



Environment Audit Report
Dyal Singh College, Karnal
Haryana
Year 2022-24



ENVIRONMENT AUDIT REPORT CONSULTATION



DYAL SINGH COLLEGE
KARNAL-132001, HARYANA



Environment Audit Report
Dyal Singh College, Karnal
Haryana
Year 2022-24



ENVIRONMENT AUDIT REPORT CONSULTATION



DYAL SINGH COLLEGE
KARNAL-132001, HARYANA

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ACKNOWLEDGEMENT

We would like to extend our heartfelt gratitude to the Principal **Dr. Ashima Gakhar**, advisors of the Environment Audit staff Advisors: Sh Sushil Kumar and Dr. Ritu Sharma for their invaluable guidance and support throughout the process of conducting this audit. Their expertise, insights, and dedication have been instrumental in shaping the direction of our efforts and ensuring the quality of our work.

We also wish to express our sincere appreciation to all faculties and technical staff who generously contributed their time, knowledge, and resources to assist us in collecting the necessary data for the Environment Audit. Their cooperation and collaboration have been essential in gathering the information needed to compile a comprehensive and successful report.

Together, with the collective efforts of our advisors, faculties, and technical staff, we have made significant strides towards promoting environmental sustainability and fostering a culture of responsible stewardship within our organization. Thank you for your unwavering support and commitment to making a positive impact on our environment.

Kapil Gulati

Dr. Kapil Gulati

In-Charge

Environment Audit Committee

Sonal Saluja

Dr. Sonal Saluja

Member

Environment Audit Committee



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GREEN MONITORING COMMITTEE

A committee of the following members has been constituted for the conduction of Energy, Green & Environmental Audit for Academic session 2022-23:

Advisors: Sh Sushil Kumar and Dr. Ritu Sharma

❖ **Green Audit Committee**

Dr. Shweta Yadav

Dr. Suhana Rao

Assisted by Sh. Rakam Singh and Sh. Shiv Kumar

❖ **Energy Audit Committee**

Ms. Nidhi Jast

Dr. Mandeep

Assisted by Sh. Balwant Singh and Sh. Sumit

❖ **Environment Audit Committee**

Dr. Kapil Gulati

Dr. Sonal Saluja

Assisted by Sh. Mohinder and Sh. Dharambir

❖ **E-waste Audit Committee**

Sh. Kiranpal Singh, Associate Professor, Department of Computer Science, GN Khalsa College, Yamuna Nagar, External expert


Dr. Ambika Rani

Dr. Rubi

Sh. Jitender Kumar

Assisted by Sh. Yashpal and Sh. Parveen Kumar

The committees shall submit audit reports to the undersigned. In addition to the above Sh. Azad Singh (Offg. Deputy Supdt.) and Sh. Praveen Kumar (Clerk) will be responsible to provide all the required details and documents to the committees as and when required.


02.02.24
Principal
Dyal Singh College
KARNAL



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EXECUTIVE SUMMARY

The executive summary of the environment audit report furnished in this section briefly gives the identified water conservation measures that can be implemented in a phased manner to water conservation and increase the productivity of the college.

Initiative for Environment Management Taken by College

- **RAINWATER HARVESTING SYSTEM**

College has installed "Rainwater Harvesting System" in college campus for maintaining ground water level. This system harvest about 70 to 80 % of roof top rain water of the project building. It's Appreciable.

- **DRIP WATER IRRIGATION SYSTEM**

College has Used drip water irrigation system for trees and plant. It's Appreciable.

- **USE EFFICIENT WATER TAPS**

College has used efficient water taps in washroom and toilets. It's Appreciable.

- **WATER OVERFLOW SENSOR IN TANKS**

College has used water overflow sensor in overhead tanks to avoid water overflow. It's Appreciable.

- **WASTE WATER USAGE**

College has used RO rejected water drain is being collected in separate tank and utilizing in toilets and washroom purpose. It's Appreciable!

ENVIRONMENT AUDIT RECOMMENDATION

- **FRESH WATER MONITORING SYSTEM**

- Installation of "Cloud based (IoT based) ground water extraction monitoring system" for well to quantify fresh water consumption per day in the college.
- Install water flow meters (Mechanical or Electronics) in distribution network, for determine fresh water consumption per day in the college campus.



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- **WASTE WATER TREATMENT PLANT**

There is requirement to install Sewerage Treatment Plant (STP) for waste water generated from various activities where water is use in the campus.

- **USE EFFICIENT URINAL TAPS**

- Replacing these inefficient fixtures with water sense labelled flushing urinal can save 0.5 to 04 litres per flush without sacrificing performance. Installing water saving flushing urinal will not only reduce water use in facilities but also save water pumping cost on water bills.



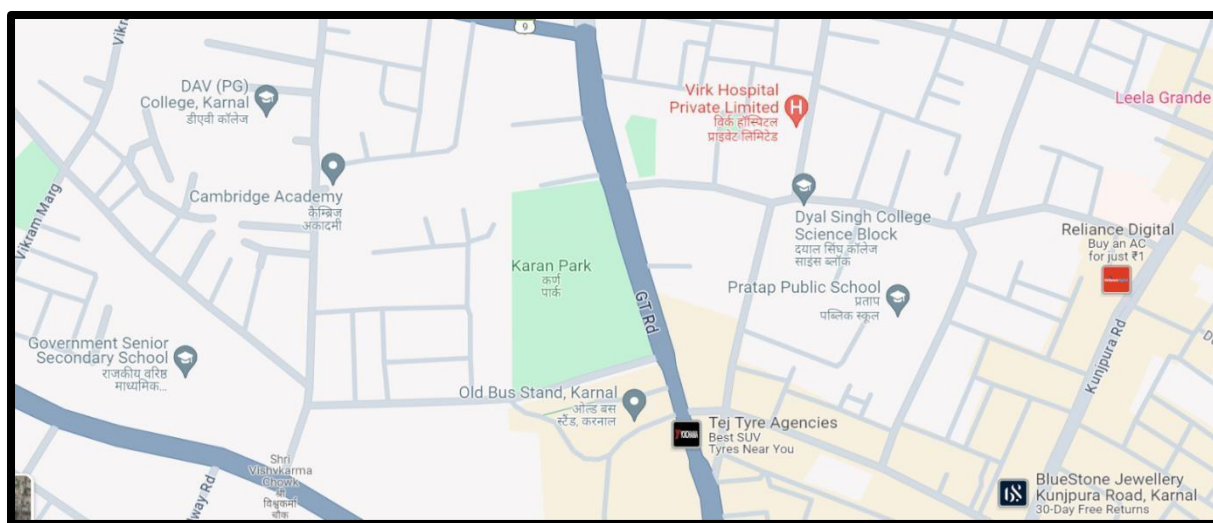
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CHAPTER-1



INTRODUCTION

1.1 About College

Dyal Singh College, Karnal, as it stands today, is a premier co-educational centre of learning of Northern India. With strength of 3152 students, the college has all the three streams of learning - Arts, Science and Commerce, with Post Graduate courses in English, Hindi, Political Science, Commerce and Chemistry, along with the add-on and vocational courses. The college also offers a 5-year Integrated Course M.Sc. Forensic Science under innovative programme sponsored by the UGC. The college is making progress under the esteemed guidance of Shri D.K. Raina - an embodiment of rare wisdom, learning and love for academia-President, Dyal Singh College Governing Body, and the dynamic leadership of Vice Admiral (Retd.) Satish Soni, PVSM, AVSM, NM, a man of letters with administrative acumen, who holds the office of the General Secretary. This unique centre of teaching and learning completed hundred years and more than a decade of its birth and turned into a century-old Fortress of Learning and Education as well as maintaining the tradition of Spirituality and Scientific temper in a world of diminishing human values inculcating in young minds, a harmonious blend of the "Wisdom of the East and West". To quote our honourable Ex-President., Dewan Gajendra Kumar," The lead word in our motto is Wisdom and Morality and Ethics are not far behind." True the Will of our Illustrious Founder, Late Sardar Dyal Singh Majithia, the path of Wisdom, Morality and Ethics has been the kindling force all along.



Satellite Image of Dyal Singh College, Karnal



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Vision

Excellence is a journey, not an end.

Mission

1. To create top quality human resource by developing the innate talent of our students.
2. To provide conducive environment for holistic development of personality and improve the overall academic performance.
3. To inculcate the spirit of Secularism, Nationalism, Communal Harmony & Rationalism.
4. To inculcate discipline as a value system and motivate youth to render service to the society at large.

College Build-up Area

The total build-up area given in the table:

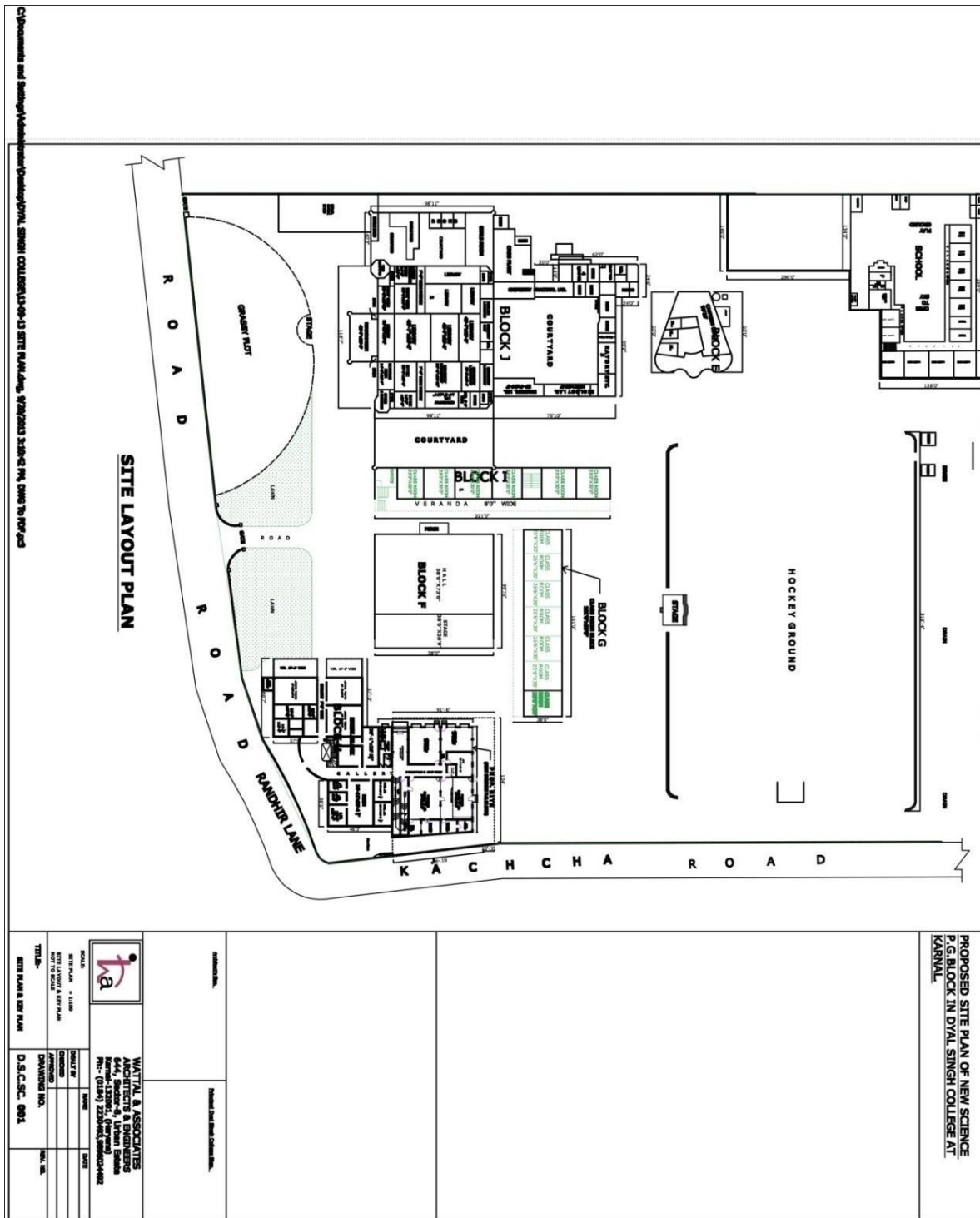
Area Type	Area in sq. mts.
Campus Area	32374.85
Built-up Area	13310.53



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Layout of college campus:





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1.2 About Environment Auditing

Water audits can be a highly valuable tool for institute in a wide range of ways to improve their energy, environment and economic performance while reducing wastages and operating costs. Water audits provide a basis for calculating the economic benefits of water conservation projects by establishing the current rates of water use and their associated cost.

1.3 Objectives of Environment Audit

The general objective of water audit is to prepare a baseline report on water conservation measures to mitigate consumption, improve quality and sustainable practices.

The specific objectives are:

- To monitor the water consumption and water conservation practices.
- To assess the quantity of water, usage, quantity of waste water generation and the irreduction within the college.

1.4 Target Areas of Environment audit

This indicator addresses water sources, water consumption, irrigation, storm water, appliances and fixtures aquifer depletion and water contamination are taking place atunprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices.



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1.5 Methodology followed for conducting Environment audit

Step 1: Walk through survey

- Understanding of existing water sourcing, storage and distribution facility.
- Assessing the water demand and water consumption areas/processes.
- Preparation of detailed water circuit diagram.

Step 2: Secondary Data Collection

- Analyse historic water use and wastewater generation
- Field measurements for estimating current water use
- Metered & unmetered supplies.
- Understanding of "base" flow and usage trend at site
- Past water bills
- Wastewater treatment scheme & costs etc.

Step 3: Site Environment Audit Planning (based on site operations and practices)

- Preparation of water flow diagram to quantify water use at various locations
- Wastewater flow measurement and sampling plan

Step 4: Conduction of Detailed Environment Audit& Measurements

- Conduction of field measurements to quantify water/wastewater streams
- Power measurement of pumps/motors
- Preparation of water balance diagram
- Establishing water consumption pattern
- Detection of potential leaks & water losses in the system
- Assessment of productive and unproductive usage of water
- Determine key opportunities for water consumption reduction, reuse & recycle.

Step 5: Preparation of Environment Audit Report

- Documentation of collected & analysed water balancing and measurement details
- Projects and procedures to maximize water savings and minimize water losses.
- Opportunities for water conservation based on reduce/recycle/reuse and recharge Option.

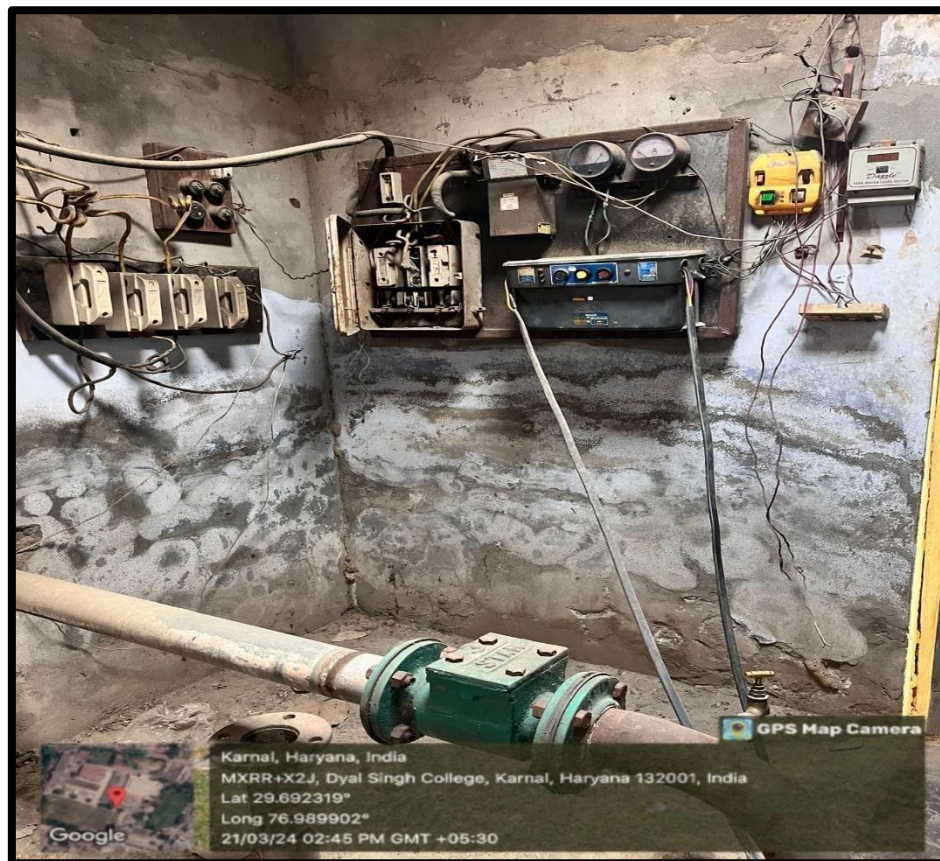


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2.3 Water Accounting & Metering System

It was observed that there is a complete circuit of water flow meters on bore wells to quantify ground water extraction per day.



Observations:-

Water Audit team observed that there are water meter on bore wells to quantify of fresh water consumption per day. **It's Appreciable!**



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2.4 Water Storage Capacity in College Campus

There is different type of tank available in college for water storage like, RCC tank and PVC tanks.

Table 2.4: Water storage tank in college campus

Sr. No.	Location	No. of Tanks	Tank Capacity	Material
1	Science Building	1	40,000 Ltr.	RCC
2	Canteen	1	20,000 Ltr.	RCC
3	Staff Colony	1	15,000 Ltr.	RCC
4	Commerce Room	1	10,000 Ltr.	RCC
5	Commerce Block	1	10,000 Ltr.	RCC
6	Girls Common Room	7	7 x 750 Ltr.	Syntax
7	Guest Room	1	750 Ltr.	Syntax
8	Admin Block	1	750 Ltr.	Syntax
9	Arts Block	1	1000 Ltr.	Syntax
10	New Building	1	1000 Ltr.	Syntax

Photograph of water storage tank:





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2.5 Fresh Water distribution layout of college

Audit team study the water sources and prepared water distribution flow diagram in college campus.

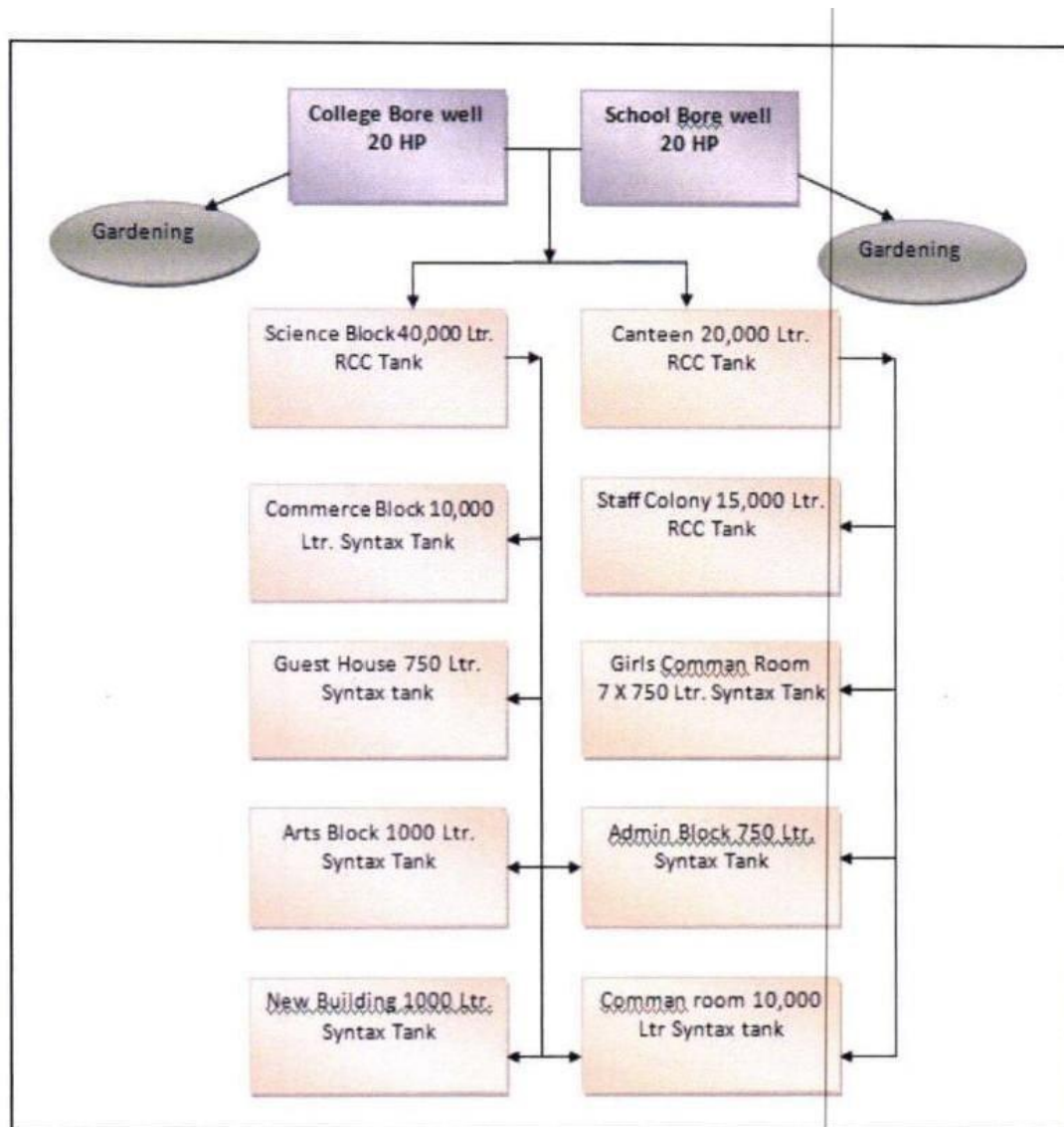


Fig - 2.5 Layout of college Water distribution



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2.6 Water use areas in college campus

Water is preliminary used for drinking, domestic, gardening and lab activity. Audit team visited various departments and buildings to determine water equipment's. The details of washroom, toilet and taps are given in table

Table: 2.6 Details of washroom and uses taps in various areas

Sr. No.	Location	Urinals	Taps	Toilets	Hand Wash
1	In All College	46	96	48	44



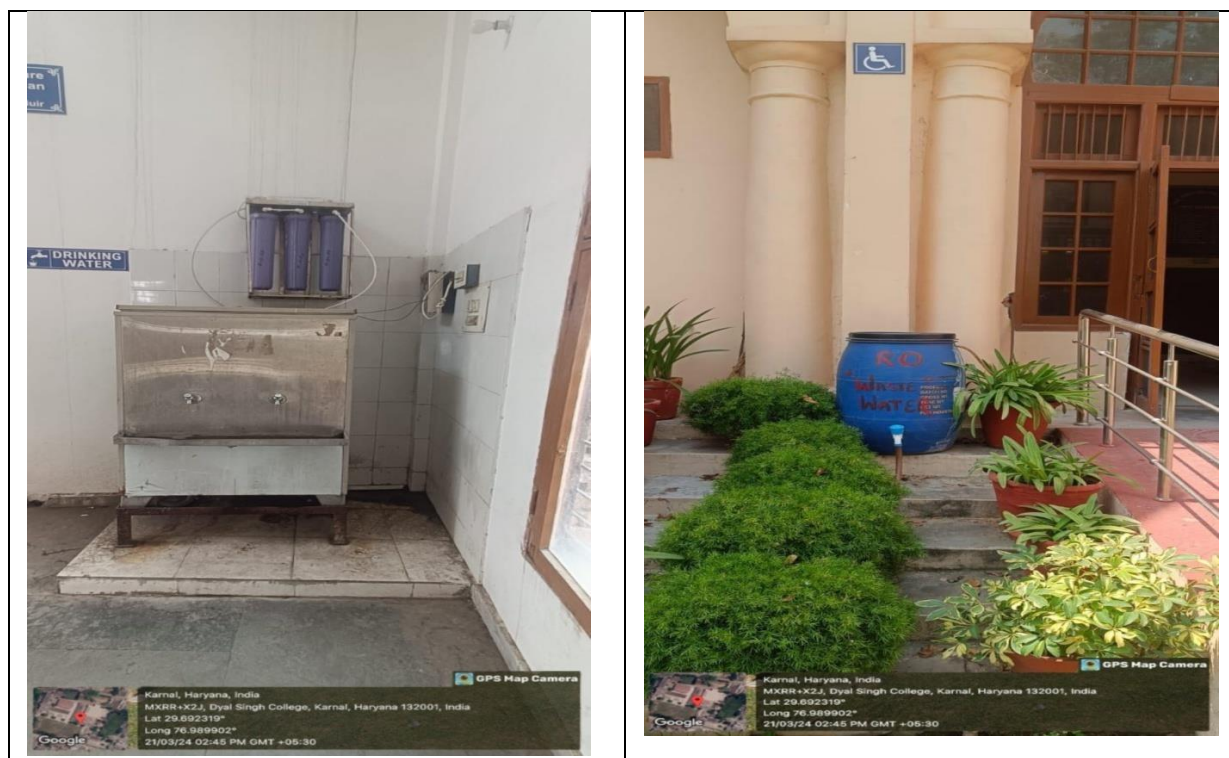
Observation: -

There is requirement to install Sewerage Treatment Plant (STP) for waste water generated from daily activities in the campus. All waste water generated from drinking, washing etc. activity is collected in separate tank and it should be treated in propose STP Plant.

2.7 Details of water cooler in college campus

Table: 2.7 Details of water cooler in college campus

Sr. No.	Location	No. Of Water Cooler
1	Main Gate	1
2	Girls Common Room	1
3	Canteen	1
4	Science Block	1
5	Near Auditorium	1
6	Commerce Block	1
7	Staff Room	1
Total		7



Observations:-

- It is observed that RO rejected water drain is being collected in separate tank and utilizing in toilets and washroom purpose. It's Appreciable!

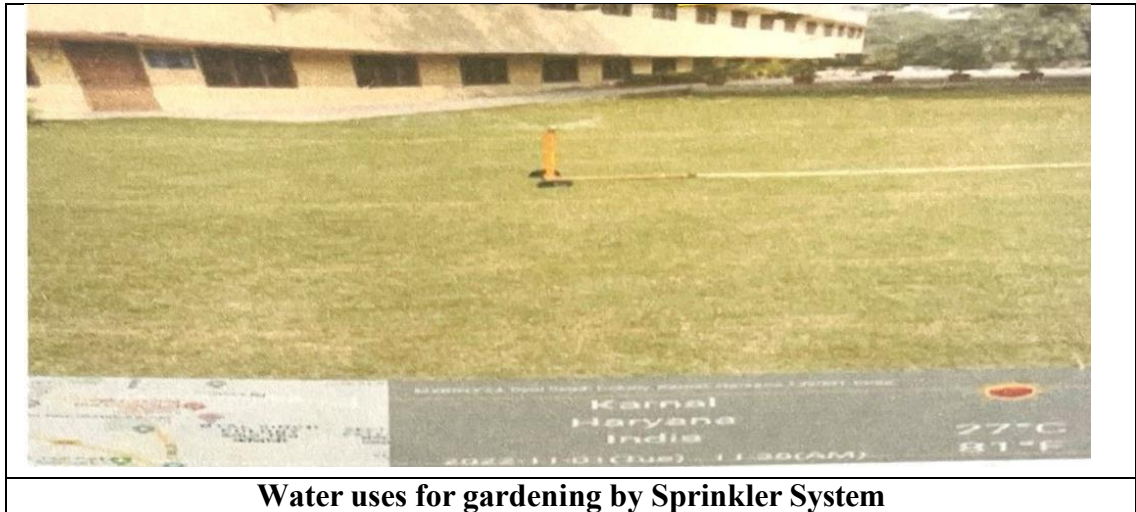


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2.8 Fresh water uses for gardening:

College has installed water sprinkler system for lawn area. It's Appreciable



Water uses for gardening by Sprinkler System

The one of major contribution of fresh water consumption is watering for plants and gardening in college campus. There is good potential for water saving by adopts "Automatic Watering 360 adjustable misting nozzle irrigation Dripper's system" for plants. Adjustable depending on the water drip irrigation tools to provide different amounts of water requirements of different plants. The drip speed can be set as for indoor and outdoor plants.



Adjustable Misting Nozzle Irrigation Drillers and Water timer

2.9 Waste Water Generation sources: -

At present waste water generated from various departments' canteen, and clinical activity like washrooms, hand wash and RO rejected etc.

Sr. No.	Location	Type Of Water Used	Water Consuming Activities
1	Admin Block	Fresh Water	Drinking and other uses
2	Arts Block	Fresh Water	Drinking and other uses
3	Auditorium	Fresh Water	Drinking and other uses
4	Science Building	Fresh Water	Drinking and other uses
5	Canteen	Fresh Water	Drinking, domestic and other activities
6	Ground + Other	Fresh Water	For Gardening Purpose





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2.10 Water Quality Test Report

Raw Water & Drinking Water Quality tested report:

KAY ESS WATER SOLUTIONS
49 Mugal Canal Karnal Phone No. 9468121125

GSTIN NO 06AUUPA5811B1ZZ

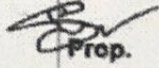
DATE - 3/11/2022

REPORT

TO
DYAL SINGH COL.
KARNAL

Checked RO water + Raw water
ON 2/11/2022

RO water TDS - 100 PPM
Raw water TDS - 350 PPM
PH of RO water - 8

For KAY ESS WATER SOLUTIONS

Prop.



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No. DSC/.....

Dated: 07/02/2024

Water Quality Test Report

The Environment Audit Team conducted water quality tests on various samples from Dyal Singh College, Karnal. Their analysis assessed key parameters such as pH and Total Dissolved Solids (TDS) levels and documented the findings as follows.

1. RO water Sample TDS: 102 PPM
2. Raw water sample TDS: 355 PPM
3. pH of RO water: 7.8

Kapil
Gulati
= 07/02/2024

Dr. Kapil Gulati
Incharge
Environment Audit Team



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**CHAPTER- 3
RAIN WATER HARVESTING SYSTEM**



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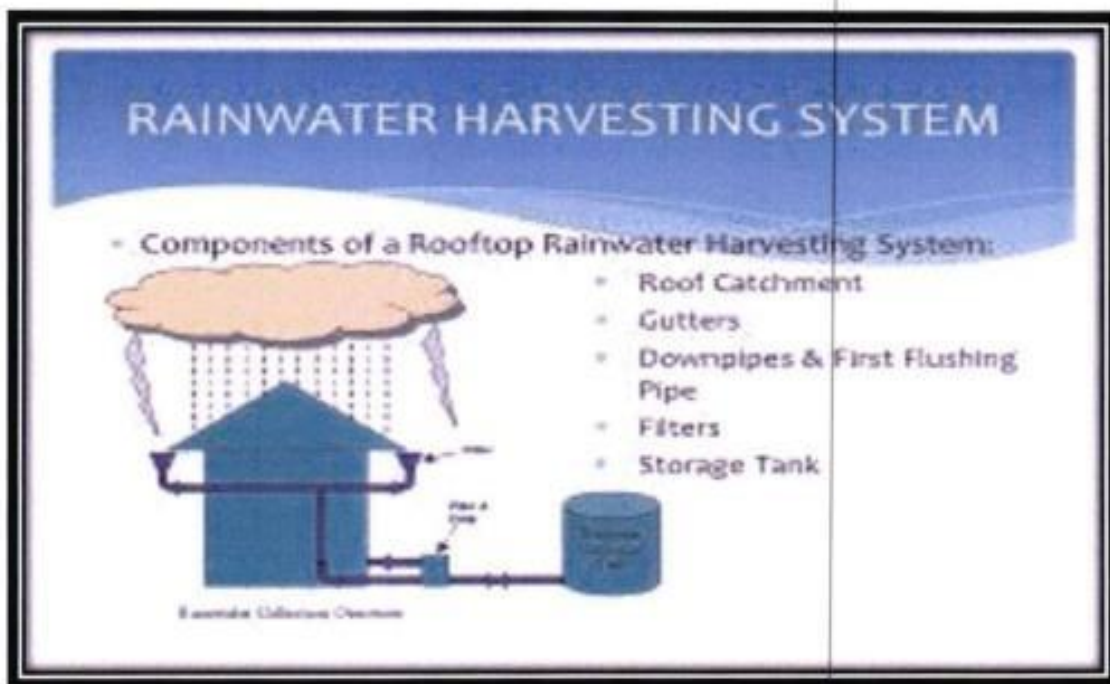


3.1. Rain water harvesting systems

The rainwater harvesting is a technique to capture the rainwater when it precipitates, store that water for direct use or charge the groundwater and use it later. There are typically four components in a rainwater harvesting system:

- Roof Catchment
- Collection
- Transport
- Infiltration or storage tank and use

If rainwater is not harvested and channelized its runoffs quickly and flow out through storm-water drains. For storm-water management the recharge pits, percolation pits and porous trenches are constructed to allow storm water to infiltrate inside the soil.



Components of Rooftop rainwater Harvesting System



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3.2 Rain water Harvesting Potential of the College

Various types of Buildings like Admin Block, Arts Block, Science Block, Commerce Block, Canteen, Auditorium, Common Room etc. Rain Water harvesting Systems are installed. **It is Appreciable.**



Rain water Harvesting System



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NOTICE

28.11.2023

A meeting of the Green / Energy / Environment Audit Committee of the College will be held on 29.11.2023 at 11:00 a.m. in the office of the Principal, Dyal Singh College, Karnal regarding the action plan for the next audit cycle.



Principal

1. Dr Shweta Yadav, Incharge 
2. Dr Suhana Rao 
3. Dr Sonal Saluja 

Minutes of the meeting of the Green / Energy / Environment Audit Committee held on 29.11.2023 at 11:00 a.m. in the office of the Principal, Dyal Singh College, Karnal.

29.11.2023

A meeting of the Green / Energy / Environment Audit Committee of the College was held on 29.11.2023 at 11:00 a.m. in the office of the Principal, Dyal Singh College, Karnal regarding the action plan for the next audit cycle.

The following were present:

Dr Ashima Gakhar, Principal

1. Dr Shweta Yadav, Incharge

2. Dr Suhana Rao

3. Dr Sonal Saluja

A
Shweta Yadav

Suhana

Sonal Saluja

The following points were discussed:

1. The meeting was regarding the action plan for the coming session.
2. It was decided that the committee members will review the Audit Report recommendations and come up with action plans for improvement in the coming session.
3. The committee also decided that at least one of the committee member will attend a workshop or seminar on Green / Energy / Environment Audit.



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ACTION TAKEN REPORT

20.01.2024

As per the discussion in the meeting of the Green / Energy / Environment Audit Committee of the College that was held on 29.11.2023 at 11:00 a.m. in the office of the Principal, Dyal Singh College, Karnal regarding the action plan for the coming session and the minutes of the same dated 29.11.2023 the following actions were taken:

1. The following committee members were assigned to review the Audit report recommendations and come up with action plans for improvement in the next audit cycle.
 - a. Dr Shweta Yadav: Green Audit
 - b. Dr Suhana Rao: Energy Audit
 - c. Dr Sonal Saluja: Environment Audit
2. Dr Shweta Yadav participated in the One Day National Level FDP on “Green Audit and Energy Audit in HEI’s” organized by IOT Academy on December 29, 2023.
3. The video of the above FDP was shared among the other committee members.

**Dr Shweta Yadav Incharge
Green/Energy/Environment
Audit Committee**

NOTICE

01.02.2024

A meeting will be held on 02.02.2024 at 02:00 P.M. in the office of the Principal, Dyal Singh College, Karnal regarding the Green, Energy and Environment Audits of the college.

Bakhar

Principal






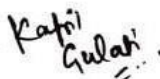
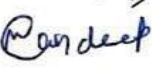
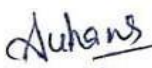

1. Sh. Sushil Kumar, Advisor Sushil
2. Dr Ritu Sharma, Advisor Ritu
3. Ms Nidhi Jast Nidhi
4. Dr Shweta Yadav, Incharge Shweta
5. Dr Kapil Gulati Kapil
6. Dr Mandeep Mandeep
7. Dr Suhana Rao Suhana
8. Dr Sonal Saluja Sonal

DYAL SINGH COLLEGE, KARNAL

ATTENDANCE

A meeting the members of Green, Energy and Environment Audits Committee was held on 02.02.2024 at 02:00 PM in the office of the Principal, Dyal Singh College, Karnal.

The following members were present in the meeting.

1. Dr. Ashima Gakhar, Principal 
2. Sh Sushil Kumar, Advisor 
3. Dr Ritu Sharma, Advisor 
4. Ms Nidhi Jast 
5. Dr Shweta Yadav, Incharge 
6. Dr Kapil Gulati 
7. Dr Mandeep 
8. Dr Suhana Rao 
9. Dr Sonal Saluja 

Minutes of the meeting held on 02.02.2024 at 02:00 P.M. in the office of the Principal, Dyal Singh College, Karnal regarding the Green, Energy and Environment Audits of the college.

02.02.2024

A meeting was held on 02.02.2024 at 02:00 P.M. in the office of the Principal, Dyal Singh College, Karnal regarding the Green, Energy and Environment Audits of the college. The following points were discussed:

1. It was decided that the Green, Energy and Environment Audits of the college will be done internally.
2. The following committees were constituted for the conduction of the respective audits for the Academic session 2023-24:

Advisors: Sh Sushil Kumar *Sushil*

Dr Ritu Sharma *Ritu*

a. Green Audit Committee

Dr Shweta Yadav *Shweta*

Dr Suhana Rao *Suhana*

Assisted by Sh Rakam Singh and Sh Dharambir *Dharambir*

b. Energy Audit Committee

Ms Nidhi Jast *Nidhi*

D. Mandeep *Mandeep*

Assisted by Sh Balwant Singh and Sh Sumit *Sumit*

c. Environment Audit Committee

Dr Kapil Gulati *Kapil Gulati*

Dr Sonal Saluja *Sonal*

Assisted by Sh Shiv Kumar and Sh Mohinder *Mohinder*

d. E-waste Audit Committee

Dr Ambika Rani *Ambika*

Dr Rubi *Rubi*

Sh Jitender Kumar (CS) *Jitender*

Assisted by Sh Yashpal and Sh Parveen Kumar (CS) *Parveen*

3. It was decided that Sh Kiranpal Singh, Associate Professor, Department of Computer Science, GN Khalsa College, Yamuna Nagar should be the external expert for the e-waste committee.
4. It was also decided that these audits shall be completed by the end of this academic session.

A
02/2/24



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NOTICE

15.02.2024

A meeting of the Environment Audit Committee will be held on 16.02.2024 at 11.00 am in Department of Chemistry, Dyal Singh College, Karnal regarding action plan for the next audit cycle.

Kapil Gulati
Dr. Kapil Gulati

Incharge

1. Sh. Sushil Kumar, Advisor

2. Dr. Ritu Sharma, Advisor

3. Dr. Sonal Saluja, Member

Sushil Kumar
Ritu Sharma
Sonal Saluja



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Minutes of the meeting of the Green Audit Committee held on
03.02.2024 at 11:00 a.m. in the Department of Zoology.

16.02.2024

A meeting of the Green Audit Committee of the College was held on 16.02.2024 at 11:00 a.m. in the Department of Chemistry regarding the action plan for the next audit cycle.

The following were present:

1. Sh. Sushil Kumar, Advisor *Sushil Kumar*

2. Dr Ritu Sharma, Advisor *Ritu Sharma*

3. Dr Kapil Gulati, Incharge *Kapil Gulati*

4. Dr Sonal Saluja, Member *Sonal Saluja*

The following points were discussed:

1. The meeting was regarding the Environment Audit of the college for the Academic Session 2022-23.
2. It was decided that the committee members will review the previous Environment Audit Report and perform the audit for the Academic Session 2022-23.
3. The committee also decided that the draft of the report be finalized by the end of April 2024.

NOTICE

whatsapp

17.05.2024

A meeting of the following staff members will be held on 18.05.2024 at 10:00 A.M. in the office of the Principal, Dyal Singh College, Karnal regarding the status of Green, Energy, Environment and E-Waste Audits of the college.

Sakhar

Principal

1. Sh. Sushil Kumar, Advisor Sushil
2. Dr Ritu Sharma, Advisor Ritu
3. Dr Ambika Rani Ambika
4. Ms Nidhi Jast Nidhi
5. Dr Shweta Yadav, Incharge Shweta
6. Dr Rubi Rubi
7. Dr Kapil Gulati Kapil
8. Dr Mandeep Mandeep
9. Dr Suhana Rao Suhana
10. Dr Sonal Saluja Sonal

DYAL SINGH COLLEGE, KARNAL

ATTENDANCE



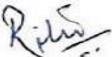



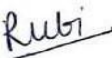
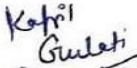
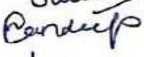

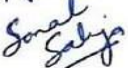
18.05.2024

A meeting of all the following members was held on 18.05.2024 at 10.00 a.m. in the office of the Principal, Dyal Singh College, Karnal.

Agenda :

Status of Green, Energy, Environment and E-waste Audits of the College.

The following were present:


1. Dr Ashima Gakhar, Principal 
2. Sh Sushil Kumar, Advisor 
3. Dr. Ritu Sharma, Advisor 
4. Dr Ambika Rani 
5. Ms Nidhi Jast 
6. Dr Shweta Yadav. Incharge 
7. Dr Rubi 
8. Dr Kapil Gulati 
9. Dr Mandeep 
10. Dr Suhana Rao 
11. Dr Sonal Saluja 

Minutes of the meeting held on 18.05.2024 at 10:00 A.M. in the office of the Principal, Dyal Singh College, Karnal regarding the Status of Green, Energy, Environment and E-waste Audits of the College.

18.05.2024

A meeting was held on 18.05.2024 at 10:00 A.M. in the office of the Principal, Dyal Singh College, Karnal regarding the Status of Green, Energy, Environment and E-waste Audits of the college. The following points were discussed:

1. The meeting was regarding the status of the Green, Energy, Environment and E-waste Audits of the college for the session 2022-23.
2. The drafts of the Green, Energy, Environment and E-waste Audits of the college were shared by the respective In-charges and discussed by the committee.
3. It was decided that the Audit Reports shall be submitted after incorporating the suggested changes.
4. The committee also discussed the future plans for the session 2024-25.
5. It was suggested that the college should set up a Waste Water Treatment Plant to deal with the waste water generated from the Air Conditioners, RO Water Purifiers and the Laboratories in an eco-friendly way.
6. It was also suggested to install an Air Quality Monitor in the College.
7. It was decided that Dr. Kapil Gulati and Dr Mandeep will get in touch with the Municipal Corporation, Karnal to work out the plan for the installation of the Waste Water Treatment Plant and the Air Quality Monitor in the College.
8. The committee also deliberated over the ideas to achieve its goal of making the College Campus a Plastic Free Zone.
9. The committee concurred that the College Canteen was the biggest source of plastic on the campus.
10. It was decided that the next Canteen contractor shall be asked to incorporate ecofriendly utensils and practices in the working of the canteen.


Dr Shweta Yadav
Incharge
Green, Energy & Environment
Audit Committee