



Environment Audit Report

Session 2018-19

S.U.S Government College Sunam.
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ENVIRONMENT AUDIT REPORT
Session 2018-19



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1. Introduction

The environmental auditing process is a practical management tool that evaluates the effectiveness of an organization's environmental management system. This helps in assessing risks and identifying and correcting environmental hazards. Through this it is ensured that the institution has adequate maintenance of environmental management system and efficient representation towards environmental protection in an independent, transparent and orderly manner getting worse day by day

In environmental situations, it is even more important that such institutions set an example and contribute significantly in paving the way for future generations by implementing eco-friendly initiatives within their premises. Accepting the concept of environmental protection as essential, this organization has carried out many types of works. Being ready for environmental self-evaluation by the institution, while it is an honest effort to analyze the environmental policies of this college, it also has a responsible approach towards the environment. This institution always believes in maintaining its own standards in terms of awareness of environment and its conservation. It has taken several initiatives to protect the environment.

2. About Institute

Shaheed Udham Singh 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 with 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 NAAC Accreditation - Grade B. One of its specialties is that it strives to increase the participation of

village students in the field of higher education. Its efforts are directed at providing holistic education that encourages critical and independent thinking. Adequate infrastructure facilities like class rooms, offices, library, laboratories, playground, auditorium etc. are available in the college. The college has been striving for the all round development of the students by conducting various extra-curricular activities for them apart from the regular teaching learning activities. The college is making steady progress in fulfilling its aims and objectives. It also offers undergraduate and some postgraduate courses in Arts, Commerce and Science.

3. Objectives of Environment Audit:-

The main objectives of environmental audit are as follows:-

- i) Reduction of health risk factors for humans.
- ii) To help protect the environment from harm.
- iii) Inspire to protect the environment by taking green initiatives to reduce carbon emissions.
- iv) Taking steps for waste management.
- v) Facilitating management control of environmentally related practices.
- vi) To anticipate the energy requirements of the college and encourage the use of renewable energy resources.
- vii) To assess compliance with the policies of the institution.

The main objective of this audit is to create awareness to handle environmental issues, to improve the health of living beings in present times.

4. Methodology

The environmental audit included physical inspection of the premises, observation, review of documentation and data analysis. The study specifically covered the study of the following areas to assess the status of environment management in the campus:-

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 SUS Government College Sunam is around 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 including lawn, playground, stage and roads. In addition to five big lawns and two small lawns and an open green ground in front of the main stage, botanical gardens are also available in the college campus. All these are shown in the pictures below:-

Principal Office Front Lawn



Administrative Block and Girls Common Room Opposite Lawn



Near Staff Room lawn



Science Block Front Lawn



Main Stage Lawn



Botanical Garden Lawn



Youth Red Cross Park



4.1.1 Plants in the College Campus

The college campus has a variety of trees, plants, vines, shrubs and herbs.

The details of the plants are given below:

S. No	Common Name	Botanical Name	Counting
1	Safeda सदैदा	Eucalyptus lanceolatus	20
2	Banayan बैयान	Ficus benghalensis	05
3	Sacred Fig पिंपल	Ficus religiosa	08
4	Neem (निम)	Azadirachta indica	35
5	Chinaberry (डैक)	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	10
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	02
16	Curry Patta	Murraya koenigii	02
17	Royal Bottle Palm	Roystonea regia	14
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	05
26	Monkey Puzzle	Araucaria	05
27	Lemon	Citrus limon	01
28	Guava	Psidium guajava	06
29	Bamboo	Bambusa vulgaris	01
30	Kaner	Thevetia peruviana	05
31	Bottle Brush	Callistemon	05
32	Tecoma	Tecoma stans	19
33	Mehndi	Lawsonia inermis	01
34	China Rose	Hibiscus rosa sinensis	06
35	Haar Shingar	Nyctanthes arbortristis	01
36	Jamun	Syzygium cumini	02
37	False Ashoka	Polyalthia longifolia	16

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	07
43	Kikar	Acacia wlotica	07
44	Date Palm	Phoenix roebelenii	14
45	Diesel Plant	Zatropa	03
46	Silver Oak	Grevillea robusta	01
47	Elaichi Palm	Alpinia zerumbet5	07
48	Rose	Rosa indica	32
49	More Pankh	Thuja	44
50	Kangi Palm	Cycas	03
51	Snake Plant	Dracaena	01
52	Flame of Forest	Butea monosperma	03
53	Siris	Albizia lebbeck	02
54	Ashwgandha	Withania somnifera	04
55	Lemon Grass	Cymbopogom	01
56	Akk	Calotropis procera	01
57	Haldi	Curcuma longa	02
58	Pathar Chatth	Bryophyllum	04
59	Aloe vera	Aloe vera	04
		Total	617

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

4.2 Water Management

04 water cooler chillers (near girls common room, near seminar hall, near HEIS department, in canteen), one water tank (near HEIS department) available at various places in the college to provide clean drinking water in the college Are. The suitability of drinking water is checked from time to time. Monitoring and cleaning of water cooler chiller's functioning 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.

4.3 Energy Conservation

The institute has well ventilated and well lit classrooms and labs which are very helpful in conserving electricity. Giving importance to energy conservation, the faculty members and

students switch off lights and fans when not required. They believe that energy conservation is the cheapest solution to overcome energy shortage. This thinking of them is also seen as a more environmentally sound option for increasing energy production. We believe that an energy conservation strategy includes any behavior that results in a reduction in energy consumption – such as reducing the use of a particular energy-using service, etc. The organization is fully aware of this and has made such activities a part of its daily routine. Programs are organized from time to time to sensitize the students about this strategy.

4.4 Waste Management:-

Waste management includes the following processes and actions:-

The green waste collected in the college campus in the form of fallen leaves, vegetable peels from the college canteen, etc. is deposited in compost pit and is also used after the process of natural composting. The solid waste is segregated as bio-degradable and non-biodegradable by colored dustbins at different places in the institution. Use of plastic bags is prohibited and sign boards/posters have been put up in the college campus to promote plastic free environment. AC and RO reject water is used for watering the plants. During drinking, waste water is carried to nearby lawns or sewage.

Compost pit



5. Environmental Audit - Questionnaire

i) What is the total permanent population of the Institute during the session 2018-19?

Student Strength

Male	1615
Female	1147
Total	2762

- ii) Estimated number of visitors (per day) 250 to 300
- iii) Waste minimization and recycling Yes
- iv) Green Initiatives Yes
- v) Energy Conservation Yes
- vi) Water Conservation Yes
- vii) Clean air Yes

viii) Animal and bird welfare	Yes
ix) Environmental Legislation	Yes
x) General Practice	Yes
xi) Which of the following is available in your institute?	
1. Garden Area	Available
2. Playground	Available
3. Toilet	Available
4. Garbage or waste storage yard	Available
5. Laboratory	Available
6. Canteen	Available
7. Guest House	Not available
8. Hostel	Not available
9. Botanical Garden	Available
10. Herbal Garden	Not available
11. Generator	Available
12. Noise pollution of generator	There are auto generators, noise pollution is not generated

Suggestion:-

- 1) More efforts can be made for environmental protection awareness.
- 2) The pollution caused by the use of generators can be further reduced.
- 3) Green initiative can be continued continuously.
- 4) Paper suitable for printing can be reused from the other side.
- 5) More dustbins can be installed.
- 6) Some other efforts can also be made for the welfare of animals and birds.

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

Certificate

21-04-2019

The Environment Audit of S.U.S. Government College, Sunam, (Punjab) was carried out under the supervision of the undersigned team. The help provided by the Principal SUS Government College, faculty and staff members is highly appreciated. Environment audit report has been done for the session 2018-2019.

Members of the Audit Team:-

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3) Prof. Jagmeet Singh (Department of Geography, Govt. Ripudaman College, Nabha-External) *Jagmeet Singh*

4) Mr. Harmeet Singh (Forest Range Officer, block Sunam-External) *Harmeet Singh*

5) Prof. Renu Aggarwal retired from Department of Chemistry from S.U.S. Govt. College Sunam (External) *Renu Aggarwal*

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