

| CIL Ref. No.: | CIL/20232543 |
|-----------------------|---|
| Name of organization: | Government College Kullu |
| Address of premises: | NH-3, Dhalpur, Pin code 175101 |
| Name of Inspector: | Ashutosh Tiwari |
| Date of Inspection: | 21 st and 22 nd December 2023 |
| Type of Inspection: | Green Audit |

| Organization Details | |
|----------------------------|--|
| Total Campus Area | 20234.20 Square meter |
| Total Built-up Area | 9943.94 Square meter |
| Covered Parking | 735m ² |
| Total Air-Conditioned Area | 4098.48 sq feet |
| Non-Airconditioned Area | 16135.52 sq feet |
| Cross Floor Area | 2700 m2 |
| Forest / Planted Area | 2450m ² |
| Age of the building | Arts Block: Established year 2016 (7years) Science Block: Established year 1979 (44 Years) Arts Block: Established year 1969 (54 years) |

DETAILS OF INFRASTRUCTURE

| Classrooms | 39 |
|-----------------------------|----|
| Laboratory | 12 |
| Library | 01 |
| Seminar hall and auditorium | 01 |
| Sports room | 01 |
| Gymnasium | 01 |



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| Staff and student parking area | 735m ² |
|--------------------------------|---------------------|
| Canteen | 01 |
| Playground | 01 |
| Green Area / Plantation | 2450 m ² |

LIST OF BUILDINGS

| Name of Building | Number of Floors | Area (m2) |
|----------------------|------------------|---------------------|
| Administrative Block | 2 | 564 m ² |
| Science Block | 3 | 900 m ² |
| Arts Block | <u>4</u> | 1330 m ² |

DEPARTMENTS

| 1 | Department of English |
|----|---|
| 2 | Department of Hindi |
| 3 | Department of Political Science |
| 4 | Department of Economics |
| 5 | Department of History |
| 6 | Department of Sociology |
| 7 | Department of Education |
| 8 | Department of Sanskrit |
| 9 | Department of Journalism and Mass Communication |
| 10 | Department of Public Administration |
| 11 | Department of Geography |
| 12 | Department of Mathematics |
| 13 | Department of Geology |
| 14 | Department of Chemistry |
| 15 | Department of Physics |
| 16 | Department of Botany |
| 17 | Department of Zoology |
| 18 | Department of Music |
| 19 | Department of Environmental Science |
| 20 | Department of Commerce |

DETAILS OF STUDENTS AND STAFF

| Total Number of Students | 5232 (Male:2365, Female 2867) |
|--------------------------|-------------------------------|
| Teaching Staff | 68 |
| Technical Staff | Nil |
| Non-Technical Staff | 18 |





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| ĺ | Outsourced Staff | 38 |
|---|------------------|----|

GREEN AUDIT PARTICIPANTS

| Name | Designation |
|------------------|---------------------|
| Dr. Ram Nath | Associate Professor |
| Dr. Harish Chand | Assistant Professor |
| Mrs. Monika | Assistant Professor |
| Mr. Gian Chand | Assistant Professor |
| Dr. Ashish Kumar | Assistant Professor |

LEGAL COMPLIANCES

| Description | Registration Details |
|---|----------------------|
| Consent to operate (CTO) from SPCB | NA |
| Fire NOC | Yes |
| Water Boring permission | NA |
| DG Set Permission | NA |
| Single Window Clearance System | |
| DIRECTORATE OF FIRE RESIVICES HIMACHAL PRADESH SHIMLA-2 | |
| NO.OBJECTION CERTIFICATE | |
| District Or Aur Concurs Base presence of Based basels basels, Basel Basel Basels, Basel Basels, Bas | |
| Remarks: Adequate. Firs. precamionary, measures, he adqued in consultation, with Jusal Firs. Differ during annual day function, sc. any, other, function, where temporary structures, and Pandals, ars to be executed. [Digitally Eigned 17:12:2019 15:37:21] Chief Pro Differe. | |
| Himachal Pradesh Shintar2 Place: Shinta Dalaet: 2018-12-07 | |
| 1. Fire NOC | |



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Situated on the right bank of river Beas, Govt. College Kullu provides a perfect ambiance for teaching learning activities. The glorious journey of the college began five decades ago in the year 1967 with 57 students and the institution has emerged as one of the premier institutions of higher learning of Himachal Pradesh with a strength of more than 5000. The opening of this institution of higher learning proved to be a boon for young men and women of Kullu district, Lahaul & Spiti, and adjoining areas of Mandi district as prior to this they had to go too their places to pursue their studies. In 1971 classes in the science stream also began. The college at present offers different undergraduate programs in Humanities, Science, Commerce, Computer Application, and PostGraduate courses in English, Economics, Political Science, Hindi & Tour and Travel Management. The college also runs self-financing courses in BCA and BBA. In the year 2018 vocational courses in Retail Management and Tourism & Hospitality were also introduced. The college has emerged as one of the biggest institutions of higher learning in Himachal Pradesh with the strength of more than 5000 students. In 2021, the college has been included under the Utkrisht Mahavidyalaya scheme of HP Govt. The college is recognized under section 2(f&12B) of the UGC Act and has been re-accredited B++ by NAAC in 2016. Since its inception, the college had been affiliated with Himachal Pradesh University Shimla, but from session 2022-23, its affiliation is with the newly opened Sardar Patel University Mandi HP in a phased manner starting from the 1st year of UG and PG programmes. During the current session 2023-24, the 3rd year of present UG programmes, the affiliation continues to be with the HPU.

Spread over an area of 5 acres, the college has a Science Block, Library and Administrative Block, and New Arts Building which has a well-equipped conference hall, multi-purpose hall ,smart classrooms canteen, and Language Lab. The college has tribal hostels both for boys and girls. A basketball court has also been constructed recently. The college has well-equipped science labs and computer labs with internet facilities. The college has subscribed to the N-list and the Stakeholders can have access to E-Resources through INFLIBNET. Different activities in the college like Sports, NCC, NSS, Rovers & Rangers enhance the vibrancy of the institution and help in developing the personality of the students. It is a matter of great pride that Govt. College Kullu got the first unit of NCC Air Wing in the state in 1972-1973. The college celebrated its Silver and Golden jubilees in 1992 and 2017 respectively. The college is proud of its alumni who have excelled in different walks of life. efforts are always being made to live up to the college Motto "विनितोज्ञानवानशुचि:" ("Education makes one humble, knowledgeable and pure in thoughts and deeds"). The college strives to inculcate these values in the learners who enter the portals of this magnificent institution.

Vision

The college aims at the holistic development of students, empowering them to fulfill their academic and professional aspirations as well as emotional needs; instilling human values in them for promoting national integration and creating responsible global citizens by celebrating diversity. The motto of the college "विनितो ज्ञानवान शुचि:" i.e. Education makes one "humble, knowledgeable, and pure in thoughts and deeds" sums up the vision of the institution.

Mission



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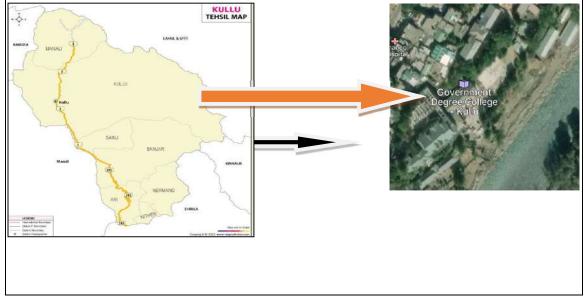


To accomplish our long-term goals, our mission is to strive whole year round to provide opportunities to students belonging to diverse strata through various well-organized programs so that the students can realize their true potential.

- Academic activities are organized to enhance critical, analytical, and communication skills.
- Co-curricular activities are organized by clubs and societies for the overall development of their personalities.
- NCC, NSS, Rovers & Rangers units of the college prepare students to serve the society and nation at large.
- Sports help in the overall personality development and character building of students.
- Career Counseling and Placement Cell organizes counseling and coaching sessions, lectures by eminent speakers from diverse fields, workshops, job melas, etc. to enhance the employability avenues of the students.
- To keep pace with the changing times, the college keeps strengthening its ICT facilities for better teaching-learning processes as well as administration.
- Teachers are encouraged to keep themselves updated in their respective fields.

GEOGRAPHICAL LOCATION AND CAMPUS MAP IN SCALE

Latitude and longitude coordinates are: **31.957851, 77.109459**.



LAND USE DATA

| Categories o | f Land Use | Area (m²) | |
|--------------|------------|---|--|
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| PLANTATION AREA | 2450m ² |
|-------------------------------|------------------------|
| BUILT UP AREA (INCLUDE ROADS) | 9943.94 m ² |
| TOTAL AREA | 20234 sqm |

CLIMATIC PARAMETERS

1. Climate:

Located at an elevation of 1278m (4193feet) above sea level, Kullu has a Temperate highland tropical climate with dry winters climate (Classification: Cwb). The district's yearly temperature is 24.46°C (76.03°F) and it is -1.51% lower than India's averages.

2. Rainfall:

Kullu typically receives about 42.86 millimeters (1.69 inches) of precipitation and has 35.54 rainy days (9.74% of the time) annually.

3. Temperature:

The district's yearly temperature is 24.46°C (76.03°F) and it is -1.51% lower than India's averages

BIO-DIVERSITY

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Physical Count of Flora in Campus

| S. No. | Particulars | Units |
|--------|-------------|-------|
| 1 | Trees | 82 |
| 2 | Plants | 209 |
| 3 | Gardens | 2 |

List of Tree/Shrubs/Herbs species found in the campus

| S. No. | Botanical Name | Common Name | Units |
|--------|----------------------|-------------------------------|-------|
| Trees | | | |
| 1 | Grevillea robusta | Australian silver oak, Silver | 22 |
| | | oak, Southern silky oak | |
| 2 | Pistacia integerrima | Zebrawood, Kakkad-singhi | 01 |
| 3 | Cedrus deodara | Himalayan cedar, Devdar | 21 |
| 4 | Diospyros kaki | Japanese persimmon, | |
| | | Oriental persimmon, | |
| | | Persimmon, Japani phal | |





| 5 | Melia azedarach | China berry, Indian lilac, | 02 |
|---------------|--|-----------------------------|----|
| J | | Drek, Jack, Mahanimba | 02 |
| 6 | Magnolia grandiflora | Southern magnolia, Brahm | 01 |
| 0 | | kamal | 01 |
| 7 | Ginkgo biolab | Ginkgo, Maidenhair tree | 01 |
| <u>,</u> 8 | Araucaria heterophylla | Living Christmas tree, | 03 |
| 0 | Arducuna neceropnyna | Norfolk Island pine | 03 |
| 9 | Salix tetrasperma | Indian willow | 10 |
| 10 | Jacaranda mimosifolia | Blue jacaranda | 07 |
| 10 | Prunus armeniaca | Apricot, Khumani | 07 |
| 12 | | English walnut, Persian | 02 |
| 12 | Juglans regia | walnut, Walnut, Akhrot | 02 |
| 13 | Morus alba | Common mulberry, | 02 |
| 15 | | Silkworm mulberry, White | 02 |
| | | | |
| 14 | Figue palmata | mulberry | 03 |
| 14 | Ficus palmata | Fig, Punjab fig, Bedu, | 03 |
| 1 Г | Dobinia popudo popoia | Fegda | 02 |
| 15 | Robinia pseudo-acacia | Black locust, Rubinia | 02 |
| 16 | Populus ciliate | Himalayan poplar, Poplar, | 03 |
| 47 | | Safeda | 00 |
| 17 Charach | Juniperus chinensis | Chinese juniper | 02 |
| Shrub: | | Loguat | 01 |
| | Eriobotrya japonica Melaleuca citrina | Loquat | |
| 2 | | Bottle-brush tree, Crimson | 02 |
| | | bottle brush, Lemon | |
| 2 | Dobrogogoja loggifalia | bottle brush | 01 |
| 3 | Debregeasia longifolia | Orange wild rhea | |
| 4 | Lagerstroemia indica | Crepe-myrtle | 01 |
| 5 | Grewia optiva | Bhimal, Biul | 01 |
| 6 | Prinsepia utilis | Himalayan cherry | 01 |
| 7 | Rosa indica | Indian rose, Rose, Gulab | 05 |
| 8 | Roylea cinera | Kaudi, Koudi | 01 |
| 9 | Ruscus hypoglossum | Horse tongue lily, Mouse | 01 |
| | | thorn, Spineless butcher's- | |
| 4.0 | | broom | |
| 10 | Zanthoxylum armatum | Rattan pepper, Winged | 01 |
| | | prickly ash, Timber, Tirmir | |
| 11 | Zizyphus nummularia | Jujube, Wild jujube, | 01 |
| 4.9 | | Jhahrberi | |
| 12 | Ligustrum obtusifolium | Amur privet, Border privet | 01 |
| 13 | Nerium oleander | Oleander, Kaner | 02 |



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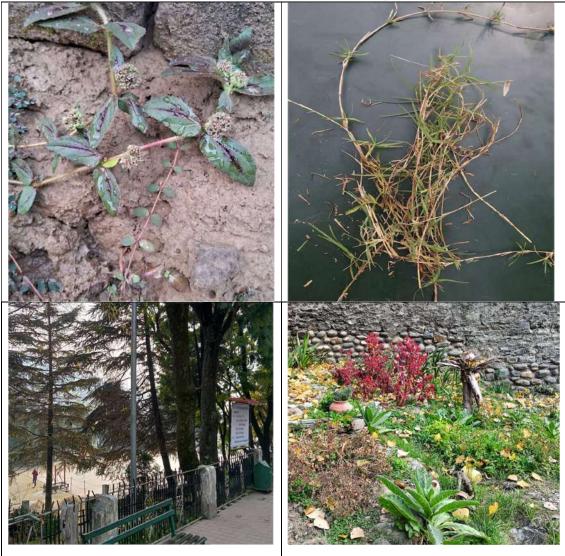


| 14 | Rosa alba | White rose | 02 |
|-------|------------------------|--|----|
| 15 | Rosmarinus officinalis | Rosemary | 01 |
| 16 | Buddleja davidii | Butterfly bush, Summer lilac | 01 |
| 17 | Beaucarnea recurvata | Pony tail palm | 01 |
| 18 | Berberis aristate | Barberry, Indian barberry, Kashmal, Sumbal | 01 |
| 19 | Opuntia aurantiaca | Jointed cactus, Jointed prickly pear, Tiger pear | 05 |
| 20 | Opuntia ficus-indica | Barbary fig, Fig opuntia, Indian fig opuntia, Prickly pear | 07 |
| 21 | Nicotiana tabacum | Tobacco plant, Tambaku | 10 |
| 22 | Hibiscus syriacus | Common hibiscus, Rose mallow | 03 |
| Grass | es/Herbs | I | 1 |
| 1 | Oxalis corniculatus | Creeping woodsorrel, Sleeping beauty | 15 |
| 2 | Aloe arborescens | Aloe, Ghritkumari | 10 |
| 3 | Mentha spicata | Pudina | 12 |
| 4 | Cynodon dactylon | Bermuda grass | 20 |
| 5 | Chenopodium album | Bathu | 05 |
| 6 | Malva verticilillata | Chinese mallow | 02 |
| 7 | Phylanthus nirusi | Gale of the wind | 01 |
| 8 | Euphorbia heloscopia | Umbrella milk weed | 05 |
| 9 | Trifolium sepens | White clove | 02 |
| 10 | Verbascum Thapsus | Great mallein | 05 |



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List of birds and animals

| S. No. | Zoological Name | Common Name |
|--------|-----------------------------|-----------------------|
| 1. | Columba livia | Pigeon |
| 2. | Passer domesticus | Common house sparrow |
| 3. | Acridotheres tristis | Common myna |
| 4. | Corvus splendens | House crow |
| 5. | Psittacula spp. | Parakeet |
| 6. | Coracias caudatus | Lilac breasted roller |
| 7. | Phoenicurus coeruleocephala | Blue capped redstart |
| | | |



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| 8. | Conis lupus | Dog |
|----|-----------------------------|-----------------------|
| 9. | Bos indicus | Indian cow |
| 1. | Columba livia | Pigeon |
| 2. | Passer domesticus | Common house sparrow |
| 3. | Acridotheres tristis | Common myna |
| 4. | Corvus splendens | House crow |
| 5. | Psittacula spp. | Parakeet |
| 6. | Coracias caudatus | Lilac breasted roller |
| 7. | Phoenicurus coeruleocephala | Blue capped redstart |
| 8. | Conis lupus | Dog |
| 9. | Bos indicus | Indian cow |

List of Butterflies found in and around the campus.

| S. No. | Zoological Name | Common Name |
|--------|---------------------|----------------------------|
| 1. | Vanessa indica | Indian red admiral |
| 2. | Udara dilecta | Himalayan pale hedge blue |
| 3. | Papilio bianor | Common peacock butterfly |
| 4. | Ypthima baldus | Common five ring butterfly |
| 5. | Phalanta phalantha | Common leopard butterfly |
| 6. | Celastrina neglecta | The summer azure |

List of Reptiles found in and around the campus

| S. No. | Zoological Name | Common Name |
|--------|-------------------------|---------------------------|
| 1. | Podaris muralis | Common wall lizard |
| 2. | Lampropholis guichenoti | Common garden skink |
| 3. | Paralaudakia himalayana | Himalayan agama |
| 4. | Laudakia tuberculta | Himalayan mountain lizard |
| 5. | Hemidactylus spp. | Common house gecko |









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LEGEAL REQUIREMENTS

| Description | Registration Details |
|------------------------------------|----------------------|
| Consent to operate (CTO) from SPCB | NA |
| Fire NOC | Yes |
| Water Boring permission | NA |
| DG Set Permission | NA |

GENERAL

| General Requirements: Environmental Policies / Environmental Objectives, etc. | | |
|--|---|--|
| Is there an environmental policy? Is it publicly communicated? | Yes, there is written environmental policy developed by the institute. The organization creates awareness among students, and staff regarding the efficient utilization of available resources, and environment- conscious programs also many seminars, workshops awareness programs are being conducted for the same. Reference doc/pic.: - A1 | |
| Is there a defined waste management policy in the organization? | Yes, there is defined waste management policy in the organization. Reference doc/pic.: - A4 | |
| Are there any quantifiable environmental objectives decided by the organization? | No evidence found at the time of audit. | |
| Is the organization aware of all environmental Laws pertaining to different aspects of the organization's activities? Mention laws & compliance status. | There is no evident document/record that ensures that the organizations are aware of all environmental laws concern to different aspect of the organization's activities. | |
| Does the organization have any Recognition/certification for the environment friendliness? Provide details. | No, the organization does not have any recognition/certificate for the environment friendliness. | |





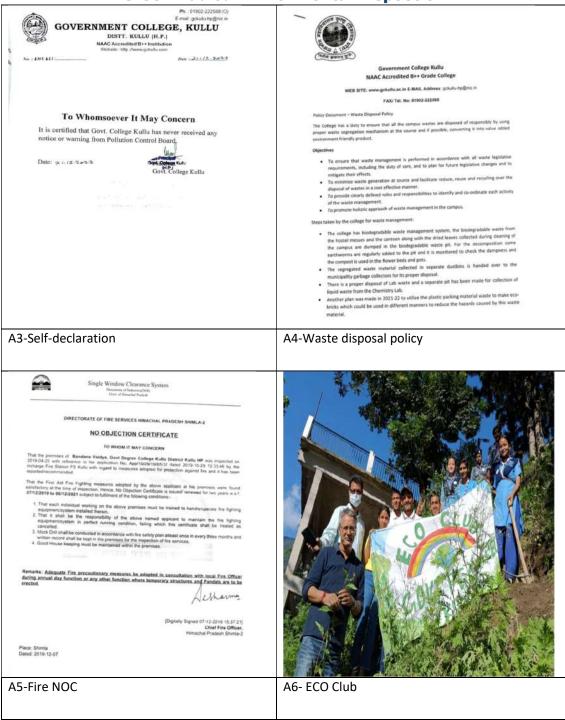
| | ronmental inspection |
|---|--|
| Has the organization established any committee to decide, implement & monitor environmental initiatives? | Yes, the organization established Energy club and eco club to decide, implement & monitor environmental initiatives. Reference doc/pic no.: - A2, A6 |
| Has the institution ever received any notice/warning from the pollution control board or any other concerned environmental authorities? If yes, then what corrective & preventive measures have been taken? | No, the institution never received any notice/warming form the pollution control board or any other concerned environment authorities. Reference doc/pic no.: - A3 |
| Related images / documents | |
| Government College Kullu NAAC Accredited B++ Grade College WEB STR: www.gckotla.ac.in E-MAIL Addeess goodshap@exc.m | Government College Kullu NAAC Accredited 8++ Grade College WEB 31TE: www.gckullus.to.te.4Mil. Address: giclub-r/og(nit.in FAX Tel. Net: 0195-22288 |
| PAXI Tel. No: 1993-222596 Policy Document - Environment Pullcy Objective It is very important that stakeholders understand their responsibility in taking care of the initian's resources for the follow generations. Our objective is not at the sector region of an anti-ring resources for the follow generations. Our objective is not at the sector region at a start of source related to environment at weak heakta had not generations at the sector way and an anti-ring and concerns for one environment. The tacketer of our other testering related to environment and sector environment and environment. The tacketer of our outper version of extendent related to a store sector is servering and environment. The tacketer of our outper version generation of environment and sector is servering and environment. The tacketer of our outper version generation of the related of the sector related of a store related to provide and an environment method and the method way to be stored on the sector of the s | Puticy Document - Energy Efficiency Anlicy Energy Cub Vision and Mission Vision To make the students aware and committed to the cause of energy conservation and environmental protection. Mission To make the students and staff aware of the need, concept and methodology of energy conservation. |
| campus and thus positively contribute in environmental sustainability. Context The main content of the present and future generations as total a favourable from and conductive environment is ensured for usafty of the on environmental favourable from and conductive concomments is ensured for usafty of the one environmental favourable from and the one of the environmental favourable from and the one of the intervention of an environmental favourable from and the one of the environmental favourable from environmental favourable from environmental favourable from and the one of the intervention of an environmental favourable from environmental sectors. In this modern age, the environmental department on the station of the environment favourable from environmental intervention and for and the one of the intervention of the environment is an intervention of the environmental favourable from the environment is an intervention of the environment is an intervention of an environmental dependence on environment. Anne who has ability to brank, the servence and the date to industrial resources. Exclusion to an environment, we are not environment, the environmental dependence on environmental environment is untransmittered for an environment is untransmittered for an environment is untransmittered for an environment. In the environmental environmental environment is the providence of the removement is untransmittered for an environment is untransmittered for the environment is untransmittered for environment. Intervention environmental environmental environment is untransmittered for the environment is untransmittered for an environment is untransmittered for the environment is untransmittered for environment is untransmittered for the environment is untransmittered for envintervent is untransmittered for the environm | and environmental protection and the benefits to individuals and nations as a wheller by regularly organize tasks, seminary, workshape, exhibitions are the college. Steps followed for energy conservation in the college. For minimum end energy by national Soft Photoentaire Parent. Foller parent have been installed and the energy brown taking Soft Photoentaire Parent. Foller parent have been installed and there of task of different buildings to Arist Brick, Lineary Building, Son Hostoentaire Parent. Foller parent have been installed and there of task of different buildings to Arist Brick, Lineary Building, Son Hostoentaire Parent. Foller parent have been installed and there or task of different buildings to Arist Brick, Lineary Building, Son Hostoentaire Parent. Other energy sonder manaures tables includes participal of electric equipment/lights when energy contension and more use of green energy. Other energy sonder manaures tables includes participal or of points in soft soft of energy contension in the decisive the discussion arise of green energy. Parentes anisted to important edge preve energy. Parentes anisted to important edge preve energy. Parentes anisted to important edge preve energy. Other using students about energy contensions on the state task propriate locations for energy contension on the state task propriate location. Touleest are regularly accusive about energy contensions. Parentes anisted to important edge (Energy Four, Steres Dar, Environment Dar energ) that are college to task. competitions are held having themes of environmental statisticability and energy contensions. |
| A1-Environment policy | A2-Energy club |





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Identified Nonconformities

- 1. Absence of established quantifiable environmental objectives within the organization.
- 2. Lack of awareness and compliance with various environmental laws, including [specific laws], impacting different facets of the organization's operations.
- 3. Organization lacks recognition or certificates for environmentally friendly practices.

POLLUTION

| Air Pollution Management | | |
|---|---|--|
| (objective, practices / methods to minimize a | ir pollution) | |
| Identify the major sources of air pollution within the organization & the actions taken to either eliminate or minimize the pollution. | The major source of air pollution within the organization are vehicle, construction, chemical from laboratories. The action taken by institute to minimized the pollution is Plantation in and around campus. Reference doc/pic no.: - B1, B2. | |
| HVAC maintenance and calibration records, testing and balancing reports. When was the duct system tested for leakage last? | No written evidence found at time of audit. | |
| DG set stack emission test as per CPCB norms. | The institute has DG Sets for in-house for power generation, in case of supply failure. DG Set Air Pollution Level, TVOC, and Noise Pollution Checks were conducted by CDG Inspection Ltd. at the time of the audit. Following are the outcomes of the check conducted. DG Set Air Pollution Level: 0.52 PM2.5: ug/m3 Noise Pollution Level: 106.1 | |
| Related documents / images | | |





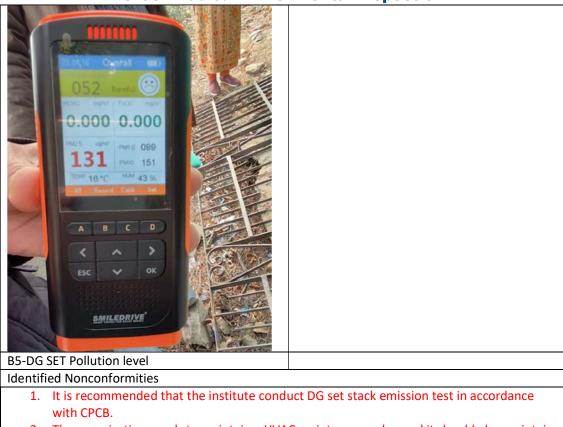






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2. The organization needs to maintain a HVAC maintenance plan and it should also maintain the Periodic record of the same.

In-Door Air Quality

(Checks, methods, tests & practices to ensure indoor air quality)

Does the organization test indoor air
quality? Details of last indoor air quality
test done.There were no records to verify that the college
conducted test to check indoor air quality. Air
Quality check of the campus was conducted by CDG
Inspection
Ltd. at the time of audit.Following are the outcomes of the check conducted.
Indoor Air Pollution Level: 38
PM2.5: 97 ug/m3
Indoor air flow rate: 0.55Reference doc/pic no.: - C1, C2, C8,C9,C10

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| | vironmentar mspeotion | | |
|---|--|--|--|
| Is there a proper system of exhaust of indoor air? | Every classroom, staff room corridor, etc. comprises windows for proper ventilation. Also to maintain the good air quality the institute have installed exhaust fan in laborites. The indoor air flow rate was checked at the time of audit, and the outcome was 0.3 m/s. Reference doc/pic no.: - C3, C14 | | |
| Supplies: | | | |
| Are 'Material Safety Data Sheets (MSDS)' available for different types of supplies (Ex: solvent, wax, adhesives, paints, flammables etc.)? Are storage areas separate & ventilated properly? | Yes, Material Safety Data Sheets (MSDS)' available for different types of supplies. Reference doc/pic no.: - C13 Yes, storage area separate & ventilated properly. Reference doc/pic.: - C5 | | |
| Are less or nonhazardous materials used when possible? Does the organization have a defined system to evaluate & find out safer alternatives? Is there a defined procedure available for disposal of used substances? | During the audit, changes to safer alternatives for the chemicals used are not feasible due to constraints imposed by the curriculum. No written evidence found at the time of audit. No written evidence found at the time of audit. | | |
| General Cleanliness: | | | |
| Are rooms dusted and vacuumed thoroughly and regularly? What are related checks & controls? | Yes, the classrooms, library, staff room, and other area were found to be clean and tidy at the time of the audit. No related checks and controls found at the time of audit. Reference doc/pic no.: - C6 | | |
| Does the organization ensure to use of environment-friendly, non-scented cleaning products? | No written evidence found at the time of audit. | | |



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| Pest control methods & products used (check & control). | No evidence found at the time of audit |
|--|---|
| Does the organization ensure use of low emitting paints, coatings, furniture etc.? What are related checks & controls? | Yes, the organization ensure use of low emitting paints, coatings, furniture. Reference doc/pic no.: - C7 |
| Is there any sign of mold infestation? | Yes, there is sign of mold infestation in the institute. Reference doc/pic.: - C4 |
| Does the organization eliminate any bird or animal nests or droppings near outdoor air intakes? | No, the organization does not eliminate any bird or animal nest or droppings near outdoor air intakes. |
| What are the methods adopted by the organization to control/prevent dust within the buildings? | There are large number of trees and greenery all around the campus. The organization also close all door and window when the campus is closed also regular maintenance is done. Reference doc/pic no.: - C11, C12 |

Related records / images





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5. Mold infestation observed during the green audit at Kullu Government College poses a significant environmental concern, requiring immediate remediation to ensure a healthier and sustainable campus environment.

WATER POLLUTION

| Water Pollution Management (objective, practices / methods to minimize water pollution) | | |
|---|---|--|
| Source of water pollution within the premises. | No there is no source of water pollution within the premises. | |
| Measures taken to prevent / stop water wastage. | The institute have placed poster in placed to aware student and staff regarding the water usage and maintenance. Reference doc/pic no.: - D3 | |
| Does the institute harvest rainwater? Give details. | Yes, the institute practices rainwater harvesting, with a rainwater harvesting system installed on the campus. However, the institute has not provided details about its rainwater harvesting system. | |

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| | Reference doc/pic no.: - D1 |
|--|---|
| Is there any water recycling system? Give details. | Not Available |
| Is there any effluent treatment plant in premises? No. of outlets for discharge of effluent? | Not Available |
| What is the quality of effluent in KLD? | Not Available |
| Whether operating STP/ETP satisfactorily? | Not Available |
| Whether provided flow meters on outlet & inlet of ETP/STP? | Not Available |
| Whether provided separate electricity meter on ETP/STP? | Not Available |
| Whether maintained Logbook for consumption of Electricity/ Chemicals/Quantity of effluent? | Not Available |
| Detail of land in case effluent is discharged for percolation/ irrigation purpose with justification for its 100% utilization. | Not Available |
| Status of ZLD (Zero Liquid Discharge) as per CPCB | Not Available |
| Locate the point of entry of water and point of exit of wastewater in the organization. | The campus has a well-functioning water supply system and a closed sewer system outlet. Reference doc/pic no.: - D2 |
| Related records / images | |

Related records / images



D1-Rainwater harvesting

D2-Water entry point

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| You don't Know vits true Worth unter vits gone | |
|---|--|
| D3- Save water posters | |

| Water Consumption & Water Efficiency Use of water (indoor and outdoor water) & practices related to efficient /reduced use of water.) | | | |
|--|--|--|--|
| Sources of water supply | Supply water and boring water. | | |
| Number of water storage tanks and their storage capacity. Total water storage capacity. | Tank=16, water harvesting tanks=02 Total storage capacity= 48000L | | |
| Water used in irrigation | 5000L/day | | |
| Water used in cleaning | 5000L/day | | |

| Details | No. of persons | Domestic (liter/ day) | Flushing (liter / day) | Total (liter / day) |
|------------------|----------------|--------------------------|---------------------------|------------------------|
| Students | 5232 | 10464 | 5000 | 15464 |
| Teaching Staff | 68 | 150 | 340 | 490 |
| Technical Staff | NIL | - | - | - |
| Non-technical | 18 | 40 | 90 | 130 |
| Staff | | | | |
| Outsourced Staff | 38 | 80 | 190 | 270 |
| Total | 5356 | 10734 | 5620 | 16354 |

| Description | Requirement* | Actual consumption |
|---------------------------------|--|--------------------|
| Water consumption per head /day | Without boarding facility: 45 liter per head / day With boarding facility: 135 liter per head / day | 3.05L/head/day |

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*As per Central Ground Water Authority Guidelines water requirements (Ref. NBC 2016, BIS) of an educational institute for drinking and domestic use.

SANITARY CONVENIENCE TO BE PROVIDED

| Fitments | Educational Institutes (non- Residential) | | | Educational Institutes (Residential) | | | | | |
|-----------------|--|-------------|-----------|--------------------------------------|-----------|--------|-------------|--------|--|
| | Boys | Boys | | Girls | | Boys | | Girls | |
| | Req.* | Actual | Req. * | Actual | Req. * | Actual | Req. | Actual | |
| Water closets | 1 per 40 | | 1 per 25 | | 1 for | 33 | 1 for every | 40 | |
| | pupils or | | pupils or | | every 8 | | 6 pupils or | | |
| | part | | part | | pupils or | | part | | |
| | thereof | | thereof | | part | | thereof | | |
| | | | | | thereof | | | | |
| Ablution taps | 1 in each | | 1 in each | | 1 in each | 68 | 1 in each | 20 | |
| | water | | water | | water | | water | | |
| | closet | | closet | | closet | | closet | | |
| Urinals | 1 per 20 | | - | - | 1 for | 28 | - | 0 | |
| | pupils | | | | every 25 | | | | |
| | | | | | pupils or | | | | |
| | | | | | part | | | | |
| | | | | | thereof | | | | |
| Wash basins | 1 per 60 | | 1 per 40 | | 1 for | 32 | 1 for every | 36 | |
| | pupils, | | pupils, | | every 8 | | 6 pupils or | | |
| | Min 2 | | Min 2 | | pupils or | | part | | |
| | | | | | part | | thereof | | |
| | | | | | thereof | | | | |
| Bath | - | - | - | - | 1 for | 14 | 1 for every | 12 | |
| | | | | | every 8 | | 6 pupils or | | |
| | | | | | pupils or | | part | | |
| | | | | | part | | thereof | | |
| | | | | | thereof | | | | |
| Drinking water | 1 for | | 1 for | | 1 for | 25 | 1 for every | 24 | |
| fountains or | every 50 | | every 50 | | every 50 | | 50 pupils | | |
| taps | pupils or | | pupils or | | pupils or | | or part | | |
| | part | | part | | part | | thereof | | |
| | thereof | | thereof | | thereof | | | | |
| Cleaner's sinks | 1 p | er floor, m | inimum | | | 20 | | 19 | |

*As per IS 1172:1993

| Identified Nonconformities | | |
|----------------------------|--|--|
| 1. | As per Central Ground Water Authority Guidelines water requirements (Ref. NBC 2016, BIS) of an educational institute for drinking and domestic use, the water data provided by institute is | |
| | not sufficient. | |

NOISE POLLUTION

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Noise Pollution Management (objective, practices / methods to minimize noise pollution) The sound audit conducted revealed varying noise levels within the premises. The library recorded 49.5 decibels, while the reading room exhibited 56.5 decibels, and the corridor measured 64.5 decibels. The maximum recorded noise level reached 64 decibels, while the minimum was 58 decibels. The average noise during the audit was influenced by ongoing construction activity and fan noise, resulting in levels that exceeded the permissible limit. In accordance with Noise Pollution Regulation Control Rule 2000, Rule 3(1), the observed daytime noise level of 50 decibels was surpassed. Addressing the sources of noise is crucial to align with regulatory standards.

| Noise level in dB(A) Leq | Standard Level* | Actual Level |
|--------------------------|-----------------|--------------|
| Day Time | 50 | Max- 64 |
| | | Min-58 |
| Nighttime | 40 | NA |

*As per The Noise Pollution (Regulation and Control) Rules, 2000; rule 3(1) and 4(1) Day time from 6:00am to 10:00pm Nighttime from 10:00pm to 6:00am

Related records / images

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| Building Sustainability | |
|--|---|
| Sunding Sustainusinty | |
| Ensure that walls, floors, roofs, and windows are as energy efficient as possible. | The walls, floors, roofs, and windows of the institute are designed to be energy efficient. Glass is used as a building material to enhance energy efficiency by allowing in natural light and reducing the need for artificial lighting, resulting in lower electricity consumption. Reference doc/pic no.: - F1, F2 |
| Design for good indoor air quality | Yes, every classroom, staff room, corridor, etc. comprise window for proper ventilation. The institute have installed exhaust fan in laborites and washroom for ventilation. Reference doc/pic no.: - F4,F6 |
| Use of natural daylight in building interiors as a source of ambient light. | Yes, Use of natural daylight in building interiors as a source of ambient light. Reference doc/pic no.: - F1&F4 |
| Use of low emitting materials for building modifications, maintenance, and cleaning. | The organization ensure use of low emitting paints. Reference doc/pic no.: - F5 |
| Related record /Image | |
| | |
| F1-Natural Ventilation | F2-LUX meter reading |



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| Lighting | |
|---|---|
| Use of energy efficient lighting system (bulb & other products) | Yes, the college has installed an LED light. Reference doc/pic no.: - G1, G2 |
| Use of natural day light | Yes, there is a use of natural daylight in every classroom, library, garden, and lab. |

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Reference doc/pic no.: G3 Related record/images G1.LED Lights G2- LED Lights 1 G3- Class room

Green Audit / Environmental Inspection

ILLUMINATION LEVELS AND GLARE INDEX

| Sr. No. | Area | Standard Illumination (Lux)* | Actual Illumination (Lux) |
|------------|------------|------------------------------|---------------------------|
| a) | Classrooms | 300 | 107 |

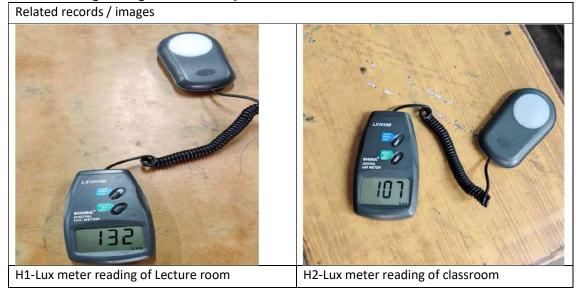


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| b) | Lecture rooms (including demonstration areas) | 300 | 107 |
|----|---|------------|-----|
| | | | |
| c) | Reading rooms | 150 to 300 | 132 |
| d) | Laboratories | 300 | 151 |
| e) | Corridors | 70 | 915 |
| f) | Libraries | 300 | 93 |
| g) | Auditorium | | 81 |
| | I. Hall | 70 | |
| | II. Foyer | 70 | |
| | III. Stage area | 300 | |
| h) | Gymnasiums | 150 | 284 |
| j) | Cafeterias | 100 | 91 |
| K) | Staff rooms | 150 | 919 |

* Recommended illumination Levels and Glare index as per National Lighting Code 2010 [ETD 24: Illumination Engineering and Luminaries] Part 5 Section 3





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| Electrical Equipment's | |
|---|---|
| Details of electrical equipment, its energy | The organization uses energy-efficient |
| efficiency & practices | electrical equipment such as CFL bulbs. |
| efficiency & practices | electrical equipment such as CFL bulbs. |

ELECTRICITY CONSUMPTION

| Month | Electricity Consumption (Last 6 months) |
|-----------|---|
| May | 216 |
| June | 252 |
| July | 99 |
| August | 385 |
| September | 262 |
| October | 699 |





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Green Audit / Environmental Inspection



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| Current energy uses. | Energy Sources | Consumption (Unit) |
|--|---|--|
| | Electricity | 318 |
| | Fuel oil | Not available |
| Short-term energy efficiency goals & roadmap to achieve those goals. | efficiency goals: Use the 'OFF' sw mode of equipm Switch off lights when not in use. Utilize team of Energy Conserva college activities through process minds. Co-ordinate with concerned level practices among | s, heater and other equipment's Energy Club to spread awareness on tion and organize inter and intra to boost innovative thoughts of Energy Conservation in young a government departments of all and with other colleges, share |



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| Long-term energy efficiency goals & roadmap to achieve those goals. | The organization have established following long- term energy goals: Use of Motion sensors/ Times for lighting systems. Use of more solar plants on Rooftop of Girls hostel. The process is in the pipeline. Purchase of BLDC Fan whenever replacement of ceiling is required which consumes 50%. less energy as compared to conventional fans. Do maintenance of solar water heater systems at the earliest. Check for BEE star level before purchasing all kind of equipment. |
|---|---|
| | |

On-Site Energy Generation

(Details of renewable energy generation projects on organization's property for organization's use)

The institute have installed solar panel which generate energy as following:

- 1. Solar plant at arts block -28 kWp
- 2. Solar plant at boys hostel 5 kWp
- 3. Solar plant at library & science block -11 kWp

These installations not only underscore the institution's commitment to reducing its carbon footprint but also contribute significantly to the overall green energy landscape. Harnessing solar power across various campus facilities demonstrates a proactive approach in fostering environmental responsibility and sustainable energy solutions.

Related records / images

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DRINKING WATER

Drinking Water Quality

(As per IS 10500: 2012)

No records of drinking water quality test conducted by the institute.

Water pH level is measure by CDG inspection at the time of audit. The pH of the water measured during the inspection is 6.7 which is safe for use.

Reference pic/doc no.

Related records / images



pH Test

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WASTE MANAGEMENT

Type of waste - Plastic waste

Approximate annual quantity- 30 Kg (approx.)

Source of waste - Packet food,

Handling methods: Segregate different type of waste

Measures to reduce the waste quantity- Using less plastics, Type of waste – Paper waste

Approximate annual quantity- 500 Kg (approx.)

Source of waste – paper cup & plates

Handling methods- Handling to Municipal for recycling

Measures to reduce the waste quantity- Emphasis on the online/electronic communication.

Type of waste – Electronic waste

Approximate annual quantity- 10 Kg (approx.)

Source of waste - Computer and parts of computer

Handling methods- Handle by municipal cooperation

Measures to reduce the waste quantity- Organization use inbuild UPS System Type of waste – Hazardous waste

Approximate annual quantity- 5 Liter (approx.)

Source of waste – Chemical laborites

Handling methods- Waste pit, Soak pit

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| Green Audit / Environmental Inspection | | |
|---|--|--|
| Measures to reduce the waste quantity- Organization conduct group practical | | |
| | | |
| | | |
| Type of waste – Garden waste | | |
| | | |
| Approximate annual quantity- 100 Kg (approx.) | | |
| Source of worth Trac grades | | |
| Source of waste – Tree, grasses | | |
| | | |
| Handling methods- Vermicompost | | |
| | | |
| | | |
| Measures to reduce the waste quantity- Weeds are dispose at young age. | | |
| | | |
| | | |
| Type of waste – Food waste | | |
| Type of waste – rood waste | | |
| Approximate annual quantity- 150 Kg (approx.) | | |
| | | |
| Source of waste – Canteen, Hospital. | | |
| | | |
| | | |
| Handling methods- Vermicompost, feeding to cows. | | |
| Measures to reduce the waste quantity- | | |
| Providing awareness through slogan and posters. | | |
| • Fromuling awareness through slogan and posters. | | |
| Observations: | | |
| 1. There are no records found for hazardous waste, Plastic waste, electronics waste | | |
| management. | | |
| | | |
| | | |
| | | |

COMPOSTING PLANT

| How much organic waste is generated in a day? What type of organic waste is generated? | 2 Kg/day organic waste is generated in a day. The type of organic waste generated are paper, branches, grass, and food. |
|---|---|
| Details & capacity of compost plan installed in the organization. | No, record found at the time of audit. |

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| Details of composting method used | Vermicompost is the composting method used by the institute |
|--|---|
| Compost facility maintenance & inspection plan | No, record found at the time of audit. |
| Vermicompost Pit | |

Identified Nonconformities

1. The organization's compost plant lacks comprehensive details and capacity information, hindering effective planning and management and also the organization has not established a structured maintenance and inspection plan for the compost facility, posing a risk to its efficient and sustainable operation.

RAINWATER HARVESTING

| Provide details of the rainwater harvesting facility. | No, record found at the time of audit. |
|---|--|
| Rainwater harvesting system maintenance plan | No, record found at the time of audit. |

Identified Nonconformities

1. The organization's rainwater harvesting facility lacks comprehensive details, impeding effective understanding and management of the system. Objective Evidence: Absence of documented information such as system specifications, capacity, design parameters, and other relevant details for the rainwater harvesting facility and the organization has not established a structured maintenance plan for the rainwater harvesting system, posing a risk to its optimal functionality and sustainability.

Training

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| Has the organization provided waste management/handling training to concerned employees. Give details. | No, record found at the time of audit. |
|--|---|
| Has the organization provided training for energy saving? | No, record found at the time of audit. |
| Has the organization conducted training for solid waste management? | No, record found at the time of audit. |
| Has the organization conducted awareness training for water saving? | Yes, the institute has conducted awareness training for water saving. Reference doc/pic no.: - I1 |

Related records/Image



- 1. The organization does not maintain any record regarding waste management/handling, energy saving and solid waste management training program.
- 2. The organization does not provide training for energy saving.
- 3. The organization does not conduct training fpr solid waste management.

| Environmental Practices | |
|-------------------------|--|
| Waste recycling | Yes, the institute practice paper waste recycling, garden waste is decomposed and used as a fertilizer for plant and tree. |
| Waste Decomposition | Yes, the institute have installed vermicompost. |



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| in the campus. Environmentally Preferable Purchasing (EPP) or Green Purchasing Distinct receptacles for trash and recycling Low-emission transportation maximum use of clean energy Preference to electronics over the paper Preference to electronics over the paper Campus garden Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Prestruction Distruction Prestruction | | onmental inspection |
|--|--|--|
| or Green Purchasingconservation, different color of dustbin for segregation of waste in EPP.Distinct receptacles for trash and recyclingThe organization kept a different color dustbin in different place to separate wet waste and dry waste, thus become easy to segregate and recycle. Reference doc/pic no.: - J1Low-emission transportationNo records found at the time of audit.maximum use of clean energyYes, Organization also have installed solar panel.Preference to electronics over the paperPreference to electronics over the paper is 60 percent.Campus gardenYes, there is a campus garden. | Rainwater harvesting | |
| or Green Purchasingconservation, different color of dustbin for segregation of waste in EPP.Distinct receptacles for trash and recyclingThe organization kept a different color dustbin in different place to separate wet waste and dry waste, thus become easy to segregate and recycle. Reference doc/pic no.: - J1Low-emission transportationNo records found at the time of audit.maximum use of clean energyYes, Organization also have installed solar panel.Preference to electronics over the paperPreference to electronics over the paper is 60 percent.Campus gardenYes, there is a campus garden. | Environmentally Preferable Purchasing (EPP) | The organization use LED bulbs for energy |
| segregation of waste in EPP. Distinct receptacles for trash and recycling The organization kept a different color dustbin in different place to separate wet waste and dry waste, thus become easy to segregate and recycle. Reference doc/pic no.: - 11 Low-emission transportation No records found at the time of audit. maximum use of clean energy Yes, Organization also have installed solar panel. Preference to electronics over the paper Preference to electronics over the paper is 60 percent. Campus garden Yes, there is a campus garden. | | |
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| Campus garden Yes, there is a campus garden. | Preference to electronics over the paper | Preference to electronics over the paper is 60 |
| Campus garden Yes, there is a campus garden. | | |
| सिंध सिंध < | | percent. |
| सूखा कचरा कचरा कचरा | Campus garden | Yes, there is a campus garden. |
| J1- Dustbins for wet and dry waste | सूखा कचरा गीला | |
| • | J1- Dustbins for wet and dry waste | |

Environmental Initiatives / Green Initiatives

The organization has undertaken several commendable environmental initiatives, showcasing a strong commitment to sustainability. The NSS-Swatch Abhiyan promotes cleanliness, encouraging a cleaner environment. The Green Campus initiative focuses on creating an eco-friendly atmosphere, integrating sustainable practices into daily operations. Waste segregation is actively

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practiced, minimizing environmental impact through responsible disposal. Additionally, the organization conducts awareness programs, educating teacher and staff about the importance of environmental preservation. These initiatives collectively contribute to a holistic approach, fostering a greener, more sustainable future.



Name of auditor: Ashutosh Tiwari

Signature:

Ashutosh tiwar

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