

Best Practice

1. Title of the Practice

The college has initiated two best practices namely:

- i. Integrated Organic Farm
- ii. Waste Management Drive

i. Integrated Organic Farm:

The objectives

The objectives of conceiving these two best practices are as follows:

- A. To develop entrepreneurial skills as an extension of skill development mission amongst the students in college,
- B. This novel attempt also aims to provide economic sustainability to the college fraternity working on temporary post,
- C. To develop a symbiotic relation with the surrounding rural community by developing a producer-consumer relation and selling the organic produce,
- D. To develop the financial viability of the college and conceptualize welfare strategy,
- E. To develop sustainable and eco-friendly technique of waste management, and
- F. To promote healthy practice of waste disposal methods amongst college fraternity and community.

The Context

The College with its phenomenal area and biodiversity with an aim to develop as a Best Practice surveyed and analysed the surrounding environment and earmarked husbandry as a viable means that could not only generate employability and economic sustainability to alumnae seeking employment but also provide financial support to the temporary college fraternity as well. Further the students of the college could also be motivated to engage in such entrepreneurial activities of such nature and grow and boost skill development.

The College with an extensive boundary and immense area and substantial footfall of students, college fraternity and visitors for various purposes, is challenged with the function of waste management. The college is not only responsible for providing a congenial and eco-friendly atmosphere within but also is instrumental in influencing the environment outside the campus by generating awareness on waste management. Therefore, for greater interest of the college environment, the locality and as an extension work, the college devised framework mechanism through cleanliness drive and collects various biodegradable to non-biodegradable waste and segregate for easy disposal and regeneration of the organic waste into compost mixture for use in the Integrated Organic Farm.

The Practice

To spread and encourage awareness and practice of sustainable development with a holistic vision of the environment and responsibility towards and relation with society and promote consciousness towards environment and add to knowledge, sensibility and respect towards heritage, tradition and conservation of inheritance, the college resolved to develop these practices as part of the best practice regime. These practices would not only encourage ethical and human values of cooperation and symbiotic living and development but also instill a sense of belongingness and responsibility towards the greater area of Boko. The College, with its dense green foliage and remarkable biodiversity certainly acts as a laboratory with facets for observation, experimentation and practices. This is by all means aimed towards optimization of available natural and human resources and developing a practice promoting environmental consciousness entailing conservation of available resources. The practice of Integrated Organic Farming initiated with the opening of a cooperative society comprising the non-teaching fraternity and the contractual fraternity with an aim to utilize the extensive land area productively and promote awareness on technique and benefits of organic farming and promote it as best practice within and outside college campus. The organic farm utilized the land area strategically to segregate the area in plots cultivating fruits and vegetables locally grown as well as exotic and medicinal plants for economic viability and research and development. The various cultivations in process are leafy vegetables (*Brassica juncea*), papaya (*Carica papaya*), radish (*Raphanus brassica*), sesame (*Sesamum indicum*) and banana (*Musa sp.*). The integrated farm has ongoing plantations of dragon fruit (*Hylocereus undatus*) in process as a second plantation phase along with citrus fruit. The various activities are completed with extension of benefit to the village community around and the produce is sold at an affordable rate. The other Best Practice of Waste Management has already been and is well under way. Various steps of initiating the process have been completed like Cleanliness drive in different phases alongside sensitization programmes within and outside the college campus through Popular Talk, Plantation Drive etc.

As an educational institute, our college has given thrust on waste management and in its maiden attempt towards achieving a streamlined waste management system following the principle of Refuse, Reduce and Recycle has tried to inspire and inculcate the habit of systematized waste disposal into organic and inorganic by installing bins with clear mention of waste type. Plastic being the major source of waste and pollution the entire campus has been declared as plastic free campus. For effective management of waste deposition of natural debris, the college has constructed compost corners/bin. With respect to unavoidable plastic waste causing maximum soil, water and air pollution, the college has developed simple innovative practice of managing it. The evidence of increasing e-waste becoming a major concern has further motivated the college to study it seriously and adopt measures for its management. Although the e-waste management system is in an infantile stage, the college is planning to address the issue with systematic and scientific planning for maximum awareness and environment friendly outcome. The College also plans to optimize its water usage and management of waste water by recycling it as well as begin with rain water

Harvesting and uphold environmental sustainability and maintain biodiversity. As part of this practice, the department of chemistry has developed a waste disposable pit (5 metre) with concrete foundation.



Evidence of success: There is obvious evidence of success as the cooperative society of the college has been able to earn Rs.45, 640.00 (Rupees Forty-Six Thousand six hundred forty) by selling off the organic produce to locals around and the college staff. Further the success is also evident in the growth of a symbiotic relation between the college fraternities

and the locals around in this process of cultivation. The members engaged in the cultivation process are inspired to continue the hard work and have prepared the land for the next phase of seasonal cultivation with better techniques for optimal outcome and success.

With respect to waste management, the evidence of success is awareness and construction of functional compost bins (number), disposable pits. The formation of e-waste collection centre is another success step adopted alongside deliberation of forming MoU with concerned agency/NGO. The knowledge of traditional waste management system is also adopted with building of a developed incinerator.





Problems encountered and resources required: Various problems were encountered initially in the preparatory work for introduction of the concept of the Organic Farm to the stakeholders and initiation into this novel concept. Framing of the statutes and guidelines to be adhered to along with transparency of the income accrued was another issue. Further the clearance and preparation of the land was another uphill task along with the irrigation system of the plot.



ii. Waste Management Drive

The goal of waste management is to minimize waste sent off site for disposal, to increase recycling, to ensure proper handling and storage of wastes, and to ensure regulatory compliance throughout the process. Metrics and goals to drive waste reduction progress shall be developed. These include both hazardous and non-hazardous waste and the amount of materials recycled. Both the total amount and the amount per ton of product are typically tracked.

Best practice is to establish the following hierarchy to minimize waste generation and disposal and commentary is provided.

- Reduce waste at the source,
- Reuse materials in lieu of disposal, and
- Recycle the remaining.

Once the waste is generated, the waste must be identified, labeled, segregated, stored and disposed of to qualified treatment/ disposal/ recycling facilities as appropriate.



Use of Vending Machine:



Link for Relevant Documents :

1. Green Audit & Energy Audit :

https://www.jncollegeboko.ac.in/green_audit.php

https://www.jncollegeboko.ac.in/energy_audit.php

2. Eco Club Report (Environmental promotion Activities within & Beyond the Campus):

https://www.jncollegeboko.ac.in/a_cell.php?cell=Eco%20Club

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