

| CIL Ref. No.: | CIL/20242373 |
|-----------------------|---|
| Name of organization: | MEWAR UNIVERSITY |
| Address of premises: | NH - 48 Gangrar, Chittorgarh, Rajasthan-312901. |
| Name of Inspector: | Ashutosh Tiwari, Nilza Angmo |
| Date of Inspection: | 15 March 2024 & 16 March 2024 |
| Type of Inspection: | Green Audit |

| Organization Details | |
|----------------------------|------------------|
| Total Campus Area | 1306800 sq. ft. |
| Total Built-up Area | 803093 sq. ft. |
| Covered Parking | 4235 sq. ft. |
| Total Air-Conditioned Area | 32350 sq. ft. |
| Non-Airconditioned Area | 860147.1 sq. ft. |
| Cross Floor Area | 892497.1 sq. ft. |
| Forest / Planted Area | 530707 sq. ft. |
| Age of the building | 12 Years |

DETAILS OF INFRASTRUCTURE

| Classrooms | 75 |
|--------------------------------|----------------|
| Laboratory | 82 |
| Library | 03 |
| Seminar hall and auditorium | 05 |
| Sports room | 02 02 |
| Gymnasium | 01 |
| Staff and student parking area | 05 |
| Canteen | 01 |
| Playground | 04 |
| Green Area / Plantation | 503707 sq. ft. |

CIL-07-a



LIST OF BUILDINGS

| Name of Building | Number of Floors | Area (m²) |
|-----------------------------------|------------------|-----------|
| Administrative and Academic Block | 4 | 10,055.22 |
| Education Block | 5 | 1411.08 |
| Engineering Block | 3 | 2300.51 |
| Mewar Hospital | 4 | 1625.94 |
| Bhamashah Hostel | 4 | 1629.69 |
| Sanga Hostel | 5 | 1326.85 |
| Kumbha Hostel | 4 | 614.93 |
| Pratap Hostel | 4 | 543.69 |
| Panna dhai Hostel | 4 Insp | 441.53 |
| Meera Hostel | 4 | 390.27 |
| Guest House | 4 | 295.78 |
| Staff Quarter (1 BHK) | 4 | 367.6 |
| Staff Quarter | 4 | 353.84 |
| Annapurna Mess | 1 | 708.4 |

DEPARTMENTS

| 1 | Department of Commerce |
|----|---|
| 2 | Department of Management |
| 3 | Department of Computer Application |
| 4 | Department of Law |
| 5 | Department of Education |
| 6 | Department of Psychology |
| 7 | Department of Physical Education |
| 8 | Department of Chemical Engineering |
| 9 | Department of Civil Engineering |
| 10 | Department of Computer Science and Engineering |
| 11 | Department of Electronics and Communication Engineering |
| 12 | Department of Electrical Engineering |
| 13 | Department of Mechanical Engineering |
| 14 | Department of Mining Engineering |
| 15 | Department of Chemistry |
| 16 | Department of Life Science |
| 17 | Department of Mathematics |
| 18 | Department of Physics |
| 19 | Department of Economics |
| 20 | Department of Geography |
| 21 | Department of History |
| 22 | Department of Humanities |

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| 23 | Department of Political Science |
|----|---------------------------------|
| 24 | Department of Sociology |
| 25 | Department of Agriculture |
| 26 | Department of Paramedical |
| 27 | Department of Physiotherapy |
| 28 | Department of Pharmacy |
| 29 | Department of Astrology |
| 30 | Department of Yoga |

DETAILS OF STUDENTS AND STAFF

| Total Number of Students | 4805 | III HIOI |
|--------------------------|------|----------|
| Teaching Staff | 289 | Maper |
| Technical Staff | 33 | |
| Non-Technical Staff | 88 | -0 |
| Outsourced Staff | 46 | |

GREEN AUDIT PARTICIPANTS

| Name | Designation |
|-------------------------|---------------------|
| Dr. Y Sudarshan | Professor |
| Dr. Neelu Jain | Associate Professor |
| Dr. Deepak Mishra | Assistant Professor |
| Ms. Nirma kumari Sharma | Assistant Professor |

LEGAL COMPLIANCES

| Description | Registration Details |
|------------------------------------|----------------------|
| Consent to operate (CTO) from SPCB | Not available |
| Fire NOC | Not available |
| Water Boring permission | Not available |
| DG Set Permission | Not available |



About Organization

Mewar University is a multidisciplinary, self-financed university located in the village of Chogawari in Gangrar tehsil, situated in the historical city of Chittorgarh in southern Rajasthan. Chittorgarh is renowned for its rich cultural heritage and is home to several historical monuments, including the Chittorgarh Fort, designated as a UNESCO World Heritage Site.

Established in 2009 under the aegis of the Mewar Education Society, the university has emerged as a leading institution in the region. It offers a diverse array of undergraduate, postgraduate, and doctoral (research) programs across various disciplines such as Engineering, Pharmacy, Management, Agriculture, Law, Arts, and more. Mewar University comprises 11 faculties and 30 academic departments, providing a total of 38 undergraduate programs, 53 postgraduate programs, 2 postgraduate diploma programs, and 37 doctoral programs. All programs offered by the university are approved by regulatory bodies such as AICTE, PCI, BCI, NCTE, and others.

The University is committed to providing a quality teaching and learning environment facilitated by well-equipped infrastructure and qualified, experienced faculty members, with the overarching goal of enabling students to progress from "Knowledge to Wisdom". Its primary objective is to democratize higher education by making it accessible to rural communities, women, and marginalized populations.

Spanning across 30 acres, the university boasts a sprawling, verdant campus equipped with modern amenities and state-of-the-art infrastructure. Facilities include a well-stocked library, laboratories, sports facilities, an auditorium, hostels, a gym, playgrounds, a canteen, and a guest house. Mewar University is dedicated to enhancing students' skills through a range of value-added and skill development courses. Additionally, the university actively collaborates with industries and institutions through functional memoranda of understanding (MOUs) to facilitate training, internships, and exchanges for both faculty and students.

Despite being situated in an educationally and socially disadvantaged area of Rajasthan, the university offers students a distinctive chance to engage with the region's rich cultural and historical heritage. Moreover, it provides a serene and supportive atmosphere conducive to learning and personal development. In the current academic session, over 430 international students are enrolled, with more than 70% of students coming from reserved categories and over 60% hailing from outside Rajasthan.

The university also boasts well-established museums such as the Gandhi Museum and Mewar Museum, along with a 100-bed hospital located on the campus premises, further enhancing the educational and cultural experience for its students.

Vision:

Every organization embarks as a small group of committed individuals driven by a vision. Mewar University, since its inception, has been led by a dedicated team under the visionary guidance of its Chairman, Dr. Ashok Kumar Gadiya. Situated uniquely in the rural landscape

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of Chittorgarh, Rajasthan, the university has not only imparted education but also engaged in various extension activities for the benefit of its community.

The university's vision is to establish itself as a center of excellence for technical, professional, and vocational education and research, aligned with both national and international standards. This vision is pursued through the delivery of quality education that meets the evolving demands of industry and society. Additionally, the university fosters a culture of research and innovation, aimed at generating new knowledge and technologies.

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE



LAND USE DATA

| Categories of Land Use | Area (m²) |
|------------------------------|------------|
| Plantation area | 46795.911 |
| Builtup area (Includes Road) | 74609.781 |
| Total area | 121405.692 |

CLIMATIC PARAMETERS

1. Climate: The climate of Chittorgarh is quite dry and parched. The summer season extends from April to June and is quite hot. The average temperature in summers falls between 43.8°C to 23.8°C. The winter season lasts from October to February. Chittorgarh weather in the winters is pretty cool. The temperature averages around 28.37° C to 11.6°C. The monsoon season falls during the months of June to August. As far as climatic conditions of Chittorgarh, Rajasthan in monsoon are concerned, there is only slight rainfall that averages around 60 cm to 80 cm.

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- Rainfall: Chittorgarh district is located in the southeast part of Rajasthan, spanning approximately 7.50 lakh hectares. Agro-ecologically, the district falls within Zone-IVA, which comprises the sub-humid southern plain and the Aravali hill zone. The district receives an average annual rainfall of 852 mm.
- 3. **Temperature:** The summer season in Chittorgarh spans from April to June and is characterized by hot temperatures. On average, temperatures during this period range from 43.8°C to 23.8°C. In contrast, the winter season lasts from October to February, featuring cooler temperatures. During winters, the temperature typically ranges from around 28.37°C to 11.6°C in Chittorgarh.

BIO-DIVERSITY

Physical Count of Flora in Campus

| S. No. | Particulars | Units |
|--------|-------------|---------|
| 1 | Trees | 618 |
| 2 | Plants | 382 159 |
| 3 | Gardens | 406 |

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

| S. No. | Botanical Name | Common Name | Units |
|--------|--|--------------------------|-------|
| Trees | | | |
| 1. | Adansonia digitata Kalpvriksha / Gorakh Imli | | 2 |
| 2. | Annona squamosa | Sitafal or Custard Apple | 12 |
| 3. | Aegle marmelos | Bel | 7 |
| 4. | Albezia lebbeck | Siris | 6 |
| 5. | Alstonia scholaris | Saptparni/Scholar tree | 20 |
| 6. | Artocarpus heterophyllus | Jackfruit | 5 |
| 7. | Azadirachta indica | Neem | 110 |
| 8. | Bauhinia purpurea | Kachnar | 80 |
| 9. | Butea monosperma | Palaas | 5 |
| 10. | Callistemon viminalis | Bootle Brush | 13 |
| 11. | Cassia fistula | Amaltash | 10 |
| 12. | Cassia siamea | Kasod | 50 |
| 13. | Casuarina equisetifolia | Junglisaru | 3 |
| 14. | Ceiba pentandra | Kapok Tree | 7 |
| 15. | Cordia myxa | Assyrian Plum | 7 |
| 16. | Cordia sebestena | Geiger Tree | 6 |
| 17. | Dalbergia sissoo | Shisham | 3 |

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| | Green Audit / Environm | ental inspection | |
|-----|--------------------------|-------------------------|--------|
| 18. | Delonix regia | Gulmohar | 6 |
| 19. | Emblica officinalis | Amla | 15 |
| 20. | Ficus benjamina | Benjamina | 30 |
| 21. | Ficus infectoria | Paakar | 5 |
| 22. | Ficus religiosa | Peepal | 5 |
| 23. | Grevillea robusta | Silver Oak | 2 |
| 24. | Guazuma ulmifolia | Bhadraksha | 5 |
| 25. | Juniperus chinensis | Common Juniper | 6 |
| 26. | Kigelia Pinnata | Balam khira | 4 |
| 27. | Mailkara hexandra | Khirni | 7 |
| 28. | Mangifera indica | Mango | 10 |
| 29. | Manilkara zapota | Chikoo | 2 |
| 30. | Mimusops elengi | Maulsari/Spanish Cherry | 15 |
| 31. | Moringa oleifera | Drum Stick | 3 |
| 32. | Morus alba | Mulberry | 5 |
| 33. | Neolamarckia Kadamba | Kadamba | 5 |
| 34. | Nyctanthes arbor-tristis | Harsringar | 5 |
| 35. | Peltophrum pterocarpum | Copper Pod | 3 |
| 36. | Pithecellobium dulce | Jungle Jalebi | 3 |
| 37. | Phoenix roebelenii | Pygmy Date Palm | 2 |
| 38. | Phoenix sylvestris | Jangli Khajur | 2 |
| 39. | Plumeria alba | White Champa | 10 |
| 40. | etion etion | Nag Champa or Gilded | 4 |
| | Plumeria pudica | Spoon | specie |
| 41. | Plumeria rubra | Pagoda Tree | 2 |
| 42. | Polyalthia longifolia | Ashapala | 45 |
| 43. | Pongamia pinnata | Karanja | 3 |
| 44. | Porsopis cineraria | Khejri | 1 |
| 45. | Prunus persica | Peach | 3 |
| 46. | Psidium gujava | Guava | 10 |
| 47. | Roystonea rigia | Royal Palms | 10 |
| 48. | Saraca asoca | Sita Asoka | 2 |
| 49. | Simarouba glauca | Paradise Tree | 1 |
| 50. | Spathodea campanulate | African Tulip Tree | 2 |
| 51. | Syzygium cumini | Jamun | 10 |
| 52. | Terminalia arjuna | Arjun | 10 |
| 53. | Terminalia bellirica | Behada | 2 |
| 54. | Terminalia catappa | Jangli badam | 4 |
| 55. | Thuja occisentalis | White Cedar | 8 |
| 56. | Ziziphus mauritiana | Ber | 5 |

| Shru | bs | | |
|------|----------------|--------------------|---|
| 1. | Cycas revoluta | Cycas or sago palm | 5 |

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| 2. | Calotropis gigantea | Safed aakda | 3 |
|-----|------------------------|---------------------|----|
| 3. | Dodonaea viscosa | Hop Bush | 15 |
| 4. | Duranta erecta | Golden Durant | 38 |
| 5. | Hibiscus rosa-sinensis | China Rose | 50 |
| 6. | Lawsonia inermis | Mehndi | 60 |
| 7. | Livistona chinensis | Carnauba palm | 10 |
| 8. | Melaleuca bracteata | Golden bottle brush | 2 |
| 9. | Murraya paniculata | Madhukaamini | 70 |
| 10. | Nerium oleander | Kaner | 50 |
| 11. | Plumbago auriculata | Nila Chitrak | 10 |
| 12. | Rauvolfia serpentina | Sarpaganda | 2 |
| 13. | Rosa indica | Rose | 50 |
| 14. | Senna occidentalis | Septicweed (senna) | 5 |
| 15. | Tinospora cordifolia | Giloey | 2 |
| 16. | Withania somnifera | Ashwagandha | 10 |

| Grasse | s/Herbs | | an I |
|--------|-------------------------|---------------------------------|------|
| 1 00 | Apluda mutica | Grass | - |
| 2 | Argemone mexicana | Satyanashi | 5 |
| 3 | Aristida adscensionis | Grass | - |
| 4 | Aloe barbadensis | Gwarpatha (Aloevera) | 25 |
| 5 | Andrographis paniculata | Kalmegh | 2 |
| 6 | Asparagus racemosus | Satavar | 10 |
| 7 | Barleria prionitis | Vajradanti | 12 |
| 8 | Calotropis gigantea | Safed aakda | 5 |
| 9 | Catharanthus roseus | Sadabahar | 60 |
| 10 | Centella asiatica | Brahmi / Mandukaparni | 10 |
| 11 | Chamaecostus cuspidatus | Insulin plant | 5 |
| 12 | Cissus quadrangularis | Hathjod | 10 |
| 13 | Commiphora wightii | Guggal | 5 |
| 14 | Crinum asiaticum | Sudarshan | 12 |
| 15 | Cymbopogon citratus | Lemon grass | 15 |
| 16 | Datura metel | Kala Dhatura | 3 |
| 17 | Datura stramonium | Dhatura | 10 |
| 18 | Ferula assa-foetida | Hing | 1000 |
| 19 | Ficus benghalensis | Banyan (National tree of India) | 3 |
| 20 | Gymnema sylvestre | Gudmar | 3 |
| 21 | Ipomoea cairica | Railway creepers | 2 |
| 22 | Jasminum sambac | Champa Bela or Arabian jasmine | 10 |
| 23 | Justicia adhatoda | Adusa | 10 |
| 24 | Kalanchoe pinnata | Patharchatta | 15 |

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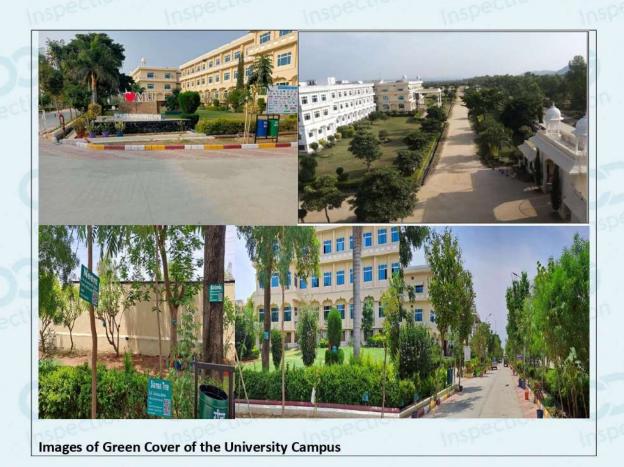


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| | Green Addit / Enviro | Frank Little English of the Section | ALC: U |
|-----|--------------------------|---|--|
| 25 | Mentha arvensis | Pudina (Wild mint) | 10 |
| 26 | Mentha piperita | Peppermint | 10 |
| - 1 | | (hybrid species of mint) | |
| 27 | Mimosa pudica | Chuiimuii (touch-me-not) | 20 |
| 28 | Murraya koenigii | Curry plant (meetha | 50 |
| | una Je una | neem) | an I |
| 29 | Musa paradisiaca | Banana | 5 |
| 30 | Ocimum kilimandscharicum | Camphor Basil (kapoor | 2 |
| | | Tulsi) | The same of the sa |
| 31 | Ocimum sanctum | Tulsi | 40 |
| 32 | Origanum majorana | Marua | 7 |
| 33 | Passiflora vitifolia | Rakhi bel | 2 |
| 34 | Pelargonium graveolens | Geranium | 2 |
| 35 | Polianthes tuberosa | Rajnigandha | 10 |
| 36 | Thespesia populnea | Paras peepal | 2 |
| 37 | Trachyspermum ammi | Ajwain | 4 |
| 38 | Turnera ulmifolia | Sage Rose | 4 |



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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. | Equus ferus caballus | Horse |
| 4. | Chiroptera | Bat |
| 5. | Capra aegagrus hircus | Goat |
| 6. | Rattus rattus | Rat |
| 7. | Bubalus bubalis | Buffalo |
| 8. | Gallus gallus domesticus | Hen |
| 9. | Simiiformes (infraorder) | Monkey |
| 10. | Boselaphus tragocamelus | Nilgai |
| 11. | Pavo cristatus | Peacock |
| 12. | Sus scrofa domesticus | Pig |
| 13. | Oryctolagus cuniculus | Rabbit |
| 14. | Ovis aries | Sheep |
| 15. | Equus africanus asinus | Ass |
| 16. | Lumbricus | Earthworm |
| 17. | Columba livia | <u>Pigeon</u> |
| 18. | Corvus splendens | Crow |
| 19. | Passer domesticus | House Sparrow |
| 20. | Psittaciformes | Parrot |
| 21. | Bos taurus | Cow |
| 22. | Formicidae | Ant |
| 23. | Pycnonotidae | Bulbul |
| 24. | Acridotheres tristis | Myna |
| 25. | Eudynamis scolopaccus | Koel |

List of Butterflies found in and around the campus

| S. No. | Zoological Name | Common Name |
|--------|-----------------|-------------|
| 1. | Rhopalocera | Butterfly |
| 2. | Musca domestica | House fly |
| 3. | Culicidae | Mosquito |
| 4. | Araneae | Spider |
| 5. | Caelifera | Grasshopper |
| 6. | Apis | Honey Bee |
| 7. | Blattodea | Cockroach |



List of Reptiles found in and around the campus

| S. No. | Zoological Name | Common Name |
|--------|---------------------------|----------------------------|
| 1. | Hemidactylus flaviviridis | House wall Lizard |
| 2. | Python molurus | Indian Python |
| 3. | Naja naja | Indian cobra |
| 4. | Eryx johnii | Indian Sand Boa |
| 5. | Uromastyx | Indian spiny-tailed lizard |

LEGEAL REQUIREMENTS

| Description | Registration Details |
|------------------------------------|----------------------|
| Consent to operate (CTO) from SPCB | Not available |
| Fire NOC | Not available |
| Water Boring permission | Not available |
| DG Set Permission | Not available |

GENERAL

| General Requirements: Environmental Policies / Environmental Objectives, etc | | |
|--|---|--|
| Is there an environmental policy? Is it publicly communicated? | The Institute has an environmental policy in place, which is publicly communicated to ensure transparency and accountability. Reference doc/pic no:- A1 | |
| Is there a defined waste management policy in the organization? | The organization has implemented a defined waste management policy to effectively handle waste materials and promote environmental sustainability. Reference doc/pic no:- A2 | |
| Are there any quantifiable environmental objectives decided by the organization? | During audit no written evidence of quantifiable environmental objectives decided by the organization was found, however The organization has established environmental objectives outlined in its | |
| | Green Policy, aiming to promote sustainability and reduce environmental impact. These objectives are regularly discussed and monitored to ensure progress towards environmental goals. Reference doc/pic no:- A3 | |

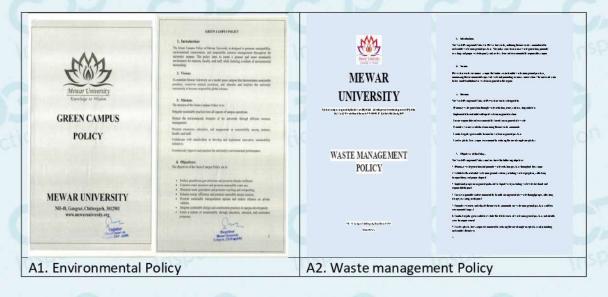
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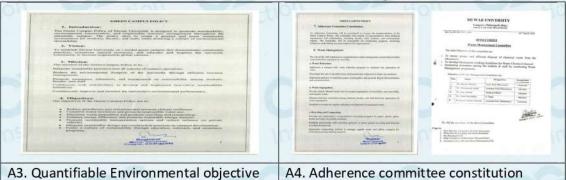


| Green Audit / Envir | onmental Inspection |
|---|--|
| Is the organization aware of all environmental Laws pertaining to different aspects of the organization's activities? Mention laws & compliance status. | No record found at the time of audit. |
| Does the organization have any Recognition/certification for the environment friendliness? Provide details. | No record found at the time of audit. |
| Has the organization established any committee to decide, implement & monitor environmental initiatives? | Organization has established waste management committee headed by Dr Hariom Sharma, Associate professor Pharmacy. Also Clause 7 of the Institution's Green Campus Policy suggests the establishment of a committee tasked with overseeing the implementation of the Green Campus Policy. Reference doc/pic no:- A4 |
| Has the institution ever received any notice/warning from the pollution control | No record found at the time of audit. |
| board or any other concerned environmental authorities? If yes, then what corrective & preventive measures have been taken? | on COS COS |
| Related Images/documents | The state of the s |









Identified Nonconformities:

- 1. The organization does not have environmental laws pertaining to different aspects of the organization's activities has been found.
- 2. The organization has not established quantifiable environmental objectives.
- 3. During the audit, no written evidence was found indicating that the institute has never received any notice or warning from the Pollution Control Board or any other concerned environmental authorities
- 4. The organization does not have environmentally friendly certificate.

POLLUTION

| (objective, practices / methods to minimize a Identify the major sources of air pollution | During the audit, the major sources of air |
|---|---|
| within the organization & the actions taken | pollution within the organization were |
| to either eliminate or minimize the pollution. | identified as air conditioning units, DG sets and vehicles. To minimize pollution, the institute is conducting plantation drives. Reference doc/pic no:-B1 |
| HVAC maintenance and calibration records, testing and balancing reports. When was the duct system tested for leakage last? | At the time of the audit, no records were found. |
| DG set stack emission test as per CPCB norms. | At the time of the audit, no records were found. |







B1. Policy on Air pollution reduction & Plantation to mitigate it.

Identified Nonconformities:

- 1. During the audit, no written evidence of HVAC maintenance and calibration records or testing and balancing reports was found.
- 2. During the audit, no stack emission test results for the DG set, as per CPCB norms, were found.

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. | The organization regularly conducts green audits and tests indoor air quality. The latest indoor air quality test conducted by CDG Inspection Ltd. revealed the following results: Air Pollution Level: 24.75 μg/m³ Formaldehyde (HCHO): 0 mg/m³ Total Volatile Organic Compounds (TVOC): 0 mg/m³ PM2.5: 62.5 μg/m³ PM1.0: 47 μg/m³ PM10: 72 μg/m³ Reference doc/pic no:- C1 & C2 |
|--|---|
| Is there a proper system of exhaust of indoor air? | There is a provision for windows and doors that facilitate the proper exhaust of indoor air, ensuring effective ventilation within the premises. Reference doc/pic no:- C3 |
| Supplies: Are 'Material Safety Data Sheets | During the audit, no written evidence of Material |
| (MSDS)' available for different types | Safety Data Sheets (MSDS) for different types of |

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| Green Audit / E | invironmental inspection |
|--|--|
| of supplies (Ex: solvent, wax, adhesives, paints, flammables etc.)? | supplies (e.g., solvents, wax, adhesives, paints, flammables, etc.) was found. |
| Are storage areas separate & ventilated properly? | Yes storage areas are separate & ventilated properly. |
| Are less or nonhazardous materials used when possible? | No record found at the time of audit. |
| Does the organization have a defined system to evaluate & find out safer alternatives? | No record found at the time of audit. |
| Is there a defined procedure available for disposal of used substances? | No record found at the time of audit. |
| General Cleanliness: | 0 -00 -00 |
| Are rooms dusted and vacuumed thoroughly and regularly? What are related checks & controls? | The cleaning staff regularly and thoroughly dusts and vacuums the rooms to maintain cleanliness and hygiene standards. Additionally, a committee comprising faculty members has been established to oversee and ensure adherence to cleanliness and maintenance standards within the premises. Reference doc/pic no:- C5 |
| nspection Inspection | Inspection Inspection Ins |
| Does the organization ensure to use of environment-friendly, non-scented cleaning products? | No evidence was found at the time of the audit. |
| Pest control methods & products used (check & control). | No record found at the time of audit. |
| Does the organization ensure use of low emitting paints, coatings, furniture etc.? What are related checks & controls? | No record found at the time of audit. |



| During the audit, no evidence of mold infestation was found. |
|--|
| The organization does not eliminate any bird or animal nests or droppings near outdoor air intakes. |
| The organization controls and prevents dust accumulation within the building through regular cleaning by the cleaning staff. |
| |

Related records / images:







C1. Test on Indoor air quality

C3. Exhaust of Indoor air



C2. Test on Indoor air quality



LABORATORY WASTE MANAGEMENT GUIDELINES

C4. Policy on Disposal of used substance

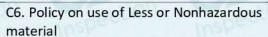


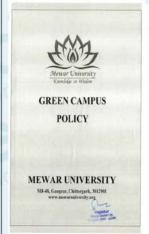




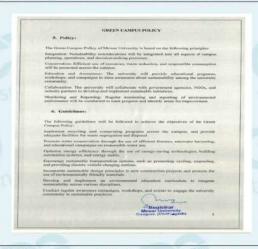


C5. Cleanliness of room









C7. Green Campus Policy & Ban on use of Plastic

. Policy on use of Environment friendly product.

Identified Nonconformities:

- The organization does not use environment-friendly, non-scented cleaning products.
- The organization does not use low-emitting paints, coatings, etc.
- The organization should have a defined system to evaluate and identify safer alternatives and use less or non-hazardous materials whenever possible.
- The organization does not have any MSDS reports.
- There is no pest control method in place, and no information is available regarding the pest control chemicals used.





WATER POLLUTION

| Water Pollution Management (objective, pollution) | practices / methods to minimize water |
|--|---|
| Source of water pollution within the premises. | No source of water pollution within the premises. |
| Measures taken to prevent / stop water wastage. | At various locations, signboards have been installed to prevent or discourage water wastage. Additionally, Clause 4 of the Green Policy addresses the prevention of water wastage. Reference doc/pic no:- D2 |
| Does the institute harvest rainwater? Give details. | The Institute implements rainwater harvesting practices. The university has calculated its rainwater harvesting potential to be 1400 m³/year using the rainwater harvesting potential formula. Reference doc/pic no:- D3 |
| Is there any water recycling system? Give details. | The college has implemented a water recycling system where water from both the sewage treatment plant and the rainwater harvesting unit is utilized for gardening purposes. |
| Is there any effluent treatment plant in premises? No. of outlets for discharge of effluent? | There is a sewage treatment plant on the premises, and one outlet is designated for the discharge of effluent. The discharged effluent is stored in a well and subsequently utilized for gardening purposes. Reference doc/pic no:- D4 |
| What is the quality of effluent in KLD? | The Sewage Treatment Plant (STP) discharges 300 kiloliters per day (KLD) of effluent. Reference doc/pic no:- D5 |
| Whether operating STP/ETP satisfactorily? | During the audit, it was found that the Sewage Treatment Plant (STP) was operating satisfactorily, although there is still room for improvement. |
| Whether provided flow meters on outlet & inlet of ETP/STP? | Yes, flow meters are installed at both the outlet and inlet of the Sewage Treatment Plant (STP). Reference doc/pic no:- D6 |



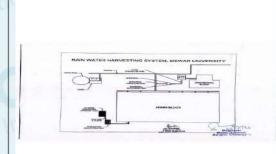
| Green Audit / Envi | ronmental Inspection | | | |
|--|---|--|--|--|
| Whether provided separate electricity meter on ETP/STP? | Yes, a separate electricity meter is installed specifically for the Sewage Treatment Plant (STP). Reference doc/pic no:- D7 | | | |
| Whether maintained Logbook for consumption of Electricity/ Chemicals/Quantity of effluent? | Yes, a logbook for the consumption of electricity, chemicals, and quantity of efflue is maintained Reference doc/pic no:- D6& D7 | | | |
| Detail of land in case effluent is discharged for percolation/ irrigation purpose with justification for its 100% utilization. | 5,03,707 sq.ft. of land is used for percolation or irrigation purposes from effluent from STP Sewage Treatment Plant). | | | |
| Status of ZLD (Zero Liquid Discharge) as per CPCB | The institute discharges all its wastewater to the sewage treatment plant, and the effluent from the STP is stored in a well for further use in gardening or irrigation. However, this cannot be considered a Zero Liquid Discharge (ZLD) system. Reference doc/pic no:-D4 | | | |
| Locate the point of entry of water and point of exit of waste water in the organisation. | Reference doc/pic no:-D4 The point of entry of water into the organization's premises is through a borewell located within the campus. The point of exit for wastewater within the organization is the Sewage Treatment Plant (STP), and the effluent from the STP is directed to a well for further management. Reference doc/pic no:- D8 | | | |
| Related records / image: | Secret Land Private 1. Secretarion 1. Secre | | | |

D1. Water save signage



D2. Measure taken to stop water wastage







D3. Layout of Rainwater harvesting in Campus

D4. Sewage treatment plant & storage of discharged effluent from STP





D5. Effluent discharged from STP

D6. Flow meter at outlet and Inlet of STP





D7. Separate electricity meter at STP

D8. Point of entry of water and exit of waste water

Observation

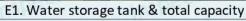
1. The organization does not have a Zero Liquid Discharge (ZLD).



| Water Consumption & Water Efficience |
|--------------------------------------|
|--------------------------------------|

| Use of water (indoor and outdoor water) & water.) | & practices related to efficient /reduced use of |
|---|--|
| Sources of water supply | The borewell serves as the primary source of water supply for the organization. |
| Number of water storage tanks and their storage capacity. Total water storage capacity. | There are a total of 15 water storage tanks distributed across various facilities such as the administrative building, academic building, hostels, and workshop. These tanks collectively have a total storage capacity of 1,070,000 liters. Reference doc/pic no:- E1 & E2 |
| Water used in irrigation? | The organization utilizes 1.5 lakh liters of water for irrigation purposes. |
| Water used in cleaning? | The organization consumes 20,000 liters of water for cleaning purposes. |







E2. Water storage tank & total capacity

| Details | No. of persons | Domestic (liter/ day) | Flushing (liter / day) | Total (liter / day) |
|------------------------|----------------|--------------------------|------------------------|------------------------|
| Students | 4805 | 1,35,000 | 1,71,225 | 3,06,225 |
| Teaching Staff | 289 | 20,520 | 6,165 | 26,685 |
| Technical Staff | 33 | 2,835 | 540 | 3,375 |
| Non-technical Staff | 88 | 5,805 | 2,025 | 7,830 |
| Outsourced Staff | 46 | 3,510 | 900 | 4,410 |
| Total | 5261 | 1,67,670 | 1,80,855 | 3,48,525 |

Description Requirement* **Actual consumption**





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| Water consumption per head /day | Without boarding facility: 45 liter per head / day With boarding facility: 135 | 66.246 liter/head/day |
|---------------------------------|--|-----------------------|
| -73 673 | liter per head / day | ~79 c |

^{*}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 (r Residential) | | tutes (non |) <u>-</u> | Educational Institutes (Residential) | | ntial) | | |
|--|---------------------------------|------------|---------------------------------|--------------------------------------|---|--------|--|--------|
| Ins | Boys | | Girls | | Boys | SCAL | Girls | perv |
| 113 | Req.* | Actual | Req. * | Actual | Req. * | Actual | Req. | Actual |
| Water | 1 per | 208 | 1 per | 208 | 1 for | 304 | 1 for | 56 |
| closets | 40 pupils or part | 2 | 25 pupils or part | G, | every 8 pupils or part | C | every 6 pupils or part | - (|
| nspection | thereof | speci | thereof | Inspe | thereof | 105 | thereof | 15 |
| Ablution taps | 1 in each water closet | 208 | 1 in each water closet | 208 | 1 in each water closet | 304 | 1 in each water closet | 56 |
| Urinals | 1 per 20 pupils | 248 | nspec | | 1 for every 25 pupils or part thereof | 56 | 105 | ection |
| Wash basins | 1 per 60 pupils, Min 2 | 156 | 1 per 40 pupils, Min 2 | 156 | 1 for every 8 pupils or part thereof | 310 | 1 for every 6 pupils or part thereof | 24 |
| Bath | pectio | n . | nspec | tion | 1 for every 8 pupils or part thereof | 304 | 1 for every 6 pupils or part thereof | 56 |
| Drinking water fountains or | 1 for every 50 | 182 | 1 for every 50 | 60 | 1 for every 50 pupils or | 48 | 1 for every 50 pupils or | 16 |
| taps | pupils or part thereof | | pupils or part thereof | Mar | part thereof | Illis | part thereof | - 1 |





| Cleaner's | 1 per floor, minimum | -action | actio |
|-----------|----------------------|---------|-------|
| sinks | pe- Inspe- | | mspe |

^{*}As per IS 1172:1993

NOISE POLLUTION

Noise Pollution Management (objective, practices / methods to minimize noise pollution) During the CDG Inspection, noise level tests were conducted at various locations within the Institute during the daytime. The measured noise level was found to be 74.975 dB(A) Leq.

| Noise level in dB(A) Leq | Standard Level* | Actual Level |
|--------------------------|-----------------|------------------|
| Day Time | 50 | 74.975 dB(A) Leq |
| Nighttime | 40 | |

^{*}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:



F. Noise meter

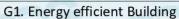




| Building Sustainability | | |
|--|--|--|
| Ensure that walls, floors, roofs, and windows are as energy efficient as possible. | During the audit, it was observed that the walls, floors, roofs, and windows of the buildings are designed to maximize energy efficiency. Additionally, the institute has invested in renewable energy by installing a 480 KWp solar photovoltaic rooftop grid-connected system on most of its buildings. The solar unit generates 632,850 units, which accounts for more than 50% of the total energy consumption of the university | |
| Judion Contion | campus. Reference doc/pic no:- G1 | |
| Design for good indoor air quality | The institute building is designed to ensure good indoor air quality, with adequate ventilation systems and windows to facilitate proper airflow. Reference doc/pic no:-G2 | |
| Use of natural daylight in building interiors as a source of ambient light. | Natural daylight is effectively utilized within the interior of the Institute building as a source of ambient light. Reference doc/pic no:- G3 | |
| Use of low emitting materials for building modifications, maintenance, and cleaning. | The Institute ensures the use of low- emitting materials for building modification, maintenance, and cleaning purposes. Reference doc/pic no:- G4 | |

Related Images:







G2. Good Indoor air quality

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G3. Natural daylight is used in Building Interior



G4. Use of low emitting material for maintenance and cleaning

Lighting

Use of energy efficient lighting system (bulb & other products)

The college has installed an LED lights on its campus. Clause 10 of the Institute's Green Campus Policy specifically addresses the use of energy-efficient lighting systems.

Use of natural day light

Reference doc/pic no:- H1
Natural daylight is utilized within the
Institute to reduce the reliance on artificial
lighting during daylight hours.
Reference doc/pic no:- H2

Related Images:



H1. Energy management policy



H2.Natural daylight is used in college

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ILLUMINATION LEVELS AND GLARE INDEX

| Sr. | Area | Standard | Standard | Actual | Actual |
|-----|---|--------------|----------|--------------|----------|
| No. | 13 | Illumination | Glare | Illumination | Glare |
| 110 | | (Lux)* | Index* | (Lux) | Index |
| a) | Classrooms | 300 | 16 | 614 | 7. |
| b) | Lecture rooms (including demonstration areas) | 300 | 16 | 202 | |
| c) | Reading rooms | 150 to 300 | 19 | 201 | |
| d) | Laboratories | 300 | 16 | 245 | Jan Hill |
| e) | Corridors | 70 | - Insper | 113 | Spert. |
| f) | Libraries | 300 | 16 | 379 | |
| g) | Auditorium | | | | |
| | I. Hall | 70 | - | 111 | 1 0 |
| | II. Foyer | 70 | 7- 15 M | 062 | |
| | III. Stage area | 300 | 16 | - actil | Jul . |
| h) | Gymnasiums | 150 | - | 60 | 11 |
| j) | Cafeterias | 100 | = " | 099 | |
| K) | Staff rooms | 150 | - | 122 | - |

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





12.Lecture rooms







17. Auditorium



18.Gymnasium







19.Cafeterias

110.Staff room

Electrical Equipment's

Details of electrical equipment, its energy efficiency & practices

During audit Electrical equipments found are: Tubelight, Ceiling Fan, LED Tubelight, CFL, AC, PC, Printer, Exhaust, Round light & High Mast with a Toal power of 373.850 KW

| Equipments | Quanity(Nos) | Total Power(Watt) |
|---------------------|--------------|----------------------|
| Tubelight(28W) | 1134 | 31752 |
| Tubelight(36W) | 98 | 3528 |
| Ceiling Fan(60W) | 2702 | 162120 |
| CFL(18W) | 506 | 9108 |
| AC | 49 | 73500 |
| PC | 414 | 35190 |
| Printer | 54 | 13500 |
| Round light | 44 | 792 |
| High Mast | 4 | 6000 |
| Exhaust | 68 | 12240 |

All electrical equipment is used as per requirement, and high mast lights are used during night time.

ELECTRICITY CONSUMPTION

| Month | Electricity Consumption (Last 6 months) |
|---------------|---|
| January 2024 | 29380 KWH |
| December 2023 | 26652 KWH |
| November 2023 | 31232 KWH |
| October 2023 | 35620 KWH |

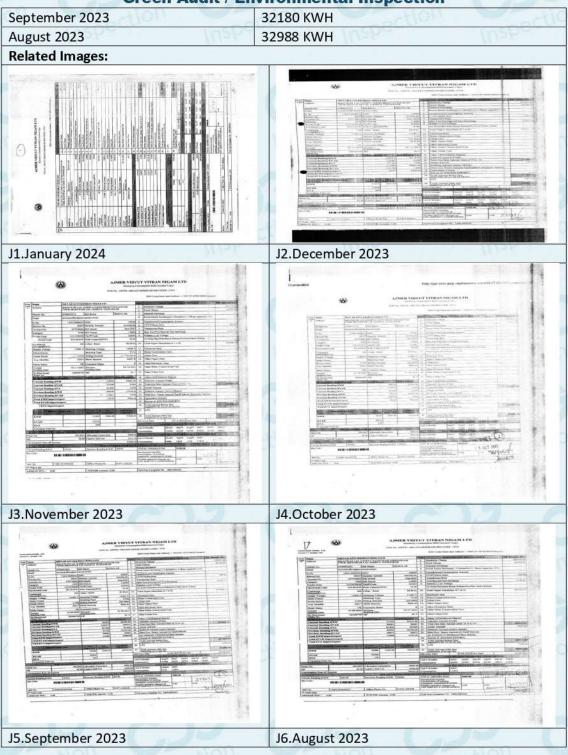
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Energy Efficiency

(consumption, objective, practices / methods to achieve energy efficiency objectives)

| Current energy uses. | Energy Sources | Consumption (Unit) |
|------------------------------------|---------------------------------------|-----------------------|
| | Electricity | 31342 KWH |
| | Fuel oil | 17,750 Liter per year |
| | Inche Cult | Inche Cul |
| - 1000 | No record found at the time of audit. | |
| Short-term energy efficiency goals | | |
| & roadmap to achieve those goals. | 73 ~ | |
| Long-term energy efficiency goals | No record found at th | ne time of audit. |
| & roadmap to achieve those goals. | per ins | |

Observation

 The organization does not have short term and long-term energy efficiency goals & roadmap to achieve those goals.

On-Site Energy Generation

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

The University has installed a 480 KWp solar photovoltaic rooftop grid-connected system on most of its buildings. The solar unit generated for the year 2021-22 is 6,32,850 units, which accounts for more than 50% of the total unit consumption of the university campus.

Reference doc/pic no:- L1.

Related records / images:







L1. Solar panel

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DRINKING WATER

Drinking Water Quality

(As per IS 10500: 2012)

During the CDG Inspection, pH tests were conducted at various borewell locations within the Institute. It was found that the pH of the borewell water is 7.283. These pH values fall within the permissible limits as defined by IS 10500:2012 and confirmed that the water is safe for drinking.

Identified Nonconformities:

The organization does not conduct drinking water quality test as per IS 10500:2012.



M2. Ph Test

WASTE MANAGEMENT

Type of waste - Plastic waste

Approximate annual quantity- 1 Ton

Source of waste - Broken old Furniture, Dustbins, Garden pipes, water cans etc.

Handling methods: Items are sold for recycling through authorized scrap dealers, ensuring responsible disposal and environmental sustainability.

Measures to reduce the waste quantity- The Institute has implemented a ban on single-

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use plastic and is replacing it with steel furniture, promoting environmental conservation and sustainable practices.

Type of waste - Paper waste

Approximate annual quantity- 10 Ton

Source of waste - Old answer script (Weeded off), waste paper, charts etc.

Handling methods- Items are sold for recycling through authorized scrap dealers, ensuring responsible disposal and environmental sustainability.

Measures to reduce the waste quantity-

Online examinations are conducted, and an Enterprise Resource Planning (ERP) system is implemented for all purposes.

Type of waste - Electronic waste

Approximate annual quantity- 120 Kg

Source of waste - Old computer, IT waste, Old batteries.

Handling methods- The Institute has established a contract with an authorized e-waste recycler for responsible disposal of electronic waste.

Measures to reduce the waste quantity- Repairing of IT equipment and annual maintenance contract for maintenance.

Type of waste – Hazardous waste

Approximate annual quantity- 210 Kg

Source of waste - Mewar university Hospital, Pharmacy and Chemistry Labs.

Handling methods- The Institute has established contracts with authorized recyclers for responsible disposal and recycling of materials.

Measures to reduce the waste quantity- No record found at the time of audit.

Type of waste – Garden waste

Approximate annual quantity- 10 Ton

Source of waste - Garden Leaves

Handling methods- Vermin Compost plant

Measures to reduce the waste quantity- Proper Gardening, sprinkler facility etc.

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Type of waste - Food waste

Approximate annual quantity- 10 Ton

Source of waste - Hostel Mess and cafeteria

Handling methods- Biogas plant and Vermin compost plant

Measures to reduce the waste quantity- Minimizing food waste and creating awareness through banners and other means are important initiatives undertaken by the Institute.

Identified Nonconformities:

• The organization should follow a proper waste management handling process as well as strive to reduce the quantity of waste.

COMPOSTING PLANT

| How much organic waste is generated in a day? What type of organic waste is generated? | The Institute generates 50 kg of organic waste per day, consisting of food waste, plant waste, and garden waste. |
|--|--|
| Details & capacity of compost plan installed in the organisation. | No record found at the time of audit. |
| Details of composting method used | The vermicomposting method is used for composting organic waste in a pit. |
| Compost facility maintenance & inspection plan | No record found at the time of audit. |

Identified Nonconformities:

 It is recommended to adopt a proper composting method for complete decomposition and can consider installing a composting machine on campus for safe and sustainable composting.

Related Image:



N1. Vermicomposting is used for Organic waste

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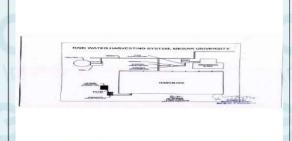


RAINWATER HARVESTING

| The university has a total built-up area of |
|--|
| approximately 1,500 m ² . With an average |
| annual rainfall of 1.064 meters and a runoff |
| coefficient of 0.88 for a commercial |
| building, the estimated rainwater |
| harvesting potential for the college is about |
| 1,404.48 m³ per year. This estimation is |
| calculated using the following mathematical |
| equation: |
| Rainwater Harvesting Potential = Rainfall |
| (m) x Area of catchment (m²) x Runoff |
| coefficient. |
| In this case: |
| RWH Potential = 1.064 m x 1500 m ² x 0.88 = |
| 1404.48 m³/year. |
| Reference doc/pic no:- O1 |
| No record found at the time of audit. |
| |

The organisation does not maintain any record regarding rainwater harvesting maintenance & inspection.

Related Image:



O1. Layout of rain water harvesting unit



O2. Adherence committee constitution to oversee the maintenance plan

| Training | |
|--|---------------------------------------|
| Has the organization provided waste | No record found at the time of audit. |
| management/handling training to concerned employees. Give details. | list. |

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| Ologii Amail / Elivii | The state of the s |
|---|--|
| 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 organization provided training for water by saving awareness poster. Reference doc/pic no.: - P1 |

Related Image:



P1. Water saving awareness poster

Observation:

• The organisation does not maintain any record regarding waste management and solid waste management training program.

| Environmental Practices | 2 -02 -03 |
|-------------------------|--|
| Waste recycling | Institute implements waste recycling practices. Organic waste undergoes vermicomposting to produce manure, which is then utilized in the biogas plant for power generation. Additionally, wastewater recycled from the Sewage Treatment Plant (STP) is used for gardening purposes. During the audit, a Green Audit certificate provided by Empirical Exergy Private Limited was found for the academic year 2021-22. Also university is allotted the membership for disposal of E-waste as per HW (MH &TM) rules 2008 in accordance with Rajasthan State pollution control board. Also Mewar university Hospital have obtained membership of Biomedical waste management. |

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| Green Audit / Environmental Inspection | | |
|--|--|--|
| on action | Reference doc/pic no:- Q1 & Q2 | |
| Waste Decomposition | All organic waste undergoes decomposition | |
| | through vermicomposting. | |
| | Reference doc/pic no:- Q1 | |
| Rainwater harvesting | The estimated rainwater harvesting | |
| JE WAS LINE | potential for the college is approximately | |
| - nection | 1404.48 m3/year, calculated using the | |
| lish. | following equation: | |
| The street | RWH Potential = Rainfall (m) x Area of | |
| | catchment (m2) x Runoff coefficient | |
| on action | ion etion etic | |
| Inspec | Given: | |
| | Rainfall = 1.064 m (average annual rainfall) | |
| -6 -6 | Area of catchment = 1500 m2 (total built-up | |
| | area) | |
| de de la con | Runoff coefficient = 0.88 | |
| ospection inspection | Substituting the values: | |
| Ites. | RWH Potential = 1.064 m x 1500 m2 x 0.88 | |
| | RWH Potential = 1404.48 m3/year | |
| | Reference doc/pic no:- Q3 | |
| Environmentally Preferable Purchasing | The Institute demonstrates its commitment | |
| (EPP) or Green Purchasing | to environmentally preferable purchasing, | |
| (El 17 di Greeni arenasing | also known as green purchasing, through | |
| | initiatives outlined in its Green Campus | |
| | Policy like use low emitting pants, LED lights | |
| | with star rating, AC etc. | |
| | Reference doc/pic no:-Q4 | |
| Distinct receptacles for trash and recycling | Inside the Institute, there are designated | |
| Ush. Wash. | receptacles for trash and recycling, | |
| | facilitating proper waste segregation. Blue | |
| | dustbins are allocated for plastic waste, | |
| | green dustbins for vegetable and fruit | |
| on the tion | waste, and yellow dustbins for paper and | |
| inspection inspect | glass waste, ensuring effective recycling and | |
| Tree tree. | waste management practices. | |
| | Reference doc/pic no:- Q5 | |
| Low-emission transportation | No record found at the time of audit. | |
| maximum use of clean energy | The Institute's Green Campus Policy and | |
| maximum use of clean energy | | |
| | Waste Management Policy prioritize the maximum utilization of clean energy | |
| | | |
| | sources. | |





| | -00 |
|--|--|
| Preference to electronics over the paper | The institute doing more activity in online mode like taking assignment, examination rather using papers. |
| Campus garden | The institute has a green campus area of 5,03,707 sq.ft., which includes 618 trees, 382 plants, and 406 gardens. |

Related Image:



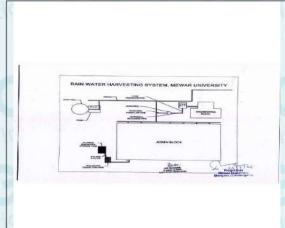


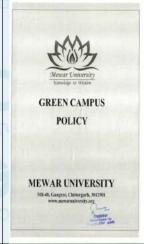


Q2. STP(Sewage Treatment Plant)











Q3. Layout of Rainwater harvesting unit

Q4. Green campus Policy & Ban on use of Plastic



Q5. Distinct receptacle for trash

Environmental Initiatives / Green Initiatives

Mewar University has organized several environmental initiatives or green initiatives, including:

- 1. Conducting cleanliness drives in nearby neighborhoods such as parks, streets, and community areas to promote cleanliness and raise awareness among students and the public.
- 2. Celebrating Earth Day annually to promote environmental awareness and encourage sustainable practices.
- 3. Organizing tree plantation drives by students and faculty staff in nearby villages and towns to promote environmental conservation.

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4. Initiating the "Nadan Parinde" initiative, aimed at providing water for birds during hot summer months both inside and outside the campus. This initiative addresses water scarcity for birds in the surrounding areas, contributing to biodiversity conservation beyond campus boundaries. Additionally, awareness campaigns are conducted in the local community to educate people about the importance of providing water to birds during summer.

5. Participating in World Environment Day celebrations outside the campus to demonstrate the university's commitment to environmental conservation. Activities include raising public awareness in nearby communities, tree plantation, cleanup campaigns, awareness rallies, and interactive sessions on environmental topics.

Related records / images:









































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Biodiversity













Signature

Signed by: ASHUTOSH
TIWARI
Reason: Certified Copy
Location: Gurgaon, India
Date: 13-Sep-2024 (12:03 PM)
Inspection Engineer

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