

Deputy Director, Social Forestry Division, Nagpur
Green Audit

No.SFR/N/2017-18 | 173

Nagpur, Dated 31.03.2018

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

2. Place; Congress Nagar, Nagpur -12

3. Period of Audit 2017-18

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 2017-18

5. Visit to the Institution

i. Shri Mohan Dhere, Dy. Director Social forestry, Nagpur

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

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

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

v) Dr V K Sinha, IFS, Director, Biodiversity, Maharashtra State, Nagpur Shri Ashok Giripunje, Jt. Director, Social Forestry, Nagpur Circle, Nagpur .

vi) 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 planting of previous two years 2015-16 & 2016-17

i) Areca Palm sp. as ornamental plant are 80 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 jambolina*) planted in the year 2015-16 along the back side of the old building and periphery of playground.

iv) In the same year Areca Palm 06 in number planted in planters which enhance the look of entrance of C Block.

- v) 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**
- Small pond existence for Hydrophytes- *Pistia*, *Hydrilla*, *Nymphaea*, *Eichornia* etc.
 - Compost Fertilizer Beds in ditches and pits.
 - Wet & dry waste segregated.
 - Polythene bags & other waste disposed off.
- IV. **Conservation and maintenance of planted tree upto 2017-18**
- In college premise old trees are well conserved along with fruit trees attained full grown height.
 - 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.
 - 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) <i>Spathodia (Spathodia companulata)</i>	01
i) Sappataparni (<i>Alstonia scholaris</i>)	02
j) Kachnar (<i>Bauhinia variegata</i>)	02
 - Front/ Back side of B Block (CBI side)**

a) <i>Cycas revoluta</i>	01
b) <i>Areca</i> nut palm	07
c) Cork trees (<i>Millingtonia hortensis</i>)	02
d) <i>Azadirachta indica</i>	01
e) Guava (<i>Psidium guajava</i>)	01

Due to undergoing metrowork 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>Albezia lebbeck</i> | 01 |
| c) <i>Azadirachta indica</i> | 04 |
| d) <i>Lagerstroemia speciosa</i> | 02 |
| e) <i>Spathodia (Spathodia companulata)</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) <i>Peltoforum</i> sp. | 01 |
| b) <i>Dalbergia sisso</i> | 01 |
| c) <i>Leucaena</i> sp. | 07 |
| d) <i>Ailanthus</i> sp. | 05 |
| e) <i>Terminalia catapa</i> (Almond) | 03 |
| f) <i>Chamecostus</i> sp. (Insulin plant) | 02 |
| g) <i>Areaca</i> nut palm | 17 |
| h) <i>Spathodia</i> sp. | 02 |

vi. Joint poarch of Old & New building

Ornamental Palm sp. planted in quarries & planters

- | | |
|--------------------------|----|
| a) <i>Areca</i> nut palm | 42 |
| b) Fox tail Palm | 08 |
| c) <i>Acalypha</i> 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., *Beta vulgaris* etc.

viii. Implemented the plan of 2016-17

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

Flowering Sp. - *Dianthus*, *Carnation*, *Petunia*, *Chrysanthemum* etc.

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

- World nature conservation Day celebrated in the college on 28/07/2017. Dr Vinaykumar Sinha IFS Director Biodiversity Board, M.S., Nagpur address the students. Shri Ashok Giripunje, IFS, Jt. Director, Social Forestry, Nagpur Circle, Nagpur was the chief guest.
- Nursery technique

- c) Vermicompost
- d) Flower arrangement
- e) Mushroom cultivation as a solid waste management
- f) Environmental studies projects
- g) Tree Plantation: The tree plantation programme organized on conservation day of planted 2 number of saplings at the hands of Dr V K Sinha and students. N.S.S. students of our college participated in tree plantation programme at Mure Hospital premises, Nagpur along with OISCA planted 60 saplings.

x. 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

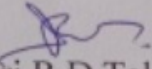
V. Biodiversity thinking

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.

Nagpur
Dated: 31/03/2018


(Shri R D Talmale)
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