

## GOVERNMENT BILASA GIRLS' P.G. COLLEGE BILASPUR (C.G.)

NAAC "B+"

Website-http://bilasagirlscollege.ac.in

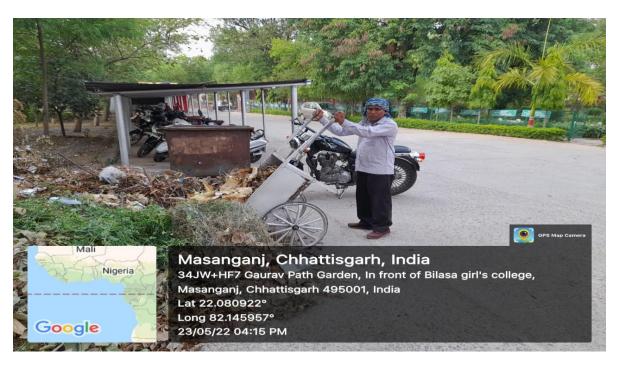
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## 7.1.6 - Quality audits on environment and energy undertaken by the institution

College have implemented various initiatives to preserve and improve the environment and harness energy. Some of these initiatives include:

1. Recycling: HEI has established recycling contract with a vendor to reduce waste, conserve resources, and minimize the environmental impact of campus activities.



2. Energy Conservation Measures: Implemented energy-efficient practices, such as using LED lighting, and promoting energy-saving behaviors among students and staff.





## Average use of energy by light

S.n	Dept./room	No. o	f bulb	No.of	tubes	Total	bulb	Total	tube	Average use of energy in		
										kwh per year		
		Normal	LED	Normal	LED	Normal	LED	Normal	LED	Total	Normal	LED
1	Physics	0	0	26	3	0	0	26	3	2779.84	2657.2	122.64
2	Chemistry	2	0	47	14	2	0	47	14	5886.72	5314.4	572.32
3	Comp. science	0	0	0	28	0	0	0	28	1144.64	0	1144.64
4	Mathematics	0	0	6	2	0	0	6	2	694.96	613.2	81.76
5	Botany	0	0	33	2	0	0	33	2	3454.36	3372.6	81.76
6	Zoology	0	0	41	7	0	0	41	7	4476.36	4190.2	286.16
7	Home science	0	0	17	8	0	0	17	8	2064.44	1737.4	327.04
8	Commerce	0	3	3	3	0	3	3	3	605.535	306.6	298.935
9	Economics	0	0	4	0	0	0	4	0	408.8	408.8	0
10	Political science	0	0	0	0	6	2	6	2	1650.53	1533	117.53
11	History	0	0	1	3	0	0	1	3	224.84	102.2	122.64
12	Geography	2	0	8	7	2	0	8	7	1614.76	1328.6	286.16
13	Sociology	0	0	6	1	0	0	6	1	654.08	613.2	40.88
14	Sociology add	0	0	0	3	0	0	0	3	122.64	0	112.64
15	Psychology	0	0	0	9	0	0	0	9	367.92	0	367.92
16	Hindi	0	1	0	3	0	1	3	0	181.405	0	181.405
17	English	0	0	5	7	0	0	5	7	797.16	511	286.16
18	Sanskrit	0	0	1	0	0	0	1	0	102.2	102.2	0
19	Urdu	0	0	0	3	0	0	0	3	122.64	0	122.64
20	Music	0	0	1	0	0	0	1	0	102.2	102.2	0
21	NCC	0	0	3	2	0	0	3	2	388.36	306.6	81.76
22	Library	0	1	6	28	0	1	6	28	18816.605	613.2	1203.405



22	Library	0	1	6	28	0	1	6	28	18816.605	613.2	1203.405
23	NSS	0	0	0	0	0	6	0	6	352.59	0	352.59
24	Principal chamber	0	1	4	11	0	1	4	11	917.245	408.8	508.445
25	Verandah	0	51	22	24	0	51	22	24	6226.535	2248.4	3978.135
26	Rn 6	0	0	3	5	0	0	3	5	511	306.6	204.4
27	Rn 7	0	0	3	5	0	0	3	5	511	306.6	204.4
28	Rn 19	0	0	5	0	0	0	5	0	511	511	0
29	Rn 20	0	0	6	0	0	0	6	0	613.2	613.2	0
30	Rn 24	0	0	4	0	0	0	4	0	408.8	408.8	0
31	Rn 25	0	0	4	0	0	0	4	0	408.8	408.8	0
32	Rn 26	0	0	5	0	0	0	5	0	511	511	0
33	Rn 34	0	0	6	0	0	0	6	0	613.2	613.2	0
34	Rn 35	0	0	7	0	0	0	7	0	715.4	715.4	0
35	Rn 46	0	0	0	6	0	0	0	6	245.28	0	245.28
36	Rn 47	0	0	5	6	0	0	5	6	756.28	511	245.28
37	Rn 48	0	0	4	6	0	0	4	6	654.08	408.8	245.28
38	Rn 49	0	0	4	6	0	0	4	6	654.08	408.8	245.28
39	Rn 50	0	0	4	6	0	0	4	6	654.08	408.8	245.28
40	Rn 51	0	0	4	6	0	0	4	6	654.08	408.8	245.28
41	Rn 52	0	0	0	6	0	0	0	6	245.28	0	245.28
42	Rn 53	0	0	0	6	0	0	0	6	245.28	0	245.28
43	Rn 54	0	0	0	6	0	0	0	6	245.28	0	245.28
44	Rn 55	0	0	0	6	0	0	0	6	245.28	0	245.28
45	Rn 56	0	0	0	6	0	0	0	6	245.28	0	245.28
46	Rn 57	0	0	0	6	0	0	0	6	245.28	0	245.28
47	Rn 61	0	0	6	0	0	0	6	0	613.2	613.2	0
48	Rn 62	0	0	6	0	0	0	6	0	613.2	613.2	0
	TOTAL									48276.73	34237	14039.73



- 3. Green Building Practices: HEI has eco-friendly buildings with sustainable materials, energy-efficient designs, and green technologies to reduce energy consumption and promote environmental sustainability.
- 4. Tree Plantation and Afforestation: College engage in tree plantation drives and afforestation projects to enhance green cover, combat climate change, and create a healthier environment on campus.



5. Water Conservation: Implemented water-saving measures, such as rainwater harvesting, ground water recharge, and promoting water conservation practices among students and faculty.



6. Waste Management Programs: Established waste management systems and monitored that the waste materials to be collected timely by Bilaspur Municipal Corporation to reduce, reuse, and recycle waste. HEI also promotes composting, and minimizing landfill contributions.



7. Renewable Energy Initiatives: Installed solar panels, and other renewable energy sources to generate clean energy on campus and reduce reliance on fossil fuels.



8. Environmental Education and Awareness: Prescribed courses on environmental issues, conduct workshops, seminars, and campaigns, and various other activities to educate students and staff about environmental issues, sustainability practices, and the importance of conservation.

These initiatives collectively contribute to creating a more sustainable and environmentally conscious campus environment, fostering a culture of environmental responsibility and energy efficiency among college communities.

Plant species present in the college campus were audited by the Department of Botany. The taxonomical identification includes the botanical name, common name and number of plants. The following table provides the details of the audited tree species in the campus.

List of Botanical Plants in the College Campus

Department of Botany	
List of Plants in the college campus (2022-202	(3)

Tree					
S.No.	Common Name	Botanical Name			
1	शीशम	Dalbergia sissoo			
2	<b>э</b> मलतास	Cassia fistula			
3	सागीन	Tectona grandis			
4	आंवला	Phyllanthus emblica			
5	नीम	Azadirachta indica			
6	जंगलजलेबी	Pithecellobium dulce			
7	ಈಕರ	Dioscorea bulbifera Lim			
8	कटहल	Artocarpus heterophyllus			
9	बब्र्ल	Acacia nilotica			
10	ਕੇਨਾ	Aegel marmelos			
11	जामुन	Syzygium cumini			
12	करंज	Millettia pinnata			
13	बरगद	Ficus benghalensis			
14	आम	Mangifera indica			

15	नीलगिरी	Eucalyptus spp.		
16	ਪੀਧਕ	Ficus religiosa		
17	क्रिसमसट्री	Araucana columnaris		
18	अमरुद	Psidium guajava		
19	कचनार	Bauhinia variegata		
20	अशोक	Saraca asoca		
21	नारियल	Cocos nucifera		
22	बादाम	Prunus amygdalus		
23	बेर	Ziziphus mauritiana Moringa oleifera Bombax ceiba Swietenia mahagon		
24	मुंनगा			
25	सेमल			
26	महोगनी			
27	विलायतीबबुल	Vachella farnesiana		
28	सीताफल	Annona squamosa		
29	सायकस	Cycus spp.		
30	जुनिपेरस	Juniperus		
31	विद्यापति	Thuja		
32	अमलतास	Cassia siamea		

34	तेजपत्ता	Cinnamomum tamala			
35	बोहारभाजी	Cordia dichotoma Pithecellobium dulce			
36	गंगाइमली				
	HERBS	Æ			
S.No.	Common Name	BotanicalName			
1	लेमनग्रास	Cymbopogon martinii  Barleria prionitis			
2	केसरिया				
3	फर्न	Adiantum capillus			
4	अश्वगंधा	Withania somnifera  Clitoria ternata  Epipremnum aureum			
5	अपराजिता				
6	मनीप्लांट				
7	चिरैयाफूल	Impatiens balsamina			
8	तुलसी	Oscimum sanctum			
9	दौना	Ocimum gratissimum			
10	छुईमुई	Mimosa pudica			
11	मॉगरा	Jasminum grandiflorum			
12	हेज	Duranta erecta			
13	गुलदाउदी	Chrysanthemum sps.			
14	सदास्हागन	Catharanthus roseus			

6	कपास	Gossypium herbaceum			
7	टेकोमा	Tecoma stans  Musa paradisiaca			
8	केला				
9	फायर ब्रश पौधा	Hemalia petens			
10	सतावर	Asparagus racemosus			
11	मधुमालती	Combretum indicum			
12	कुंदा	Jasminum oleaceae			
13	भुआवला	Phyllanthus emblica			
14	पीलीकनेर	Thevetia nerifolia Phoenix spp.			
15	छीन				
16 क्रोटान		Croton spp.			
17	मिचींमदार	Malvaviscus arboreus			
18	अनार	Punica granatum			
19	पत्थर चूर	Coleus spp.			
20	पर्पल हार्ट प्लांट	Tradescantia spp.			
21	आक	Calotropis gigantea			
22	कनेर	Nerium oleander			
23	मदार	Hibiscus –rosa-sinensis			
24	जंगल फ्लेम	Ixora spp			

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Principal
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