

St. Xavier's College Jaipur Affiliated to the University of Rajastham Approved under Section 2(f) and 12(B) of UGC Act, 1956 A Christian Minority Educational Institution under Section 2(g) of NCMEI Act, 2004

GREEN AUDIT REPORT

ENVIRONMENTAL INSPECTION





Nevta-Mahapura Road, Near Nevta Dam, Tehsil Sanganer, Jaipur-302029, Rajasthan C +91 9828726366 R info@sxcjpr.edu.in



Certificate of Inspection

Organization :	St. Xavier's College Jaipur
Address :	Village Nevta Mahapura Road Jaipur - 302029 India
Inspection Standard :	Green Audit / Environmental Audit
Date of Inspection :	January 06, 2024
Inspection Report No. :	CIL/20232522

CDG Inspection Limited has conducted a green audit & environmental audit on the campus mentioned above, taking into account the relevant norms and best practices for educational institutions. For details on the audit findings, please refer to the detailed inspection report No. CIL/20232522





Managing Director CDG INSPECTION LIMITED W- www.cdginspection.com E- info@cdginspection.com

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> Principal At Xavier's College, Jaipur Nevta-Mahapura Road, Jaipur

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CIL Ref. No.:	CIL/20232522	
Name of organization:	St. Xavier's College Jaipur	
Address of premises:	Village Nevta Mahapura Road Jaipur 302029	
Name of Inspector:	Mr. Ashutosh Tiwari	
Date of Inspection:	06-01-2024	
Type of Inspection:	Green Audit	

Organization Details		
Total Campus Area	97124.55 sqm	
Total Built-up Area	17111.34 sqm	
Covered Parking	2 (With Capacity 72 Four Wheelers)	
Total Air-Conditioned Area	1444.05 sqm	
Non-Airconditioned Area	Not available	
Cross Floor Area	G+4	
Forest / Planted Area	15 acres	
Age of the building	07 Years	

DETAILS OF INFRASTRUCTURE

Classrooms	57
Laboratory	9
Library	1
Seminar hall and auditorium	2
Sports room	1
Gymnasium	1
Staff and student parking area	30-meter x 15 meter
Canteen	1
Playground	1 Football 1 Cricket ,1 Handball , 1 Volleyball 1 Kabaddi 1 Kho-Kho- 1 Badminton 1 Basket Ball

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Green Area / Plantation	15 acre		

LIST OF BUILDINGS

Name of Building	Number of Floors	Area (m2)
IT Block Computer Labs	4 Labs	25 x 36 900 Sq Feet

DEPARTMENTS

1	Department of Business Administration
2	Department of Commerce
3	Department of Computer Science
4	Department of English
5	Department of Economics
6	Department of Political Science
7	Department of Arts
8	Department of Psychology
9	Department of Science

DETAILS OF STUDENTS AND STAFF

Total Number of Students	Total 2264 Male 1450 Female 814	
Teaching Staff	43	
Technical Staff	11	
Non-Technical Staff	29	
Outsourced Staff	6	

GREEN AUDIT PARTICIPANTS

Name	Designation
Dr Gurneet Kaur Suri	Coordinator
Dr Antony Nitin Raja	Member
Dr Mahak Bhatia	Member
Dr Juniet Maria Jose	Member
Dr Renu Jadon	Member
Ms Nupur Chauhan	Member
Mr Lokesh Kumawat	Member
Ms Blessy Varghese	Member

LEGAL COMPLIANCES

Description	Registration Details
Consent to operate (CTO) from SPCB	Not available
Fire NOC	LSG/JAIPUR GREATER/FIRENOC/2023-24/20830
Water Boring permission	Not available

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DG Set Permission

Not available







About the College

In 2006, the Xavier Vocational Institute (X.V.I.) was set up in Jaipur to give vocational training to the weaker sections of the society. In 2010, the J.X.E.A. in collaboration with the Xavier Alumni/ae and the well-wishers of Jaipur under the leadership of Rev. Fr. Varkey Perekkatt, SJ, initiated a Higher Education Programme by establishing St. Xavier's College, Jaipur. Since then the college has grown manifold, serving the educational needs, not only of the people of Jaipur but also across the nation. Over the last 10 years we have grown from a sapling to a huge oak, and every year the college has reached new milestones. In 2014, the college was declared a Christian Minority Jesuit Institution and in the same year, the status of college was elevated to the Postgraduate the level with the initiation of two courses, namely, Masters in English Literature and Human Resource Management. In the year 2017, the college was granted Permanent Affiliation for B.A. Honours in Economics and English Literature from the University of Rajasthan. The following year was a testament to our success as the student strength crossed over 2000, and the number of undergraduate courses rose to six - B.A.(Honors)- English, Economics, Political Science; BBA, BCA and B.Com. and postgraduate programmes turned to 5 - M.A.(English), M.A.(Economics), M.Sc. (IT), M.Com.(EAFM, ABST) and M.H.R.M. another achievement followed in 2019 when the college got recognition under section 2(f) and 12(B) of UGC Act 1956. In addition to this, in the same year, all the undergraduate departments along with M.A. English Literature got permanent affiliation from the University of Rajasthan, Jaipur (Rajasthan). After a magnificent decade, right in the heart of the city, the college shifted to the new campus at Nevta, Jaipur in the session 2021-22 to provide bigger and better infrastructural and academic possibilities to the students. In 2022-23, the College planned to offer the Professional Programmes - MBA and MCA through its New Technical Institution (Xavier Institute of Management and Informatics (XIMI)) in the same Campus. Vision

To ignite young minds with transformative education to become global citizens with competence, character, and compassion.

Mission

- 1. To awaken and lead the youth towards self-actualization.
- 2. To strive towards excellence by creating individuals with humane values.
- 3. To reach out to all the sections of society without any discrimination by ushering inclusivity through holistic and quality education to build a just society.
- 4. To foster a culture of tolerance where students are sensitized towards gender, the marginalized, the excluded and the specially-abled (Divyangjan).
- 5. To work towards the conservation and protection of the environment for achieving Sustainable Development Goals (SDGs).

Objectives

- 1. To embody the essence of Character, Compassion, and Competence by seamlessly integrating the vision, mission, and core values of the College.
- 2. To instill a sense of integrity, uphold ethical conduct, and reinforce accountability within the student body.

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- 3. To elevate pedagogical standards through the balanced use of advanced technology, enhancing teaching-learning experience.
- 4. To create an innovative ecosystem to foster critical thinking, decision making and problem-solving skills amongst the students.
- 5. To bridge the gap between theory and practice by promoting industrial exposure and collaboration to hone their professional skills.
- 6. To cultivate robust research-oriented and innovation-based learning practices in academia.
- 7. To nurture a profound appreciation for art and culture through a plethora of opportunities to exhibit creativity and talent.
- 8. To create awareness among the students about the environmental concerns and promote a mindful coexistence with nature.
- 9. To maintain a harmonious and amicable bond between the alumni and the alma mater.
- 10. To empower students to become men and women for and with others by upholding the idea of Magis and Cura Personalis.

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE



LAND USE DATA

Categories of	Land Use	Area (M2)	
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			mer



PLANTATION AREA 80013.21 sq meter		
BUILT UP AREA (INCLUDE ROADS)	17111.34 sq. meter	
TOTAL AREA	97124.55 sqm	

CLIMATIC PARAMETERS

1. Climate:

Jaipur, the capital of Rajasthan, experiences a semi-arid climate. Summers (March-June) are scorching, with daytime temperatures exceeding 40°C. Monsoons (July-September) bring moderate to heavy rainfall and a slight temperature drop. Post-monsoon months (October-November) offer milder weather, making October an ideal time to visit. Winters (December-February) are cool, with daytime temperatures ranging from 15-25°C and chilly nights (5-10°C). December and January are the coldest months. Jaipur's climate is marked by hot summers, a monsoon season with significant rainfall, and cool winters, making post-monsoon and winter months preferable for a more comfortable visit.

2. Rainfall:

Jaipur receives the majority of its annual rainfall during the monsoon season, which typically spans from July to September. The city experiences moderate to heavy rainfall during this period, contributing significantly to its overall precipitation for the year. However, the total amount of rainfall can vary from year to year due to factors such as the strength of the monsoon and regional weather patterns. On average, Jaipur receives around 600-650 millimeters of rainfall annually, with a significant portion occurring during the monsoon months. It's important to note that while the monsoon brings relief from the summer heat, excessive rainfall can sometimes lead to localized flooding.

3. Temperature:

Jaipur witnesses a varied temperature range throughout the year due to its semi-arid climate. Summers (March-June) bring scorching heat, with daytime temperatures often surpassing 40°C. Monsoons (July-September) offer relief, featuring cooler daytime temperatures ranging from 30-35°C. Post-monsoon months (October-November) see a gradual decline in temperatures. Winters (December-February) are relatively cool, with daytime temperatures spanning 15-25°C, and chilly nights ranging from 5-10°C. The hottest months are May and June, while October is considered pleasant. Jaipur's climate showcases a notable temperature contrast between the intense heat of summer and the milder conditions in other seasons.

BIO-DIVERSITY

Physical Count of Flora in Campus

S. No.	Particulars	Units
1	Trees	1000 approx.
2	Plants	2800 approx.
3	Gardens	10 approx.

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

S.No	Scientific Name	Common Name	Total
1	Polyalthia longifolia	Ashok pendula	107
2	Saraca asoca	Ashoka	54
3	Adenium obesum	Adenium (Desert Rose)	2
4	Emblica officinalis Gaertn. or	Amla	7
	Phyllanthus emblica Linn		
5	Cassia fistula	Amaltas	6
6	Dypsis lutescens	Areca palm (Yellow palm,	70
		Butter fly palm	-
7	Agave Americana	Agave (American aloe)	1
8	Terminalia arjuna	Arjun	34
9	Punica granatum	Annar	11
10	Aloe vera	Aloe	15
11	Ziziphus mauritiana	Ber	3
12	Bougainvillea glabra	Bougainvillea	88
13	Musa paradisiaca	Banana	8
14	Melia azedarach	Bakayan (Bakan, Chinaberry)	6
15	Callistemon citrinus	Bottle Brush	7
16	Conocarpus erectus	Conocarpus (Button wood)	57
17	Tabernaemontana divaricate	Chandni/Jasmine	11
18	Plumeria obtuse	Champa	60
19	Cocos nucifera	Coconut palm	1
20	Ficus pumila	Chipkali bel	1
21	Casuarina equisetifolia	Casuarina (Horse tail, she oak)	1
22	Cvcas revoluta	Cycas	14
23	Murrava koeniaii	Curry Plant	7
24	Tamarindus indica	Imli	28
25	Ficus beniamina	Ficus black	87
26	Ficus retusa	Ficus panda	79
27	Ficus benjameana	Fig tree	6
28	Wodvetia bifurcate	Foxtail palm	1
29	Delonix regia	Gulmohar	120
30	Ficus racemose	Gular	22
31	Hibiscus rosa-sinensis	Gudhal	79
32	Psidium quajava	Guava	17
33	Phyllostachys aurea	Golden Bamboo	3

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34	Syzygium cumini	Jamun	72
35	Jatropha integerrima	Jatropha	16
36	Tamarix dioicia	Jhag/ Jhau	1
37	Millettia pinnata	Karanj	585
38	Cascabela thevetia	Kaner	103
39	Bauhinia variegate	Kachnar	26
40	Kigelia Africana	Kigelia	9
41	Neolamarckia cadamba	Kadam	4
42	Prosopis cineraria	Khejadi	12
43	Carissa carandas	Karonda	4
44	Ficus microcarpa	Moclame ficus	44
45	Platycladus orientalis	Morpankhi	17
46	Mimusops elengi	Morchali/ Molshree	95
47	Mangifera indica	Mango	30
48	Swietenia macrophylla	Mahogany	3
49	Lawsonia inermis	Mehandi	1
50	Ficus microcarpa	Micro Ficus	22
51	Azadirachta indica	Neem	376
52	Persea Americana	Palta farm	41
53	Putranjiva roxburghii	Putranjiva	36
54	Ficus virens	Pilkhan ficus	23
55	Pedilanthus tithymaloides	Euphorbia	2
56	Ficus elastica	Rubber Plant	2
57	Latania lontaroides	Latania palm	11
58	Citrus limon	Lemon	7
59	Dracaena trifasciata	Snake plant	12
60	Dalbergia sissoo	Shisham	100
61	Morus alba	Shehtoot	34
62	Cassia acutifolia	Senna	9
63	Manilkara hexandra	Khirni tree	12
64	Manilkara Zapota	Sapota	15
65	Grevillea	Silk Oak	3
66	Saccharum officinarum	Sugar Cane	2
67	Annona reticulata	Sitaphal	2
68	Moringa oleifera	Senjana/ Drumstick	11
69	Albizia lebbeck	Shirish(Women tounge)	2
70	Ficus benjamina	Topiary ficus	1
71	Terminalia	Terminalia	166
72	Tecoma stans	Tecoma	352

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73	Lilium candidum	White Lily	15
74	Nyctanthes arbor-tristis	Harsinghar	2
75	Artocarpus heterophyllus	Kathal	2
76	Citrus sinensis	Orange	2
77	Rosa rubiginosa	Rose	39
78	Furcraea acaulis	Fercaria	4
79	Carica papaya	Рарауа	3
80	Asparagus racemosus	Shatavri	16
81	Epiphyllum oxypetalum	Kamal Cactus	5
82	euphorbia trigona	Cactus	3
83	Phoenix roebelenii	Robino Palm	2
84	Jasminum sambac	Mogra	1
85	Ailanthus excelsa Roxb	Ardu	1
86	Ficus carica	Ficus ball	1
87	Olea europaea	Olive tree	12
88	Allamanda cathartica	Almunda Bel	1
89	Hamelia patens	Hemalia	17
90	Crassula ovata	Jade	12
91	Urtica dioica	Bichubutti	15
92	Syngonium podophyllum	Syngonium	6
93	Codiaeum variegatum	Baby Kroton	15
94	Plumeria rubra	Plumaria	2
95	Thaumatophyllum Xanadu	Philodendron Rugosum	3
96	Canna x generalis	Keli	5
97	Euphorbia Tithymaloides	Pedilanthus	16
98	Euphorbia Milii	Crown of Thron	2
99	Rhapis excelsa	Raphis Palm	10
100	Chamaedorea elegans	Sapotia Palm	13
101	Codiaeum variegatum	petro Kroton	6
102	Murraya paniculate	Madhukamini	3
103	Phoenix dactylifera	Phonex Palm	9
104	Schefflera arboricola	Saplera	7
105	Beaucarnea recurvata	Lolina Palm	1
106	Crassula ovata	Money Plant	3
107	Phyllanthus Buxifolius	Phyllanthus	6
108	Radermachera sinica	Redmacharia	19
109	Ficus Benjamina	Safari Ficus	7
110	Chrysanthemum indicum	Crysanthimum/ Guldaudi	35
111	Tradescantia spathacea	Rohio	5

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112	Yucca elephantipes	Silver Yucca	4
113	Pandanus amaryllifolius	Pandanus Plant	10
114	Ocimum tenuiflorum	Tulsi	5
115	Dracaena reflexa	Song of India(Drasena)	4
116	Kalanchoe pinnata	Pattarchatta	2
117	Syzyajum Australe Roslina	Brush cherry	3
118	Trachyspermum ammi	Ajwain	1
119	Araucaria heterophylla	Christmas Tree	1
120	Trachycarpus fortune	China Palm	6
121	Ficus benghalensis	Banyan (Bargadh)	1
122	Cyperus alternifolius	Cyperus	1
			3640



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Images of Green Cover of the University Campus

List of birds and animals

SI. No	Name	Scientific Name
1	Eurasian Collared Dove	Streptopelia decaocto
2	Laughing dove	Spilopelia senegalensis
3	Rock Pigeon	Columba livia
4	Red Collared Dove	Streptopelia tranquebarica
5	Gray Francolin	Ortygornis pondicerianus
6	Red vented bulbul	Pycnonotus cafer
7	Intermediate Egret	Ardea intermedia
8	Cattle Egret	Bubulcus ibis
9	Indian pied Starling	Gracupica contra
10	Rose-Ringed Parakeet	Psittacula krameria
11	Black-rumped flamebackwoodpecker	Dinopium benghalense
12	Black winged stilt	Himantopus Himantopus
13	Red-wattled Lapwing	Vanellus indicus
14	White breasted waterhen	Amourornis phoenicurus
15	White browed wagtail	Motacilla alba
16	Brahminy starling	Sturnia pagodarum
17	White throated kingfisher	Halycon smyrnensis
18	Greater Coucal	Centropus sinensis
19	Large Gray Babbler	Argya malcolmi
20	Eurasian Hoopoe	Upupa epops
21	Black drongo	Dicrurus macrocercus
22	Purple sun bird	Cinnyris asiaticus

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23	Sparrow	Passer domesticus	
24	Indian Robin	Copsychus fulicatus	
25	Indian Pond Heron	Ardeola grayii	
26	Grey Heron	Ardea cinereal	
27	Indian Cormorant	Phalacrocoraxfuscicollis	
28	Indian Peafowl	Pavo cristatus	
29	Common Kingfisher	Alcedo atthis	
30	Spotted owlet	Athena brahma	



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bal St. Xavier's College, Jaipur Nevta-Mahapura Road, Jaipur







Common name: Brahminy starling Scientific Name: Sturnia pagodarum Local Name: पवई



Common name: White throated kingfisher Scientific Name: Halycon smyrnensis Local Name: किलकिला



Common name: Greater Coucal Scientific Name: Centropus sinensis Hindi Name: महोखा



Common Name: Indian Pond Heron Scientific Name: Ardeola grayii Hindi Name: भारतीय तालाब बगुला



Common Name: Grey Heron Scientific Name: Ardea cinerea Hindi Name: खेरा बगुला

List of Butterflies found in and around the campus

S. No.	Zoological Name	Common Name
1	Junomia leingonias	Lemon Pansy
2	Danaus Dhrysippus	Plain tiger butterfly
3	Junonia Orithya	Blue Pansy
4	Catopsiliapyranthe	Mottled emigrant
5	Freyaria Putli	Jewelled grass blue
6	Lxias Marianne	White orange tip

List of Reptiles found in and around the campus

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S. No.	Zoological Name	Common Name
1	Bungarus sindanus	Sind Krait
2	Eryx jphnii	Red Sand boa
3	Ptyas mucosa	Rat Snakes
4	Indotyphlops braminus	Brahmini worm snake
5	Chamaelo zeylanicus	Chameleon
6	Hemidactylus	Lizard

LEGEAL REQUIREMENTS

Description	Registration Details
Consent to operate (CTO) from SPCB	Not available
Fire NOC	LSG/JAIPUR GREATER/FIRENOC/2023-24/20830
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?	Yes the St. Xavier college has the environmental policy. It covers the Committed to reducing its carbon footprint, the institution engages students, faculty, and committees such as the Eco-friendly Club and SAP Committee. Initiatives span diverse areas, including waste and water management, energy efficiency, and collaborations with national programs. The policy fosters a green campus, integrates environmental education, and supports community outreach. Reference fig/doc:- A1	
Is there a defined waste management policy in the organization?	Yes there is a waste management policy in the organization. The policy focuses on reducing, reusing, and recycling solid waste. Biodegradable waste undergoes segregated collection and composting, supporting sustainable landscaping. Liquid waste is treated according to environmental regulations. E-waste is responsibly managed through collaboration with authorized recycling agencies. We emphasize continuous improvement, innovation, and community engagement.	
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	Reference Fig/Doc:- A2
Are there any quantifiable environmental objectives decided by the organization?	No written evidence has been found for any quantifiable 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.	No written evidence was found at the time of the audit indicating that the organization is aware of all environmental laws.
Does the organization have any Recognition/certification for the environment friendliness? Provide details.	No written evidence was found during the audit indicating that the organization has any recognition or certification for environmental friendliness.
Has the organization established any committee to decide, implement & monitor environmental initiatives?	Yes, the organization has formed the environmental chart that tell about the environmental initiatives. Reference Fig/Doc: - 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, the institute has not received any notice/warning from the pollution control board or any other concerned environmental authorities. Reference Fig/Doc: - A3
Related images / documents	

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A1: Environmental policy	A2: Waste Management policy		
<image/> <image/> <image/> <image/> <image/> <image/> <image/> <image/> <image/> <text><text><text><text><text><text><text></text></text></text></text></text></text></text>	EXYIRONMENT CHART Geverning Body of Trust (JXEA) Rector/Manager Pr (D: Anskys Soundy SI Principal Pr (D: Anskys Soundy SI Principal Pr (D: Anskys Soundy SI Principal Pr (D: Anskys Soundy SI Principal		
A3: Notice for not receiving the letter from any pollution control board	A4: Environmental chart showing the team responsibility		

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Identified Nonconformities

- The organization lacks clearly defined and measurable environmental objectives, hindering its ability to effectively track and improve its environmental performance, and demonstrate commitment to sustainable practices in a quantifiable manner.
- 2. The organization lacks comprehensive awareness of pertinent environmental laws governing its diverse activities, resulting in a deficiency in legal compliance.
- 3. The organization lacks any recognized certification or formal recognition for its commitment to environmental friendliness.

POLLUTION

Air Pollution Management	
(objective, practices / methods to minimize	air pollution)
Identify the major sources of air pollution within the organization & the actions taken to either eliminate or minimize the pollution.	The major source of air pollution within the organization is the vehicles. The college has undertaken significant tree plantation and created green spaces around itself. Additionally, it has installed solar panels on the roof of the parking area. Reference fig/doc: - B3
HVAC maintenance and calibration records, testing and balancing reports. When was the duct system tested for leakage last?	Yes, St. Xavier College performs annual maintenance of the air conditioning system, which includes air filter cleaning, inspection of cooling pipes and condensation, checking electric wires, cleaning the blower, and cleaning the compressor. The last maintenance was conducted on "8/5/2023". Furthermore, no written evidence was found indicating that the duct system underwent a leakage test. Reference fig/doc: - B4
DG set stack emission test as per CPCB norms.	The DG sets present in the case of St. Xavier have an Annual Maintenance Contract (AMC) conducted by a third party, wherein only general checks are performed, neglecting parameters related to noise and pollution. The DG set emission test is conducted by the CDG group, revealing the following levels: Air pollution: 056 PM2.5: 142 ug/m^3 Maximum sound level: 84.4 Minimum sound level: 80.4 Reference fig/Doc: - B1, B2

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Additionally, there is uncertainty regarding the last testing for duct system leakage, compromising the effectiveness of the ventilation system and energy efficiency.

In-Door Air Quality (Checks, methods, tests & practices to ens	ure indoor air quality)
Does the organization test indoor air quality? Details of last indoor air quality test done.	The organization does not conduct indoor air quality tests. Instead, the Indoor air quality test was performed by CDG Inspection Pvt Ltd at various locations within the college, including the laboratory, lecture room, seminar room, and classroom. The air quality values for the seminar hall, laboratory, and reading room were found to be 56, while in the library, it was measured at 60. Reference fig/doc: C4, C5, C6, C7
Is there a proper system of exhaust of indoor air?	Yes, there is a proper system for indoor air exhaust. Air can be expelled as needed through the windows, and exhaust fans are installed in various locations to facilitate effective air ventilation. Reference fig/doc: - C3
 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? Is there a defined procedure available for disposal of used substances? 	 Yes, material safety data sheets (MSDS) are available for various types of supplies used in the Chemistry, Biology, and Botany labs. The chemical list includes MSDS information, and an example of the MSDS for ethanol is provided. Reference fig/doc: - C1 Yes, the storage areas are properly separated and ventilated. The chemicals are stored in closed chambers made of wood and glass, secured with a lock and key arrangement. Reference fig/doc: - C10 During the audit, changes to safer alternatives for the chemicals used are not feasible due to constraints imposed by the curriculum. During the audit, changes to safer alternatives for the chemicals used are not feasible due to constraints imposed by the curriculum. During the audit, changes to safer alternatives for the chemicals used are not feasible due to constraints imposed by the curriculum. During the audit, changes to safer alternatives for the chemicals used are not feasible due to constraints imposed by the curriculum. However, it's important to note that a disposal policy is in place. Reference fig/doc:- C13 There is a procedure for the disposal of used substances involving methods such as acid and base neutralization. However, it was observed that they are physically collecting substances
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	in a separate bucket and subsequently arranging for proper disposal, following the established rules for the process. Reference fig/doc: - C8, C9, C13
General Cleanliness:	
 Are rooms dusted and vacuumed thoroughly and regularly? What are related checks & controls? Does the organization ensure to use of environment-friendly, nonscented cleaning products? 	 Yes, the rooms are thoroughly and regularly dusted and vacuumed. However, the related checks and controls for the rooms are also documented. Reference fig/doc: - C11, C12 No written evidence was found during the audit to ensure the use of environmentally friendly, non-scented cleaning products.
Pest control methods & products used (check & control).	No written evidence was found during the audit regarding the pest control methods and the products used.
Does the organization ensure use of low emitting paints, coatings, furniture etc.? What are related checks & controls?	The organization is dedicated to using low-emitting paint, coating, and furniture. The institute has provided a policy outlining how they will progress toward achieving this commitment. Reference fig/doc: - C14
Is there any sign of mold infestation?	During the audit, there were no signs of any mold infestation in the organization.
Does the organization eliminate any bird or animal nests or droppings near outdoor air? intakes?	No, the organization does not remove bird or animal nests or droppings near outdoor air intakes.
What are the methods adopted by the organization to control/prevent dust within the buildings?	Yes, the methods adopted by the organization to control/prevent dust within the building include regular dusting and keeping the windows and doors closed whenever the facility is not in use. Reference fig/doc: - C2
nelated records / intages	

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Green Audit / Environmental Inspection ty Data Sheet. Inig la Republico (202 No. 1987/2006 1993 Di Augulation (202 No. 2002/178 # 55 133999 - Ethanal platialate/Sitres ex-ryss strates Settin D E H I H station and vit-lift forgelennetit.le The collaboration or mention according to Regulation (RE) no 1272/2008 [CAP my to Real UP/EXT C2: closed windows and door for the prevention C1: Material safety data sheet of dust Exhaust in Staff Room Exhaust in Students Washroom Exhaust in Lab Outside C3: exhaust air disposal photo of windows and door

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C12: Clean classroom checklist	C13: Written Chemical waste disposal method
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VOC paints in the organization.	

Non conformity: -

- 1. The organization neglects the use of eco-friendly, non-scented cleaning products, compromising its commitment to a sustainable and healthy environment.
- 2. Insufficient checks and controls on pest control methods and products, posing potential environmental risks.

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WATER POLLUTION

Source of water pollution within the					
premises.	There is no source of the water pollution within				
	the premises of the college.				
Measures taken to prevent / stop water wastage.	Measures taken to prevent/stop water wastage include posters addressing water wastage, organizing seminars on water conservation, and promoting awareness through skit performances. Reference fig/doc: - D4_D5				
Does the institute harvest rainwater? Give details.	Yes, the institute harvests rainwater in a tank with a capacity of 1,800,000 liters, situated in the middle of the campus. This harvested water is utilized for irrigation and watering plants. Reference fig/doc: - D3, D2				
Is there any water recycling system? Give details.	During the audit, no evidence was found for water recycling practices in the college, except for rainwater harvesting. Reference fig/doc: - D3, D2				
Is there any effluent treatment plant in premises? No. of outlets for discharge of effluent?	Not available				
What is the quality of effluent in KLD?	Not available				
Whether operating STP/ETP satisfactorily?	Not available				
Whether provided flow meters on outlet & inlet of ETP/STP?	Not available				
Whether provided separate electricity meter on ETP/STP?	Not available				
Whether maintained Logbook for consumption of Electricity/ Chemicals/Quantity of effluent?	Not available				
	Not Available				
Detail of land in case effluent is discharged for percolation/ irrigation purpose with justification for its 100% utilization.	Not Available				
Status of ZLD (Zero Liquid Discharge) as per CPCB	Not available				
Locate the point of entry of water and point of exit of waste water in the organization.	The point of entry of the water is the bore well and the point of exit of the water is the from the closed sewer system in the organization. Reference fig/doc: - D1				

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Green Audit / Environmental Inspection Related records / images D2: Rainwater harvesting unit in the college D1: Point of entry of water in the organization premises D3: Rain water harvesting D4: Community teaching about the water conservation D5: water conservation poster

Nonconformity: -

The organization has not established an Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP) as required.

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Water Consumption & Water Efficiency Use of water (indoor and outdoor water) & p	practices related to efficient /reduced use of water.)
Sources of water supply	The source of the water supply in the St. Xavier college is 5 borewell.
Number of water storage tanks and their storage capacity. Total water storage capacity.	4 storage tank of capacity 25000 liters. The total water storage capacity is 100000litres
Water used in irrigation	180000litres
Water used in cleaning	500 liters

Details	No. of persons	Domestic (liter/ day)	Flushing (liter / day)	Total (liter / day)
Students	2264	1x2264=2264	40x2264=90560	92824 L
Teaching Staff	43	1.5x43=65	40x43=1720	1785 L
Technical Staff	11	1.5x11=17	40x11=440	457 L
Non-technical Staff	37	2x37=74	40x37=1480	1554 L
Outsourced Staff	6	0.5x2=1.0	2x37=74	75L
Total	2361	2421	94274	96695

the state of the second state	
Without boarding facility: 45 liter per head / day With boarding facility: 135 liter per head / day	Without boarding facility: 40.955 liter per head/day
	per head / day With boarding facility: 135 liter per head / day

educational institute for drinking and domestic use.

SANITARY CONVENIENCE TO BE PROVIDED

Fitments	Educational Institutes (non- Residential)		Educational Institutes (Residential)					
	Boys		Girls		Boys		Girls	
	Req.*	Actual	Req. *	Actual	Req. *	Actual	Req.	Actual
Water closets	1 per 40 pupils or part thereof	38	1 per 25 pupils or part thereof	45	1 for every 8 pupils or part thereof		1 for every 6 pupils or part thereof	
Ablution taps	1 in each water closet	113	1 in each water closet	95	1 in each water closet		1 in each water closet	

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Urinals	1 per 20 pupils	43	-	- 0	1 for every 25 pupils or part thereof		
Wash basins	1 per 60 pupils, Min 2	37	1 per 40 pupils, Min 2	38	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof	
Bath	-	-		-	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof	
Drinking water fountains or taps	1 for every 50 pupils or part thereof	24	1 for every 50 pupils or part thereof	24	1 for every 50 pupils or part thereof	1 for every 50 pupils or part thereof	
Cleaner's sinks	1 p	er floor, n	ninimum	1000			

*As per IS 1172:1993

NOISE POLLUTION

Noise Pollution Management (objective, practices / methods to minimize noise pollution) The noise level testing for St. Xavier College was conducted by CDG Inspection Ltd. The average sound range recorded during daytime was a maximum of 64.75 dB and a minimum of 58.97 db.

Noise level in dB(A) Leq	Standard Level*	Actual Level
Day Time	50	Max 64.75 and min 58.97
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

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Building Susta	inability		
Ensure that walls, floors, roofs, and windows are as energy efficient as possible.		The walls, roof, floor, and windows an designed to be as energy-efficient as The organization strategically located building in an area with ample sunligh	re possible. the nt.
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	Additionally, curtains in the rooms are utilized to regulate heat and enhance energy efficiency. Reference fig/doc: - F2, F4
Design for good indoor air quality	Yes, the building is designed to ensure good indoor air quality. Various rooms have doors and windows that can be opened and closed. Additionally, fans and indoor exhaust fans are installed. Furthermore, the college is surrounded by lush greenery, further supporting a healthy environment. Reference fig/doc: - F1, F3
Use of natural daylight in building interiors as a source of ambient light.	Yes, the college utilizes natural daylight as a source of ambient light for its operations. Reference fig/doc: - F1
Use of low emitting materials for building modifications, maintenance, and cleaning.	The organization is committed to the use of low-emitting materials for building modification, maintenance, and cleaning. This commitment is defined through the institute's policy, which they will communicate to individuals involved in purchasing paints known for low emissions. Reference fig/doc: - F5



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Lighting	
Use of energy efficient lighting system (bulb & other products)	Yes, St. Xavier College utilizes an energy- efficient lighting system, incorporating LED bulbs and sensor technology for LED operation, as well as fans and HVAC systems. Reference fig/doc: - G2
Use of natural day light	Yes, the college utilizes natural daylight as the ambient light source for its daily activities.

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ILLUMINATION LEVELS AND GLARE INDEX

Sr.	Area	Standard	Standard	Actual	Actual
No.		Illumination (Lux)*	Glare Index*	Illumination	Glare
				(Lux)	Index
a)	Classrooms	300	16	356	
b)	Lecture rooms (including	300	16	283	
	demonstration areas)	Sec. Sec.	C		
c)	Reading rooms	150 to 300	19	371	
d)	Laboratories	300	16	237	
e)	Corridors	70	-	143	
f)	Libraries	300	16	238	
g)	Auditorium			229	
	I. Hall	70	-		
	ll. Foyer	70	1-		
	III. Stage area	300	16		
h)	Gymnasiums	150	-	15000	
j)	Cafeterias	100	-	335	
К)	Staff rooms	150	-	628	

* 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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Green Audit / E	nvironmental inspection
LX1010B	
SIGMA OFFE	
ISO x100 Lux	
H5: Corridor lighting in lumens	

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Electrical Equipment's	
Details of electrical equipment, its energy efficiency & practices	The institute employs energy-efficient electrical equipment, including sensor-based LED lights, 3-star rated air conditioners, fans, monitors, CPUs, and other necessary devices connected to the electrical panel. However, the institute cannot ascertain the energy efficiency as no written evidence was found.

ELECTRICITY CONSUMPTION

Month	Electricity Consumption (Last 6 months)	
July- 2023	12170	
August -2023	54477	_
September -2023	74764	
October -2023	56846.5	
November -2023	12272.5	
December -2023	10876	

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Energy Efficiency (consumption, objective, practices / m	ethods to achieve energy	efficiency objectives)
Current energy uses.	Energy Sources	Consumption (Unit)
	Electricity	36,901Unit/ month
		(Average)
	Fuel oil	Not available
Short-term energy efficiency goals & roadmap to achieve those goals.	The short-term energy efficiency goals for St. Xavier College encompass several areas, including the installation of sensor-based LED lights, utilization of 5- star rated equipment, and incorporation of biofertilizers for biodegradable products. The college outlines its approach for assessment, procurement, installation, and monitoring of the implemented goals. Reference Fig/Doc: - J1	
Long-term energy efficiency goals & roadmap to achieve those goals.	The long-term energy efficiency goals that St. Xavier College aims to achieve include net-zero emissions, adoption of renewable energy, electrification of transportation, and deployment of energy storage. To accomplish these goals, the college plans to establish energy baselines, set targets, provide education to	

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institute students, teachers, staff, and the surrounding
community.
Reference fig/Doc: - J2, J3



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On-Site Energy Generation

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

The college, situated in Jaipur, has successfully implemented a sustainable initiative with a 300 KW solar rooftop power plant. Operating at its maximum capacity, the campus optimally utilizes clean solar energy, emphasizing environmental responsibility and minimizing carbon footprints. In comparison to traditional methods, where 1.0 unit of electricity production consumes 0.69-0.89 kg of coal and emits 2.0 kg of CO2, this solar facility significantly reduces pollution. With a total of 560 panels, the college's commitment to eco-friendly practices extends to Operations and Maintenance (O & M) services, ensuring the ongoing efficiency and longevity of this green energy solution.

Reference fig/doc: - K1, K2

Related records / images



DRINKING WATER

Drinking Water Quality

(As per IS 10500: 2012)

The institute conducted a drinking water test through an external lab on 10/01/2024. Various factors, including E. coli levels, sodium, potassium, pH, turbidity, etc., were assessed in the thirdparty test, and all quantities were found to be within acceptable limits. Additionally, CDG Inspection conducted a pH test, revealing a pH level of 7.52, within the normal range for water. Reference fig/doc: - L1, L2

Related records / images

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	INTERPORT
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ection Ltd	Vibrant techno lab put ltd

WASTE MANAGEMENT

Type of waste - Plastic waste

Approximate annual quantity- 240Kg

Source of waste - Wrapper from chocolate, plastic pack foods, tetra packs etc.

Handling methods: segregation of waste and then its collected Jaipur municipal collection

Measures to reduce the waste quantity- They have displayed posters advocating the ban on single-use plastic and actively educate people about the initiative.

Type of waste – Paper waste

Approximate annual quantity- 100Kg/year

Source of waste – Paper, tetra pack, collection of the test copy and test paper, files from the practical etc.

Handling methods- the paper waste is collected and segregated and then it is disposed of in accordance with the rules that the institute need to follow.

Measures to reduce the waste quantity- Enhanced governance practices at St. Xavier College involve a shift towards paperless operations. Notices are prominently displayed through electronic means, utilizing emails, ERP, and instant messaging. The option of an e-library is

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available, promoting digital resources. Online attendance tracking is implemented as part of initiatives to minimize paper consumption.

Type of waste - Electronic waste

Approximate annual quantity- 10 Kg

Source of waste - computer, UPS, keyboard mouse, CCTV camera, Hard drive

Handling methods- e-waste collection is done through the separate bin then they are kept in a separate area.

Measures to reduce the waste quantity- Not available. Type of waste – Hazardous waste

Approximate annual quantity- 2kg

Source of waste - chemical lab waste,

Handling methods- they are stored in the different container

Measures to reduce the waste quantity- not available

Type of waste - Garden waste

Approximate annual quantity- 600 Kg

Source of waste - grasses cut, dead leaf, twigs, branches

Handling methods- collect it, reuse, recycle for compost

Measures to reduce the waste quantity- Converting garden waste into manure is achieved through the utilization of a compost machine, effectively reducing the overall waste volume.

Type of waste – Food waste

Approximate annual quantity- 126kg

Source of waste – canteen

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Handling methods- compost, consumption by cows, and the canteen people are responsible for the handling the food waste

Measures to reduce the waste quantity- Implementing measures to minimize waste quantity includes raising awareness, establishing guidelines, and displaying posters specifically addressing food waste.



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Gree	n Audit /	Environmental	Inspection	
Say no to plastic poster				

Nonconformity: -

Lack of written documentation for waste collection records, including measurements for liquid and dry waste.

COMPOSTING PLANT

How much organic waste is generated in a day? What type of organic waste is generated?	1 kg/day of organic waste is generated daily, consisting of grass, twigs, paper, and food waste.
Details & capacity of compost plan installed in	The organization has installed a 400-liter
the organization.	composting machine, and a vermicompost
	plant is also operational on the premises.
	Reference fig/doc: - N1, N2
Details of composting method used	It involves pulverizing and breaking down
	compost into smaller pieces. The
	vermicomposting method, utilizing
	earthworms, is employed for efficient
	decomposition.
Compost facility maintenance & inspection plan	During the audit, no evidence was found for the
	facility maintenance plan and inspection plan.

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Nonconformity: -

Absence of evidence for the facility maintenance and inspection plan for composting at St. Xavier College.

RAINWATER HARVESTING

Provide details of the rainwater harvesting facility.	Rainwater harvested from sophisticated systems within the building is directed into a 1,800,000-liter unit with a 15-meter radius, serving as a primary reservoir. This capacity enables efficient storage for campus needs, emergency supply during water scarcity, and sustainable usage for irrigation and non- potable purposes, reducing reliance on external sources and promoting environmental sustainability. Reference fig/doc: - O2
Rainwater harvesting system maintenance plan	Rainwater system maintenance is conducted at the college. The last maintenance of the rainwater harvesting unit was performed three times in May 2023, July 2023, and October 2023, representing the start, middle, and end of the rainy season. It also includes a checklist documenting the events carried out. Reference fig/doc: - 01, 03

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Nonconformity: -

Absence of a written Rainwater Harvesting System maintenance plan, though maintenance was physically conducted.

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Training	
Has the organization provided waste management/handling training to concerned employees? Give details.	Yes, the organization provided waste management/handling training to the concerned employees. The training covered organic waste. However, during the audit, individuals were observed participating in waste segregation Reference fig/doc: - P1, P3
Has the organization provided training for energy saving?	No written evidence found in the organization for the energy saving training
Has the organization conducted training for solid waste management?	Yes, the organization conducted training for solid waste management, specifically focusing on organic waste. Reference fig/doc: - P1, P3
Has the organization conducted awareness training for water saving?	Yes, the organization conducted awareness training for water conservation through street skits, community education sessions, water- saving training, and display of water conservation posters within the organization. Additionally, sensors are utilized to prevent water overflow in storage tanks. Reference fig/doc: - P2, P4



P1: Organic compost training for the student



P3: Waste management training given to the employees

P2: Street playing the water saving.



P4: Water sensor in the tank.

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Nonconformity: -

The organization lacks documented evidence of training sessions for energy-saving at St. Xavier College.

Environmental Practices	
Waste recycling	Yes, there is a waste recycling system in place with a composting plant. Waste is segregated into different types using designated bins. Reference fig/doc: - R2
Waste Decomposition	Yes, waste decomposition is implemented through a vermicompost pit, and a compost plant is utilized for this purpose. Reference fig/doc: - R4
Rainwater harvesting	Yes, the institution has a rainwater harvesting system with a capacity of 1,800,000 liters, and it undergoes regular maintenance. Reference fig/doc: - R1
Environmentally Preferable Purchasing (EPP) or Green Purchasing	Yes, the institution follows EPP, especially with LED bulbs. The college promotes solar energy, encourages teachers to use electric vehicles, and ensures the use of fans with good certification.
Distinct receptacles for trash and recycling	Yes, the institution has various types of dustbins designated for specific waste categories, including chemicals, plastic waste, and e-waste. Reference fig/doc: - R2
Low-emission transportation	The teacher commutes to the college using an electric vehicle and participates in carpooling. Reference fig/doc: - R3
maximum use of clean energy	Yes, the college harnesses sunlight and utilizes electricity generated from solar energy.
Preference to electronics over the paper	Yes, there is an 80% preference for electronic over paper usage in the college.
Campus garden	Yes, the college has a campus garden featuring various varieties of semi-arid and thorn plants native to the area where the institution is located.

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Environmental Initiatives / Green Initiatives

The green initiatives undertaken by St. Xavier College include the establishment of a solar power plant, displaying Sustainable Development Goals (SDGs) for environmental initiatives, showcasing library facilities, setting up a vermicompost pit, a compost plant, and an incinerator on campus.

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Plant-related information is accessible through QR codes scanned with a phone. The college practices rainwater harvesting, collecting 1,800,000 liters for later irrigation. Community involvement is emphasized through monitoring of the National Green Corps (NGC) and National Service Scheme (NSS), overseen by the principal, IQAC, and teachers. Regular reports are requested and published in newsletters.



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