

Green audit report of the Institute

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Subject: Submission of Green Audit for 2022-23 Report

Date: 09.06.2023

To,
The Dean
PanjabraoDeshmukh Medical College, Amravati.

Respected Sir,

The Green Audit Report for the year 2022-23 have been proposed after the actual inspection and verification for the Institution Dr. PanjabraoDeshmukh Medical College, Amravati.

The above-mentioned report comprises of –

1. Green Audit
2. Environment Audit
3. Energy Audit

The same clubbed as Green Audit Report for the year 2022-23 is hearby submitting for the necessary action and information.

Thanking you.

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GREEN AUDIT

The barren and blank area surrounding the institution and inner side of the building are under the vegetation cover.

II) Forms of vegetation observed in the premises.

- A) Conservation of old trees.
- B) Plantation drive
- C) Beautification by Landscape and ornamental plants.
- D) Fruit Orchard
- E) Green Lawns develop.
- F) The Indoor plants in planters
- G) Plants in Quarries

a) Hospital site opposite to O.P.D. -

a) Lawn develops on the areas.

- i) Dhubh grass - 2700 Sq.Mtr.
- ii) Diamond grass - 75 Sq. Mtr.

b) Landscape develop on hillock

- The border plants - i) Golden duranta
ii) Green duranta

b) Shrubby plants raised –

Sr. No.	Name	Qty.
1	Tecoma gaudichaudi	30
2	Ixora coccinea	08
3	Cassia biflora	05
4	Bougainvillea glabra	20
5	Kanher	02

c) Tree Planted and conserve-

Sr. No.	Name	Qty.
1	Delonix regia (Gulmohar)	37
2	Plumeria alba (Chafa)	05
3	Alstonia scholaris (Saptaparni)	06
4	Nyctanthus arbortritis (Parijatak)	12

5	Lagerstroemia arboricum (Jarul)	08
6	Murraya exotica (Madhumalti)	04
7	Pithocolumbium dulce (Chichbilai)	02
8	Azadirachta indica (Kadu neem)	10
9	Terminalia catappa (Kadu Badam)	02
10	Mangifera Indica (Mango)	01
11	Bahunia purpurea (Kanchan)	04
12	Caliandra twidi (Caliandra)	08
13	Gardenia jasminoides (Gardenia)	07

B) Inside O.P.D. -

a) Lawn develops on the land in the inner side of OPD shaded lawn -72 Sq. Mtr. (Shaded Lawn)

b) Border hedge – Acalypha

c) Shrubs planted

Sr. No.	Name	Qty.
1	Hibiscus (Jaswant)	03
2	Ixora (Ixora)	01

d) Trees Planted and conserve

Sr. No.	Name	Qty.
1	Polyalthia longifolia (Ashoka duping)	12
2	Mangifera indica (Aamba)	01
3	Terminalia catappa (Kadu badam)	01

C) T. B. Ward – MRI Corridor -

a) The shrub plants planted in the planters along the side of corridor.

Sr. No.	Name	Qty.
1	Areca plam	15
2	Syngonium	05
3	Dieffenbachia	05

b) Tree planted along the small pedestrian path

i) Polyalthia longifolia (Ashoka druping)

D) Oxygen plant -

a) At the site of Oxygen plants in the open area, old trees are conserved

Sr. No.	Name	Qty.
1	Eugenia jumbolina (Jamun)	05
2	Terminalia catappa (Kadu Badam)	01
3	Azadirachta indica (Kadu neem)	02
4	Dalbergia latifolia (Shisham)	02

b) In the plantation drive, the planted trees attained lucrative height

Sr. No.	Name	Qty.
1	Spathodia companulata (Spath)	01
2	Alstonia scholaris (Saptaparni)	07
3	Roystonea regia (Royal palm)	02

E) OPD Casulty –

a) The shrub plants are well grown in conspicuous places with its aesthetic look

Sr. No.	Name	Qty.
1	Tecoma gaudichaudi	24
2	Casia biflora	03
3	Almonda sp	01

b) The plantation programs drive were carried in the past and well develop trees plant 20 ft. to 30 ft. height attain.

Sr. No.	Name	Qty.
1	Tectona grandis (Teak)	05
2	Lagerstroemia arboricum (Jarul)	12
3	Casurina equisetifolia (Saru)	01

c) On the path track side

Sr. No.	Name	Qty.
1	Muraya exotica (Madhumalati)	10

F) Dean office front open -

a) In front of the office, the lawns were well developed and maintained.

Diamond grass lawn – 30 Sq. Mtr.

b) The lawn is surrounded by hedges of

i) Golden duranta border

ii) Green duranta border

c) The shrub plants with landscape is created in the part of lawn

Sr. No.	Name	Qty.
1	Almond asp	01
2	Murraya exotica (Madhumalati)	05

d) The trees are conserved and “Vriksha ropan” trees to full grown

Sr. No.	Name	Qty.
1	Ficus religiosa (Peepal)	01
2	Terminalia catappa (Kadu Badam)	05
3	Alstonia scholaris (Saptaparni)	08

G) Dean office to Anatomy section-

a) In the open patch, lawn is developed and maintained.

i) Diamond grass – 16 Sq. Mtr.

- 1400Sq. Mtr

ii) Hedges and border of Duranta well developed to beautify

b) The ornamental shrub plants

i) Duranta plants border

ii) Acalypha plants border

iii) Pentas plants border

iv) Rose plants well developed in the bed

c) The shrub plants are well grown in the auspicious spaces with beautified look.

Sr. No.	Name	Qty.
1	Ficus religiosa (Peepal)	15
2	Ixora chinensis	13
3	Hibiscus sp.	08

H) Casualty section to parking -

In this patch old trees are conserved and maintained.

Sr. No.	Name	Qty.
1	Tectona grandis (Teak)	15
2	Dalbergia latifolia (Shisham)	03
3	Terminalia catappa (Kadu Badam)	03
4	Azadirachta indica (Kadu neem)	08
5	Ficus religiosa (Peepal)	03
6	Ficus bengalensis (Vad)	01
7	Ficus glomerata (Umbar)	02

Some plantation programme successfully survived by the trees

Sr. No.	Name	Qty.
1	Lagerstroemia arboricum (Jarul)	10
2	Tecoma gaudichaudi	11
3	Bahunia racemose (Kanchan)	01
4	Delonix regia (Gulmohar)	08
5	Alstonia scholaris (Saptaparni)	08

6	Saraca Ashoka (Pendula)	01
7	Samanea saman (Raintree)	02
8	Santalum album (Chandan)	01

I) Dean office to Liabrary Dhobighat Road

The old trees are conserved and maintained.

Sr. No.	Name	Qty.
1	Azadirachta melia	20
2	Pithocolumbium dulce (Chichbilai)	01

The old “Vriksha ropan” is nicely raised attain full grown height.

3	Peltophorum pterocarpum (Peltophorum)	06
4	Samanea saman (Rain tree)	07
5	Mimusopes elengii (Bakul)	01

J) Liabrary to central canteen and Surrounding-

a) The old trees conserved.

Sr. No.	Name	Qty.
1	Azadirachta indica (Kaduneem)	08
2	Terminalia arjuna (Arjun/Ajan)	03
3	Dalbergia latifolia (Shisham)	02
4	Terminalia catappa (Bandam)	01
5	Butea monosperma (Palash)	01
6	Saraca Ashoka Pendulus (Ashoka)	01

b) The “Vriksharopan” programme give the survival of the plants.

7	Spathodia companulata (Spathulia)	20
8	Mimusopes ellengii (Bakul)	08
9	Roystonea regia (Royal palm)	09

K) Polytech Care Centre-

The open patch is well develop with landscape beautification.

a) Diamond grass lawn – 207 Sq Mtr

b) The plants, ornamental shrubs developed in planters along the structure

Sr. No.	Name	Qty.
1	Nolina	02
2	Phoenix palm	02
3	Areca palm	10
4	Ficus benjamina	09
5	Almonda	02

6	Song of India	05
7	Dracaena sp	25
8	Roses	05
9	Ocimum sanctum (Tulsi)	05
10	Murraya exotica (Madhumalti)	05

The medicinal value trees, shrubs

11	Phyllanthus emblica (Aawala)	02
12	Cassia fistula (Amaltash)	02
13	Nyctanthus arboricum (Parijatak)	02
14	Santalum album (Chandan)	01
15	Adhatoda vasaka (Adhulsa shrub)	01

L) Post Graduation Inter Hostel Site-

- The lawn is well develop and maintained in the hostel premises diamond grass lawn – 11.86 Sq. Mtr.
- Shady trees conserve and tree plantation drive survival is pleased

Sr. No.	Name	Qty.
1	Peltoforum pterocarus (Perltoforum)	16
2	Azadirachta meliya (Neem)	06
3	Samanea saman (Rain tree)	03
4	Ficus religiosa (Peepal)	01

- The “Fruit Orchard” is raised in plantation.

Sr. No.	Name	Qty.
1	Mangifera indica (Aamba)	10
2	Psidium guava (Jam)	05
3	Eugenia jumbolina (Jamun)	10
4	Atrocarpus heterophyllus	01
5	Citrus lemon (Lemon)	05
6	Manikara zapota or sapota (Chikku)	05
7	Terminalia catappa (Badam)	05

- The ornamental shrub and trees planted by the side of lawn.

Sr. No.	Name	Qty.
1	Areca palm (Areca)	12
2	Bahunia racemose (Kachnar)	05
3	Nyctanthus arboricum (Parijatak)	01

M) Boys Hostel –

- a) The nearby side is conserved by old well grown trees.

Sr. No.	Name	Qty.
1	Azadirachta indica (Kaduneem)	30
2	Terminalia catappa (Badam)	15
3	Ficus religiosa (Peepal)	05
4	Mangifera indica (Mango)	05

To some extent Vriksharopan programme carried over with fair survival and hight.

Sr. No.	Name	Qty.
1	Eugenia jambolana (Jamun)	10
2	Bahunia racemose (Kachnar)	15
3	Santalum album (Chandan)	03
4	Alstonia scholaris (Saptaparni)	57

N) Girls Hostel

- a) The hostel premises is covered by Diamond grass lawn – 200 Sq. Mtr.
b) Ornamental landscape touch by shrubs

Sr. No.	Name	Qty.
1	Thuja compacta	05
2	Hibiscus sp.	02
3	Tecoma gaudichaudi	05
4	Tagar sp	15
5	Nerium oleander (Kanhher)	03

Avenue ornamental trees

6	Polythania longifolia (Ashoka depping)	08
7	Eucalyptus hybrid (Nilgiri)	05
8	Citrus lemon	05

The plantation drive survival

9	Spathodia companulata	06
10	Peltroforum pterocarpum	12
11	Samanea saman (Rain tree)	01
12	Eugenia jambolana (Jamun)	02
13	Mangifera indica (Aamba)	01
14	Ficus religiosa (Peepal)	01
15	Azadirachta melia (Neem)	05

O) Auditorium-

Near the auditorium the open ground is covered up by the greenery in year 2022 only.

- a) Create Diamond lawn "Diamond Grass" – 250 Sq. Mtr.
- b) The old trees conserve

Sr. No.	Name	Qty.
1	Ficus religiosa (Peepal)	01
2	Ficus bengalensis (Vad)	01

- c) The beautification of open premises created with aesthetic manner and lands caping the ornamental species planted are.

Sr. No.	Name	Qty.
1	Ixora elongata, Ixora chinensis	34
2	Gardenia jasminoids	10
3	Widelia sp	35
4	Muraya exotica (Madhumalti)	06
5	terminallia mantaly	32

The above vegetation cover tree brought the area, relief and pleasant feeling to the passer by and chairs the visitors.

Audited By



(Sudhir J. Bawankar)
Retd. Sub Divisional Forest Officer
Allapalli Forest Division

ENVIRONMENTAL AUDIT

The institution running the college and hospital, located on the large area. The buildings of the college and hospital are full equipped with all amenities like communication, roads, water supply and drainage etc. the open land is utilised under the vegetation cover. The following observations are noticed.

- I)
- 1) Premises of the college and Hospital is free from Air Pollution. The large trees, check the air pollution and wind break.
 - 2) There is area some trenches where the litter get dumped which may treated as compost trench.
 - 3) The inner building of Hospital & College is free from the use polythene and also the external portion too, free from polythene.
 - 4) The water supply to the domestic use is from wells, for the domestic hygienic purpose, the drinking water provides from local Municipal authority.
 - 5) The drainage system is well constructed due to which the effluent wasted and also the soak piles at some internal, check the soil and water pollution.
 - 6) The domestic treated water to some extent diverted for gardening approx. 12000Ltr/Day.
 - 7) The authorities prohibit the burning of littoral, foliage in the premise.
 - 8) The bio-medical waste is segregated to wet, dry in coloured dust-bins eq. Blue, Red, Yellow.
 - 9) The large trees in the premise is crowded with birds at particular period and their nest.
 - 10) The green zone inner and exterior of building offer great relief from pollution, hot-sun and refresh the people coming for the purpose.

II) Nature's assembly –

- 1) The large trees dense vegetation naturally attracts the birds. They assemble there in their nest, get food from fruit. Their sweet vocal voice chirping amuses and relive strain.
- 2) Climate change experience to mitigate the temperature at some places. Actual verification carried on.

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ENERGY AUDIT

The Non-renewable energy resource are developed by the Institute in addition to regular amenities as below.

- 1) The unique and pride of Amravati is the "Oxygen plant" install in the premise of Hospital. It is playing great role in providing oxygen to patient's life and scarcity of life Line gas is fulfil.
- 2) The buildings are provided the rainwater harvesting system which do the role water conservation.
- 3) The energy saving LED lights illuminates the premise at some portion.
- 4) The solar Panels are install at which generation grid roof top, which generated 430 KW

The institution adopted the renewable energy through 1300 Solar Panels installed on the roof of terrace. The generation of Solar energy mitigate the requirement from power supply.

The above non-renewable resources are expedient to overcome the pollution.

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Future plan

- 1) The institution authority use to implement the "Vriksha Ropan" programme annually as social responsibility through students, officers employees and office bearer of Shri Shivaji Education Society, Amravati and their employees Education society's.
- 2) The landscape and lawns will be maintained mostly time to time with due care keeping its aesthetic scenario.
- 3) The old trees will be conserved to maintain the healthy pollution free atmosphere and biodiversity.
- 4) The non-renewable energy source like, solar panel will not be disturbed it may be added periodically

Remark

- 1) The Medical College and Hospital had very fair vegetative cover through the vacant open land surrounding the buildings.
- 2) The institution did the provision of providing the pollution free air, Which rich oxygen healthy green site to daily visiting public and patients to hospital
- 3) All the office bearers and students are enthusiastic to save biodiversity nature by promoting the programme of greenery and save nature.

This is to certify that the institution and its authority definitely steps up to green movement.

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