



CERTIFICATE OF ESTABLISHMENT

This is to certify that

Rajiv Gandhi Memorial Government College Joginder Nagar, Distt Mandi, Mandi

has established an Institution's Innovation Council (IC202429655) in the campus as per the norms of Innovation Cell, Ministry of Education, Govt. of India during the academic calendar year 2023-24

Dr. Abhay Jere

Chief Innovation Officer
Ministry of Education's Innovation Cell

Certificate No: 19153

Shri. Dipan Kumar Sahu

Assistant Innovation Director
Ministry of Education's Innovation Cell

Aishe Code: C-11452

Date: 09-05-2024



Rajiv Gandhi Memorial Government College
JOGINDER NAGAR
Tehsil-Joginder Nagar, District-Mandi, HP, 175015
Tel. No. 01960-222426, eMail: rgjogindernagar-kg@gmail.com



No.- EDN- GC-JNR- (HEIS)-2022-23-

The council meeting of Institution's Innovation Council (IC), Rajiv Gandhi Memorial Government College, Joginder Nagar was called by IC President Prof. Kaumudi Sharma on 17-05-2024 to discuss upon the Remuneration and function of IC for academic year 2024-25 & to assign roles and responsibility among newly joined council members as per the guidelines of Ministry of Education's Innovation cell.

As per the decision of competent authority, following members will be the part of IC:

Sr. No.	Name of Member	Member Type (Teaching/Nonteaching/Student/ External Expert)	Key Role / Position assigned in IC
1	Prof. Suresha Singh	Administrative	Chief Patron
2	Prof. Kaumudi Sharma	Teaching	President
3	Prof. Manju Bala	Teaching	Vice President
4	Dr. Purnita Kaur Gurdel	Teaching	Convener
5	Dr. Samriti Thakur	Teaching	Innovation activity Coordinator
6	Prof. Anil Kumar	Teaching	IPR Coordinator
7	Dr. Kuldeep Singh	Teaching	Start up Activity Coordinator
8	Prof. Mamta Devi	Teaching	Internship Activity Coordinator
9	Mr. Nageshwar Paul	Non- Teaching	Social Media Coordinator
10	Ms. Rukhsaar	External Expert	Start up Activity Entrepreneur
11	Mr. Bharat Mohan	External Expert	Expert from nearby Industry
12	Mr. Nakul Khullar	External Expert	Expert from nearby Industry
13	Ms. Susandini Kachru	External Expert	Banker

The council members discussed about the activities (IC calendar, Celebration and Self-Driven) and features of IC portal. The council members also discussed about collaborations within and outside the institute to accelerate the activities of IC. The council also deliberated on quarterly action plan in synchronisation with activities and initiatives of other departments, centres and facilities in the Institute working towards promoting IPR, Innovation, Entrepreneurship and Start up.

The council unanimously decided to carry out all the IC activities in regular basis throughout the year and meet regularly in beginning of every quarter to review the progress made in previous quarter and also to plan for upcoming quarter. The council has agreed to convene next meeting tentatively on 14-06-2024.

Signature & Seal

For ICIC President or Head of the Institution)

Name: Mrs. Suresha Singh

Place: Joginder Nagar



Letter of Appreciation

Dear Sir/Madam,

Please accept our sincere gratitude to all the chief functionaries and every members of the IIC Institution's Innovation Council (IIC) of Rajiv Gandhi Memorial Government College Joginder Nagar, Distt Mandi for the continuous support and contribution towards building the innovation and entrepreneurship culture development in your campus and also extending support to help other IIC institutions towards growth of the IIC network during the academic year 2023-24.

Chief Functionaries of the IIC at Rajiv Gandhi Memorial Government College Joginder Nagar, Distt Mandi, Mandi

Name	Position
	Head of the Institute
KAUMUDI SHARMA	President
MAMTA DEVI	Internship Activity Coordinator
DR.KULDEEP	Start up Activity Coordinator
ATUL KUMAR	IPR Activity Coordinator
DR SMRITI	Innovation Activity
NAGESHWAR PAUL	Social Media
PERNITA KUMARI GURDEL	Convener
MANJU BALA	Vice President

As we are progressing towards a 'quality' driven I&E ecosystem development, we strongly believe that the IIC model and its unique structure is definitely putting your HEI's thoughts, actions and aspirations in a systematic way to achieve inclusive and holistic development of the ecosystem.

Thanks & regards.

**Gratitude always
#babysteps**

Yours Sincerely,

Dipan Kumar Sahu

Assistant Innovation Director
MoE's Innovation Cell, Govt. of India

****Completion of Training Under IIC at Panjab University, Chandigarh**** I, Kaumudi Sharma, along with Prof. Manju Bala, successfully completed the Innovation & Entrepreneurship Training Programme conducted under the Institution's Innovation Council (IIC) at Panjab University, Chandigarh, on 28th November 2025. The training focused on strengthening innovation culture in academic institutions, developing entrepreneurial competencies, understanding national innovation frameworks, and enhancing the capacity of faculty coordinators to mentor student innovators. The sessions provided deep insights into idea development, incubation processes, design thinking, and academically aligned innovation practices. This training has equipped both of us to further reinforce IIC activities at RGMGC Jogindernagar, implement structured innovation-based programmes, and contribute to a stronger institutional ecosystem for student-led creativity, problem-solving, and entrepreneurship.





IIC Activity Report: Fair & Industry Collaboration

Under the initiatives of the Institution's Innovation Council (IIC) at RGMGC Jogindernagar, we successfully organised an Innovation and Entrepreneurship Fair, providing students a platform to display creativity, product ideas, and community-linked innovations.

As part of strengthening industry-academia linkages, the IIC further collaborated with Ms. Rukhsar, owner of OWL (Organic With Luv), Bir, to launch a hands-on internship programme for college students. Through this collaboration, students are receiving practical training in the production of organic soaps, cosmetics, balms, scrubs, and other wellness products, along with exposure to branding, packaging, and small-scale enterprise management.

This initiative is enabling students to gain real-world skills, entrepreneurial confidence, and experience in sustainable product development—fulfilling the core objectives of IIC in fostering innovation, skill development, and industry partnerships within the institution.







Online lecture by Mr. Nakul Kullar(IIC) :



IIC activities: sashaktikaran mela:



Joginder Nagar, Himachal Pradesh, India
Xqvv+5pc, College Rd, Joginder Nagar, Himachal Pradesh 175015, India
Lat 31.993252° Long 76.794009°
29/08/2025 11:30 AM GMT +05:30



Joginder Nagar, Himachal Pradesh, India
Xqrg+q2c, Mandi - Pathankot Rd, Laxmi Bazar, Joginder Nagar, Himachal Pradesh 175015, India
Lat 31.991788° Long 76.786849°
04/09/2025 12:46 PM GMT +05:30



Joginder Nagar, Himachal Pradesh, India
Xqvv+hpc, Joginder Nagar, Himachal Pradesh 175015, India
Lat 31.993454° Long 76.794349°
04/09/2025 11:11 AM GMT +05:30

Report on Sashaktikaran Mela Organised at RGMGC, Jogindernagar :

The Sashaktikaran Mela organised at Rajiv Gandhi Memorial Government College (RGMGC), Jogindernagar under Unnat Bharat Abhiyan (UBA) brought together 12 Self Help Groups (SHGs) from nearby panchayats, offering them a dignified and vibrant platform to showcase their products. The stalls featured a variety of local goods—handmade food items, spices, pickles, handicrafts, woollens, herbal products, and eco-friendly materials—representing the cultural and economic diversity of the region.

The mela generated encouraging income opportunities for rural women, with the highest-earning SHG recording sales worth 12,000 in a single day. This reflects the strong community response, increased market visibility, and rising consumer trust in SHG-led local entrepreneurship.

The event strengthened UBA’s commitment to women empowerment, rural livelihood promotion, and sustainable economic development, while reaffirming the college’s role as an active community partner.





The Sashaktikaran Mela, initiated under Unnat Bharat Abhiyan (UBA) by Rajiv Gandhi Memorial Government College (RGMGC), Jogindernagar, has emerged as a transformative platform for strengthening rural livelihoods, promoting women empowerment, and supporting local entrepreneurship. Inspired by the overwhelming success of the inaugural Navachar evam Sashaktikaran Mela held on 29 August 2025, the local administration, along with UBA–RGMGC, institutionalised the mela as a continuous weekly event at the SDM Complex (Mini Secretariat) Jogindernagar, starting 31 August 2025. This continuous mela is now recognised as a sustainable community-centric practice, ensuring long-term benefits for Self Help Groups (SHGs), local farmers, youth entrepreneurs, and the wider public.



Report on UBA Visit to Panchayat Jimjima :

Under the extension activities of Unnat Bharat Abhiyan (UBA), a team from RGMGC Jogindernagar visited Panchayat Jimjima to conduct a community awareness session on Poshan Mah. A focused lecture was delivered on the importance of balanced nutrition, maternal and child health, anemia prevention, the use of locally available nutritious foods, and sustainable household dietary practices. The session witnessed enthusiastic participation from women, local community members, ASHA workers, and panchayat representatives.


As part of UBA's initiative to promote medicinal and wellness-based plantation, Ashwagandha plants were distributed to the beneficiaries. This effort aimed to encourage households to adopt herbal cultivation for immunity enhancement, livelihood support, and long-term health benefits. The visit strengthened college–community linkage and reinforced UBA's mission of improving rural wellbeing through education, awareness, and sustainable practices.








3. Self finance courses:


Sardar Patel University, Mandi (H.P.)
 (A State Government University)
 Ref. No. : SPU-MANDUCDC/2022-23/1111-50 Date: 02/2023


Principal
 GC Jogindernagar

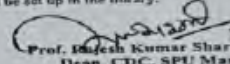
NOTIFICATION

On the recommendations of the Inspection Committee constituted vide University Notification Ref No.: SPU-MANDUCDC/2022/466-75 dated 02/12/2022 which conducted the inspection of the College on 12/12/2022, the Hon'ble Vice-Chancellor is pleased to grant provisional/temporary affiliation to Rajiv Gandhi Memorial Govt College Jogindernagar, Distt: Mandi, H.P., PIN: 176019 for the Academic Session 2022-23 for the courses as per details below:

S.No.	Name of Course	Academic Session	Type of Affiliation granted
01.	BA	2022-23	Extension of Permanent Affiliation
02.	B.Com.	2022-23	Extension of Permanent Affiliation
03.	B.Sc. (Medical & Non-Medical)	2022-23	Extension of Permanent Affiliation
04.	BBA	2022-23, 40 seats	Temporary Affiliation
05.	BCA	2022-23, 60 seats	Temporary Affiliation
06.	MA English	2022-23, 20 seats	Temporary Affiliation
07.	MA Economics	2022-23, 40 seats	Temporary Affiliation

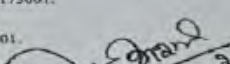
Necessary compliance in reference to the recommendations given below is advised from the College within next two months.

- The post of Lab Attendant in Science lab must be filled.
- Construction work of Auditorium must be expedited.
- One post of faculty each in the department of commerce and English and two posts of faculty in MA Economics must be filled.
- Radio frequency identification (RFID) should be set up in the library.


Prof. Rajesh Kumar Sharma
 Dean, CDC, SPU Mandi

Copy to:

- The Principal Secretary (Higher Education) to the Govt. of H.P. Shimla-2
- The Director Higher Education H.P. Shimla-170001.
- The Principal of the concerned College with the directions to submit the compliance report of shortcomings/recommendations as pointed out by the Inspection Committee in their report with substantiated documents within the stipulated period as mentioned above.
- The Dean of Academic Affairs, SPU Mandi (H.P.), PIN: 175001.
- The Controller of Examinations, SPU Mandi (H.P.), PIN: 175001.
- The Finance Officer, SPU Mandi (H.P.), PIN: 175001.
- PS to Vice-Chancellor, SPU Mandi (H.P.), PIN: 175001.
- PS to Pro-Vice Chancellor, SPU Mandi (H.P.), PIN: 175001.
- PS to Registrar, SPU Mandi (H.P.), PIN: 175001.
- Guard File.


Dean, CDC, SPU Mandi



Sardar Patel University, Mandi (H.P.)
(A State Government University)

Ref. No. : SPU-MANDI/CDC/2024-25/13-22

Date: 21/04/2024

[Signature]
Principal
GC Jalandhar

NOTIFICATION

On the recommendations of the Inspection Committee constituted vide University Notification Ref No.: SPU-MANDI/CDC/2024-25/01-12 dated 18/04/2024 which conducted the inspection of the College on 23/04/2024, the Hon'ble Pro-Vice Chancellor is pleased to grant provisional affiliation to **Rajiv Gandhi Memorial Govt College Jalandhar, Distt: Mandi, HP, PIN: 175015** for the Academic Session 2024-25 to run the course of PGDCA :

S.No.	Name of Course	Academic Session	Type of Affiliation granted
01.	PGDCA	2024-25	Provisional Affiliation

Necessary compliance in reference to the recommendations given below is solicited from the College within next two months.

1. More reference books are required.
2. Additional Guest faculty is required to run the course of PGDCA.

[Signature]

Dr. Yogesh Sharma
Deputy Registrar (Administration)

Copy to:

01. The Principal Secretary (Higher Education) to the Govt. of H.P. Shimla-2
02. The Director Higher Education H.P. Shimla-171001.
03. The Principal of the concerned College with the directions to submit the compliance report of shortcomings/recommendations as pointed out by the Inspection Committee in their report with authenticated documents within the stipulated period as mentioned above.
04. The Dean of Academic Affairs, SPU Mandi (H.P.), PIN: 175001.
05. The Controller of Examinations, SPU Mandi (H.P.), PIN: 175001.
06. The Finance Officer, SPU Mandi (H.P.), PIN: 175001.
07. PS to Vice-Chancellor, SPU Mandi (H.P.), PIN: 175001.
08. PS to Pro-Vice Chancellor, SPU Mandi (H.P.), PIN: 175001.
09. PS to Registrar, SPU Mandi (H.P.), PIN: 175001.
10. Guard File.

[Signature]

Deputy Registrar (Administration)

RGM GOVT COLLEGE, JOGINDER NAGAR, DISTT. MANDI, J&K

SUBJECT, GENDER & CATEGORY WISE ENROLMENT AS ON 05.02.2025

S. N.	SUBJECT	Year/Seat	ENR												TOTAL ENROLMENT						
			EWS			GEN			SC			ST			G	B	TOTAL				
			C	B	TOTAL	G	B	TOTAL	G	B	TOTAL	G	B	TOTAL							
1	ENGLISH	1st Year	0	1	1	11	16	31	1	0	1	0	0	3	2	0	8	16	26	52	
		2nd Year	0	1	1	19	13	32	4	5	9	1	1	2	8	0	8	11	16	42	
		3rd Year	0	0	0	22	24	46	5	2	7	3	1	4	6	5	11	9	9	68	
		PG-1st Seat	1	0	1	3	5	10	3	4	7	0	0	0	3	1	4	1	2	2	4
		PG-3rd Seat	0	0	0	1	1	2	0	0	0	0	0	0	1	0	1	0	0	0	1
Total			1	2	3	58	63	123	15	17	32	4	5	9	17	12	29	95	99	194	
2	HINDI	1st Year	0	1	1	11	21	32	4	10	18	0	0	9	22	23	44	41	54	95	
		2nd Year	0	0	0	27	22	49	9	0	9	0	0	4	23	9	32	39	21	80	
		3rd Year	0	0	0	23	21	44	6	0	6	1	0	1	20	11	31	34	13	87	
		Total	0	1	1	68	55	100	23	10	33	1	0	1	65	42	107	154	88	242	
3	HISTORY	1st Year	1	2	3	16	16	39	18	7	25	2	1	3	18	9	27	22	15	76	
		2nd Year	1	0	1	20	8	28	14	3	17	1	0	1	14	5	19	16	10	71	
		3rd Year	0	0	0	29	7	36	14	8	22	0	2	2	10	3	13	10	18	71	
		Total	2	2	4	65	31	123	46	18	62	3	3	6	42	16	58	185	67	252	
4	POLITICAL SCIENCE	1st Year	0	0	0	15	21	36	18	12	30	0	1	1	20	19	39	28	47	120	
		2nd Year	0	0	0	14	14	28	17	5	22	2	1	3	16	25	41	65	45	110	
		3rd Year	0	1	1	19	19	38	21	9	30	4	0	4	12	18	30	21	49	118	
		Total	0	1	1	48	54	103	56	26	76	6	2	8	54	56	110	209	139	348	
5	ECONOMICS	1st Year	0	1	1	3	3	6	5	0	5	0	0	1	0	2	1	2	2	9	
		2nd Year	0	0	0	9	9	18	2	2	4	0	0	2	2	4	4	2	7	19	
		3rd Year	0	1	1	1	1	2	4	0	4	0	0	0	0	0	0	0	0	6	
		PG-1st Seat	0	0	0	2	2	4	2	0	2	0	0	0	0	0	0	0	0	5	
		PG-3rd Seat	0	1	1	7	7	14	2	0	2	0	0	0	0	0	0	0	0	3	
Total			0	2	2	16	5	21	10	2	12	0	0	5	2	7	31	11	42		
6	SOCIOLOGY	1st Year	0	0	0	1	1	2	2	0	2	0	0	1	3	4	7	4	11		
		2nd Year	0	0	0	10	7	17	3	3	6	0	0	0	9	7	16	15	30		
		3rd Year	0	0	0	11	3	14	2	5	7	1	0	1	5	7	12	13	38		
		Total	0	0	0	23	13	36	7	8	15	1	0	1	12	15	27	43	79		
7	PUBLIC ADMIN.	1st Year	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	2		
		2nd Year	0	0	0	1	1	2	1	0	1	0	0	0	1	0	1	2	3		
		3rd Year	0	0	0	1	1	2	0	0	0	0	0	0	1	0	1	2	2		
		Total	0	0	0	3	3	6	1	0	2	0	0	0	2	0	2	3	4	7	
8	GEOGRAPHY	1st Year	0	0	0	4	4	8	1	0	1	0	0	1	0	1	0	1	2		
		2nd Year	0	0	0	4	4	8	1	0	1	0	0	1	0	0	0	0	1		
		3rd Year	0	0	0	4	4	8	1	0	1	0	0	1	2	1	3	10	11		
		Total	0	0	0	12	12	24	3	0	3	0	0	2	4	4	8	29	35		
9	MUSIC	1st Year	0	0	0	1	1	2	1	0	1	0	0	0	1	0	1	1	2		
		2nd Year	0	0	0	1	1	2	1	0	1	0	0	0	1	0	1	1	2		
		3rd Year	0	0	0	1	1	2	1	0	1	0	0	0	0	0	0	0	0		
		Total	0	0	0	3	3	6	3	0	3	0	0	0	2	1	3	6	5		
10	SANSKRIT	1st Year	0	0	0	1	1	2	1	1	2	0	0	0	1	0	1	1	2		
		2nd Year	0	0	0	1	1	2	1	0	1	0	0	0	2	0	2	2	4		
		3rd Year	0	0	0	1	1	2	1	0	1	0	0	0	1	1	2	2	4		
		Total	0	0	0	3	3	6	3	1	4	0	0	0	3	1	4	11	7		
11	MATHS	1st Year	0	0	0	1	1	2	1	1	2	0	0	0	1	0	1	0	1		
		2nd Year	0	0	0	1	1	2	1	0	1	0	0	0	0	0	0	0	0		
		3rd Year	0	0	0	1	1	2	1	0	1	0	0	0	0	0	0	0	0		
		Total	0	0	0	3	3	6	3	1	3	0	0	0	1	0	1	0	1		
12	PHYSICAL EDUCATION	1st Year	0	0	0	1	1	2	1	1	2	0	0	1	0	1	0	1	2		
		2nd Year	0	0	0	1	1	2	1	0	2	0	0	0	2	2	4	9	15		
		3rd Year	0	0	0	1	1	2	1	0	2	0	0	1	2	3	5	11	20		
		Total	0	0	0	3	3	6	3	1	5	0	0	1	3	13	16	26	37		
13	EDUCATION	1st Year	0	0	0	1	1	2	1	1	2	0	0	0	0	0	0	0	0		
		2nd Year	0	0	0	1	1	2	1	0	2	0	0	0	2	0	2	13	15		
		3rd Year	0	0	0	1	1	2	1	0	2	0	0	0	2	0	2	11	12		
		Total	0	0	0	3	3	6	3	1	5	0	0	0	4	0	4	24	27		
14	J & MC	1st Year	0	0	0	1	1	2	1	1	2	0	0	0	0	0	0	0	0		
		2nd Year	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0		
		3rd Year	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0		
		Total	0	0	0	3	3	6	3	1	1	0	0	0	0	0	0	0	0		
15	MATHEMATICS	1st Year	1	0	1	1	1	2	1	1	2	0	0	0	2	0	2	14	5		
		2nd Year	1	0	1	1	1	2	1	1	2	0	0	0	4	6	10	16	10		
		3rd Year	0	0	0	1	1	2	1	1	2	0	0	0	0	0	0	11	12		
		Total	2	0	2	3	3	6	3	3	6	0	0	0	6	6	12	41	27		
16	PHYSICS	1st Year	0	0	0	1	1	2	1	1	2	0	0	0	0	0	0	0	0		
		2nd Year	0	0	0	1	1	2	1	1	2	0	0	0	2	2	4	13	7		
		3rd Year	0	0	0	1	1	2	1	1	2	0	0	0	2	2	4	13	7		
		Total	0	0	0	3	3	6	3	3	6	0	0	0	2	3	5	18	12		

4. Green Audit:

RAJIV GANDHI MEMORIAL GOVT. COLLEGE JOGINDER NAGAR

DISTT. MANDI (HP), PIN: 175015

Email: gcjogindernagar-hp@nic.in Ph No.: 01908222426

Green Audit Report (2024-25)



Internal Green Audit Team

Dr. Atul, Assistant Professor of Chemistry

Ms. Aarti Sharma, Assistant Professor of Chemistry

Mr Pankaj Kumar, Laboratory Assistant

Mr. Balak Ram, Peon

Ms. Vidya Devi, Gardener

Atul
Aarti
Pankaj

Acknowledgements: Thankful to Dr. Madhvi Joshi, Assistant professor of Botany, VGC Mandi for identification and botanical names of plants.

Principal
Principal
G.D.G. J. Nagar

Table of contents

Sr. No.	Content	Page no.
1.	Introduction	2
2.	Objective of the green audit	3
3.	Methodology	3-17
4.	Audit report	
	a. Water auditing	
	b. Energy management	
	c. Waste management	
	d. Green campus management	
	e. Carbon footprint	
5.	Recommendations	21

1. Introduction

"We are the first generation to feel the effect of climate change and the last generation who can do something about it"

For the ecosystem to flourish sustainably or for an organization to be eco-friendly, a green audit is necessary. Higher education institutions have been concentrating on academic and infrastructure operations for the previous several decades, which has resulted in required financial audit only. To help HEIs to identify their environmental consequences and evaluate their compliance with relevant rules and regulations, a tool known as a "green audit" has come into the picture. It is a useful tool to determine where we are using most of energy & water resources and the necessary changes to be implemented for minimizing their use and a self-enquiry of the institution for the sustainable development by reducing carbon footprint and conserving environment. As a part of such practice, green audit is conducted to evaluate the actual scenario at the organization.

In compliance with the NAAC criterion, HEIs prepare and analyze green audit report which is also a part of its corporate social responsibility. To ensure that the institution's green legacy is continued, self-assessment is crucial in complete reporting of the institution's green quotient and strategic plan.

About the College: With the towering mountain range as the back drop, Rajiv Gandhi Memorial Govt. College Joginder Nagar was established in May 1994. The college is currently commemorating its 26th year of illustrious academic life. It is affiliated to Himachal Pradesh University Shimla and is located on the foothills of Dhauladhar Range of Himalaya's with lush green vegetation and fertile land. The NH-154 and narrow-gauge railway station Joginder Nagar are at a stone's throw away from the college. The college campus is spread over 5 acres area of land, connected with road facility, surrounded by civil hospital, mini secretariat, playground and in the vicinity of agricultural land. It is located at a distance of 57 kms from Mandi district headquarter. The college is included under Section 2(F) & 12(B) of UGC Act 1956. The college is free from noise and air pollution. There is a peaceful and serene academic oriented atmosphere in the college campus with co-educational system. The college is catering to the needs of rural and backward areas by providing quality education.

2. Objectives of Green Audit

The main objectives of Green Audit are as follows:

- To minimize the use of energy, water and other resources by focusing on alternate natural resources
- Role of HEIs in sustainable development of the environment
- Conservation of biodiversity through green campus management
- Self enquiry to reduce carbon footprint
- Proper disposal of waste and its management
- To raise the green quotient of staff and students

3. Methodology

Pre audit stage

The audit team identified the following areas for analysis:

- I. Water auditing
- II. Energy management
- III. Waste management
- IV. Green campus management
- V. Carbon footprint

Audit stage

- I. Preparation and filling up of questionnaire: The team created a questionnaire about green practices followed in college, and 186 responses from students and staff were collected via Google Form. It was quite useful in determining the respondents' level of green consciousness.
- II. In order to gather primary data, the audit team physically inspected the campus, visiting several departments: the library, labs, canteen, administration building, garden, parking lot, multipurpose hall, and garden.
- III. Various documents from the offices and departments were inspected, examined, and gathered.
- IV. The college's principal, staff members, and students were questioned to get their opinions.

Post audit stage

In order to create an audit report with suggestions and a future plan of action, the data gathered from all the resources was combined.

4. Audit report

a. Water Auditing

The college receives water from the Himachal Pradesh Jal Shakti Vibhag, which is used for drinking, sanitation, domestic use, and horticulture. Aside from that, the college campus has a rainwater harvesting tank, and the water saved in it is used for gardening.

There are eight 1000-litre water tanks on the roof of the Arts and Science block, two in the administration block, one in the canteen, and fourteen in the staff quarters. According to the office record of the preceding six months' water bill, the average daily use is roughly 1366 Litres, which covers drinking, sanitation, and some gardening. There is no shortage of water on our college campus because demand and supply are

balanced, as evidenced by a survey in which more than 98 percent of respondents stated that the college had adequate potable drinking water supplies.

The college has sufficient supply of potable drinking water?
177 responses



Do you turn off the taps in sinks after each use?
177 responses



Green Audit survey finding 1 & 2



Water purifier in Administration Block

Water is obtained from natural resources, and its physical, chemical, and biological qualities are assessed by the relevant agency prior to distribution. Because higher standard water is required for drinking, therefore three water purifiers and two water coolers are installed for further purification.



Water purifier and coolers

The physico-chemical properties of tap water are analyzed in chemistry laboratory and are compared with BIS acceptable limits. All the parameters are found within the limits and water is found fit for drinking purposes. The analysis report is given below:

Parameters	Tap water	Parameters	Tap water
pH	5.80	Electrical Conductivity (in $\mu\text{S/cm}$)	196.9
Total Alkalinity (in mg/L)	52	Chloride (in mg/L)	25.49
TDS (in ppm)	127.9	Sodium (in ppm)	42
Dissolved Oxygen (in mg/L)	8.387	Potassium (in ppm)	2
Total Hardness as CaCO_3 (in mg/L)	46	Calcium (in mg/L)	12.4
Magnesium (in mg/L)	4.148		

The college does not have a water treatment facility, so waste water is discharged into sewage pipes that are connected to the Municipal Corporation's central sewage system.

The drinking water sink pipes have been moved to the gardens, where they are used to irrigate the plants. Our college's water conservation efforts are commendable, as evidenced by the fact that more than 95% of users turn off the tap after each use, and 94% have not discovered any water line leaks.



Rainwater Harvesting Tank

Rain water harvesting is the best traditional method for conservation of water and also for limiting the supply of drinking water for gardening. Rainwater harvesting tank is constructed in the backside of our college campus with a capacity of . The rainwater is collected via the downpipes which are linked to the tank. Water undergoes primary purification treatment in the tank and is further used for gardening purposes.

b. Energy management

The main consumption of energy is in lighting and running the computer systems. The college has been sanctioned a load of 52 kW from Himachal Pradesh State Electricity Board. The average monthly electricity consumption is 927 units and a bill of Rs 9475/- is paid for it. Solar panels are an alternative renewable energy source. The college has set up solar panels and solar lights at key points in the campus. The solar lights illuminate the college at night and also help in educating students about how

Score
20

24

0

5/7/20

6/1/20

electric energy can be saved for the country. It can be clearly seen from the following bills that power produced from solar panels is also exported to HPSEBL as there is two grid

The photograph shows a document with a table and handwritten notes. The table has several columns, including 'Month', 'Year', 'Consumption', and 'Amount'. Handwritten notes in blue ink are present, including 'Big', 'power is being', 'panel is located', 'of the system', and 'in the'. A vertical watermark on the right side of the page reads 'Shot on OnePlus'.

Electricity bill for April, 2024

The photograph shows a document with a table and a signature. The table has several columns, including 'Month', 'Year', 'Consumption', and 'Amount'. A signature is visible at the bottom right of the document. A vertical watermark on the right side of the page reads 'Shot on OnePlus'.

Electricity bill for March, 2024



Solar panels and solar lights in the campus



Natural lighting and ventilation in classrooms

The college has installed all energy saving LED bulbs. The classrooms are designed with sufficient ventilation and natural illumination to eliminate the need for electrical lighting during the day. There are no air conditioners installed in the college because of the favourable climate.

The solar panels with the capacity of 15 kva and an estimated cost of Rs. 7,08,750/- are installed in administrative block in session 2024-25.

GOVT. DEGREE COLLEGE (DEPT. APPS.)
 Model Coll. Road, J.N.P., JODHPUR
 Dist. H.D. 160001
 Dist. H.D. 160001
 Dist. H.D. 160001

Date: 23/08/2024

Subject: The Project
 15KV Grid or Grid Connected Solar Panel Plant on the roof of Administrative Block of Degree College
 Jodhpur Nagar Dist. Mandi (H.P.)
 Regarding setting up of Grid Connected Solar Panel Plant of Capacity of 15Kva on the roof of the office building of the Degree College, Jodhpur Nagar Dist. Mandi (H.P.)

Reference: Your office letter no. JNDC/2024/JN/14-2024/444, Dtd. 08/08/2024

Re: On the above stated subject, to forward the estimate for installation of 15 KW Grid Connected Rooftop Solar Panel Plant on the roof of Administrative Block of Degree College, Jodhpur Nagar Dist. Mandi (H.P.) as per the approval of this Government vide the Director, Himachal Pradesh Office, Order No. HPR/2024-17/2024 dated 08/08/2024 in the order.

S. No.	Description	Capacity in KVA	Rate per unit as per the rates notified by	Amount
1	For Grid or Grid Connected Roof Top solar Panel Plant of 15KW capacity approx. as per the estimate of Govt. Degree College, Jodhpur Nagar Dist. Mandi (H.P.) by design, manufacturing, supply, installation, commissioning & testing cost in the year 2024-25. The amount is subject to the approval of the Government vide the Director, Himachal Pradesh Office, Order No. HPR/2024-17/2024 dated 08/08/2024 in the order.	15000	47250/-	708750/-
2	Total	15000	47250/-	708750/-
3	Add departmental charges @ 1% of S. No. 2			7087.50/-
4	Grand Total (2+3)			715837.50/-

You are also requested to give ROC from HPSECL, vide letter no. JNDC/2024/JN/14-2024/444, Dtd. 08/08/2024.

Further request cited to enclosed.

1. Name of Applicant - Project Officer, H.D. 160001
 2. Date - 23/08/2024
 3. Amount - 715837.50/-
 4. Amount in Words - Seven Lakhs and Fifty Eight Thousand and Thirty Seven Rupees only.
 5. PFC Code - 160000001

Yours faithfully,
 Project Officer,
 Govt. Degree College,
 Jodhpur Nagar, Dist. Mandi (H.P.)

c. Waste Management

The waste generated in the campus is classified as bio degradable and non bio degradable waste which mainly comprises of paper waste, waste from science labs, domestic waste from staff quarters, college canteen and girls' toilets. There are bins for collecting waste in every department and college office. The college campus has blue and green containers for collecting biodegradable and non-biodegradable waste.

respectively. The biodegradable waste that is gathered from bins and the college canteen breaks down in the vermi composting unit and is applied as garden manure. There is no waste treatment facility in the college, thus the municipal council of Joginder Nagar's waste collection vehicle picks up non biodegradable waste and domestic waste from staff quarters. In the girls' toilet, sanitary pad incinerators are installed, which aid in disposing of the sanitary pads in an environmentally friendly manner by burning and turning them into ash. The office and admissions processes are digital, all announcements are distributed to students via the college website, and double-sided printing is used, thus the amount of paper waste produced is minimal.

Is there a way to segregate wet and dry waste on college campus?
168 responses



Do you put your trash in the waste bins that have been installed on different places in college?
177 responses



Green Audit survey finding 3 & 4

The liquid waste from Chemistry labs is discharged into the specially designed waste tank, which is located adjacent to the Chemistry laboratory.

E-waste is categorized by respective departments and disposed through auction.

Vermicomposting: It is an eco friendly process that recycles organic waste into compost and produces fertilizer. In our college, a vermi compost pit is built for this purpose and bio degradable waste is decomposed into nutrient rich fertilizer.



Vermicompost pit

d. Green Campus Management

The college campus is immensely diverse with a variety of tree species performing a variety of functions. The trees, herbs and shrubs of the college plays an integral part in improving the quality of life, not only the college fraternity but also the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Many species of birds are dependent on these trees mainly for food and shelter. Nectar of flowers and plants is a favourite of birds and many insects. Fruit bearing trees attract variety of insects like wasps, bees, ants and beetles thus increasing the biodiversity. Leaf covered branches keep many animals, such as birds out of reach of predators. Different species display a seemingly endless variety of shapes, forms, texture and vibrant colours. Even individual trees vary their appearance throughout the course of the year as the seasons change. Efforts have been made not to disturb the local flora of the area and most of the trees of the campus are indigenous to the area. A thick belt of large shady trees in the periphery of the college have planted to bring down noise and cut down dust and storms. Thus, the college has been playing a significant role in maintaining the environment of the entire town in its surrounding areas.



Green Cover of the Campus



In addition to preserve and protect the local biodiversity, many tree species have also been planted in different periods of time through various plantation programmes organised by the authority and have become an integral part of the college along with the native plant species. College has around 70 variety of plants including tree species.

shrubs and herbs. Almost 300 potted ornamental plants also contribute to the beauty and greenery of the campus. List of few plants present in the campus is given in Table 1

Ornamental plants in the corridors

Table 1

Sr. no.	Plant Species	Local/Vernacular/English Name	Family
1.	<i>Ageratum conyzoides</i>	Fulni	Asteraceae
2.	<i>Albizia lebeck</i>	Osli	Fabaceae
3.	<i>Amaranthus viridis</i>	Chulzi	Amaranthaceae
4.	<i>Anacardium orientale</i>	Monkey puzzle	Araliacaeae
5.	<i>Artemisia sp</i>	Charasra	Asteraceae
6.	<i>Bidens pilosa</i>	Lamb, gumbar, Black Jack	Asteraceae
7.	<i>Bambusa ceiba</i>	Santal	Malvaceae
8.	<i>Bougainvillea glabra</i>	Bougainvillea	Nyctaginaceae
9.	<i>Callistemon lanceolatus</i>	Bottle brush	Myrtaceae
10.	<i>Calophyllum inophyllum</i>	Punica, tamanu	Calophyllaceae
11.	<i>Campsis</i>	Trumpet creeper	Bignoniaceae
12.	<i>Cannabis sativa</i>	Bhang	Cannabaceae
13.	<i>Cerise spinarum</i>	Garae, bush plum	Apocynaceae
14.	<i>Cassia fistula</i>	Amaltas	Fabaceae
15.	<i>Ceirus deodara</i>	Deodar	Pinaceae
16.	<i>Celtis australis</i>	Khadak	Cannabaceae
17.	<i>Chenopodium album</i>	Bathru	Amaranthaceae
18.	<i>Colocasia sp</i>	Kachalu	Araceae
19.	<i>Cymbretum indicum</i>	Rangoon Madhumalti	creeper, Compositaceae
20.	<i>Cyperus hypochaeris</i>	False Beather	Lythraceae

21. <i>Cycas</i> sp.	Palm	Cycadaceae
22. <i>Dynodan doctyon</i>	Doob grass	Poaceae
23. <i>Erigeron</i> sp.		Asteraceae
24. <i>Eurcalyptus globules</i>	Saleda	Myrtaceae
25. <i>Fargesia</i> sp.	Arrow bamboo	Poaceae
26. <i>Ficus auriculata</i>	Triambal	Moraceae
27. <i>Fragaria indica</i> (A. N. S. Deaf.)	Laddu, Jangli strawberry	Rosaceae
28. <i>Geranium diversifolia</i> Linn.	Alu, bichhuboti	Urticaceae
29. <i>Grevillea robusta</i>	Silver oak	Proteaceae
30. <i>Hedera helix</i>	English ivy	Araliaceae
31. <i>Hibiscus Rosa sinensis</i>	China rose	Malvaceae
32. <i>Hibiscus syriacus</i>	Common Hibiscus	Malvaceae
33. <i>Hydrangea macrophylla</i>		Hydrangeaceae
34. <i>Jasminum</i> sp.	Mogra	Oleaceae
35. <i>Lagerstroemia</i> sp.	Pride of India	Lythraceae
36. <i>Mahoeviscus</i> sp.		Malvaceae
37. <i>Mangifera indica</i>	Mango	Anacardiaceae
38. <i>Melua azedarach</i>	Jangli neem, Darek	Meliaceae
39. <i>Mentha arvensis</i> Linn.	Jangli pudina	Lamiaceae
40. <i>Morus alba</i>	Shehtoot, mulberry	Moraceae
41. <i>Pinus roxburghii</i>	Chir	Pinaceae
42. <i>Platanus orientalis</i>	Chinar	Platanaceae
43. <i>Prunus cerasoides</i>	Paja, Himalayan cherry	Rosaceae
44. <i>Prunus persica</i>	Aaru, peach	Rosaceae
45. <i>Psidium guajava</i>	Amrud	Myrtaceae
46. <i>Punica granatum</i>	Wild sour pomegranate, Daadu	Lythraceae

47. <i>Pyrus pashia</i>	Kainth	Rosaceae
48. <i>Rosa centifolia</i>	Kirandi, Jangli gulab	Rosaceae
49. <i>Rosa</i> sp.	Rose	Rosaceae
50. <i>Rubus ellipticus</i>	Aakhe	Polygonaceae
51. <i>Rumex hastatus</i>	Albal	Polygonaceae
52. <i>Rumex nepalensis</i>	Jangli palak	Lamiaceae
53. <i>Salvia</i> sp.		Solanaceae
54. <i>Solanum nigrum</i>	Makool, Black nightshade	Stratiolaceae
55. <i>Strelitzia</i> sp.	Bird of paradise	Myrtaceae
56. <i>Syzygium cumini</i>	Jamun, Jamolan	Asteraceae
57. <i>Tournefortia</i>	Moripudi	Elgoniaceae
58. <i>Tecoma capensis</i>	Orange Henocysuckle	Cupressaceae
59. <i>Thuja</i> sp.	Morpankhi	Lamiaceae
60. <i>Thymus linearis</i>	Jangli ajwain	Meliaceae
61. <i>Torreya ciliata</i>	Torii, Mountain cedar	Fabaceae
62. <i>Trifolium repens</i>	White Clover	Urticaceae
63. <i>Urtica dioica</i>	Alu, Nettle	Lamiaceae
64. <i>Urtica nebulosa</i>	Banna, Chaste tree	Asteraceae
65. <i>Xanthoxylum</i> sp.	Jhangheed, rough cocklebur	Rhamnaceae
66. <i>Ziziphys nummularia</i> (Burm. f.)	Jangli ber	

Is there a good selection of indoor and outdoor plants in the entire campus?
 (10 responses)



Are activities and programmes (events, seminars, workshops, programmes) conducted by the college, staff, clubs etc.
 (10 responses)



Green Audit survey finding 5 & 6

Status of Soil Sample

Sl. No.	Name of the Staff	Area	Depth	Moisture	pH	N	P	K	EC	Temp	Remarks
1	Dr. Arun Kumar	Staff Quarters	10cm	15%	7.5	0.1	0.05	0.1	150	25	Good
2	Dr. Arun Kumar	Staff Quarters	20cm	12%	7.8	0.1	0.05	0.1	150	25	Good
3	Dr. Arun Kumar	Staff Quarters	30cm	10%	8.0	0.1	0.05	0.1	150	25	Good
4	Dr. Arun Kumar	Staff Quarters	40cm	8%	8.2	0.1	0.05	0.1	150	25	Good
5	Dr. Arun Kumar	Staff Quarters	50cm	5%	8.5	0.1	0.05	0.1	150	25	Good
6	Dr. Arun Kumar	Staff Quarters	60cm	3%	8.8	0.1	0.05	0.1	150	25	Good
7	Dr. Arun Kumar	Staff Quarters	70cm	2%	9.0	0.1	0.05	0.1	150	25	Good
8	Dr. Arun Kumar	Staff Quarters	80cm	1%	9.2	0.1	0.05	0.1	150	25	Good
9	Dr. Arun Kumar	Staff Quarters	90cm	0.5%	9.5	0.1	0.05	0.1	150	25	Good
10	Dr. Arun Kumar	Staff Quarters	100cm	0.2%	9.8	0.1	0.05	0.1	150	25	Good

Soil Testing Report

Green initiatives:

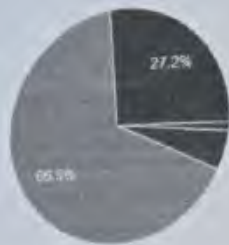
Due to minimum consideration for environment & sustainability, the world is being problems of ozone depletion, climate change, water scarcity and sustainable resource management. College organizes guest lectures on environmental conservation, biodiversity etc. every year. College has demonstrated consistent commitment towards nature and environment for the last 5 years. College has 'Eco Club' and the Campus Sensitization Committee which offers wide spectrum of environmental and nature activities and platforms to enhance awareness and exhibit the relationship with nature. The National Service Scheme (NSS) and National Cadet Corps (NCC) of the college undertakes projects for environmental, rural development, education awareness, cleanliness, healthcare, etc. Various activities like cleanliness drive, tree-plantation, seminars, competitions and workshops are organized by Eco Club, / NCC/ NSS/ Rover & Rangers increase the awareness and sensitivity among students and faculty.

e. Carbon Footprint Auditing

The overall amount of greenhouse gases created by an institution's activity is referred to as its carbon footprint. Petrol and diesel vehicles, various electrical appliances, home appliances in the staff quarters and canteen are the sources of greenhouse emissions in our college.

According to data collected from staff members, 11 staff members commute by personal automobiles (two cars pooled), 8 by two-wheelers, 6 by public transportation, and 18 by walking since they live in staff quarters or are within walking distance. According to the 187 students polled, 67 percent of them commute by public transportation, 27% by walking, and only a few by car. Due to the arrangements herein, the majority of the institution's members and students choose to walk, which helps to reduce carbon emissions significantly. Vehicles are also not permitted beyond the campus's main entrance.

How do you commute to college daily?
173 responses



- Bicycle
- Vehicle
- Bus
- Walk

Car pooling or vehicle sharing is a common practice in your institution?
164 responses



- Yes
- No

Green audit survey finding 7 & 8

To reduce carbon footprint, the staff and students are adequately informed on the use of electrical appliances, energy efficient lighting appliances and solar energy operated outside lights are put on campus. The proprietor of the college canteen is educated on how to use the gas stove efficiently, and students in the chemistry lab switch off the burners when not in use and rigorously adhere to the practical requirements. For environmental awareness, the NSS, NCC, and Eco club hold workshops on a regular basis.