

Environment Audit Report

SESSION 2017-18



S.U.S Government College Sunam.

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ENVIRONMENT AUDIT REPORT
Session 2017-18



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1. Introduction:

This environmental audit is a type of management through which it is known how good the organization's environmental organization, management and equipment are for the purpose of safe protection of environment, risks, identifying and correcting natural resources in its operations/projects. For which a systematic, documented and objective assessment is based. It is true that educational institutions play an important role in the field of environment, that's why it is natural that there is a demand for improvement. In the current worsening environmental scenario, it is also important that these institutions set an example and pave the way for future generations by implementing eco-friendly initiatives and technologies within their premises. The concept of environmental consciousness pervades the core functions of this institute, and the Environmental Self-Assessment Report is an honest attempt to analyze the college's environmental policies. S.U.S. Government College, Sunam always believes in maintaining its own standards in terms of environment and quality consciousness. It has taken many initiatives to protect its environment from pollution.

2. About Institute:

S.U.S. Government College, Sunam was established in the year 1969 as Shaheed Udham Singh Memorial Degree College, Sunam but in 1974, when the ashes of the great martyr were brought from London to Sunam through the efforts of the Central and State Governments. The name of the institute was changed to Shaheed Udham Singh Government College, Sunam. The college is affiliated to Punjabi University, Patiala and has received accreditation-Grade B from NAAC. Its special feature is that it is keen to facilitate the participation of village students in higher education. Its efforts are directed towards providing a holistic education that encourages critical and independent thinking. Adequate infrastructural facilities like classrooms, offices, library, laboratories, playground etc. are available in the college. Apart from the regular teaching learning activities, the college has been striving for the overall development of the students by conducting various extra-curricular activities. The college is continuously progressing towards fulfilling its objectives and goals. It also offers undergraduate and some postgraduate courses in science, commerce and arts.

3. Objectives of Environmental Audit:

The main objectives of environmental audit are as follows:-

- i) Monitoring and evaluating green practices in the college campus.

- ii) To document the floral diversity of the college and motivate the staff and students for the same.
- iii) Encouraging to protect the environment by planting maximum number of trees to reduce carbon emissions.
- iv) Taking steps for waste management by adopting the concept of reuse.
- v) Estimating the energy requirements of the college and encouraging the use of renewable energy resources.

Due to the very bad effects of global warming in the present time, it has become necessary to reduce the carbon emissions, so as to create a safe environment and it is also very necessary for the health of the living creatures, so creating awareness to handle the environmental issues the main objective of this audit is to.

4. Methodology

Environmental audit methodology includes physical inspection of premises, observation and documentation review and data analysis. The following areas were included in the study to assess the status of environmental management in the premises:

4.1 Green Area Management

4.2 Energy conservation

4.3 Water Management

4.4 Waste Management

4.1 Green Area Management

The total area of S.U.S. Government College Sunam is about 21.6 acres. The total built up area is 81982 square ft which includes Administrative Block, Science Block, Commerce Block, Arts Block, HEIS Block, Post Graduation History Department, Library, Girls' Common Room, Auditorium, Bathroom and Canteen. The total open area is 858914 square ft which includes lawns, Stage, playgrounds and roads. The college campus has four large lawns and two small lawns in addition to an open green field in front of the main stage. All these are shown in the pictures below:-

Science Lawn



Near staff Room



Hockey Astroturf Ground



Main Stage Lawn



Near Principal Office Lawn



Administrative and Girls Common Room Opposite Lawn



Small Lawn in Front of Fine Arts Lab



Grass Area Backside of the Science Department



College Canteen Area



4.1.1 Plants in college premises

The college campus has various types of trees, plants, vines, shrubs and herbs.

The details of the plants are given below:

Table 4.1.1 Tree

S. No	Common Name	Botanical Name	Counting
1	Safeda ਸਫੈਦਾ	Eucalyptus lanceolatus	20
2	Banayan Tree ਬੋਹੜ	Ficus benghalensis	05
3	Sacred Fig ਪਿੱਪਲ	Ficus religiosa	08
4	Neem (ਨਿੱਮ)	Azadirachta indica	35
5	Chinaberry (ਡੇਕ)	Melia azadirachta	118
6	Weeping fig	Ficus benjamina	03
7	Indian Bael	Aegle marmelos	04
8	Kanak Champa	Pterospermum acerifolium	01
9	Gulmohar	Delonix regia	08
10	Neli gulmohar	Jacaranda mimosifolia	03
11	Mulberry	Morus alba	22
12	Sukhchain	Pongamia pinnate	06
13	Drumstick	Moringa oleifera	11
14	Arjun	Telminalia arjun	22
15	Kachnar	Bauhinia variegata	01
16	Curry Patta	Murraya koenigii	01
17	Royal Bottle Palm	Roystonea regia	10
18	Fish Palm	Caryota urens	04
19	Amaltas	Cassia fistula	14
20	Sagwan	Tectona grandis	03

21	Kassod	Senna siamea	04
22	Indian Rosewood	Dalbergia sisso	68
23	Gular	Ficus racemasa	01
24	Sausage Tree	Kigelia africana	01
25	Amla	Phyllanthus emblica	04
26	Monkey Puzzle	Araucaria	05
27	Lemon	Citrus limon	01
28	Guava	Psidium guajava	06
29	Bamboo	Bambusa vulgaris	01
30	Kaner	Thevetia peruviana	04
31	Bottle Brush	Callistemon	04
32	Tecoma	Tecoma stans	19
33	Mehndi	Lawsonia inermis	01
34	China Rose	Hibiscus rosa sinensis	05
35	Haar Shingar	Nyctanthes arbortristis	01
36	Jamun	Syzygium cumini	02
37	False Ashoka	Polyalthia longifolia	15
38	Rubber Plant	Ficus elastica	01
39	Frangipani	Plumeria	02
40	Indian Redwood	Chuk rasia tubularis	18
41	Kamini	Murraya paniculata	02
42	Jujube(Ber)	Zizypus	06
43	Kikar	Acacia wlotica	07
44	Date Palm	Phoenix roebelenii	14
45	Diesel Plant	Zatropha	03
46	Silver Oak	Grevillea robusta	01
47	Elaichi Palm	Alpinia zerumbet5	06
48	Rose	Rosa indica	25
49	More Pankh	Thuja	40
50	Kangi Palm	Cycas	02
51	Snake Plant	Dracaena	01
52	Flame of Forest	Butea monosperma	03
		Total	572

- ❖ Apart from this, some other plants are also in progress and many other aspects related to greenery are also present.

4.2 Water Management:

The college has 03 water cooler chillers and one water tank at different places in the campus to provide clean drinking water. The water cooler chiller's functioning is inspected from time to time to check the suitability of the drinking water and the cleanliness is managed. A large water tank has been managed by the Punjab Water Supply Department in the college premises itself, which is periodically cleaned and inspected by the department. Sewage pipes are inspected from time to time by

the Sewage Board.AC and RO reject water is used for watering the plants. During drinking, waste water is carried to nearby lawns or sewage.

4.3 Energy Conservation:

The classrooms of the college are well ventilated and well lit. This reduces the need for artificial light. This helps a lot in conserving electricity. Faculty members and students switch off lights and fans when not required. As we all know, energy conservation plays an important role in mitigating climate change. Energy conservation is the cheapest solution to energy shortage and is also a more environmentally sound option for increasing energy production. An organization's energy conservation strategy includes a number of behaviors that result in reductions in energy consumption – such as using public transport instead of a personal vehicle. The organization is fully aware of this and has made such activities a part of its daily routine. From time to time students are made aware of this strategy.

4.4 Waste Management:

Waste management includes the following processes and actions. Food waste generated inside the premises is sent to a nearby farm on a daily basis. The owner of the farm takes the food waste and uses it for his own needs. Colored dustbins have been placed at different places to segregate the solid waste as bio-degradable and non-biodegradable. Everyone is prohibited from using plastic bags.

Suggestion:-

- 1) Under waste management, manure can be made by arranging pits in the institution itself.
- 2) Green initiative can be continued continuously.
- 3) The number of seasonal plants can be increased.
- 4) The number of water cooler chillers can be increased.
- 5) More dustbins can be installed.

Environmental Audit Report
S.U.S. Government College, Sunam, (Punjab)

Certificate

25-03-2018

Environmental audit of SUS Government College, Sunam (Punjab) was conducted under the supervision of the undersigned team. The assistance provided by Principal SUS Government College, faculty and staff members is highly appreciated. Environmental audit report has been done for session 2017-2018.

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