

Deputy Director, Social Forestry Division, Nagpur

No.SFR/N/2021-22 1683

Nagpur, Dated 31.03.2022

1. Name of the Institute: **Shri Shivaji Education Society**
Amravati S Science College, Nagpur
2. Place; Congress Nagar, Nagpur -12
3. Period of Audit 2021-22
4. Site of Activities in premises of college
 - a) Front view of college
 - b) New building back side
 - c) Besides play ground, peripheral side
 - d) Botanical Garden

PART-I (Green Audit)

Plantation Activities Taken 2021-22

5. Green and Environmental Activities of the college

I. Plantation Activities Taken

Review of previous plantation

- i) Areca Palm (*Dyopsis lutescens*) as ornamental plants are approximately 120 in number now attained full maturity. Earlier the no. of Areca palm were 150 in number but now reduced to 120 due to demolition work of old building.
- ii) The five seedlings of Jamun (*Eugenia jambolina*) planted in the year 2015-16 along the back side of the old building and periphery of playground now attained maximum growth.
- iii) Ornamental shrubs *Ficus benjamina*, *Bougainvillea* are in healthy condition on front size of old block.

II. Tree plantation programme organized in college premises by planting two *Spathodia companulata* seedlings in year 2016 are well developed and now attained maximum growth in front of Guest House/ Girls Hostel.

III. Activities in the Botanical Garden (Retained & Maintained)

Demolition of old building created destruction of Botanical garden.

IV. Conservation and maintenance of planted tree upto 2021-22

- 1) In college premises old trees are well conserved along with fruit trees attained full grown height.

i. Front part of entrance

- | | |
|---|----|
| (a) Ashoka (<i>Polyalthia longifolia</i>) | 17 |
| (b) <i>Phoenix sylvestris</i> | 01 |
| (c) Areca nut palm sp. | 37 |

These trees enhances look of the entrance & still maintained

ii. Botanical Garden

Demolition of old building created destruction of Botanical garden and planning to construct new Botanical Garden in coming two years. The following plants still survive near the compound wall of Botanical Garden.

- | | |
|---|----|
| a) Ashoka (<i>Saraka indica</i>) | 03 |
| b) Royal Palm sp. | 02 |
| c) <i>Callindra</i> sp. | 02 |
| d) Cassia fistula (Amaltas) | 01 |
| e) Bombax ceiba (Semal) | 01 |
| f) Aam (<i>Mangifera indica</i>) | 01 |
| g) Spathodia (<i>Spathodia companulata</i>) | 01 |

iii. Front/ Back side of B Block (CBI side)

- | | |
|---|----|
| a) <i>Cycas revoluta</i> | 01 |
| b) Areca nut palm | 07 |
| c) Cork trees (<i>Millingtonia hortensis</i>) | 01 |
| d) Guava (<i>Psidium guajava</i>) | 01 |

iv. Back side of Old building (Block A)

- | | |
|----------------------------------|----|
| a) <i>Cassia siamia</i> | 01 |
| b) <i>Azadirachta indica</i> | 03 |
| c) <i>Lagerstroemia speciosa</i> | 04 |
| e) <i>Syzigium cumini</i> | 05 |
| f) Dalbergia sisoo | 01 |
| g) <i>Ficus religiosa</i> | 01 |

All these above trees were planted in past some years ago were properly maintained, due to which heighted shady trees sheltered tired students, teachers and visitors under it in scorching summer and also imparts green look to college building.

v. Front/Back side of C Block (New Building) & Girls Hostel

- a) *Peltoforum* sp. 01
- b) *Chamecostus* sp. (Insulin plant) 02
- c) *Areaca* nut palm 10
- d) *Mangifera indica* 01
- e) *Azadiracta indica* 01
- f) *Spathodia* (*Spathodia companulata*) 02
- g) *Phoenix sylvestris* 01
- h) *Ficus panda* 03
- i) *Delonix regia* 02

vi. Joint poarch of Old & New building

Ornamental Palm sp. planted in carries & planters

- a) *Areca* nut palm 62
- b) *Acalypha* sp. 04

vii. Soil less rooftop organic farming/ Hydroponics (Seasonable vegetables) No work due to demolition of old building and Covid-19

PART-II (Environmental Audit)

The premises of the institution found to be well maintained by daily wage workers and student volunteers regularly.

A) I. Artificial Waste:

The polythene used is restricted in the institution and surrounding area. It is free from polybags and polythene wastes which are not found scattered anywhere in the campus.

II. Wet & Dry Waste:

The segregation of wet & dry waste through the dustbins kept in office, laboratory, library, hostel and nearby area in the campus.

III. Compost Pit:

The green waste such as grass clippings, branches, flowers, leaves use to collect and dump in compost pit.

IV Water Pollution:

The water supply in the institution is provided through the well for domestic use and by Nagpur Municipal Corporation for drinking purpose as well as to maintain to greenery in the campus.

The outlets are prominently provided and no unnecessary wastage of drinking water has been noticed. The accumulation of waste water is found to be flow through drain pipes which are provided everywhere

which helps to avoid the contamination of water pollution of soil and water by regular maintenance.

B) V. Implemented the plan of 2020-21

Not implemented due to lockdown period of Covid-19.

VI Department of Botany promotes the environmental friendly activities, giving green message such as:

- a. World Environment Day celebrated virtually in association with Pratibha Shakti-Vidarbha & Institute of Science, Nagpur on 25/06/2021 to spread awareness about climate change.
- b. World Nature Conservation Day was celebrated 28th July, 2021 by Department of Botany. On this Occasion, department organized Intercollegiate Competition to motivate the students to express their thoughts and contribution towards nature & its conservation about plants and animals those on the verge of extinction. The theme of the competition was "Nature Conserver".
- c. Tree Plantation: The tree plantation programme organized by our college students in the month of July under NSS activity in the premises of college on the occasion of Independence Day 2021.
- d. "Phyto Ethno Expo", an exhibition on rare medicinal plants was organized by the department on 27th May 2022 to spread awareness among the students regarding biodiversity conservation. For this exhibition students collected over 40 different varieties of medicinal plants based on medicative properties & its products. The exhibition was divided into many zones i.e. Aromatic station, Wild Plant station, Spice Station, Hydro station and Herbs station.
- e. **Biodiversity thinking**
Various activities organized by Botany and Zoology department during session 2021-22 determined biodiversity considered to be a positive factor for nature and also constitute a very rich set of natural recourses and is therefore beneficial to humans.
Students are asked and encouraged in pandemic to provide water to birds for drinking in earthen dishes & also provide food grain & wastage food to the birds; fulfill the need of thirst & food.

PART-III (Energy Audit)

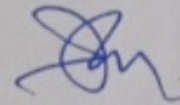
I. Non renewable energy resources & moisture conservation development activities developed

1. Solar electric panel of 36.48 kwp installed on the terrace of block-C building in 2016-17 in addition to existing 10 kwp (Block-B) & 17 kwp

- (Girls Hostel) generation unit still in good condition and well maintained in the current year.
2. Solar Street lights on the ground in good condition and fulfill the theme.
 3. Installed LED lights in college building- C block still in use.
 4. Rain water harvesting system installed at the new building, C block found to be satisfactory.
 5. Soak pits for drain water are continuous in use to check the soil and water level condition.
 6. The purified water on every floor setup by installing the water coolers are in use and well maintained.

Remarks: The college is playing great role in maintenance of healthy environment, pollution control & enhances the green activities are satisfactory. The institution is keen interested in every green chapter. At large, promote the new ideas in sharing alertness amongst the students.

Nagpur
Dated: 31/03/2022



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