

# Ch. Balluram Godara Govt. Girls College, Sriganganagar

## IN-HOUSE GREEN AUDIT REPORT

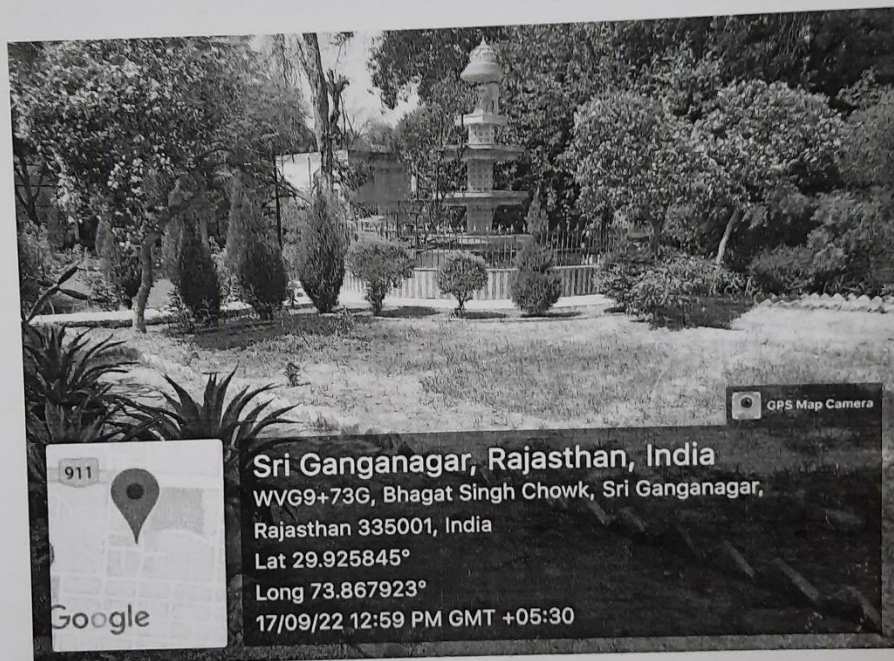


### Prepared by Green Audit Committee: -

1. Dr. Indra Saharan
2. Dr. Richa Kukkar
3. Dr. Sunil Kumar
4. Mr. Vivek Sharma
5. Mr. Jasveer Singh
6. Mr. Jaikishan

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*SP*

### **Introduction: -**

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of the institution which helps to plan for more efficient resource management to make the campus eco-friendly.

### **Objectives:**

The main aim of the in-house green audit is to assess the environmental status of the campus. The specific objectives are:

- To assess the quality of the water and soil in the college campus
- To monitor the energy consumption pattern of the college
- To quantify the liquid and solid waste generation and management plans in the campus.
- To assess the carbon foot print of the college
- To Provide a database for corrective measures and future plans for eco-friendly campus
- To assess whether extracurricular activities of the Institution support the collection, recovery, reuse and recycling of solid wastes
- To identify the gap areas and suggest recommendations to strengthen the Green Campus status of the College.

### **Target Areas of Green Auditing**

- Water
- Biodiversity: Fauna and Flora
- Carbon Foot-Prints
- Soil
- Energy
- Waste -Management

### **Green Audit: Process and Methodology**

1. Discussion with authorities, faculty members and interaction with the students.
2. Data collection through observation and survey
3. Data Analysis
4. Recommendations to the college Administration.

**The observations of the team during the Initial phase of Green Auditing in the campus:**

**1.Biodiversity :** College is located in Sriganganagar district of Rajasthan. It has got extreme climates. The higher temperature. The Team has attempted to document the faunal and floral diversity with the help of the students of Science Stream.

➤ **Floral Diversity:-**

The campus area of college immensely diverse with a variety of plant species performing a variety of functions. Most of these species are planted in different periods of time – through various plantation programmes oriented by authority and become integral part of the college.

**List of Plant species available in the campus :-**

S.NO. COMMON NAME	BOTANICAL NAME	FAMILY
1 MANGO	<i>Magifera indica</i>	Anacardiaceae
2 CHANDNI	<i>Tabernaemontana divaricata</i>	Apocynaceae
3 CHRISTMAS TREE	<i>Araucaria heterophylla</i>	Apocynaceae
4 AMLA	<i>Phyllanthus emblica</i>	Araucariaceae
5 BALAM KHEERA	<i>Kigelia africana</i>	Phyllanthaceae
6 BAHERA	<i>Terminali abellirica</i>	Bignoniaceae
7 GULMOHAR	<i>Delonix regia</i>	Combretaceae
8 ASHOKA	<i>Saraca asoca</i>	Royalpoinciana
9 SAT PATTI	<i>Alstonia scholaris</i>	Fabaceae
10 KANER	<i>Cascabela thevetia</i>	Apocynaceae
11 TAMARIND	<i>Tamarindus indica</i>	Apocynaceae
12 ANAR	<i>Punica granatum</i>	Fabaceae
13 JUNGLE JALEBI	<i>Pithecello biumdulce</i>	Lythraceae
14 CHAMPA	<i>Magnolia champaca</i>	Leguminosae
15 BOTTLE BRUSH	<i>Callistemon salignus</i>	Myrtaceae
16 CHINA PALM	<i>Livistona chinensis</i>	Arecaceae
17 GOLDEN BOTTLE BRUSH	<i>Melaleuca bracteata</i>	Myrtaceae

18 HARSINGAR	<i>Nyctanthes arbortristis</i>	Oleaceae
19 GAUVA	<i>Psidium guajava</i>	Myrtaceae
20 GULAR	<i>Ficus racemosa</i>	Moraceae
21 SAHJAN	<i>Moringa oleifera</i>	Moringaceae
22 BOTTLE PALM	<i>Hyophore lagenicaulis</i>	Arecaceae
23 SILVER OAK	<i>Grevillea robusta</i>	Proteaceae
24 BER	<i>Zizipus mauritiana</i>	Rhamnaceae
25 ROSE	<i>Rosa rubiginosa</i>	Rosaceae
26 LEMON	<i>Citrus limon</i>	Rutaceae
27 CURRY LEAF	<i>Murrayakoenigii</i>	Rutaceae
28 POPLAR	<i>Populus tremula</i>	Salicaceae
29 ARJUN	<i>Terminali arjuna</i>	Combretaceae
30 BANYAN	<i>Ficus benghalensis</i>	Moraceae
31 DESI BABOOL	<i>Acacia nilotica</i>	Fabaceae
32 DESI KADAMB	<i>Neolamarcia cadamba</i>	Rubiaceae
33 DHAK	<i>Butea monosperma</i>	Fabaceae
34 JAMUN	<i>Syzgium cumini</i>	Myrtaceae
35 KHEJRI	<i>Prosopis cineraria</i>	Fabaceae
36 MAHUA	<i>Madhuca indica</i>	Sapotaceae
37 NEEM	<i>Azadirachta indica</i>	Meliaceae
38 PEEPAL	<i>Ficus religiosa</i>	Moraceae
39 PILKHAN	<i>Ficus virens</i>	Moraceae
40 RAJAIN	<i>Holoptelea integrifolia</i>	Ulmaceae
41 WHITE SIRIS	<i>Albizia procera</i>	Leguminosae
42 AMALTAS	<i>Cassia fistula</i>	Leguminosae
43 KARANJ	<i>Pongamia pinnata</i>	Leguminosae
44 KHAIR	<i>Senegalia catechu</i>	Fabaceae
45 LASORA	<i>Cordia dichotoma</i>	Boraginaceae
46 AAK	<i>Calotropis procera</i>	Apocynaceae
47 PHAISA	<i>Grewia asiatica</i>	Malvaceae
48 KARONDA	<i>Carissa carandas</i>	Apocynaceae
49 ASHVAGANDHA	<i>Withania somnifera</i>	Solanaceae
50 SHISHAM	<i>Dalbergia sissoo</i>	Fabaceae

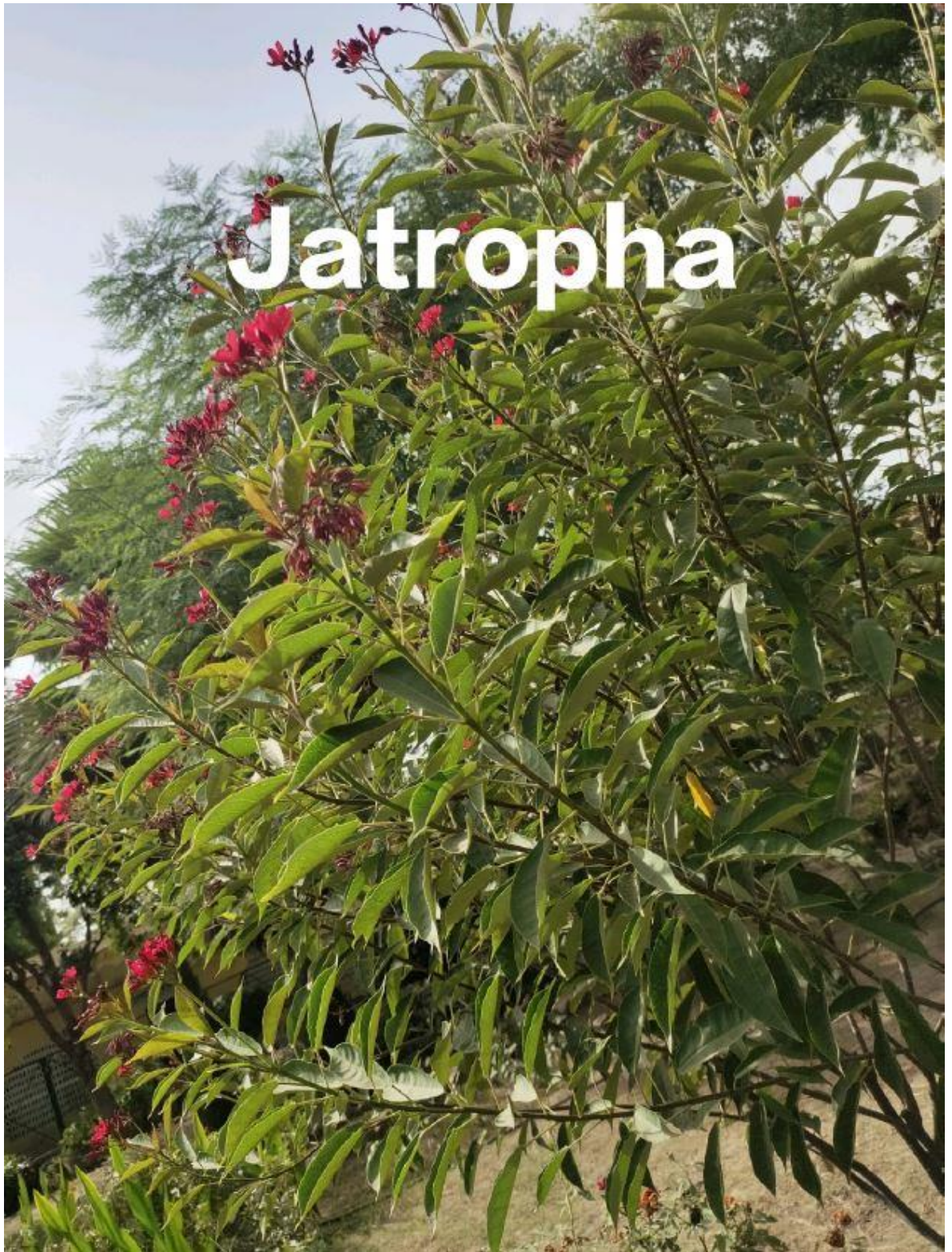
51 RUDRAKSHA	<i>Elaeocarpus ganitrus</i>	Elaeocarpaceae
52 SAFEDA	<i>Eucalyptus globulus</i>	Myrtaceae
53 BILVA	<i>Aegle marmelos</i>	Rutaceae
54 TULSI	<i>Ocimum tenuiflorum</i>	Lamiaceae
55 SADABAHAR	<i>Catharanthus pusillus</i>	Apocynaceae
56 RATRANI	<i>Cestrum nocturnum</i>	Solanaceae
57 MORPANKHI	<i>Platycladus orientalis</i>	Cupressaceae
58 JASMINE	<i>Jasminum grandiflorum</i>	Oleaceae
59 MOGRA	<i>Jasminum sambac</i>	Oleaceae
60 LILY	<i>Lilium candidum</i>	Liliaceae
61 LAVENDER	<i>Tradescantia pallida</i>	Commenlinaceae
62 NAGFANI	<i>Opuntia ficus</i>	Cactaceae
63 SEMAL	<i>Bombax ceiba</i>	Malvaceae
64 PETUNIA	<i>Petunia exserta</i>	Solanaceae
65 JHUMKA BEL	<i>Combretum indicum</i>	Combretaceae
66 BOUGAINVILLEA	<i>Bougainvillea spectabilis</i>	Nyctaginaceae
67 SHAHATOOT	<i>Morus nigra</i>	Moraceae
68 PATHARCHATTA	<i>Bryophyllum pinnatum</i>	Crassulaceae
69 MARIGOLD	<i>Tagetes erecta</i>	Asteraceae
70 GUDHAL	<i>Hibicus rosasinensis</i>	Malvaceae
71 HEENA	<i>Lawsoniainermis</i>	Lythraceae
72 PINUS	<i>Pinus densiflora</i>	Pinaceae
73 CYCAS	<i>Cycas circinalis</i>	Cycadaceae
74 TECOMA	<i>Tecoma stans</i>	Bignoniaceae
75 PLEOMELE	<i>Dracaena reflexa</i>	Asparagaceae
76 JHAD BER	<i>Zizipus nummelaria</i>	Rhamnaceae
77 JUNGLE KARONDA	<i>Carrissa spinarum</i>	Apocynaceae
78 TOTA	<i>Erythrina indica</i>	Fabaceae
79 KINNOW	<i>Citrus reticulata</i>	Rutaceae
80 DIN KA RAJA	<i>Cestrum diurnum</i>	Solanaceae
81 DATURA	<i>Datura wrightii</i>	Solanaceae
82 BANANA	<i>Musa paradisiaca</i>	Musaceae

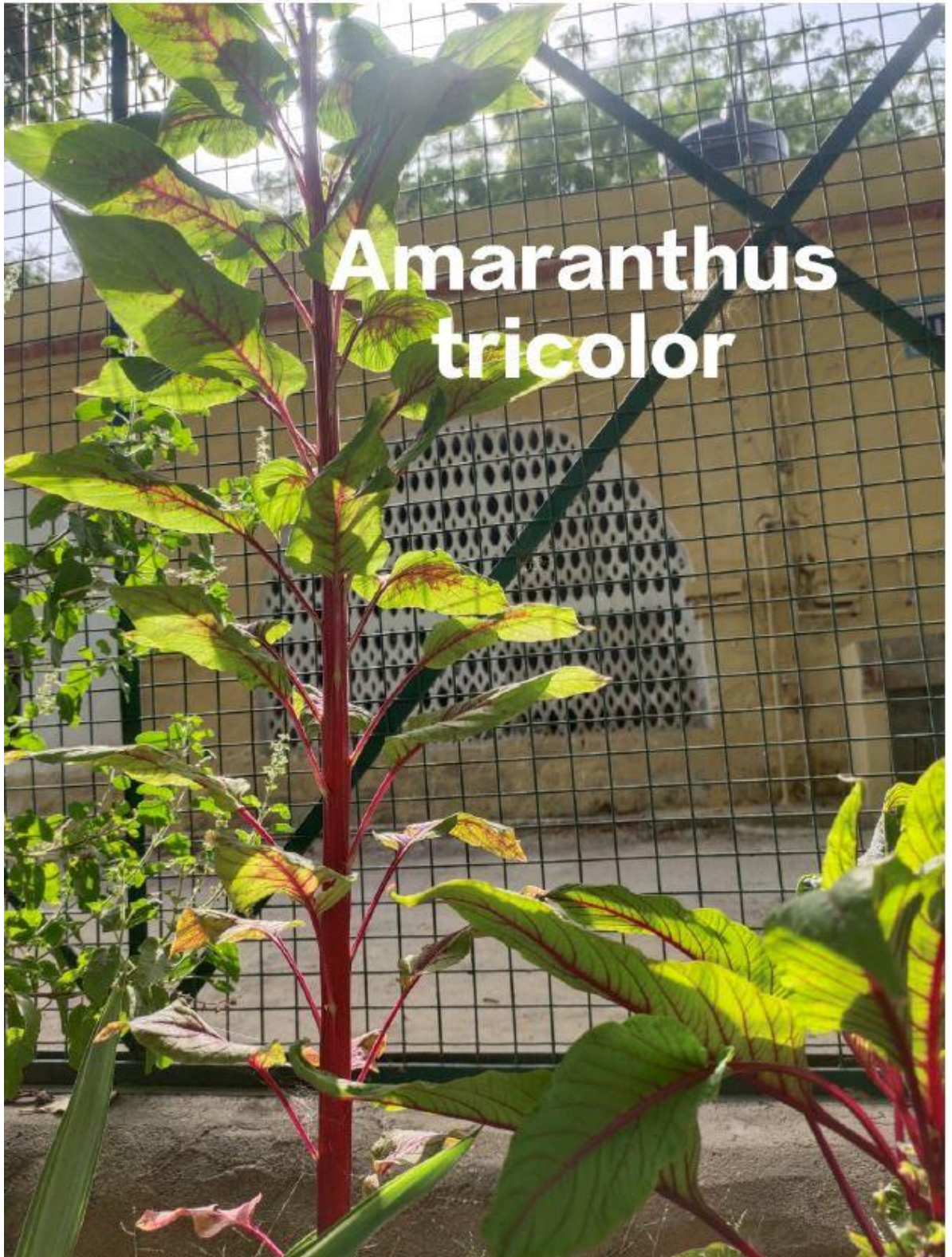




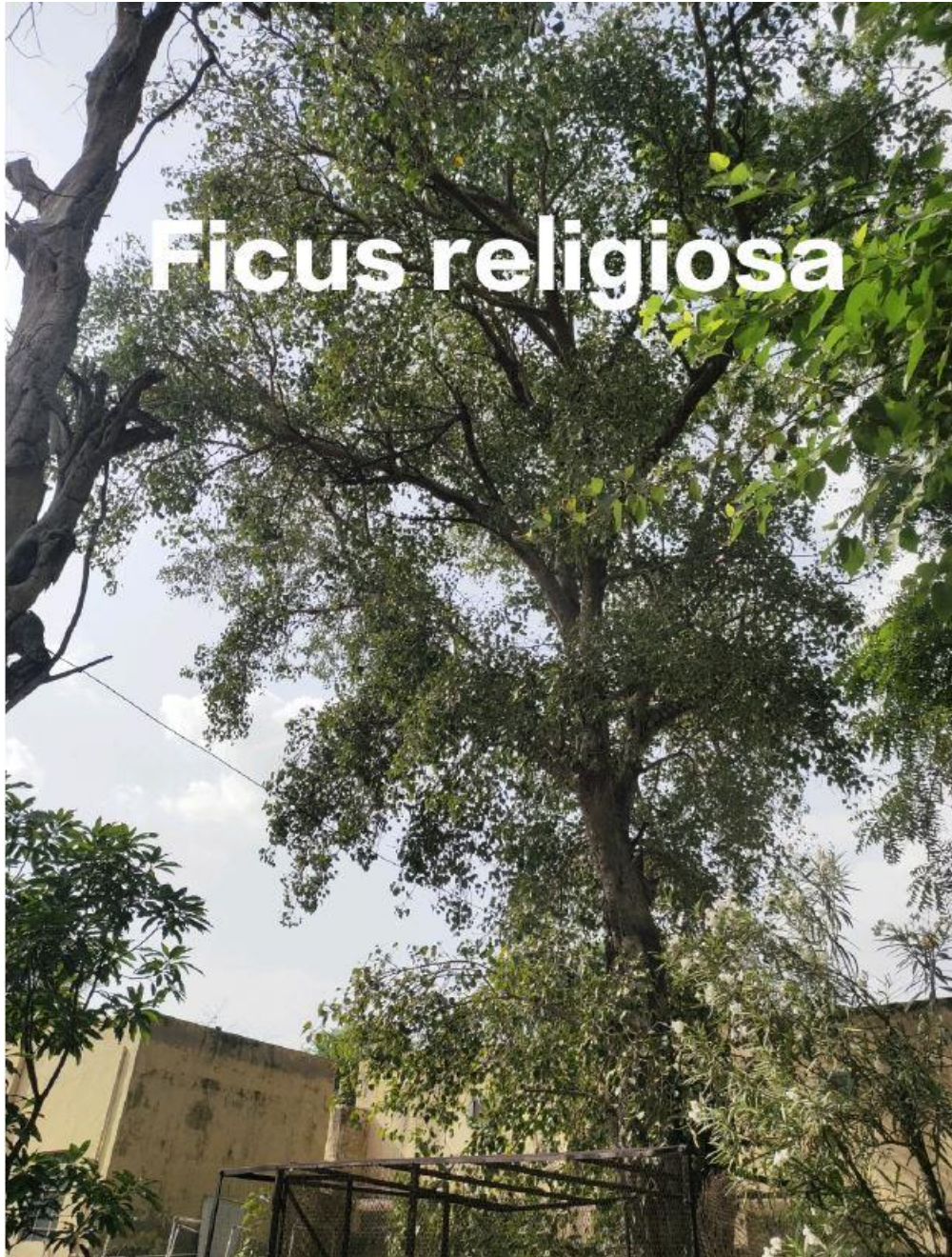






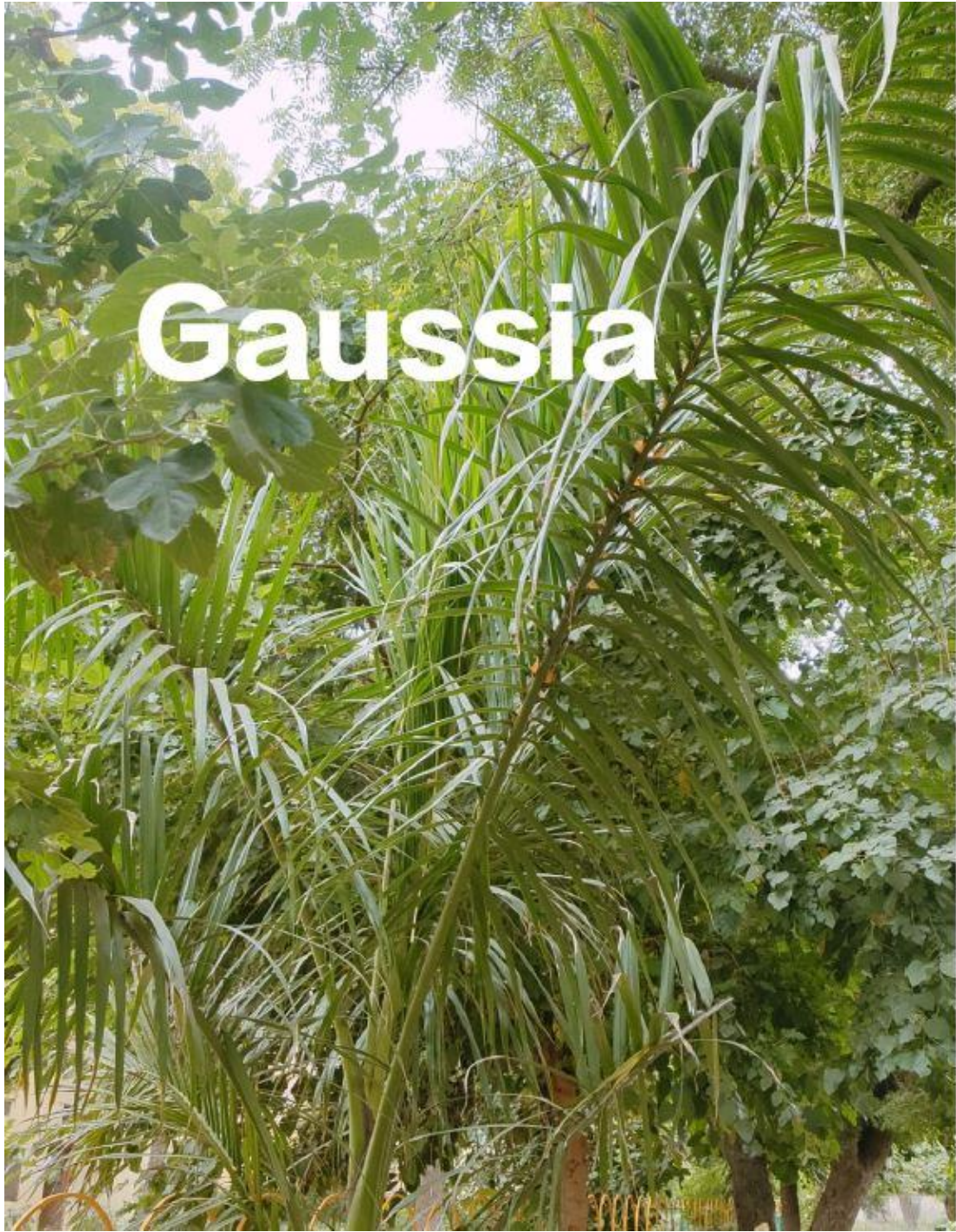




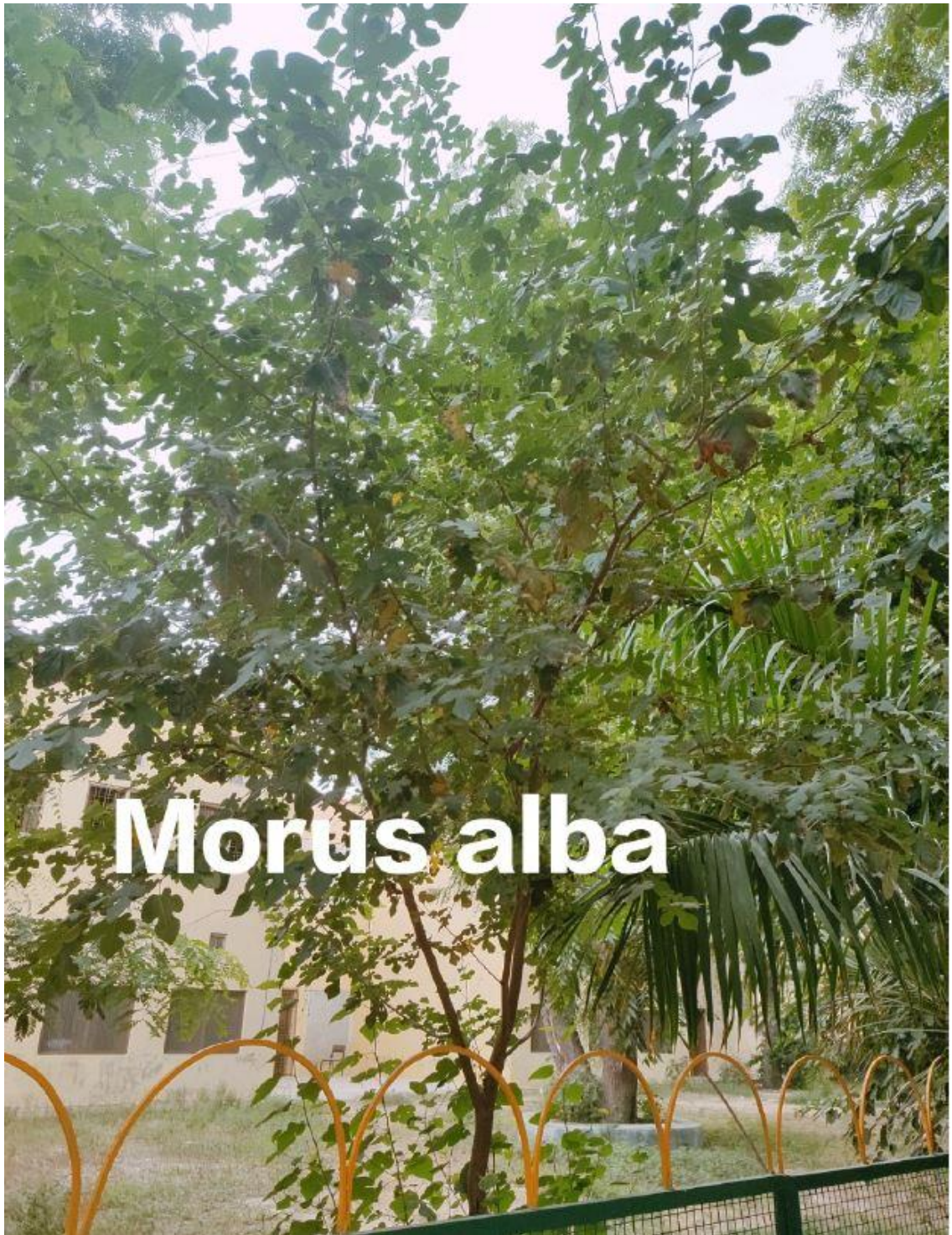
















➤ **FAUNA in the Campus:-**

Sr. No.	Common name	Zoological name
1	ASIAN KOEL	<i>Eudynamys scolopaceus</i>
2	PARROT	<i>Psittacus krameri</i>
3	HOUSE SPARROW	<i>Passer domesticus</i>
4	EARTHWORM	<i>Lumbricus terrestris</i>
5	CENTIPEDE	<i>Scutigera coleoptrata</i>
6	CROW	<i>Corvus splendens</i>
7	SQUIRREL	<i>Sciurus carolinensis</i>
8	PELICAN	<i>Pelecanus onocrotalus</i>
9	INDIAN ROLLER	<i>Coracias benghalensis</i>
10	PAINTED SANDGROUSE	<i>Pterocles indicus</i>
11	POND HERON	<i>Ardeola grayii</i>
12	SIND SPARROW	<i>Passer pyrrhonotus</i>
13	BLACK CROWNED SPARROW	<i>Eremopterix nigricip</i>
14	BLACK FRANCOLIN	<i>Francolinus francoliuns</i>
15	RIVER LAPWING	<i>Vanellus duvaucelii</i>
16	WHITE BELLIED MINIVET	<i>Pericrocotus erythropygus</i>
17	ROCK PIGEON	<i>Columba livia</i>
18	EURASIAN COLLARED DOVE	<i>Streptopelia decaocto</i>
19	RED WATTLED LAPWING	<i>Vanellus indicus</i>
20	ASIAN GREEN BEE EATER	<i>Merops orientalis</i>
21	RED VENTED BULBUL	<i>Pycnonotus cafer</i>
22	BAR HEADED GOOSE	<i>Anser indicus</i>
23	GREY HERON	<i>Ardea cinerea</i>
24	COMMON MYNA	<i>Acridotheres tristis</i>
25	BAYA WEAVER	<i>Ploceus philippinus</i>
26	PIED KINGFISHER	<i>Ceryle rudis</i>
27	BARN SWALLOW	<i>Hirundo rustica</i>
28	BLACK STORK	<i>Ciconia nigra</i>
29	DESERT LOCUST	<i>Schistocerca gregaria</i>
30	SILVER FISH	<i>Lepisma saccharina</i>
31	PLAIN TIGER BUTTERFLY	<i>Danaus chrysippus</i>
32	LADYBUG	<i>Coccinella septempunctata</i>
33	HOUSE ANT	<i>Lasius niger</i>
34	WHITE FLY	<i>Bemisia tabaci</i>
35	GROUND BEETLE	<i>Pterostichus melanarius</i>
36	LEMON EMIGRANT	<i>Catopsilia pomona</i>
37	PAPER WASP	<i>Polistes fuscatus</i>
38	COCKROACH	<i>Periplaneta americana</i>
39	Garden Lizard	<i>Calotes Versicolor</i>

**Faunal Diversity Through the eyes of the Camera:-**



**Faunal Diversity Through the eyes of the Camera:-**





















## 2. Water Sample Analysis:-

**DEPARTMENT OF ZOOLOGY**  
**WATER SAMPLE ANALYSIS**  
**FROM AUG 2022 TO OCT.2022**

SR. NO.	PARAMETERS	AUG	SEP	OCT
1	DISSOLVED OXYGEN	130 MG/LIT	140 MG/LIT	139 MG/LIT
2	ACIDITY	92 MG/LIT	98 MG/LIT	102 MG/LIT
3	ALKALINITY	65 MG/LIT	70 MG/LIT	84 MG/LIT
4	CHLORIDES	300 MG/LIT	280 MG/LIT	290 MG/LIT
5	HARDNESS	55.1 MG/LIT	48.2 MG/LIT	65 MG/LIT
6	PH.	7.5	7.7	7.9
7	SALINITY	622 MG/LIT	480 MG/LIT	540 MG/LIT
8	TOTAL DISSOLVED SOLIDS	70 MG/LIT	85 MG/LIT	78 MG/LIT

**Recommendations:**

1. The students of science should be assigned projects to survey and study in detail the faunal and floral diversity present in the campus so that they can work on the future perspectives for protection of engendered species.
2. The team felt the need to explore more for the possibilities of waste-management mechanism in campus.
3. The team recommends the soil-testing to determine the level of nutrients in the soil for the healthy growth of the plants in the campus.