

Deputy Director, Social Forestry Division, Nagpur
Green Audit

No.SFR/N/2019-20/2663

Nagpur, Dated 31.03.2020

1. Name of the Institute: **Shri Shivaji Education Society**
Amravati S Science College, Nagpur

2. Place; Congress Nagar, Nagpur -12

3. Period of Audit 2019-20

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

Environmental Activities

Polythene waste

Wet and dry waste segregation

Plantation Activities Taken 2019-20

5. Visit to the Institution

i. Abhimanyu Rao, Sky Mushrooms, Nagpur

ii. Mrs. Anjali Phaley, Lecturer, LAD College, Nagpur

6 Green and Environmental Activities of the college

I. Plantation Activities Taken

Review of previous plantation

i) Areca Palm (*Dyopsis lutescens*) as ornamental plants is approximately 150 in number now fully grown.

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 full maturity.

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 fully grown in front of Guest House/ Girls Hostel.

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

i. Small pond existence for Hydrophytes- *Pistia*, *Hydrilla*, *Nymphaea*, *Eichornia* etc.

ii. Wet & dry waste segregated.

iii. Polythene bags & other waste disposed off.

IV. Conservation and maintenance of planted tree upto 2019-20

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) Royal Palm sp. | 04 |
| (c) <i>Phoenix sylvestris</i> | 01 |
| (d) Areca nut palm sp. | 37 |

These trees enhances look of the entrance & still maintained

ii. Botanical Garden

- | | |
|---|----|
| a) Ashoka (<i>Polyalthia</i> sp.) | 03 |
| b) Royal Palm sp. | 02 |
| c) <i>Callindra</i> sp. | 02 |
| d) Gold mohar (<i>Delonix regia</i>) | 03 |
| e) Amaltash (<i>Cassia fistula</i>) | 02 |
| f) Semal (<i>Bombax ceiba</i>) | 01 |
| g) Aam (<i>Mangifera indica</i>) | 02 |
| h) Spathodia (<i>Spathodia companulata</i>) | 01 |
| i) Sappataparni (<i>Alstonia scholaris</i>) | 02 |
| j) Kachnar (<i>Bauhinia variegata</i>) | 02 |
| k) <i>Morus alba</i> | 01 |
| l) <i>Phyllanthus emblica</i> | 01 |
| m) <i>Citrus cinensis</i> | 01 |
| n) <i>Bignonia</i> sp. | 01 |
| o) <i>Hamelia patens</i> | 02 |
| p) <i>Syzigium cumini</i> | 01 |
| q) <i>Euphorbia</i> sp. | 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) <i>Azadirachta indica</i> | 01 |
| e) Guava (<i>Psidium guajava</i>) | 01 |

Due to undergoing metro work besides B block, some plant species were uprooted & will be replanted after the completion of work.

iv. Back side of Old building (Block A)

- | | |
|----------------------------------|----|
| a) <i>Cassia siamia</i> | 01 |
| b) <i>Azadirachta indica</i> | 01 |
| c) <i>Lagerstroemia speciosa</i> | 02 |

- d) *Spathodia (Spathodia companulata)* 01
- e) *Syzigium cumini* 05

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) *Dalbergia sisso* 01
- c) *Leucaena* sp. 07
- d) *Ailanthus* sp. 05
- e) *Terminalia catapa* (Almond) 03
- f) *Chamecostus* sp. (Insulin plant) 02
- g) *Areaca* nut palm 17
- h) *Mangifera indica* 01
- i) *Azadiracta indica* 01
- j) *Annona squamosa* 01
- k) *Spathodia (Spathodia companulata)* 02
- l) *Phoenix* sp. 01
- m) *Ficus panda* 03
- n) *Delonix regia* 02
- o) *Murraya koenigii* 01

vi. Joint poarch of Old & New building

Ornamental Palm sp. planted in carries & planters

- a) *Areca* nut palm 42
- b) *Acalypha* sp. 04

vii. Soil less rooftop organic farming/ Hydroponics- Seasonable

Vegetable crops raised are *Spinach, Amaranthus, Trigonella, Brassica* sp., *Solanum melongena, Lycopersicon* sp., *Capsicum* sp. etc.

viii. Implemented the plan of 2018-19

As per plan, the college planted the saplings of seasonal flower species as annual, biannual and ornamental species along the college carries (planters) and before every department.

Flowering Sp. - *Dianthus, Carnation, Petunia, Chrysanthemum, Spathiphyllum* sp (Peace Lily) etc.

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

1. World nature conservation Day celebrated in the college on 30/07/2019. Mrs Anjali Phaley, Lecturer, LAD college, Nagpur was

the chief guest & conducted workshop on "Miniature garden & Seed ball technique".

- a. Visit to Button Mushroom cultivation Farm, Nagpur on 26/02/2020.
- b. Environmental studies projects are prepared on paper files without the use of plastic.
- c. Eco-friendly floral Rakhi celebrated on 14/08/2019 by using ecofriendly materials like seed grains, dry fruits, flowers, leaves etc and spread the message of environmental protection as a social responsibility.
- d. Tree Plantation: The tree plantation programme organized by our college students in the month of July under NSS activity in the college premises.

2. 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.

IX Biodiversity thinking

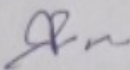
Various activities were organized to encourage the students for eco-awareness like green photography competition on World Environment Day, Care for Air in Science Association. Projects were also provided on different themes concern to the environment.

The birds are provided water for drinking in earthen dishes & hanged to the object like tree twigs to some extent & also provide food grain & wastage food to the birds; fulfill the need of thirst & food.

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: 31/03/2020




(Shri R D Talmale)
Assistant Director
Social Forestry Division,
Nagpur.