

**Deputy Director, Social Forestry Division, Nagpur**  
**Green Audit**

No.SFR/N/2018-19/33

Nagpur, Dated 30.03.2019

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

2. Place; Congress Nagar, Nagpur -12

3. Period of Audit 2018-19

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 2018-19**

5. Visit to the Institution

i. Shri Subhash Dongare, Publicity Officer, Maharashtra State , Nagpur

ii. Shri Sudhir J. Bawankar, Former Sub Divisional Forest Officer, Allapalli Forest division, Dist. Gadchiroli.

iii. Shri Rajan D Talmale, Assistant Director, Social Forestry Dn., Nagpur.

iv. Shri Dilip Chinchmalatpure, Landscape consultant & member of Maharashtra State Eco-tourism Board

6. Green and Environmental Activities of the college

**I. Plantation Activities Taken**

Review of previous plantation

i) Areca Palm sp. as ornamental plant are 150 in number and well developed.

ii) Nut Palm sp. approximately 60-80 in number attained the height upto 4 metres.

iii) The seedling of Jamun (*Eugenia jumbolina*) planted in the year 2015-16 along the back side of the old building and periphery of playground.

iv) Ornamental shrubs *Ficus benjamina*, *Bougainvillea* are in healthy condition.

**II.** Tree plantation programme observed in college premises by planting *Spathodia companulata* in year 2016 are well developed.

### 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 2018-19

- 1) In college premise 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) *Cassia siamia* 01
- b) *Azadirachta indica* 01
- c) *Lagerstroemia speciosa* 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) *Areca* 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 quarries & 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 2017-18**

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 04/08/2018. Dr Prakash Itankar, Assistant Prof. (Sr. Gr.), Pharmaceutical Sciences, RTM Nagpur University, Nagpur was the chief guest.
  - a) Vermicompost at Golden Park, Besa, Manewada.
  - b) Mushroom cultivation as a solid waste management
  - c) Environmental studies projects are prepared on paper files without the use of plastic.
  - d) Polyhouse technique & Cold storage
  - e) Eco-friendly Dry Holi celebration with natural colours prepared from plant.
  - f) Techniques for electronic herbarium and computer data base without the use of paper & plant.
  - g) Tree Plantation: The tree plantation programme organized by our college students in the month of July under NSS activity in the premises of deaf & dum students at Sahakar Nagar, Nagpur. The students of our college along with the Deaf & Dum School planted 60 plants and maintained.

**2. Non renewable energy resources & moisture conservation development activities developed**

1. Solar electric panel of 36.48 kv installed on the terrace of building in 2016-17 in addition to existing 10kv & 17 kv 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**

College staff & students had given special emphasis on avian group in college area at various places ie on terrace, garden, shady places by Zoology department

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. Birds are also eats fruits like mango, guava & young leaves.

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

Nagpur

Dated: 30/03/2019



(Shri R D Talmale)  
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