



Rayat Shikshan Sanstha's

R. B. Narayanrao Borawake College, Shrirampur

(Autonomous)

Dist. Ahilyanagar - 413709

Best Practice - I
for
Academic Year 2024-25
Green Campus Initiatives





Rayat Shikshan Sanstha's
R. B. Narayanrao Borawake College, Shirampur
(Autonomous)

Best Practices (2024-25)

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Best Practice- I

1) Title of the Practice: Green Campus Initiatives.

2) Objectives of the practice:

- To promote awareness of environmental issues among the students, staff, and society.
- To achieve better sustainability on the campus and improve the quality of life of all the Stakeholders.
- To conserve water resources through rainwater harvesting.
- To plant rare and medicinal/herbal plants on the college campus.
- To implement the 3 'R' (Reduce/Reuse/Recycle) policy on the campus.
- To enrich organic farming activity to avoid the use of pesticide-based vegetables.
- To utilize renewable energy sources such as solar energy.
- To organize seminars/workshops, expert lectures, etc. on environment-related issues.

3) The Context:

Nowadays, a clean environment has become a fundamental necessity for a healthy human life. The main aim of this initiative is to impart knowledge, raise awareness, and cultivate a sense of responsibility while developing the essential skills required to address environmental and pandemic-related challenges. The semi-urban setting and extensive green landscaping of our college play a vital role in shaping and sustaining an eco-friendly campus. The college is

spread over 42.27 acres of lush green area. The campus is an abode of wildlife species which has provided the context for initiating and imparting the practice for an eco-friendly campus.

4) The Practice:

- The college conducts periodically a green audit by external peers. The objective of the green audit is to promote Environment Management and Conservation on the college campus and introduce and aware students of the real concerns of the environment and its sustainability.
- Department of Botany has conducted programs for labelling the plants on the college campus.
- Department of Zoology has developed Vermicomposting unit on the campus.
- Solar street lights along the roadside on campus are also installed and used efficiently.
- The college is using renewable energy like solar energy for water heaters in girls and boy's hostels.
- The college has installed a Solar Power Generation Plant of 53 kWh.
- Effluent Treatment Plant (ETP) has been installed for the treatment of effluent generated from Chemistry laboratories.
- In this year Rs. 6.13 Lakhs have been incurred on green initiatives and waste management on the campus.
- Our institution has made the MoU's with Amol Scientific Glass Works, Babhaleshwar Tal. Rahata and Karimbhai Raddiwala Depo, Shrirampur respectively for proper disposal, recycling and reuse of raw glass materials and raw papers (Raddi).
- The college organizes seminars, workshops, expert lectures etc. on various challenging environmental issues.
- The energy audit of consumption of electricity in the college is conducted periodically by Aditi Engineering Services, Nashik.

5) Evidence of Success:

This best practice has proven to be successful through the following activities:

- Through periodical tree plantations, Flora and Fauna on the campus have enriched, which has turned into an eco-friendly campus.
- Awareness campaign for the plastic-free campus through signboards/display boards made campus plastic-free.
- Through the Effluent Treatment Plant (ETP), effluents from the Chemistry laboratory are recycled and treated water is utilized for different purposes.
- Vermicomposting units helped us to convert solid waste into organic fertilizers which have minimized the solid waste on the campus.
- The college has introduced UGC-funded Career Oriented Courses such as Vermicomposting and Rain Water Harvesting.
- “No Vehicle Day” helps us to minimize the air pollution on the campus.
- Through workshops/ seminars/expert lectures/ NSS/NCC activities, students are made aware of environmental issues.
- Green audit and Energy audit of the campus are done periodically and regularly.
- The Langstroth Hive Boxes are placed in the botanical garden for the conservation of honey bees and effective pollination of flowering plants.

6) Problems Encountered and Resources Required:

- Green Campus initiatives are challenging to implement, as they require strong determination and long-term commitment from all stakeholders.
- Green Campus initiative is a rather expensive practice. It needs expert advice and investment of resources.
- Less awareness of students and the community towards environmental issues.

7) Notes (Optional): --

Contact details:

Name of the Principal: Dr. Pravin V. Badadhe

Name of the Institution: Rayat Shikshan Sanstha's, R. B. Narayanrao Borawake College,
Shrirampur (Autonomous), Dist. Ahilyanagar

City: Shrirampur

Pin Code: 413709

Accredited Status: A⁺ Grade with CGPA 3.44 (3rd Cycle)

Work Phone: 02422-222347

Website: www.rbnbcollege.com

E-mail: rbnbcollege@gmail.com

Mobile: +91 9834566259



Rajyat Shikshan Sanstha's

**R. B. Narayanrao Borawake College, Shrirampur,
(Autonomous)
Dist. Ahilyanagar - 413709**

Best Practice - I

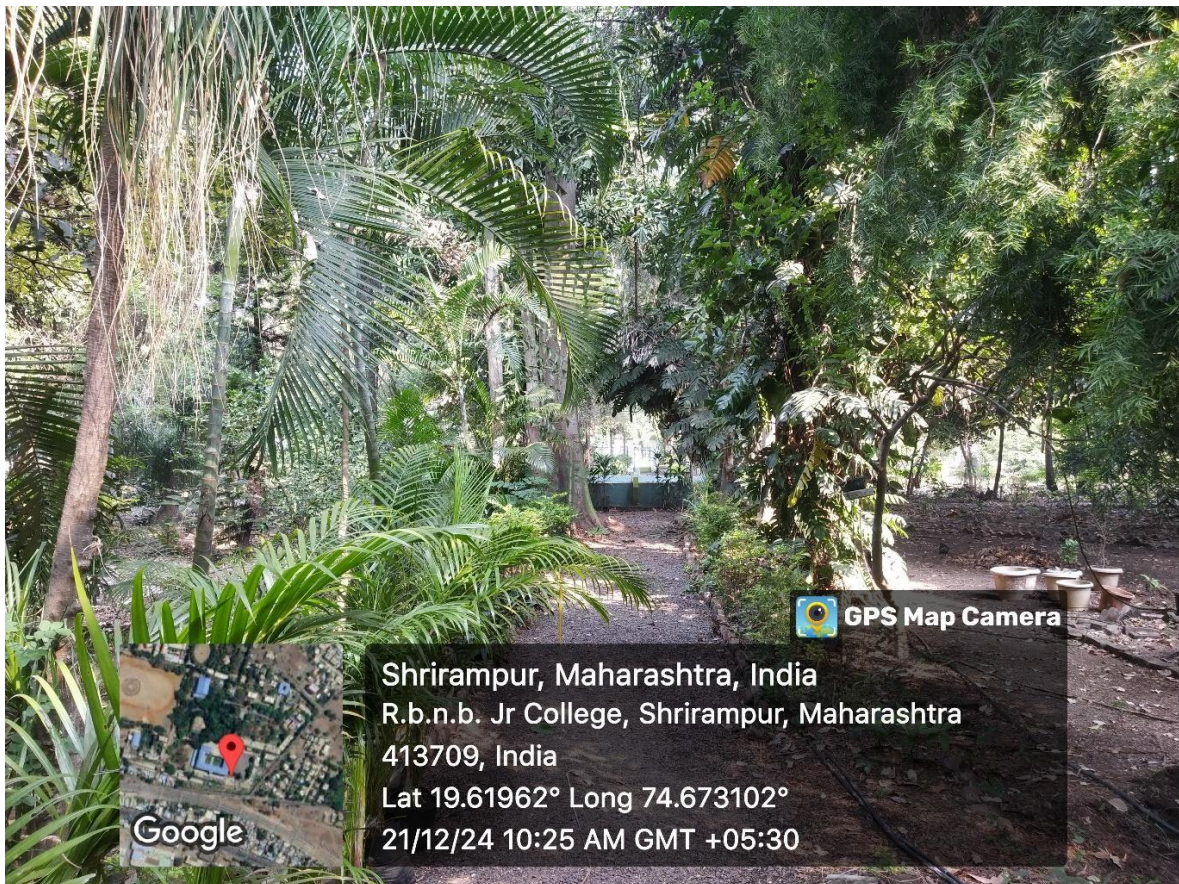
Green Campus Initiatives

(2024-25)

**Geo-tag Photographs of Campus, Audit
Reports, Bills/Vouchers and Water
Conservation Facilities in the Institution**

Green Campus









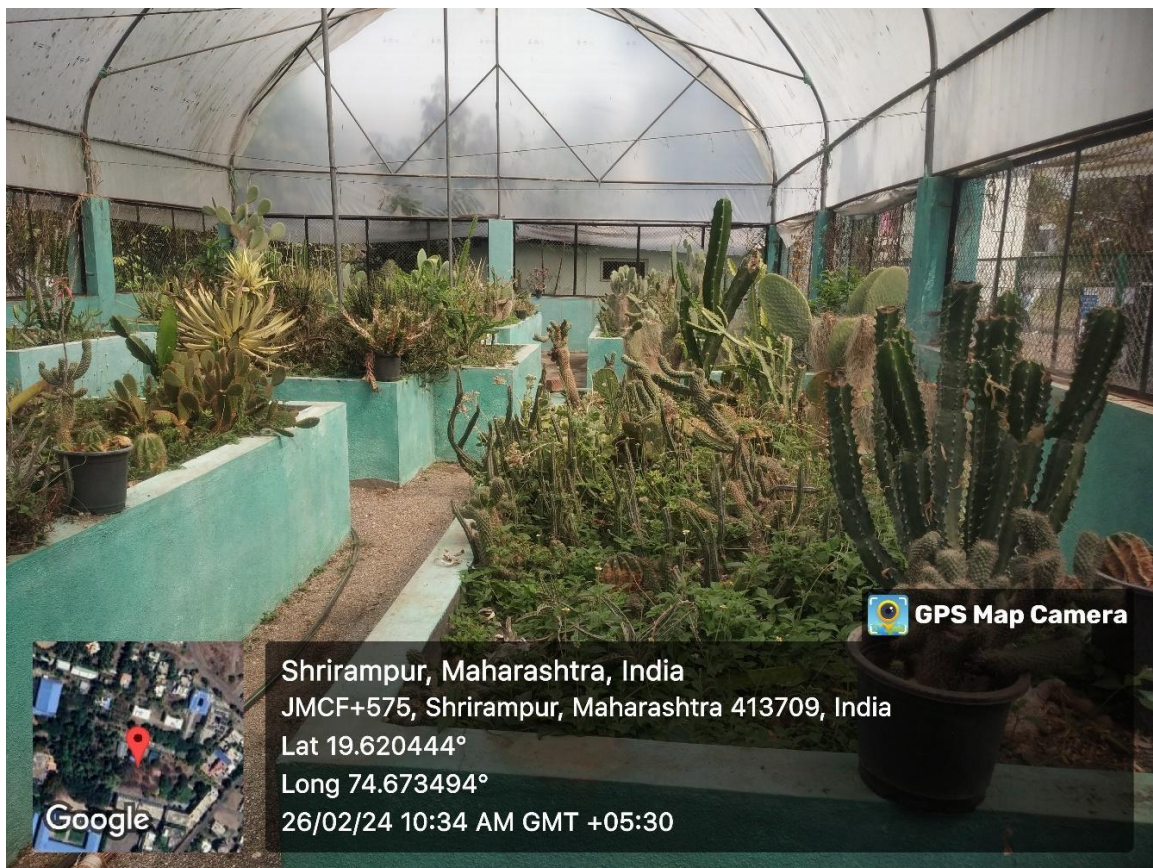
Water distribution to garden through Sprinklers and Drips



Underground Pipeline system for watering the plants in Botanical Garden



Cactus House in Botanical Garden



Plant Cultivation



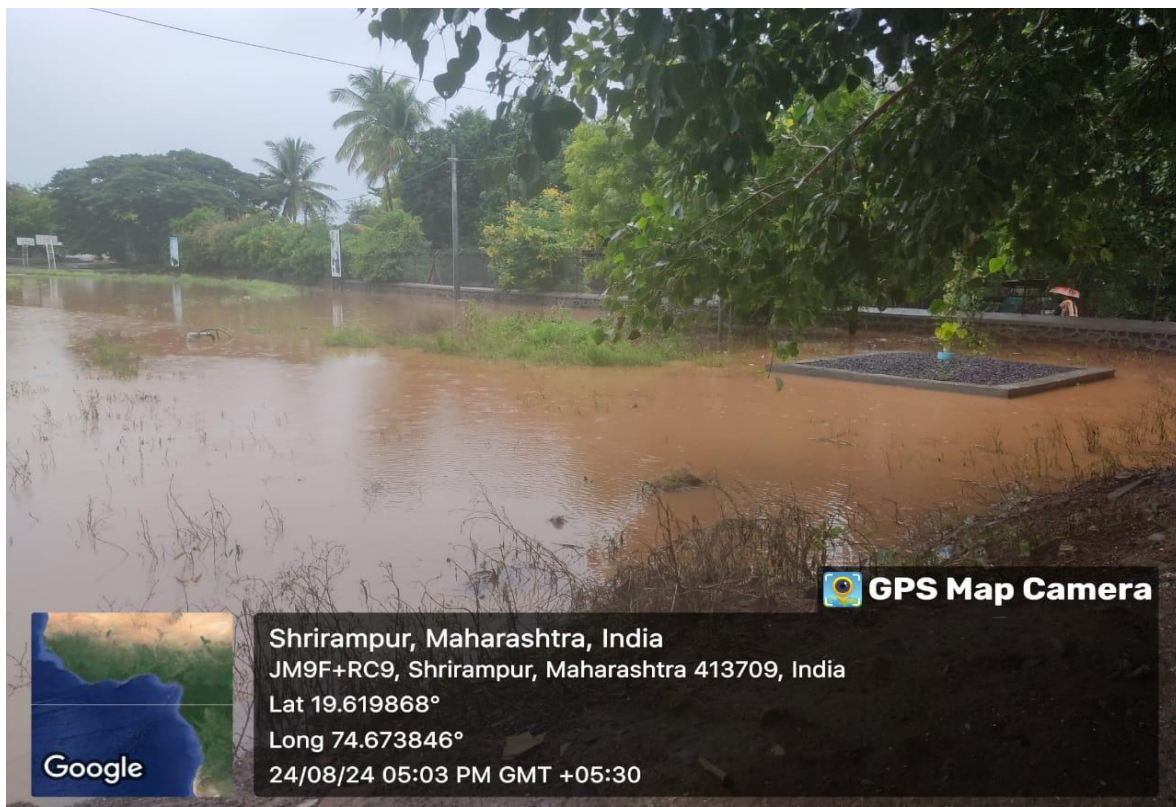
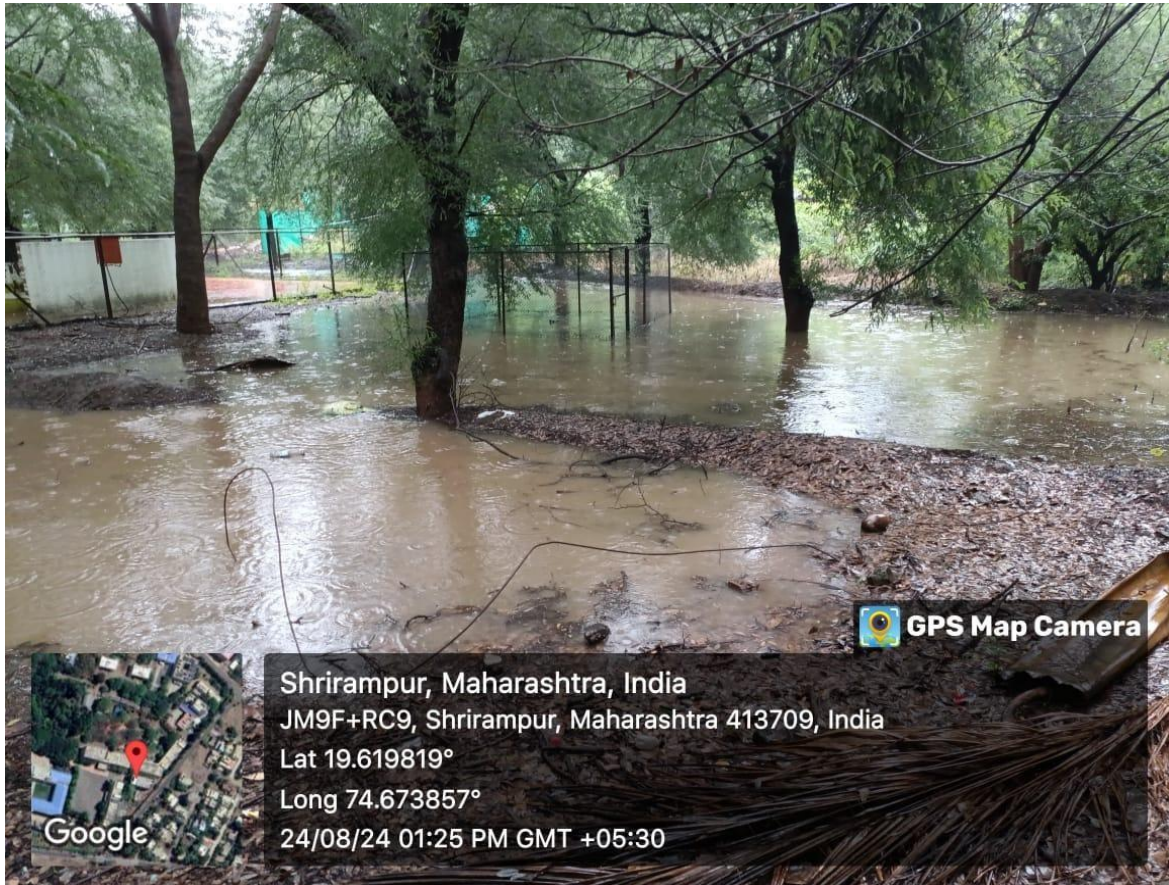
Bore well recharge Pit on College Campus



Roof-top rain water harvesting and ground water recharge in Campus



Construction of Bunds for rain water recharge



Vermicomposting Units



Toka (Kutti) Machine for Vermi-compost Project



Solar Panels in College Campus

Administrative Building



Chemistry Building





Solar water heaters in College Campus

Principal Bungalow



Girls Hostel 1



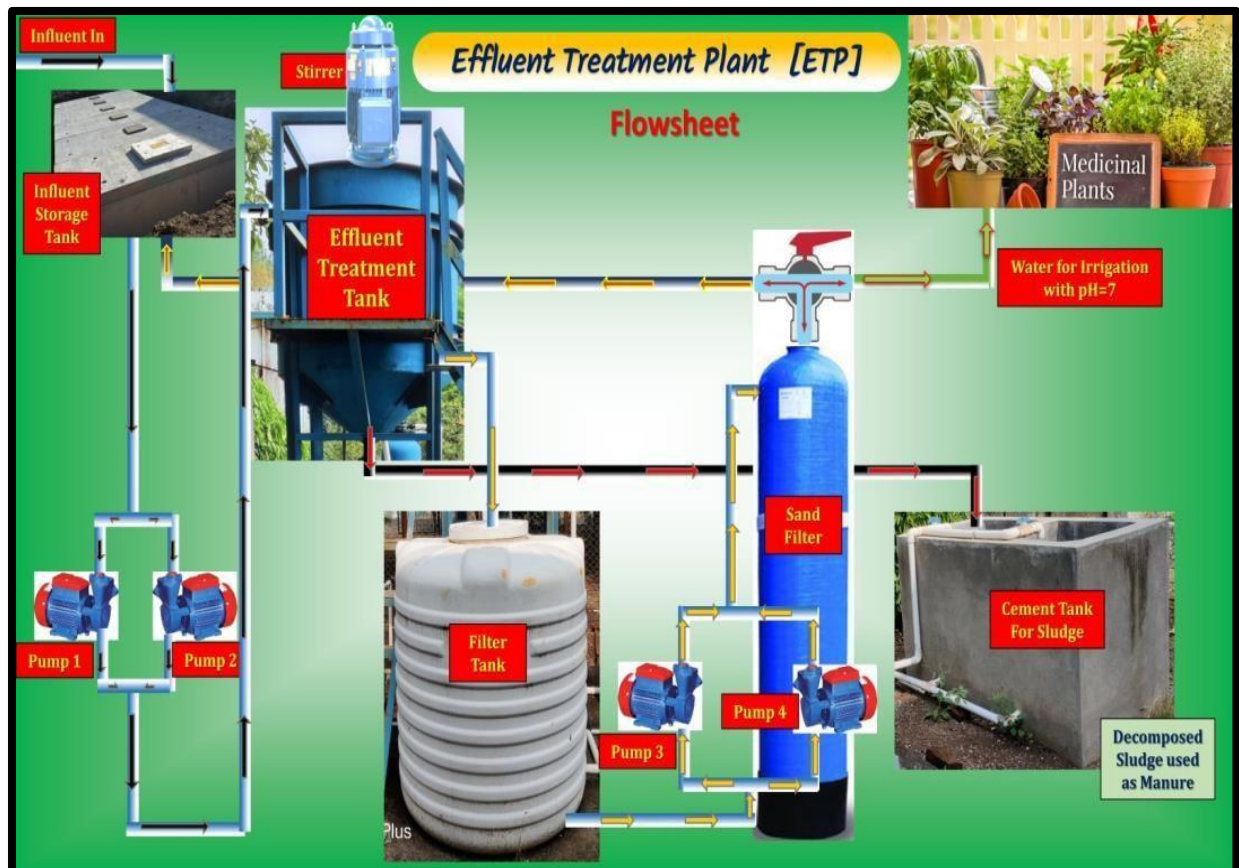
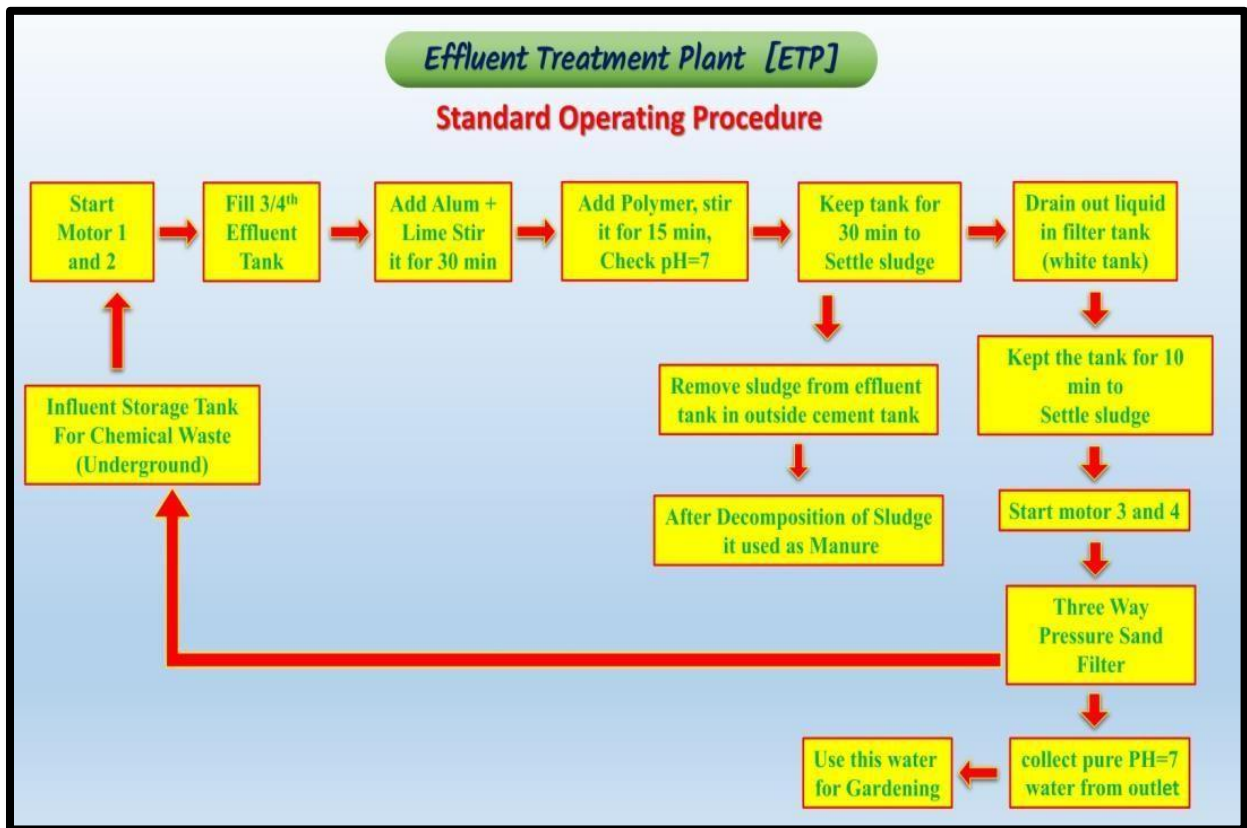


Girls Hostel 2

Turbo Ventilators in the campus building



Effluent Treatment Plant (ETP)



R. B. Narayanrao Borawake College, Shrirampur

Department of Chemistry ETP-Effluent Treatment Plant



Introduction

Effluent treatment plant cleans industrial effluents, Laboratory waste water, contaminated water from rivers and lakes, and so on just in order to reuse the water for additional purposes. Along such lines, water is reutilized and sustained. In fact, such gushing treatment ensures that any contaminant will be expelled from the water making it reusable. It is mostly used in industries such as pharmaceuticals, textiles, tanneries, and chemicals where there is a chance of extreme water contamination. Nevertheless, how this treatment will be applied may vary from industry to industry. Such treatment plant ensures that the contaminated and polluted water from industries get treated and become reusable before being released back to nature. Without this treatment, it won't be possible for humans to get clean usable water for household chores.

Applications of ETP

1. Food and processing industries
2. Pharmaceutical industry
3. Textile and Paper industries
4. Automobile industries
5. Textile and dye industry
6. Dairy and Beverage industries

Problem encountered and resources required

The problem of lack of technical assistance and trained personnel. The lack of space as the centralized facility can be planned in advance to ensure that adequate space is available. The problems of monitoring for the pollution control boards. To organize the disposal of treated wastes and sludge and to improve the recycling and reuse possibilities as once individual units are required to pay for waste treatment/disposal, they tend to adopt means to reduce waste generation. Chemicals are costly and require continuous power supply. Chemistry department staff and students shows active involvement in this project.

Objectives

1. To improve quality of waste water.
2. To eliminate the pollutants and toxicants from the waste water.
3. To preserve the water quality of natural water resources.
4. To make wastewater usable for other purposes.
5. To prevent the harmful diseases.
6. To reduce the treatment cost for individual units while protecting the environment.



Effluent Treatment Plant (ETP) for water recycling

Tree Plantation at College Campus



Plastic-free Campus



No Vehicle Day



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Dist. Ahilyanagar

NOTICE

Date: 15th July 2024

All the Teaching, Non-teaching Staff and students of the college are hereby informed that 3rd Thursday of every month will be observed as "NO VEHICLE DAY" in the college premises to take care of ecosystem.

All are requested to use either Bicycles or Electric Vehicles in the college Campus.



Principal
R.B.N.Borawake College
Shrirampur, Dist.A'Nagar



Audit Reports



Bio Geo Consultancy, Pune

School, Colleges, Company Green Audit, Energy Audit, Carbon Credit, Gender Audit etc.
Flat No. 14, Neelkanth Society, Bombay Sappers Colony, Wadgan Sheri, Pune 411014.
Email ID morerajani95@gmail.com Mobile No. : 8983349170

Green AUDIT CERTIFICATE - 2024-2025

*This is certified that Rayat Shikshan Sanghatana's prepared by Bio-Geo Consultancy with due cooperation of the principal and staff of **R. B. Narayanrao Borawake College, Shrirampur District- Ahilyanagar. 413709** Maharashtra State, India, has conducted in December 2025 to assess the green initiative planning, efforts, activities, implemented in the college campus like plantation, Carbon Credit, Waste Management, Rain Water Harvesting, Conservation of Energy, Paperless Technology & Various Environmental Activities. This Green Audit is also aimed to assess impact of green initiatives for maintenance of the campus eco-friendly.*

Place: Pune

Date of Certificate: 1/02/2025

(Prof. Dr. Praveen G. Saptarshi)

Auditor

(Prof. Dr. Jyotiram More)

Coordinator





Bio Geo Consultancy, Pune

School, Colleges, Company Green Audit, Energy Audit, Carbon Credit, Gender Audit etc.
Flat No. 14, Neelkanth Society, Bombay Sappers Colony, Wadgan Sheri, Pune 411014.
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Carbon Sequestration Certificate

This is to certify that the Carbon Sequestration Report prepared by Bio-Geo Consultancy with due cooperation of the principal and staff of Rayat Shikshan Sanstha's R. B. Narayanrao Borawake College, Shrirampur, Tal.-Shrirampur, District-Ahilyanagar - 413719, India, is prepared by following appropriate procedures, methods, knowledge and expertise in the field of Environmental Sciences.

We were actively associated with the process of collecting data and documentation of trees, bushes, grass cover and soils causing carbon sequestration. I have also conducted workshops of students and teachers on methods of quantification of biomass and carbon sequestration.

We wish a great future to the college and expect that the students and staff would be enthused to reduce carbon footprint by adopting methods of conservation of soil, water, plants and energy within the college campus and in society as well.

Place: Pune

Date of Certificate: 11/03/2025

(Prof. Dr. Praveen G. Saptarshi)
Auditor

(Prof. Dr. Jyotiram More)
Coordinator





Bio Geo Consultancy, Pune

School, Colleges, Company Green Audit, Energy Audit, Carbon Credit, Gender Audit etc.
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Email ID morerajani95@gmail.com Mobile No. : 8983349170

Certificate ENVIRONMENTAL AUDIT – 2024-25

This is certified that Rayat Shikshan Sanstha's prepared by Bio-Geo Consultancy with due cooperation of the principal and staff of R. B. Narayanrao Borawake College, Shrirampur, Tal.- Shrirampur, District Ahmednagar – 413719, India, has conducted in September 2024 to assess the Environmental initiative planning, efforts, activities, implemented in the college campus like survey, interviews, observations & Various Activities under this them like Green Audit, Energy Audit etc. The objective of this environmental audit is to reach the impact of equivalent initiatives for environmental maintenance of the campus and also to create environmental awareness among the students & stakeholders.

Place : Shrirampur

Date : 21/03/2025

(Prof. Dr. Praveen G. Saptarshi)
Auditor

(Prof. Dr. Jyotiram More)
Coordinator

