

| CIL Ref. No.: | 1/4002076 |
|-----------------------|--|
| Name of organization: | KASHI INSTITUTE OF TECHNOLOGY |
| Address of premises: | MS-23, VARANASI-PRAYAGRAJ HIGHWAY, MIRZAMURAD, VARANASI |
| Name of Inspector: | Mr. Ashutosh Tiwari |
| Date of Inspection: | 4/03/2023 |
| Type of Inspection: | Green Audit |

| Organization Details | | | | | |
|----------------------------|---------------|--|--|--|--|
| | 11 Acres | | | | |
| Total Campus Area | | | | | |
| | 18637 sq.mtr. | | | | |
| Total Built-up Area | | | | | |
| | 6200 sq.mtr. | | | | |
| Covered Parking | | | | | |
| | 9637 sq.mtr. | | | | |
| Total Air-Conditioned Area | | | | | |
| Non-Airconditioned Area | 9000 sq.mtr. | | | | |
| | | | | | |
| Cross Floor Area | - | | | | |
| Forest / Planted Area | 5000 sq.mtr. | | | | |
| | | | | | |
| Age of the building | 14 Years | | | | |

DETAILS OF INFRASTRUCTURE

| Classrooms | 39 |
|-----------------------------|----|
| Laboratory | 61 |
| Library | 1 |
| Seminar hall and auditorium | 5 |
| Sports room | 1 |



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| Gymnasium | 1 |
|--------------------------------|---|
| Staff and student parking area | 2 |
| Canteen | 1 |
| Playground | 2 |
| Computer Lab | 4 |

LIST OF BUILDINGS

| Name of Building | Number of Floors | Area (m2) |
|------------------------|-------------------|-----------|
| CRC Building | 04 + Ground Floor | 2281 |
| Block-A | 04 + Ground Floor | 6746 |
| Block-B | 04 + Ground Floor | 5916 |
| Block-D | 04 + Ground Floor | 5601.6 |
| Library & Computer Lab | 04 + Ground Floor | 2124.84 |
| Canteen | 02 + Ground Floor | 1109.62 |
| Boy's Hostel | 04 + Ground Floor | 2426.4 |
| Girl's Hostel | 04 + Ground Floor | 3013.75 |
| Auditorium | 01 + Ground Floor | 1000 |

DEPARTMENTS

| 1 | Department of Mechanical Engineering |
|---|--|
| 2 | Department of Civil Engineering |
| 3 | Department of Electrical & Electronic Engineering |
| 4 | Department of Electronic & Communication Engineering |
| 5 | Department of Computer Science Engineering |
| 6 | Department of Biotechnology |
| 7 | Department of AIML |
| 8 | Department of MBA |
| 9 | Department of MCA |

DETAILS OF STUDENTS AND STAFF

| Total Number of Students | 727 (2021-2022) |
|--------------------------|-----------------|
| Teaching Staff | 102 |
| Technical Staff | 12 |
| Non-Technical Staff | 85 |

GREEN AUDIT PARTICIPANTS

| Name | Designation | | | | |
|------------------------|---------------------|--|--|--|--|
| Dr. A.K Yadav | Professor | | | | |
| Dr. D.M Srivastava | Professor | | | | |
| Dr. Rupesh Kumar Singh | Assistant Professor | | | | |
| Dr. Kumar Sonu | Assistant Professor | | | | |



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| Mr. Vikas Barnwal | Assistant Professor |
|-----------------------|---------------------|
| Dr. Ravi Ranjan Singh | Associate Professor |

LEGAL COMPLIANCES

| Description | Registration Details |
|------------------------------------|----------------------|
| Consent to operate (CTO) from SPCB | NA |
| Fire NOC | Yes |
| Water Boring permission | No |
| DG Set Permission | Yes |

About Organization

Kashi Institute of Technology (KIT) got its existence in 2008 with the vibrant vision of Jain Education Society to give an outstanding ambience of technical education in the entire Uttar Pradesh and especially in Purvanchal, it is approved by All India Council of Technical Education (AICTE) and is affiliated to Dr. A.P.J. Abdul Kalam Technical University (AKTU) Lucknow (formerly U.P.T.U Lucknow).

KIT is maintaining its leading position amongst all private engineering Institutes in Eastern Uttar Pradesh. It is run by a team of visionary and motivated IIT Alumni with the strong dedication to provide best technical education and world class qualitative environment to the students of Uttar Pradesh.

Kashi Institute of Technology (KIT) is one the top most Engineering colleges in Varanasi providing technical education in seven different domains of high need at graduation level like Computer Science and Engineering, Artificial Intelligence, Machine Learning, Bio-Technology, Information Technology, Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering and Electronics & Communication Engineering. In post graduate program KIT is providing Masters of Business Administration (MBA) with the high integrative approach of Industry and Academia.

Kashi IT is having excellent placement records with students getting placed in top IT companies such as Infosys, TCS, Wipro, Cap Gemini and HCL Technologies and many more. Recently students are placed in ByJus at an annual package of Rs. 10 lakhs making it as one of the best private Institute in Uttar Pradesh.

Vision

To empower young generations for substantial contribution to economical, technological & social progress of the society worldwide.

Mission



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To contribute to the development of human resources in the form of professional leaders of the global cadre.

To develop the holistic personality of the learners.

To make this institute a Leading Center of Research.

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE



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CLIMATIC PARAMETERS

1. Climate: The wet season is oppressive and partly cloudy, the dry season is mostly clear, and it is hot year round. Over the course of the year, the temperature typically varies from 48°F to 104°F and is rarely below 42°F or above 111°F.

Based on the beach/pool score, the best times of year to visit Varansi for hot-weather activities are from late March to mid May and for the entire month of October.

2. Rainfall: To show variation within the months and not just the monthly totals, we show the rainfall accumulated over a sliding 31-day period centered around each day of the year. Varansi experiences extreme seasonal variation in monthly rainfall.

The rainy period of the year lasts for 9.4 months, from January 17 to October 31, with a sliding 31-day rainfall of at least 0.5 inches. The month with the most rain in Varansi is July, with an average rainfall of 7.8 inches.

The rainless period of the year lasts for 2.6 months, from October 31 to January 17. The month with the least rain in Varansi is November, with an average rainfall of 0.2 inches.

3. Temperature: The hot season lasts for 2.7 months, from April 8 to June 28, with an average daily high temperature above 97°F. The hottest month of the year in Varansi is June, with an average high of 101°F and low of 82°F.

The cool season lasts for 2.1 months, from December 8 to February 10, with an average daily high temperature below 77°F. The coldest month of the year in Varansi is January, with an average low of 48°F and high of 71°F.



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| | Cimate | data for | Kanpur | Airport (| 1961-201 | 0, extrer | nes 1905 | -2906) | | | | | (PADH) |
|--|---------------|----------------|-----------------|-----------------|-----------------|------------------|---------------|-----------------|------------------|--------------------|----------------|---------------|-----------------|
| Month | Jan | Feb | Mar | Apr | May | Jun | 201 | Aug | Sep | Oct | Nov | Dec | Year |
| Record high "C ("P) | 111 | 19.11 | 42.8 (180.0) | 451 (114.1) | 47.2 (117.0) | -47.5 (117.1) | 45.0 | 40.0 (105 f) | 40.0 | 40.0 | 107.01 | 21 1 | 47.3 |
| Average high *C (*F) | 223 (72.1) | 21 A (71.7) | 328 | 3839 (100-4) | 3918 (10310) | 38.0 (102.2) | 118 | 30 T (010) | 33 I. | 32.8 (\$\$\$\$) | 35.6 | 244 (25 H) | 21.5 (00.4) |
| Average low *C (*P) | 8.2 | 11.6 | 15.6 (60.1) | 21.1 (70.1) | 26.1 177.31 | 27.2 | 28.4 178.5 | 25.1 | 24.8 (26.6) | 19-0 (66.2) | 12.8 (55.0) | 8.7 (47.7) | 15 E (16 E) |
| Record law °C (°F) | 1.6 (34.9) | 0.6 | 7.2 (45.8) | 11.1 (52.1) | 164 (61.5) | 20.6 (89.1) | 217 | 21.7 | 11.8 (53.2) | 4.6 (40.3) | 0.5 (32.9) | -0.9 | -0.9 (30.4) |
| Average rainfall mm (inches) | 9.2 | \$2 (9.36) | 2.9 (0.11) | 2.7 | 8.2 | 81.8 (2.43) | 145.2 | 1912 (7.5%) | .138.4 (5.44) | 33.9 (1.33) | 3.4 (0.13) | 2.1 | 845.5 (25.52 |
| Average rainy days | 0.8 | 6.8 | 0.4 | 0.3 | 8.0 | 2.9 | 9.6 | | 61 | 14 | 03 | +2 | 32.6 |
| Average relative burnldity (%) (at 17:58 H3T) | 59 | 48 | | 27 | 31 | - 45 | 74 | m | n | 97 | 62 | 62 | 54 |
| | | 8 | ource in | Sa Mateo | -sogeral C | Apartmen | to but | | | | 6 A | | |

Average Monthly Climate of Varansi

Average Monthly Rainfall of Varansi





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Average Monthly Temperature of Varanasi

BIO-DIVERSITY

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

| 1. | Common name | Botanical name | Quantity planted |
|-----|----------------|--------------------------|------------------|
| 2. | Money plant | Epipremnum aureum | 30 |
| 3. | Karotan | Codiaeum variegatum | 10 |
| 4. | Laal Karotan | Codiaeum variegatum | 10 |
| 5. | China Palm | Livistona chinensis | 15 |
| 6. | Lalin | Calotropis procera | 10 |
| 7. | Bulb | Dioscorea bulbifera | 20 |
| 8. | Lily | Lilium | 40 |
| 9. | Laal saag | Amaranthus dubius | 30 |
| 10. | Candula | Calendula officinalis | 15 |
| 11. | Begum Baheliya | Bougainvillea glabra | 30 |
| 12. | Laaltena | <u>Cytisus scoparius</u> | 30 |
| 13. | Kasmas | Schleichera oleosa | 4 |
| 14. | Keshantiya | Prosopis cineraria | 10 |



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| 15. | Petuniva | Petunia xatkinsiana | 20 |
|-----|--------------------|----------------------------------|-----------|
| 16 | | Chrysanthemum | |
| | Guldawari | morifolium | 40 |
| 17. | | Chrysanthemum | |
| | Guldawari Hybrid | morifolium | 10 |
| 18 | Genda | Tagetes | 50 |
| 10. | Inka Genda | Tagetes erecta | 40 |
| 20 | Kochia | Kochia sconaria | 2 |
| 20. | Zod | Crassula ovata | 10 |
| 21. | Spongi | | 5 |
| 22. | Paan Patta | Piper hetel | 30 |
| 23. | SuraiMukhi | Helianthus annuus | 10 |
| 24. | | Antirchinum maius | 7 |
| 25. | | Antiminian majas | 10 |
| 20. | nattar churn | Bryonhyllum pinnatum | 10 |
| 27. | | Molia azodarach | 10 |
| 20. | Flask Boot ropi | | 10 E |
| 29. | Mannatta | | 3 |
| 30. | Nann patta | Morinda coreia | 4 |
| 31. | Pandan | Panaanus amaryiiifoilus | 40 |
| 32. | | Ficus Repens | 1000 |
| 33. | MadhuMalti | <u>Combretum indicum</u> | 5 |
| 34. | Juhi | Jasminum auriculatum | 4 |
| 35. | | Palyalthia longifolia var. | 70 |
| | Ashok pandula | pendula | 72 |
| 36. | Ashok pandubbi | Saraca asoca | 8 |
| 37. | Ficus | Ficus benjamina | 20 |
| 38. | | Tabernaemontana | CO |
| | Chandhi | aivaricata | 60 |
| 39. | Lantana | Lantana camara | 250 |
| 40. | Bottle palm | Hyophorbe lagenicaulis | 60 |
| 41. | Erika palm | Dypsis lutescens | 30 |
| 42. | Manokamini | Murraya paniculata | 800 |
| 43. | Duranta | Duranta erecta | 1000 |
| 44. | Tapori | Kajorina tapori | 4 |
| 45. | Morpankhi | Platycladus orientalis | 15 |
| 46. | China Morpankhi | Thuja orientalis | 8 |
| 47. | Sonam champa | Magnolia champaca | 30 |
| 48. | Bougainvillea | Bougainvillea spectabilis | 30 |
| 49. | Narangi | Citrus reticulata | 100 |
| 50. | Gulchin | Plumeria rubra L | 15 |
| 51. | Chameli | Jasminum officinale | 1 |
| 52 | | | |
| JE. | Gulmoh r | Delonix regia | 4 |
| 53. | Gulmoh r Sagwan | Delonix regia Tectona grandis | 4 50 |



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| 55. | Desi gulab | Rosa moschata | 25 |
|-----|-----------------|--------------------------|-----|
| 56. | English gulab | Rosa rubiginosa | 5 |
| 57. | Chitwan | Alstonia scholaris | 5 |
| 58. | Amaltas | Cassia fistula | 4 |
| 59. | Kaner | Cascabela thevetia | 2 |
| 60. | Neelkamal | Nymphaea nouchali | 30 |
| 61. | Gandhraj | Gardenia jasminoides | 3 |
| 62. | Gudhal | Hibiscus rosa-sinensis | 10 |
| 63. | Parijat | Nyctanthes arbor-tristis | 5 |
| 64. | Song of India | Dracaena reflexa | 20 |
| 65. | Lily | Lilium | 100 |
| 66. | Coleus | Coleus scutellarioides | 50 |
| 67. | Chipkali bel | Ficus repens | 100 |
| 68. | Madhumalti | Combretum indicum | 5 |
| 69. | Bela | Jasminum sambac | 25 |
| 70. | Bel | Aegle marmelos | 1 |
| 71. | Rudraksh | Elaeocarpus ganitrus | 1 |
| 72. | Jal me ka kamal | Nelumbo nucifera | 10 |
| 73. | Indonesia | Jasminum sambac | 8 |
| 74. | Juhi | Jasminum auriculatum | 4 |
| 75. | China palm | Livistona chinensis | 25 |
| 76. | Kathal | Artocarpus heterophyllus | 1 |
| 77. | Snake | Dracaena trifasciata | 100 |
| 78. | Musanda | Mussaenda erythrophylla | 1 |
| 79. | Litchi | Litchi chinensis | 1 |
| 80. | Amla | Phyllanthus emblica | 1 |
| 81. | Aam | Mangifera indica | 6 |
| 82. | Aloevera | Aloe barbadensis miller | 4 |
| 83. | Kela | Musa paradisiaca L. | 7 |
| 84. | Kadi patta | Murraya koenigii | 4 |
| 85. | Jungle neem | Azadirachta indica | 2 |
| 86. | Raatrani | Cestrum nocturnum | 4 |
| 87. | Jamun | Syzygium cumini L. | 5 |

Reference images:



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List of birds and animals

| S. No. | Zoological Name | Common Name |
|--------|------------------------|-------------|
| 1. | Canis lupus familiaris | Dog |
| 2. | Felis catus | Cat |
| 3. | Oryctolagus cuniculus | Rabbit |
| 4. | Columba livia | Pigeon |
| 5. | Passeridae | Sparrow |
| 6. | Corvus | Crow |
| 7. | Pavo cristatus | Peacock |
| 8. | Strigiformes | Owl |

List of Butterflies found in and around the campus

| S. No. | Zoological Name | Common Name |
|--------|----------------------------|-------------------|
| 1. | Blue Pensy Junonia Orithya | Blue Pensy |
| 2. | Tirumala Limniace | Blue Tiger |
| 3. | Azanus-ubaldus | Bright Babul Blue |
| 4. | Hasora-chromus | Common Banded Awl |

List of Reptiles found in and around the campus

| S. No. | Zoological Name | Common Name |
|--------|-----------------|-------------|
| 1. | Chamaeleonidae | Chameleons |
| 2. | Serpentes | Snake |



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| 3. | Lacertilia | Lizard |
|----|--------------|--------|
| 4. | Rana tigrina | Frog |

Reference images:





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LEGEAL REQUIREMENTS

| Description | Registration Details |
|------------------------------------|-------------------------------|
| Consent to operate (CTO) from SPCB | No |
| Fire NOC | Yes. Reference doc/pic no. A1 |
| Water Boring permission | No |
| DG Set Permission | Yes. Reference doc/pic no. A2 |





| Sector 4.0 (sector 5.0) Sector 4.0 (sector 5.0) Sector 5.0) | Regin space Relation and the space residences and the space r |
|---|--|
| Market and the set of the second sector of the field of the sector of the sector and the field of the sector and the field of the sector of | Angle and a diverse in the rest of later have the set the set the set the set |
| | Sile Antoine A |
| A1: Fire NOC | A2: DG Set Permission |

GENERAL

| General Requirements: Environmental Policies / Environmental Objectives, etc | | |
|--|--|--|
| Is there an environmental policy? Is it publicly communicated? | No, there is no defined environmental policy implemented by the institute. | |
| Is there a defined waste management policy in the organization? | Yes, there is defined waste management policy in the institute. Reference doc/pic no.: A3 | |
| Are there any quantifiable environmental objectives decided by the organization? | There is no defined quantifiable environmental objectives decided by the organization. | |
| 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 organisation is aware of all environmental laws pertaining to different aspects of the organization's activities. | |
| Does the organization have any Recognition/certification for the environment friendliness? Provide details. | No related record found. | |



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| Has the organization established any committee to decide, implement & monitor environmental initiatives? | Yes. Institute has established a Green committee to decide, implement & monitor environmental initiatives. Reference doc/pic no.: A4 |
|---|---|
| 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, institution never received any notice/warning from the pollution control board or any other concerned environmental authorities. |
| Related images / documents | |
| <image/> <section-header><image/><text><text><text><text><text><list-item><list-item><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></list-item></list-item></text></text></text></text></text></section-header> | <image/> <section-header><image/><image/><image/><image/><text><text><text><text><text></text></text></text></text></text></section-header> |
| A3: Waste Management Policy | A4: Green Committee |

Observations:

- 1. There should be a defined/written environmental policy & quantifiable environmental objectives decided by the institute.
- 2. It is recommended that the institute be aware of all environmental laws pertaining to different aspects of the organization's activities.

POLLUTION

Air Pollution Management

(objective, practices / methods to minimize air pollution)



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Green Audit Report

| Identify the major sources of air pollution within the organization & the actions taken to either eliminate or minimize the pollution. | The air conditioning system is a major source of air pollution in the college. Air conditioning units consume a lot of energy, creating pollution in the form of greenhouse gas emissions. These greenhouse gases lead to global warming. To save energy, 3-star air conditioners are all installed in the classrooms and are ensured to be turned off when there are no classes. Reference doc/pic no.: B1 Following are some other remedial measures adopted by the campus to minimise air pollution: Plush Gardens Plantation in & around campus Water sprinklers to suppress the dust Reference doc/pic no.:- B5 & B6 |
|---|---|
| HVAC maintenance and calibration records, | The institute maintains the maintenance and testing |
| testing and balancing reports | records of its air conditioning units |
| When was the duct system tested for | |
| leakage last? | Reference doc/nic no :- B2 |
| | |
| DC set stack omission test as per CBCP | The institute bas a DC set as a newer backup that is |
| norms | used whenever there is a newer sut off due to lead |
| nomis. | abading or maintenance of electricity on the college |
| | shading or maintenance of electricity on the college |
| | campus. DG Set Capacity IS 125 KVA. |
| | DC Sat Air Ballutian Loval TVOC and Naira Ballutian |
| | Charles were conducted by CDC Inspectice. Ltd. at the |
| | 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: 21 |
| | $PM2.5 - 54ug/m^3$ |
| | DG Set Noise Pollution Level: 77.8 dBA |
| | Reference doc/pic no.:- B3. B4 |
| Related documents / images | |



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Observations:

1. It is recommended that the institute conduct DG set stack emission tests in accordance with CPCB standards.

| 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 tests to check indoor air quality. Indoor 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: 11 PM2.5–29 Reference doc/pic no.: C1 |
| Is there a proper system of exhaust of indoor air? | Every classroom, staff room, corridor, etc. comprises windows for proper ventilation. The staff room, library, and IT lab in the campus all have ventilation systems. |



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| Gieeli | Addit Report |
|---|--|
| | The indoor air flow rate was checked at the time of the audit, and the outcome was 0.2 m/s. Reference doc/pic no.: C2 |
| 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? Are less or nonhazardous materials used when possible? Does the organization have a defined system to evaluate & find out safer alternatives? | No 'Material Safety Data Sheets (MSDS)' available for different types of supplies. Yes, storage areas are separate, and those storage areas have enough ventilation. Yes, the campus is plastic- and chemical-free. The institute follows guidelines of IQAC as per GGSIPU/UGC Guide-lines. |
| Is there a defined procedure available for disposal of used substances? | There is a defined procedure available for disposal of used substances. The institute has provided training on Disposal of used Substances to its employees. Reference doc/pic no.:- C3 & C4 |
| General Cleanliness: | |
| Are rooms dusted and vacuumed thoroughly and regularly? What are related checks & controls? Does the organization ensure to use of environment-friendly, non-scented cleaning products? | Yes, the class rooms, library, staff room, and other areas were found to be clean and tidy at the time of the audit. No related record found at the time of audit. |
| Pest control methods & products used (check & control). | As per Green Committee meeting on 1 st September 2021, institute decide to stop the use of pesticides in the campus green area for control of chemical effect in the soil and environment. Reference doc/pic no.: C5 |
| Does the organization ensure use of low emitting paints, coatings, furniture etc.? What are related checks & controls? | Yes, institute ensure use of low emitting paints which are available in market. Reference doc/pic no.: C6 |
| Is there any sign of mold infestation? | No sign of mold infestation in the institute. |
| Does the organization eliminate any bird or animal nests or droppings near outdoor air intakes? | No, the organisation doesn't harm any animal or bird nests. |



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| What are the methods adopted by the | The methods adopted by the institute to |
|--------------------------------------|--|
| organization to control/prevent dust | control/prevent dust within the buildings are as |
| within the buildings? | TOHOWS: |
| | There are large, continuous trees all around the campus. Glass building Water sprinklers |
| | Reference doc/pic no.:C7, C8, C9 & C10 |

Related records / images 0.000 0.000 029 ARCE/S C1: Indoor Air Quality Level C2: Indoor Air Flow Rate KASHI INSTITUTE OF TECHNOLOGY Record 19, 1494 DORATER DODCTY Control District Control Distribution Control Distributica Control Distribution Control Distribution Contr 13 ine where Circular on Disposal (Eco-frinnily products) Policy His is unrefere of Nextry Resolution, and and indexes that, for following rules all its followed for proor and concentrationed which is decided to obspin time. Consider: Providepresent of the antibotic an comparating obtained as per the particular entropy and the interpretation of the description the format in which we do not a state of the parallel of the suffice memory Reista Data statistic



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Observations:

• Institute should ensure to use of environment-friendly, non-scented cleaning products.

WATER POLLUTION

| Water Pollution Management (objective, practices / methods to minimize water pollution) | | | | |
|---|--|--|--|--|
| | , | | | |
| Source of water pollution within the premises. | Water pollution results when contaminants mix with the water bodies. Contaminants can come from one sewage discharges as there is no effluent treatment plant in premises or the chemistry lab discharges. The main source of water in the organization is water bore wells available in the campus. | | | |
| Measures taken to prevent / stop water wastage. | Waste water is used to clean and irrigate gardens, plants, and trees, among other things. To reduce water waste, campus employees and students carry refillable water bottles. | | | |
| Does the institute harvest rainwater? Give details. | Yes, the institute harvests rainwater. Rainwater harvesting system is installed by the campus. Reference doc/pic no.:- C11 | | | |



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| Is there any water recycling system? Give | No related record found at the time of audit. |
|--|---|
| details. | |
| Is there any effluent treatment plant in | Not Available |
| premises? No. of outlets for discharge of | |
| effluent? | |
| What is the quality of effluent in KLD? | NA |
| Whether operating STP/ETP satisfactorily? | NA |
| Whether provided flow meters on outlet & inlet of FTP/STP? | NA |
| Whether provided separate electricity meter | NA |
| on ETP/STP? | |
| Whether maintained Logbook for | NA |
| consumption of Electricity/ | |
| Chemicals/Quantity of effluent? | |
| Detail of land in case effluent is discharged | NA |
| for percolation/ irrigation purpose with | |
| justification for its 100% utilization. | |
| Status of ZLD (Zero Liquid Discharge) as per | NA |
| СРСВ | |
| Locate the point of entry of water and | There is closed sewer outside the campus. |
| point of exit of waste water in the | |
| organisation. | |
| | |

Related records / images



C11: Rainwater Harvesting System



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Observations:

- 1. There is should be a systematic procedure for water recycling on campus.
- 2. It is recommended to have STP or Effluent Treatment Plant in the institute to prevent contaminants from mixing with the water bodies.

| Water Consumption & Water Efficiency | | | | |
|--|---|--|--|--|
| Use of water (indoor and outdoor water) & practices related to efficient /reduced use of water.) | | | | |
| Sources of water supply | The main source of water in the organization is water bore wells available in the campus. | | | |
| Number of water storage tanks and their | Number of water storage tanks:10 | | | |
| storage capacity. Total water storage | Storage capacity: 5000 Liters each | | | |
| capacity. | Total water storage capacity: | | | |
| | 10 x 5000 = 50,000 Litres | | | |
| Water used in irrigation | Data not available | | | |
| Water used in cleaning | Data not available | | | |

Observations:

1. Institute should maintain record or log book total water consumption per day and how much water used for irrigation and cleaning purposes.

| Description | Requirement* | Actual consumption | | |
|--|---|-------------------------|--|--|
| Water consumption per head /day | Without boarding facility: 45 liter per head / day | 45 liter per head / day | | |
| *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) | | | Education | al Institute | s (Residentia | I) | |
|---------------|--|--------|--|-----------|--|---------------|---|--------|
| | Boys | | Girls | | Boys | | Girls | |
| | Req.* | Actual | Req. * | Actual | Req. * | Actual | Req. | Actual |
| Water closets | 1 per 40 pupils or part thereof | 15 | 1 per 25 pupils or part thereof | 7 | 1 for every 8 pupils or part thereof | 170 | 1 for every 6 pupils or part thereof | 80 |



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| Green Audit Report | | | | | | | | |
|--|---|-------------|---|---|---|---------------|--|-----|
| Ablution taps | 1 in each water closet | - | 1 in each water closet | - | 1 in each water closet | Combine 10 | 1 in each water closet | nil |
| Urinals | 1 per 20 pupils | 26 | - | - | 1 for every 25 pupils or part thereof | 94 | - | 56 |
| Wash basins | 1 per 60 pupils, Min 2 | 10 | 1 per 40 pupils, Min 2 | 8 | 1 for every 8 pupils or part thereof | 126 | 1 for every 6 pupils or part thereof | 67 |
| Bath | - | - | - | - | 1 for every 8 pupils or part thereof | 20 | 1 for every 6 pupils or part thereof | 40 |
| Drinking water fountains or taps | 1 for every 50 pupils or part thereof | 10 | 1 for every 50 pupils or part thereof | 5 | 1 for every 50 pupils or part thereof | 61 | 1 for every 50 pupils or part thereof | 32 |
| Cleaner's sinks | 1 p | er floor, m | inimum | | | | | |

*As per IS 1172:1993

NOISE POLLUTION

| Noise Pollution Management (objective, practices / methods to minimize noise pollution) | | | |
|---|-----------------|----------------------|--|
| Noise level in dB(A) Leq | Standard Level* | Actual Level | |
| Day Time | 50 | Max.65.8 Min.63.4 | |
| *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 | |
|---|---|
| Ensure that walls, floors, roofs, and windows are as energy efficient as possible. | The walls, floors, roofs, and windows of the institute are energy efficient. Glass is used as a building material for energy efficiency. Glass allows in a lot of natural light; it considerably reduces electricity consumption, thus doing away with the need for artificial lighting. To ensure a sustainable environment, the institute has "Green Campus" initiatives. Following those initiatives: • Ban on the use of Plastic • Restricted Entry of Automobiles • Landscaping with trees and plants • Pedestrian Friendly Pathways Reference doc/pic no.: D1&D2 |
| Design for good indoor air quality | Yes, every classroom, staff room, corridor, etc. comprises windows for proper ventilation. |



CIL-12 Issue 01 Rev 00

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| Use of natural daylight in building interiors as a source of ambient light. | Yes, there is use of natural daylight in building interiors as a source of ambient light. |
|--|---|
| Use of low emitting materials for building modifications, maintenance, and cleaning. | No related low-emitting materials for building modifications were found. |

Related Images:



Observations:

• Institute should ensure use of low emitting materials for building modifications, maintenance, and cleaning.

| Lighting | |
|---|---|
| Use of energy efficient lighting system (bulb & other products) | For energy efficiency, LED lights are used to illuminate the campus mostly. |
| | Reference doc/pic no.:-D3 & D4 |
| Use of natural day light | Yes, there is a use of natural daylight in every classroom, library, garden, and lab. |



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Related Images:



ILLUMINATION LEVELS AND GLARE INDEX

| Sr. No. | Area | Standard | Standard | Actual |
|---------|--------------------------|---------------------|--------------|--------------|
| | | Illumination (Lux)* | Glare Index* | Illumination |
| | | | | (Lux) |
| a) | Classrooms | 300 | 16 | 276 |
| b) | Lecture rooms (including | 300 | 16 | 117 |
| | demonstration areas) | | | |
| c) | Reading rooms | 150 to 300 | 19 | 178 |
| d) | Laboratories | | | |
| | (Chemical lab) | 300 | 16 | 305 |
| | (Mechanical lab) | | | 287 |
| e) | Corridors | 70 | - | 204 |
| f) | Libraries | 300 | 16 | 351 |
| g) | Auditorium | | | |
| | I. Hall | 70 | - | |
| | ll. Foyer | 70 | - | |
| | III. Stage area | 300 | 16 | |
| h) | Gymnasiums | 150 | - | 678 |
| j) | Cafeterias | 100 | - | - |
| К) | Staff rooms | 150 | - | 401 |

* 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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Related Images:





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| Electrical Equipment's | | | |
|---|----------------|--------|---|
| Details of electrical efficiency & practices | equipment, its | energy | Institute has taken measures to conserve electricity by installing a main switch outside each room including class rooms and faculty rooms. By turning off this switch we are able to turn off all the lights and fans in the room in one go. Although, there are separate switches to turn on and turn off lights and fans separately. |



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ELECTRICITY CONSUMPTION

| Month | Electricity Consumption (Last 6 months) |
|----------------|---|
| July 2022 | 101364 KWH |
| August 2022 | 49880 KWH |
| September 2022 | 79200 KWH |
| October 2022 | 57856 KWH |
| November 2022 | 26020 KWH |
| December 2022 | 21168 KWH |

Related Images:

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| Energy Efficiency (consumption, objective, practices / met | Energy Efficiency consumption, objective, practices / methods to achieve energy efficiency objectives) | | | | |
|---|---|----------------------|--|--|--|
| Current energy uses. | Energy Sources | Consumption (Unit) | | | |
| | Electricity | 19708 KWH (Jan 2023) | | | |



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| Short-term energy efficiency goals & roadmap to achieve those goals. | The institute short-term energy efficiency goals are as follows: Solar panel installation Natural Light The institute is installing solar panels in their buildings for energy efficiency and using natural daylight as an alternative to light bulbs. Reference doc/pic no.:- E1, E3 & E4 |
|--|--|
| Long-term energy efficiency goals & roadmap to achieve those goals. | For long term energy efficiency goals institute took initiative by implementing Energy conservation measures within the campus. Reference doc/pic no.:- E2 Institute also maintain logbook for solar plant reading to maintain electric efficiency in the campus. Reference doc/pic no.:- E5 |

On-Site Energy Generation

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

There is a rooftop Solar Power Plant in the institute of 215 KWH capacity .The Solar Plant is connected with Grid through net metering and extra Power generated is accounted in bills of Institute as per DVVNL, Tariff rules and regulations. The units generated in year 2021-22 are shown in table below:

| S.No. | MONTH | SOLAR GENERATION (KWH) | EXPORT TO GRID (SOLAR) (KWH) |
|-------|----------------|---------------------------|---------------------------------|
| 1. | June 2021 | 24180 | 10680 |
| 2. | July 2021 | 23302 | 3928 |
| 3. | August 2021 | 22447 | 4148 |
| 4. | September 2021 | 21875 | 1812 |
| 5. | October 2021 | 17111 | 2216 |
| 6. | November 2021 | 15970 | 4064 |
| 7. | December 2021 | 13221 | 4064 |
| 8. | January 2022 | 13402 | 552 |
| 9. | February 2022 | 21133 | 5284 |
| 10. | March 2022 | 23676 | 10072 |
| 11. | April 2022 | 23707 | 3876 |
| 12. | May 2022 | 26139 | 2472 |



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DRINKING WATER

Drinking Water Quality (As per IS 10500: 2012) The institute doesn't conducted any drinking water quality tests as per IS 10500:2012 standards. At the time of audit drinking water pH test was conducted by the CDG inspection Pvt. Ltd. And it can be considered fit for drinking purposes. Related records / images DH

Observations:

The institute should conduct drinking water quality tests as per IS 10500:2012 standards.



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WASTE MANAGEMENT

Type of waste - **Plastic waste** N/A (Campus is Plastic Free)

Type of waste - Paper waste

Approximate annual quantity- Approximately 400 KG annually

Source of waste - All departments, exam cell, registrar office, Admission Cell, Account Office

Handling methods- All waste paper handover to the vendors.

Measures to reduce the waste quantity- Institute taken initiative to reduce the paper waste by conducting some online exams in future and using electronic way of communication through mail and ERP system.

Type of waste – Electronic waste

Approximate annual quantity- Approximately 50 KG annually

Source of waste – From IT department or administration waste like keyboard, mouse, monitor etc.

Handling methods- Institute sell out all e-waste to the vendors.

Measures to reduce the waste quantity- Institute use the some components of e-waste in the student projects.

Type of waste – Hazardous waste

Approximate annual quantity- Not Applicable as there is no hazardous waste in the campus



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Source of waste - NA

Handling methods- NA

Measures to reduce the waste quantity- NA

Type of waste – Garden waste

Approximate annual quantity- Approximately 1800 KG annually

Source of waste – Garden Area, Trees, Plants, Grass, etc.

Handling methods- Dumping all garden waste in the dig area

Measures to reduce the waste quantity- Institute taken initiative by using garden waste as manure.

Type of waste - Food waste

Approximate annual quantity- Approximately 1800 KG annually

Source of waste – Canteen and mess

Handling methods- Institute sell all food waste to the vendor

Measures to reduce the waste quantity- Improving the food quality and quantity and conducting awareness program regularly.

Related Images:



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COMPOSTING PLANT

| How much organic waste is generated in a day? | Quantity of waste not provided by the institute. |
|---|--|
| What type of organic waste is generated? | Type of organic waste generated is Kitchen |
| | waste, food waste and garden waste. |



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| Details & capacity of compost plan installed in the organisation. | Not available |
|---|--|
| Details of composting method used | The biodegradable waste includes food items, vegetable and fruit peels, leaves, flowers, water, etc. Simple steps have been taken to manage this waste and reuse it for organic purposes. Food waste, kitchen waste, and garden waste are first segregated into compost bins. |
| Compost facility maintenance & inspection plan | Not available |

Observations:

It is recommended that the institute adopt a proper composition method for complete decomposition. The institute can install a decomposition machine on its campus for safe composting and sustainability.

RAINWATER HARVESTING

| Provide details of the rainwater harvesting | Yes, the institute harvests rainwater. Rainwater |
|--|--|
| | harvesting system is instance by the campus. |
| | Reference doc/pic no.:- F9 |
| Rainwater harvesting system maintenance plan | No related record found at the time of audit. |
| | |

Related Images:



F9: Rainwater Harvesting System



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Observations:

It is recommended that the institute should maintain Rainwater harvesting system maintenance record & plan

| Training | |
|--|--------------------------------------|
| Has the organization provided waste management/handling training to concerned employees. Give details. | Yes Reference doc /pic no.: G1 |
| Has the organization provided training for energy saving? | No related records were found. |
| Has the organization conducted training for solid waste management? | Yes Reference doc /pic no.:G2 |
| Has the organization conducted awareness training for water saving? | Yes Reference doc /pic no.: G3&G4 |

Related images:





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Green Audit ReportG1: Waste management training to concerned
employeesG2: solid waste management awareness
programImage: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"Image: Colspan="2"

| Environmental Practices | |
|--|---|
| Waste recycling | No related records were found |
| Waste Decomposition | Yes, separate composting pits are present in the campus for waste decomposition |
| Rainwater harvesting | Yes |
| Environmentally Preferable Purchasing (EPP) or Green Purchasing | Yes, replacement of FTL with LED Tube lights and star rated ACs |
| Distinct receptacles for trash and recycling | Yes |
| Low-emission transportation | Yes, all buses are used for college transportation are pollution under control Reference doc/pic no.: H7, H8, H9, H10 |
| maximum use of clean energy | Yes, Solar plant installed and LED lights and star rated ACs are used for energy efficiency Reference doc/pic no.: H1, H2, H5, H6 |
| Preference to electronics over the paper | Yes |
| Campus garden | Yes Reference doc/pic no.: H3 & H4 |



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Environmental Initiatives / Green Initiatives

- Poster presentation on "Save Tree & Water" for creating awareness among students and staff.
- The students of Kashi Institute of Technology, Varanasi have performed a nukkad natak to spread awareness about the harms of using plastic.
- Kashi Institute of Technology believes that the single use plastic should be completely



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banned in college premises.

- Institute restricted use of automobiles in the campus for green, clean and safe environment only pollution check control buses are implied by the institute.
- Plantation drive program done by the institute for grow more and more trees and created awareness among the people how plants are important for the survival of human being's life.

Related Images:



Poster Presentation for Save Trees Awareness Program



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Save Trees awareness program through rangoli and poster making program



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Green Belt/ Landscaping



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Name of Inspector

Ashutosh Tiwari

Name of Reviewer

Pooja Gairathi





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