalia bellirica</i>	1
6	Bakul tree	<i>Mimusops elengi</i>	127
7	Ban Jhau	<i>Tamarix dioica</i>	41
8	Basak plant	<i>Justicia adhatoda</i>	1
9	Batabi lebu plant	<i>Citrus maxima</i>	1
10	Bel/wood apple	<i>Aegle marmelos</i>	1
11	Black Jam tree	<i>Syzygium cumini</i>	5
12	Bottle brush tree	<i>Callistemon spp</i>	1
13	Cashew tree	<i>Anacardium occidentale</i>	2
14	Castor oil plant	<i>Ricinus communis</i>	3
15	Chalta tree	<i>Dillenia indica</i>	3
16	Champa tree	<i>Plumeria spp.</i>	1
17	Chandan/Indian sandalwood tree	<i>Santalum album</i>	2
18	Chatim tree	<i>Alstonia scholaris</i>	1
19	Chinese rose plant	<i>Hibiscus rosa-sinensis</i>	10
20	Coconut tree	<i>Cocos nucifera</i>	18
21	Curry tree	<i>Murraya koenigii</i>	4
22	Dalim / Pomegranate tree	<i>Punica granatum</i>	6
23	Date Palm tree	<i>Phoenix dactylifera</i>	2
24	Debdaru tree	<i>Polyalthia longifolia</i>	61
25	Eucalyptus tree	<i>Eucalyptus globulus</i>	9
26	Gamhar tree	<i>Gmelina arborea</i>	2
27	Gandal patta plant	<i>Paedaria foetida</i>	43
28	Guava tree	<i>Psidium guajava</i>	4
29	Jackfruit tree	<i>Artocarpus heterophyllus</i>	6
30	Jamrul tree/ water apple tree	<i>Syzygium samarangense</i>	3
31	Kadam tree	<i>Neolamarckia cadamba</i>	2
32	Kagaj phool	<i>Bougainvillea glabra</i>	2
33	Kanchan plant	<i>Bauhinia variegata</i>	2
34	Karanga tree	<i>Pongamia pinnata</i>	4
35	Khirish tree	<i>Samanea saman</i>	2
36	Kolke plant	<i>Cascabela thevetia</i>	1
37	Krishnachura tree	<i>Delonix regia</i>	1
38	Kul tree/Indian jujube	<i>Ziziphus mauritiana</i>	1
39	Lemon plant	<i>Citrus limon</i>	2
40	Mango tree	<i>Mangifera indica</i>	16

Sukanta Rana
25/1/22

Chhabra
25.1.22
Principal
Raniganj Girls' College
P.O. - Seemole Bhaban, 713088
Dist. - Paschim Bardhaman

41	Mehagany tree	<i>Swietenia spp.</i>	2
42	Nayantara plant	<i>Catharanthus roseus</i>	8
43	Neem tree	<i>Azadirachta indica</i>	7
44	Palash tree	<i>Butea monosperma</i>	15
45	Pata bahar plant	<i>Codiaeum variegatum</i>	21
46	Pathar kuchi plant	<i>Kalanchoe pinnata</i>	1
47	Pencil plant	<i>Euphorbia tirucalli</i>	1
48	Rangan/West Indian Jasmine plant	<i>Ixora spp.</i>	3
49	Rose	<i>Rosa spp.</i>	206
50	Sarpagandha plant	<i>Rauwolfia serpentina</i>	2
51	Segun tree	<i>Tectona grandis</i>	41
52	Shimul tree	<i>Bombax ceiba</i>	1
53	Shishu tree/Indian rosewood tree	<i>Dalbergia sissoo</i>	9
54	Shiuli tree	<i>Nyctanthes arbor- tristis</i>	1
55	Siris tree	<i>Albizia lebbeck</i>	1
56	Sonajhuri tree	<i>Acacia auriculiformis</i>	1
57	Sopheda tree	<i>Manilkara zapota</i>	7
58	Tagar plant	<i>Tabernaemontana divaricata</i>	3
59	Tejpata tree	<i>Cinnamomum tamala</i>	1
60	Tulsi	<i>Ocimum tenuiflorum</i>	4
	Total		718

Sukanta Rana
25/1/22

Chhabi Das
25.1.22
Principal
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P.O. - Seemola Bazar, 751008
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GREEN CLUB OF RANIGANJ

(Regn. No.: IV-230400059/2020)

(NITI Aayog unique ID Number : WB/2021/0275338)



To
The Principal
Dr. Chhabi De
Principal, Raniganj Girls College
P O- Searsole Rajbari
District: Paschim Bardwan
West Bengal

21-03-2022

Certificate of Appreciation

Respected Madam

Green Club of Raniganj is proud to be a collaborator of the annual plantation initiatives of Raniganj Girls College undertaken and executed as part of the greening the campus program in 2020 and 2021. The sincere efforts and dedication of Raniganj Girls' College to the noble cause of protecting the environment are also highly appreciated.

A Seminar was also organized by Green Club of Raniganj, in association with Asansol-Durgapur Police Commissionerate on "CYBERCRIME & SECURITY AWARENESS" Of College Campus in 2018. About 500 College Students were present on that occasion.

Yours Sincerely

GREEN CLUB OF RANIGANJ
Rajesh Kumar Singh
President Secretary Treasurer

University of Kalyani

Department of Ecological Studies

International Centre for Ecological Engineering

Dr. J. N. Bhakta
Associate Professor



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No.:

Date:

To
The Hon'ble Vice-Chancellor
University of Kalyani
Kalyani 741235
Nadia, West Bengal



February 24, 2021

Subject: Request for permission to conduct vermicomposting training in collaboration with Ranigonj Girls' College, Raniganj

Respected Sir,

I have the honour to state that one of the important objectives of the Department of Ecological Studies and ICEE is the transformation of technologies from laboratory to land for the ultimate benefit of the society especially for the backward classes of the society as well as sustainable development of the society.

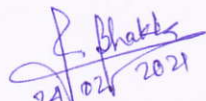
In this connection, I would like to conduct vermicomposting training in collaboration with Ranigonj Girls' College, Raniganj, West Bengal, since the said College is very much interested to conduct the training on vermicomposting for the poor farmers in collaboration with the department at their own expenditure. I and along with other faculties of the department will support to the college as expert persons in this regards.

It is also pertinent to mention herein that these types of activities of the department will carry a significant impact in the forthcoming evaluation of the NAAC.

Under the circumstances, it would be very much appreciated if you kindly approve the matter to conduct the collaborative training programme at the premises of Ranigonj Girls' College, Raniganj as extension activities along with other faculty members of the department.

Your kind cooperation will be highly appreciated.

With kind regards,
Sincerely yours,


24/02/2021
(Dr. J. N. Bhakta)

Approved


01-03-21
Vice-Chancellor
University of Kalyani