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VIRANGANA AVANTI BAI GOVT. COLLEGE CHHUIKHADAN
DIST – RAJNANDGAON (C.G.)



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INTERNAL QUALITY ASSURANCE CELL(IQAC)

Submitted to:

Dr. Smt Shakuntala Tripathi

(Principal -in Charge)

GREEN AUDIT REPORT

2020-2021

IQAC Coordinator

Virangana Avanti Bai
Govt. College Chhuikhadan
Dist- Rajnandgaon (C.G.)

Principal


Virangana Avanti Bai
Govt. College Chhuikhadan
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District - Rajnandgaon

Chhattisgarh.

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Introduction

Green Audit is a process of systematic identification , quantification , recordings, reporting and analysis of components of environmental diversity of any Institution. It aims to analyze environmental practices within and outside of the Institution, which will have an impact on the eco friendly atmosphere.

Green audit can be a useful tool for an institution to determine how and where they are using the most energy or water or resources, The Institution can then consider how to implement changes and making savings. It can also be used to determine the type and volume of waste . It can create health consciousness and promote environmental awareness, values and ethics. It provides Staff and Students better understanding of green impact on campus.

Thus it is imperative that this college evaluate its own contributions towards a sustainable future.

As Environmental sustainability is becoming and increasingly important issues for the nation , The role of our institution in relation to environmental sustainability is more prevalent.

Objectives

The college has been putting efforts to keep our environment clean since its beginning but the auditing of this non scholastic effort of the college has not been documented properly. Therefore the objective of this Green Audit is to identify , Quantify , describe and prioritize frame work of environmental sustainability in compliance with the applicable regulations ,policies and standards.

The main objectives of carrying out Green Audit are:

1. To document the floral and faunal diversity of the college.
2. To record the meteorological standards of Chhuikhadan where college situated.

3. To document the waste disposal system.
4. To introduce and aware students to real concerns of environment and its sustainability.

Methodology

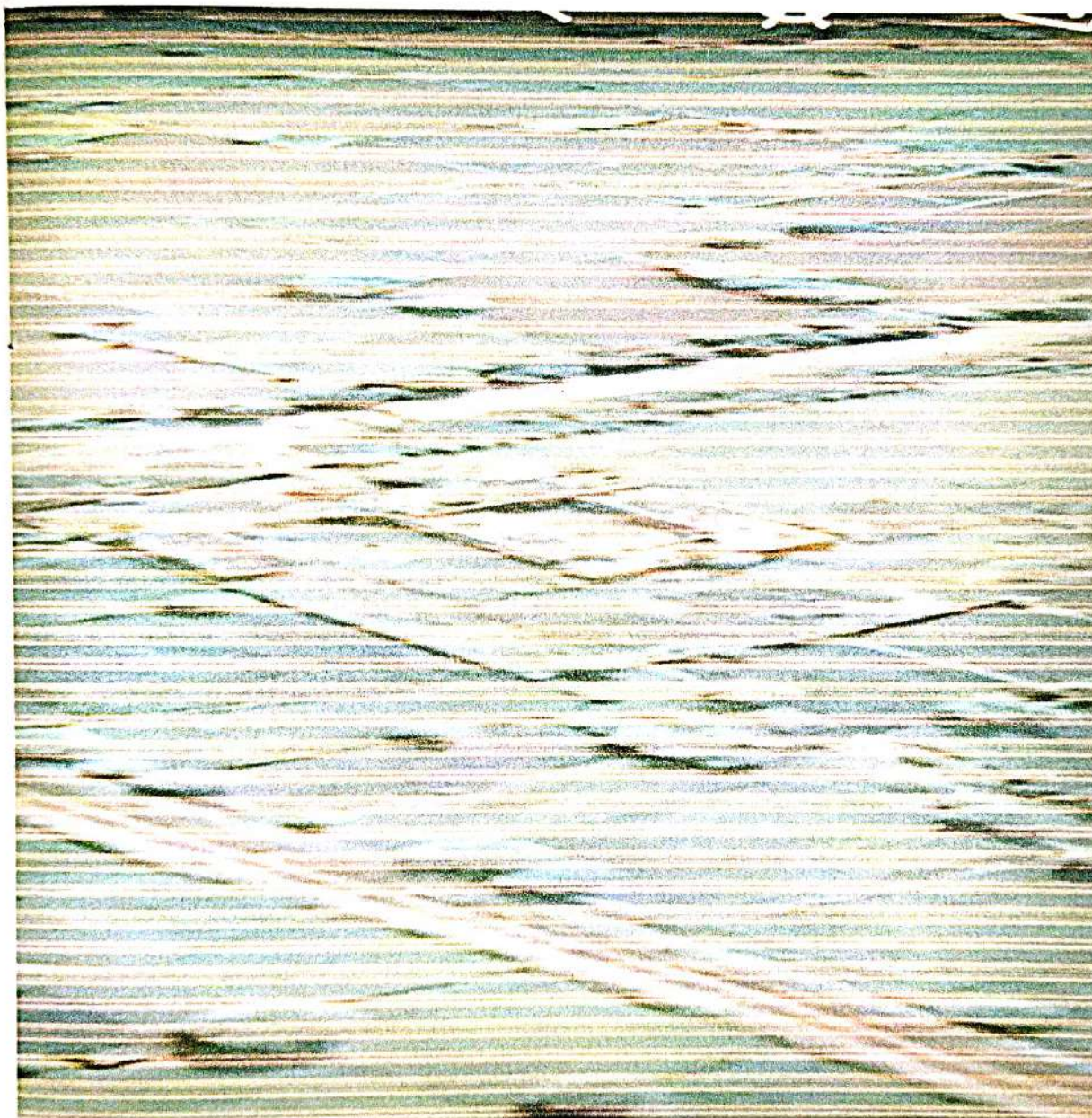
The purpose of Green Audit of Virangana Avanti Bai Govt. College Chhuikhadan is to ensure that the practices followed in the campus are in accordance with the Green policy adopted by the Institution.

The methodology included :

- Physical Inspection of the Campus
- Observation and review of documents.
- Interviewing Key persons , and
- Data analysis , measurement and recommendations.

Geographical Location with Campus Map Scale

Chhuikhadan is a City in Rajnandgaon District in the state of Chhattisgarh, India. Chhuikhadan is located at $21.53^{\circ}\text{N } 80.98^{\circ}\text{E}$.^[1] It has an average elevation of 337 metres (1105 ft).



Land Use Analysis

The total area of Virangana Avanti Bai Govt. College Chhuikhadan , District- Rajnandgaon Chhattisgarh is 7Acre 84 Dismil (31727.351 sq metres) out of which the built up area is 1464 sq metres and open space & plantation area is approx 30263.351 Sq metres.

Categories of Land Use

College Building 1278 Sq metres

Additional Building 185.80 Sq metres

Open Area & Plantation Area 30263.351 Sq metres

Tree Diversity of Campus

List of Medicinal Plants:

S.No	Local Name of Plant	Scientific Name	Family	Quantity
1.	Pattarchatta	<i>Bryophyllum pinnata</i>	Crassulaceae	07
2.	Tulsi	<i>Ocimum sanctum</i>	Lamiaceae	10
3.	Aloevera	<i>Aloe vera</i>	Asphodelaceae	15
4.	White cedar	<i>Thuja occidentalis</i>	Cupressaceae	06
5.	Elephant Ear	<i>Colocasia</i>	Araceae	04
6.	Beef Steak	<i>Cryptanthus fostenanus</i>	Bromeliaceae	02
7.	Bell Mimosa	<i>Dichrostachys cinerea</i>	Fabaceae	01
8.	Honey Locust	<i>Gleditsia triacanthos</i>	Fabaceae	01
9.	Neem	<i>Azadirachta indica</i>	Meliaceae	03
10.	Oak	<i>Callotrophis procera</i>	Asclepideaceae	02
11.	Amrud	<i>Psidium guajava</i>	Myrtaceae	04
12.	Aashok	<i>Saraca asoca(indica)</i>	Fabaceae	02
13.	Lantana	<i>Lantana camara</i>	Verbenaceae	04
14.	Sweet Flag/ Muskrat root	<i>Acorus calamus</i>	Acoraceae	12
15.	Gurjo or Giloy	<i>Tinospora cordifolia</i>	Menispermaceae	10
16.	Asparagus	<i>Asparagus setaceus</i>	Asparagaceae	12

17.	Sarpagangha	<i>Rauwolfia serpentina</i>	Apocynaceae	10
18.	Indian rose wood	<i>Dalbergia sissoo</i>	Fabaceae	25

List of Ornamental plants

S.No	Local Name of Plant	Scientific Name	Family	Quantity
1.	Dragan tree	<i>Dracaena mariginata</i>	Asparaceae	6
2.	Purple false eranthemum	<i>Pseuderanthemum atropurpureum</i>	Acantheaceae	5
3.	Chandani	<i>Tabernatmontana divaricata</i>	Apocynaceae	4
4.	Pedilanthus	<i>Pedilanthus tithymaloides</i>	Euphorbiaceae	7
5.	Pametree	<i>Dyopsis pentana</i>	Arecaceae	2
6.	Tea plant	<i>Cardyline fruticosa</i>	Asparagaceae	3
7.	Garden croton	<i>Codiadaeum Variegatum</i>	Euphorbiaceae	5
8.	Peregrina	<i>Jatropha integerrima</i>	Euphorbiaceae	6
9.	Copperleaf	<i>Acalypha wilkesiana</i>	Euphorbiaceae	4
10.	Pencil cactus	<i>Euphorbia triucalli</i>	Euphorbiaceae	1
11.	Saptaparni	<i>Alstonia scholaris</i>	Apocynaceae	4
12.	Crinum	<i>crinum</i>	Amaryllidaceae	3

		<i>latifolium</i>	eae	
13.	Heena	<i>Langurstromia spesosa</i>	Lynthracea e	5
14.	Ixxora	<i>Hamelia patens</i>	Ruviaceae	4
15.	Fiery costus	<i>Chamaecostus cuspidatus</i>	Castaceae	2
16.	Fragarnt virgins bower	<i>Clematis flammula</i>	Ranunculac eae	2
17.	Red frangi pani	<i>Pluneria rubra</i>	Apocynace ae	2
18.	Golden trumpet	<i>Allamanda cathurtica</i>	Apocynace ae	2
19.	China rose	<i>Hibiscus rosa sinensis</i>	Malvaceae	6
20.	Chinese fan Palm	<i>Livistona chinesenensis</i>	Arecaceae	1
21.	Cycus plant	<i>Cycus reboluta</i>	Cycadacea e	1
22.	Olearia	<i>Olearia paniculata</i>	Asteraceae	2
23.	Donaauroora	<i>Mussaendaphill ippica</i>	Rubiaceae	1
24.	Kaner	<i>Nerium indicum</i>	Apocynace ae	6
25.	Gulmohar	<i>Delonix regia</i>	Fabacea	20

List of Oil Producing plant

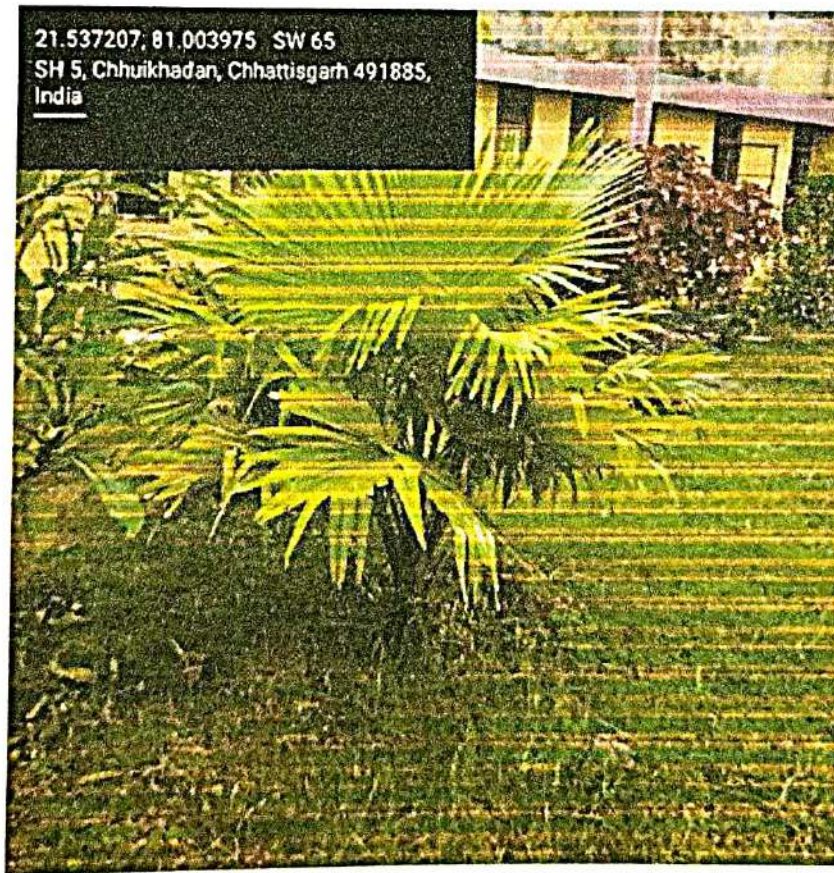
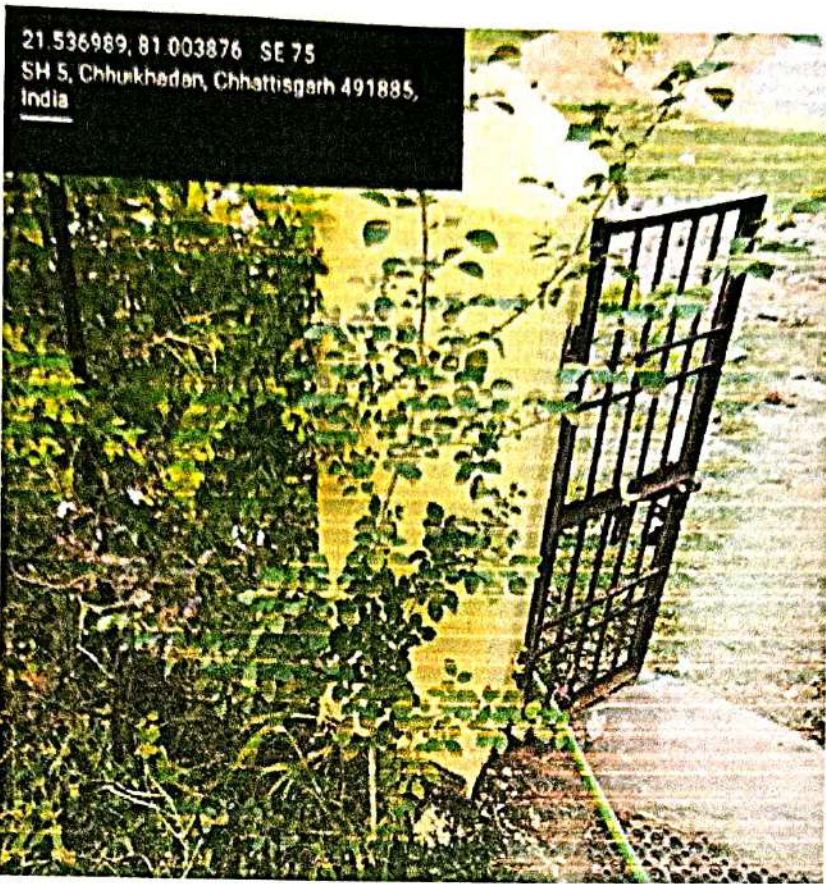
S.No	Local Name of Plant	Scientific Name	Family	Quantity
1.	Ratanjot	<i>Jotropha curcas</i>	Euphorbiaceae	2
2.	Karanja	<i>Milltettia pinnata</i>	Fabaceae	15

List of Timber wood plant

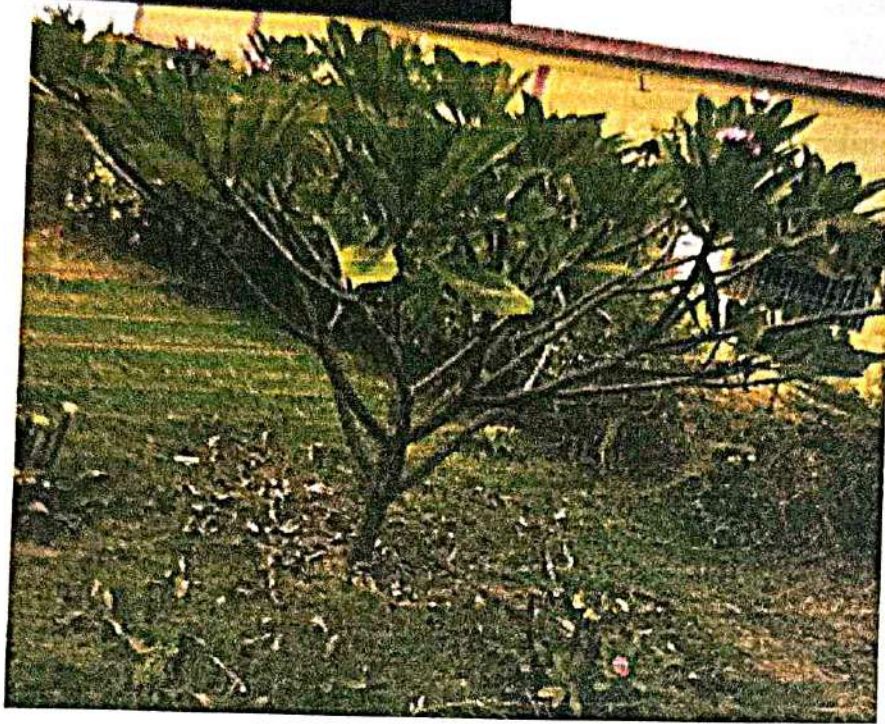
S.No	Local Name of Plant	Scientific Name	Family	Quantity
1.	Sagon	<i>Tectona grandis</i>	Euphorbiaceae	2

List of Food plant

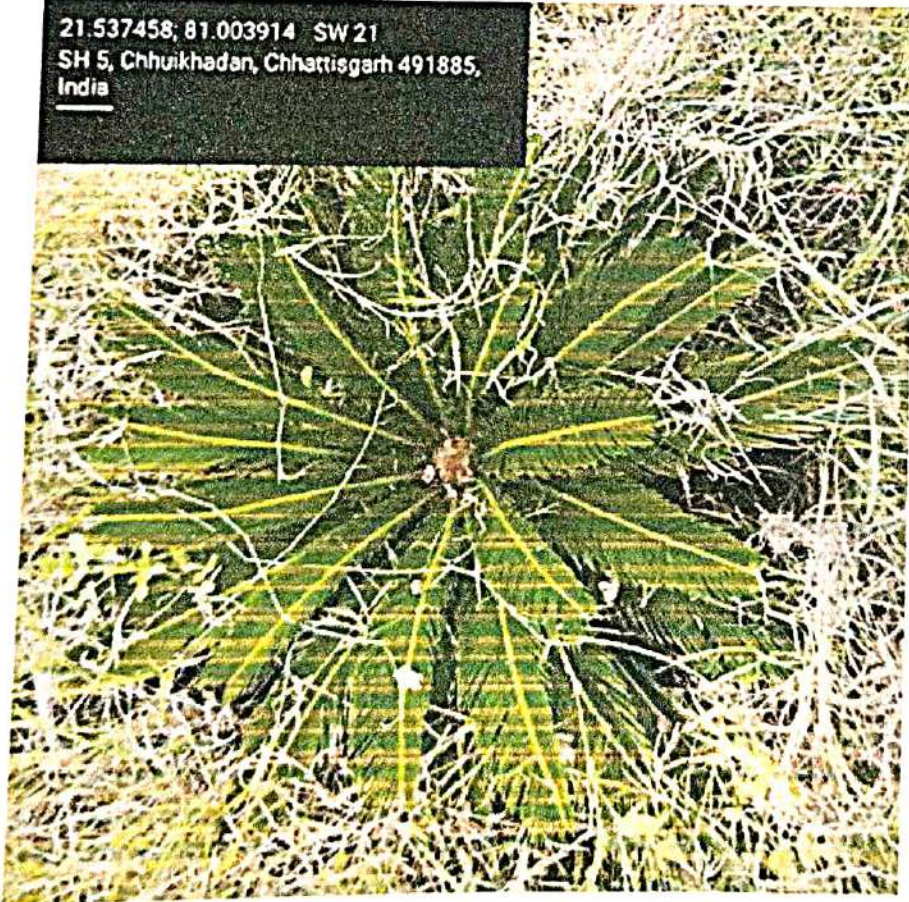
S.No	Local Name of Plant	Scientific Name	Family	Quantity
1.	Banana	<i>Musa</i>	Musaceae	10



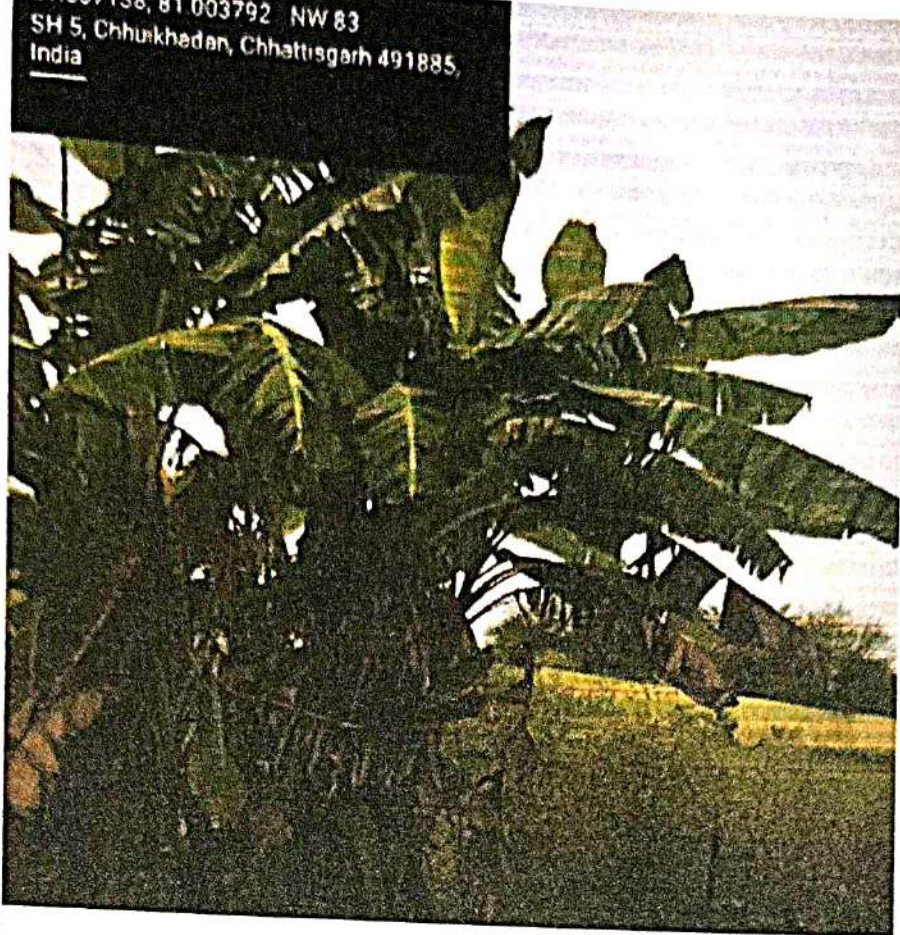
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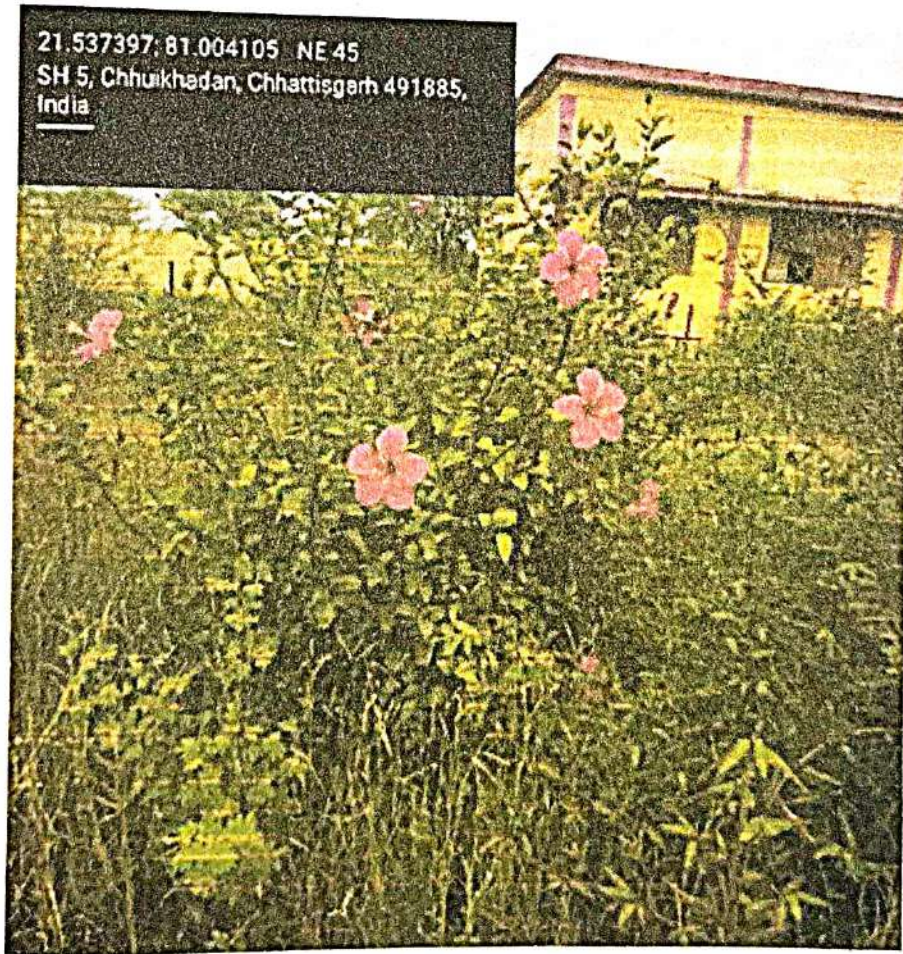
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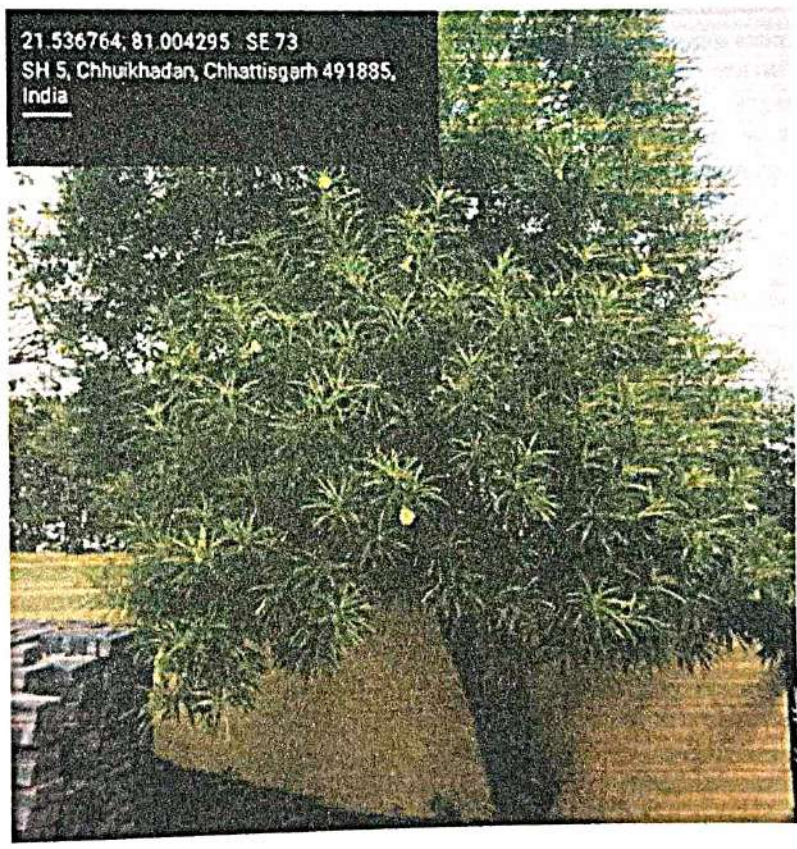
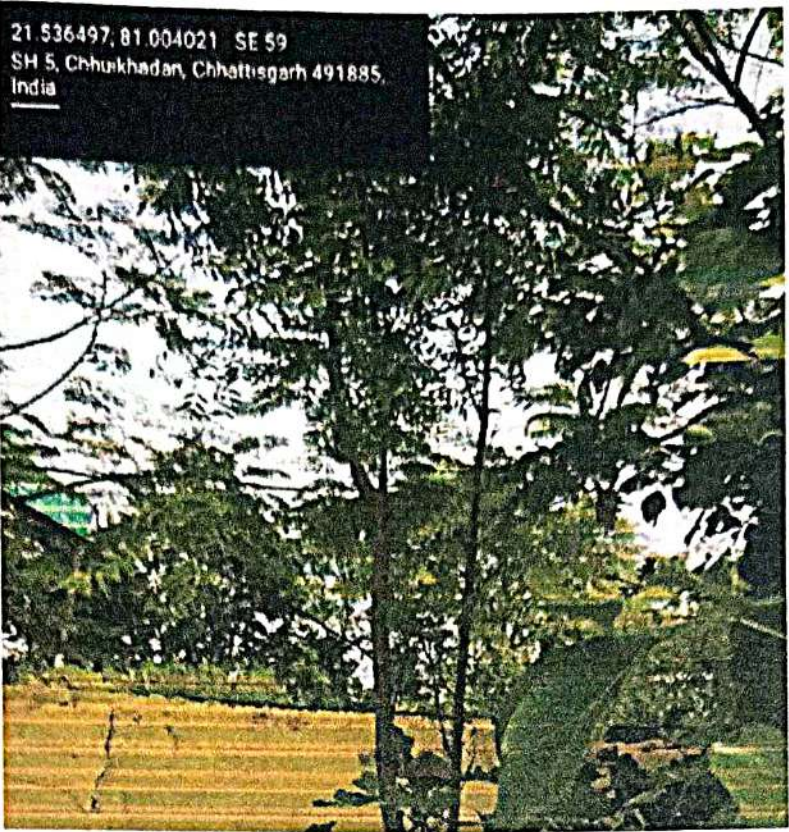


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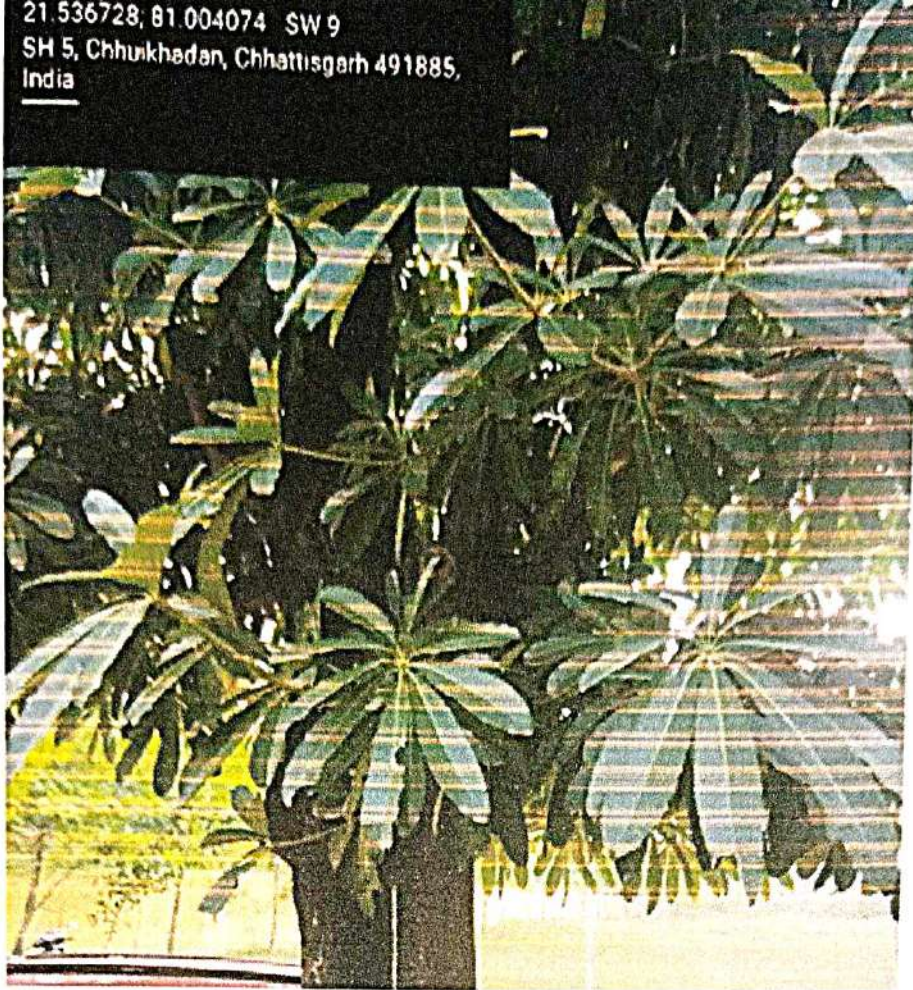


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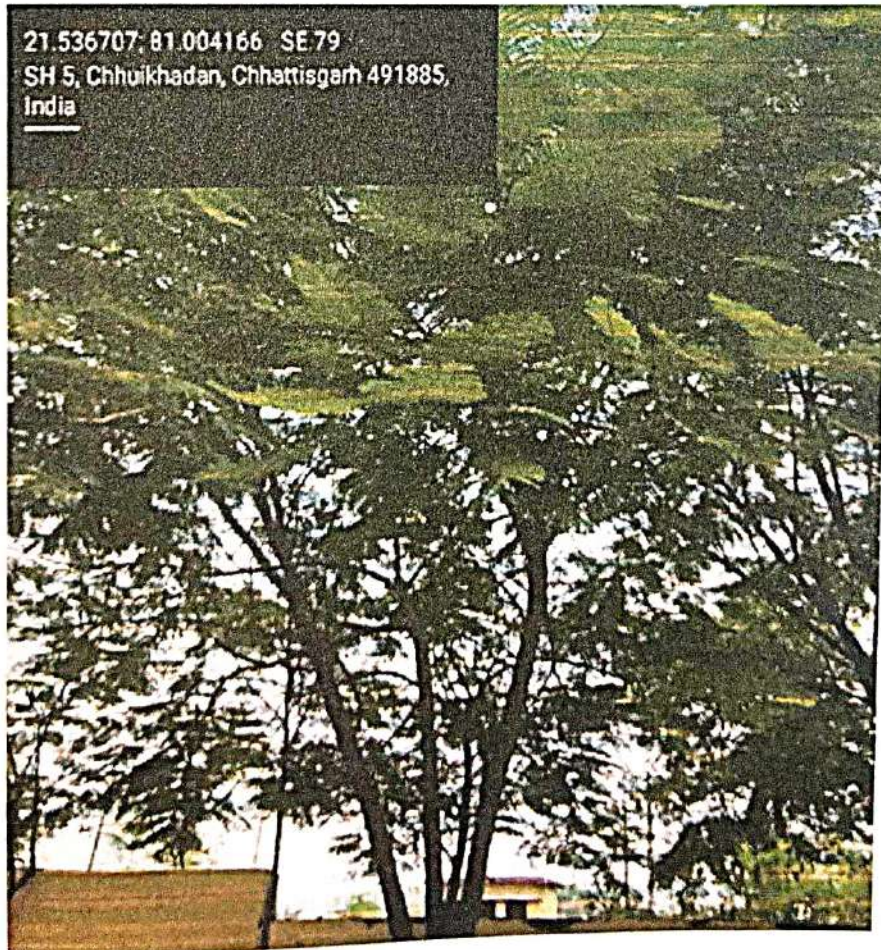




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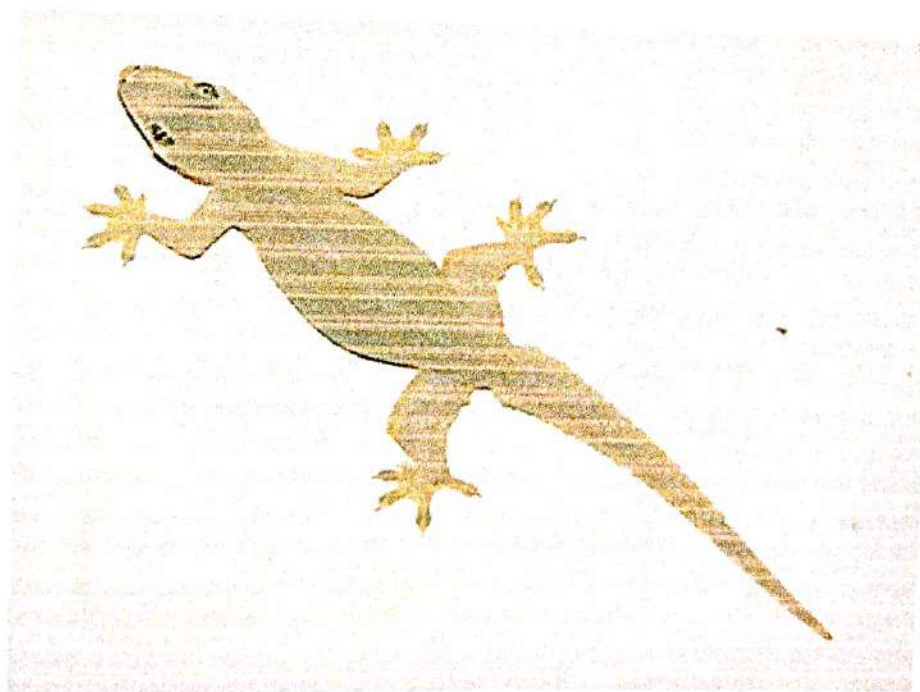
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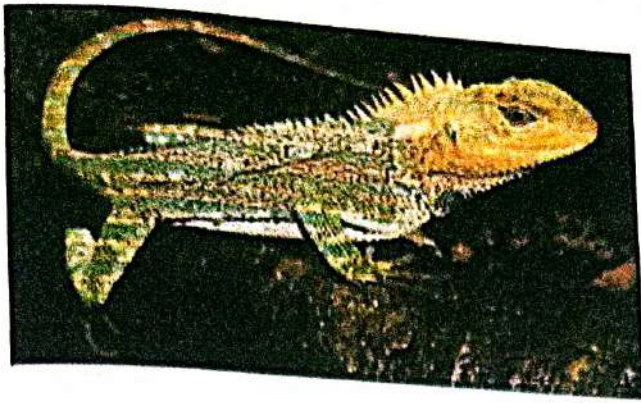


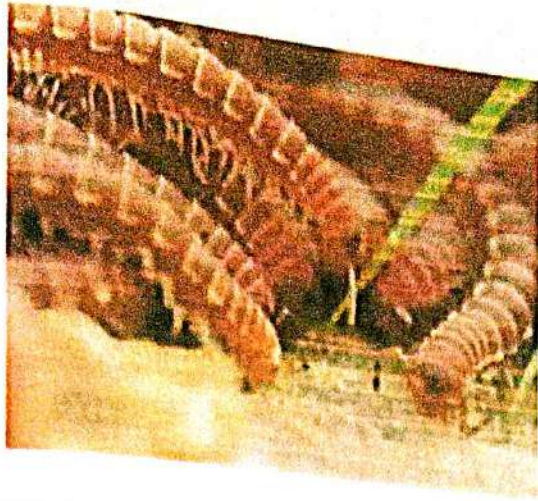
Faunal Diversity in Campus

The Faunal Diversity Viranagana Avanti Bai Govt. College Chhuikhadan campus has been studied and documented as below-

S.No	Faunal Group	Scientific / Common Name
1.	Annelides	<i>Genus pheretima</i>
2.	Birds	<i>House sparrow, Bulbul, Robin, Magpie robin, Crow, Cuckoo, Greater coucal, Kite, Sun bird, Drongo, Hudhud, Grey hornbill etc.</i>
3.	Insects	<i>Butterflies, Dragonflies, Ants, Damselfies, Mantis, Grasshoppers, Crickets, Honey Bee, Wasp etc.</i>
4.	Molluscs	<i>species of Garden Snails, Slugs, Lymnaea etc.</i>
5.	Mammals	<i>Squirrels, Dogs, Monkey etc.</i>
6.	Arachnids	<i>Genus Araneus, Argiope, Nesticodes, Parasteatoda etc. Hottentotta tumulus, Buthus occitanus</i>
7.	Reptiles	<i>Podarcis muralis, Calotes versicolor, varanus bengalensis, Eutropis carinata, Ptyas mucosa, Bungarus caeruleus, Bungarus fasciatus, Fowlea piscator, Indotyphlops braminus, Amphiesma stolatum Naja naja etc.</i>









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Findings

Virangana Avanti Bai Govt. College Chhuikhadan , Rajnandgaon , Chhattisgarh which was established in the year 1989, has an eco-friendly environment. It has a long legacy of healthy environmental practices plantation, their preservation and maintenance. Its Land use is such that about 75 % of the total area is occupied by open land and plantation that generates a better and sustainable campus environment.