

Principal office



NBA Accredited Courses

**AMRITSAR COLLEGE**  
**OF ENGINEERING & TECHNOLOGY**

UGC Autonomous College | Accreditation By NAAC 'A' Grade



# **GREEN AUDIT REPORT**

## **2018-2019**

AGC MOTO: ONE STUDENT ONE TREE

*[Handwritten signature]*

## EXECUTIVE SUMMARY

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development.

Amritsar Group of Colleges, Amritsar, is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reverse the trends. The purpose of the analysis was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. It works on the several facets of 'Green Campus' including Water Conservation by Rain water Harvesting, Tree Plantation, Waste Management, Paperless Work and Alternative Energy (Solar System).

## INTRODUCTION

Green means eco-friendly environment. GREEN can be described as 'Global Readiness in Ensuring Ecological Neutrality'. Green audit helps to get an idea about the energy consumption. It is connected to sustainable development process and is an effective way to solve the environmental problems.

## OBJECTIVES

The main objective of the green analysis is to promote the Environment Management and Conservation in the College Campus. The purpose of the analysis is to identify, quantify, describe and prioritize frame work of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Analysis are:

1. To map the Geographical Location of the College.
2. To document the floral and faunal diversity of the College.
3. To record the meteorological parameter of Manawala where college is situated.
4. To introduce and aware students to real concerns of environment and its Sustainability.
5. To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use of the campus.
6. To document the ambient environmental condition of weather, air, water and noise of the College.
7. To estimate the Energy requirements of the College.
8. To report the expenditure on green initiatives during the last five year.

## CONCLUSION

For a healthy future, saving money and befitting the environment green audit is important.

## VISION AND MISSION STATEMENT

### VISION

To produce competent Business Professionals and Entrepreneurs with necessary managerial and analytical skills possessing decision making ability.

### MISSION

- ✓ To nurture the future business professionals and entrepreneurs through imparting high quality value based teaching, research and practical training that meets industry expectations.
- ✓ To prepare management professionals with global mindset having outstanding leadership quality and impeccable personality.
- ✓ To bridge the gap between theory and practical in the knowledge economy.
- ✓ To provide high quality career enhancing business education.
- ✓ To foster a passion for learning and creative thinking among the students

## GREEN AUDIT ASSESSMENT TEAM

### INTERNAL

- ✓ Dr. Gurbir Singh, Associate Professor, Department of Agriculture.
- ✓ Dr. Maninder Singh Gill, Head, Department of Management Studies.
- ✓ Dr. Upain Bhatia, Head, Department of Civil Engineering.
- ✓ Dr. Kalpana Jaggi, Associate Professor, Department of Agriculture.
- ✓ Mr. Vicky, Supervisor AGC Agro Farm

### EXTERNAL

- ✓ Mr. Sharanjeet Singh, Khalsa College, Amritsar.
- ✓ Mr. Satnam Singh, Associate Professor, Soil Sciences, Khalsa College, Amritsar.
- ✓ Mr. Manpreet Singh, Associate Professor, Soil Sciences, Khalsa College, Amritsar.
- ✓ Dr. Amrinder Singh Riari, Assistant Professor, Department of Agriculture, Guru Nanak Dev University.



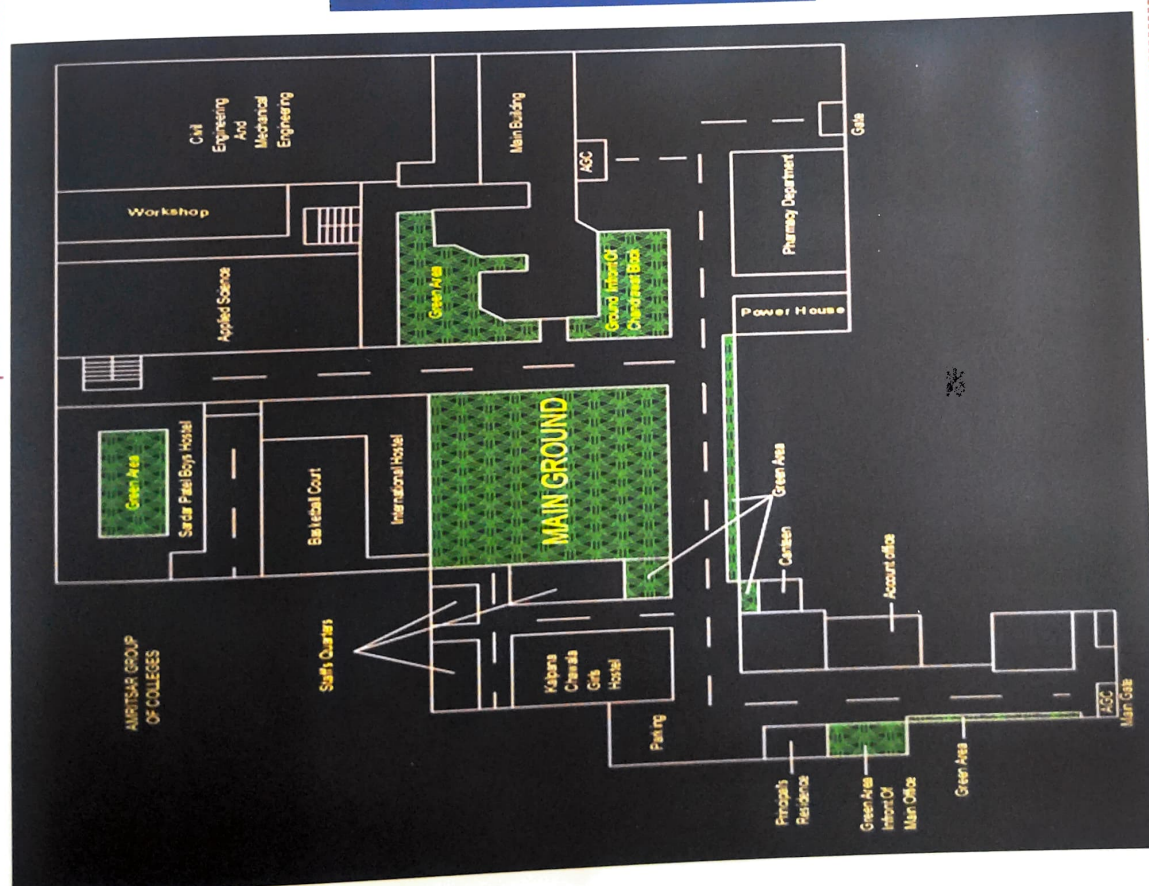
## DETAILS OF TREES AND PLANTS IN CAMPUS

| S.No. | Area Covered                        | Trees            | Plants      |
|-------|-------------------------------------|------------------|-------------|
| 1     | Entrance                            | 15               | 10          |
| 2     | Account's Office front              | 18               | 138         |
| 3     | Canteen Area                        | 19               | 16          |
| 4     | Principal Residence                 | 18               | 27          |
| 5     | Girls Hostel                        | 06               | 04          |
| 6     | Side of Canteen                     | 15               | 15          |
| 7     | Main Ground                         | 92               | 60          |
| 8     | Pharmacy Side                       | -                | 95          |
| 9     | Ground in front of Chandrawat Block | 12               | 140         |
| 10    | Fountain                            | 06               | 23          |
| 11    | Front side                          | 08               | 29          |
| 12    | Ground in front of Library          | 11               | 30          |
| 13    | Mechanical side                     | 09               | 50          |
| 14    | Boys Hostel                         | 06               | 87          |
| 15    | Girls Hostel                        | 8                | -           |
| 16    | Side of main ground                 | 11               | 75          |
| 17    | AGC Agro Farm                       | 120 (Fruit Tree) | 460         |
|       | <b>Total</b>                        | <b>374</b>       | <b>1259</b> |

| Sr. No. | Name of Tree /Plant |
|---------|---------------------|
| 1       | Bottle Palm         |
| 2       | Patonia             |
| 3       | Marigold            |
| 4       | Rose                |
| 5       | Alkanet             |
| 6       | Kesar               |
| 7       | Calendula           |
| 8       | Fish Palm           |
| 9       | Foxtal Palm         |
| 10      | Chrysanthemum       |
| 11      | Ficus               |
| 12      | Mango               |

| Sr. No. | Department                    | Number of Pots |
|---------|-------------------------------|----------------|
| 1       | AGC Agro Farm                 | 589            |
| 2       | Applied Sciences              | 112            |
| 3       | Mechanical & Civil Department | 51             |
| 4       | Main Building                 | 16             |
| 5       | Pharmacy                      | 12             |
| 6       | Girls Hostel/ Boys Hostel55   | 55             |

## AGC GREEN MAP



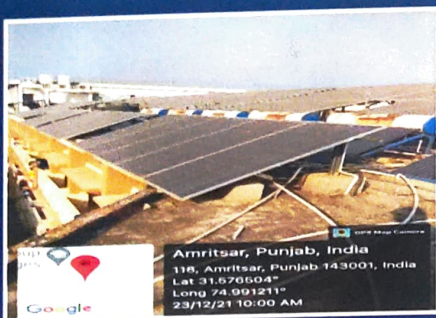


## ELECTRIC POWER CONSUMPTION AT AGC

The Institution has facilities for alternate sources of energy and energy conservation measures

- ✓ SOLARENERGY
- ✓ WHEELING TO THE GRID
- ✓ SENSOR-BASED ENERGY CONSERVATION
- ✓ USE OF LED BULBS/ POWER EFFICIENT EQUIPMENT

### SOLAR ENERGY



## AGC ORGANIC AGRO FARM

### FARM FACILITIES

- ✓ Various agricultural field equipments such as Sonalika Tractor, Disc harrow, Rotavator, Ridger, Cultivator, Mould Board Plough etc.
- ✓ AGC Organic Agro Farm has large area land, rainwater harvesting system and Drip irrigation system with fish rearing pond.
- ✓ Well-equipped Polyhouse and Green house for raising off-season crops.

## MAIN ATTRACTIONS AT AGC AGRO FARM



- ✓ Ornamental Garden
- ✓ AGC Ayur Garden
- ✓ Spice Valley
- ✓ Bonsai Garden
- ✓ Sensory Garden
- ✓ Wishing Corner
- ✓ Cactus Garden
- ✓ Hydroponics Unit
- ✓ Mushroom Unit
- ✓ Vermicompost Unit
- ✓ Polyhouse
- ✓ Fish Culture pond
- ✓ Fruit Nursery
- ✓ Organic Farming
- ✓ Natural Forest



## Vermicomposting



## Hydroponics Unit



## Mushroom Unit



## Polyhouse



## Rain Water Harvesting System



## Drip System Attached With Fish Pond



## Ayurvedic Garden





**Student Experimental Garden**



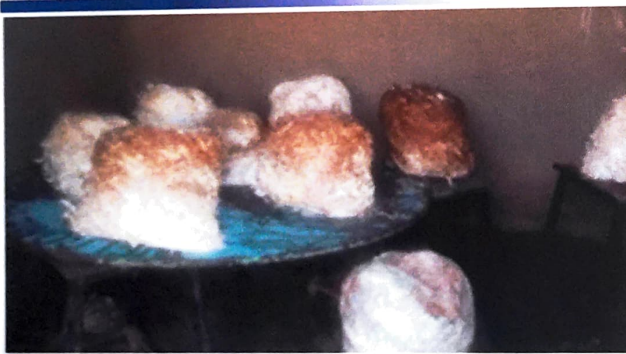
**Bonsai Garden**



**Growing of Vegetable under Polyhouse conditions**



**Mushroom Cultivation Units**



**AGC Aquafarming**







## Black Rice Growth



## Oyster and Button Mushroom Cultivation

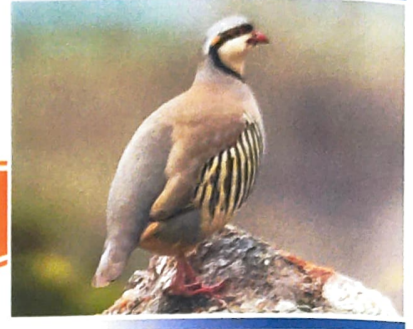




# Types of Bird Found at AGC



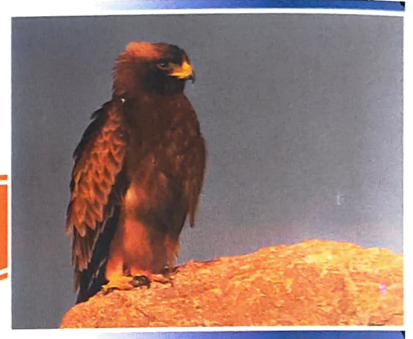
**Lesser  
Whistling duck**



**Chukar  
Partridge**



**Rock Pigeon**



**Rose-Ringed**



**Parakeet**



**Black-Winged  
Stilt**



**Alexandrine  
Parakeet**

WXL