



कार्यालय प्राचार्य, शासकीय वीर गेंद सिंह महाविद्यालय पखांजूर  
जिला -उ.ब.कांकेर (छ.ग.)

GOVT. VEER GEND SINGH COLLEGE PAKHANJORE (C.G.)



**ENERGY AUDIT REPORT**

(Session – 2018 to 2023)

Submitted by

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Govt. Veer Gend Singh College

Pakhanjore, Dist. U.B.Kanker(C.G)

Submitted to

Principal

Govt. Veer Gend Singh College

Pakhanjore, Dist. U.B.Kanker(C.G)



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## Preface

Data collection for energy audit of the Govt.Veer Gend Singh College , Pakhjnore campus was conceded by team for the period of 01 july 2018 to 30 june 2023. This audit was over sighted to inquire about convenience to progress the energy competence of the campus to drop of energy utilization while cultivate or humanizing comfort, health and safety were of prime anxiety this audit required to recognize the mainly energy proficient appliances. Besides several each day processes concerning common appliances have been provided which facilitate sinking the energy expenditure the “**Energy Audit Survey**” was completed by Department of Physics. All data collected from each classroom, laboratory, every room. The work is completed by considering how much tubelights, fan, electronic instruments etc. in each room, how much was participation of each component in total electricity consumption.



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## **Energy Audit Report Of Govt.Veer Gend Singh College Pakhanjore.**

### **Introduction**

A Nation is training to advance in quantity and quality to the spread of education among the common India and development of their intelligence .In India the entire field of education and other fields of intelligent activities had been monopolized by a handful of men before independence, but today we are marching towards the desirable status of a developed nation with fast strides, but the development should be a sustained one. For achieving such an interminable development energy management is essential as far as concerning electricity crisis, we are facing lack of electricity during office work. So institutional management is taking design regarding production of electricity and saving electricity for eco-social aspect.

Energy requirement of India is growing and incomplete domestic fossil fuel treasury. The country has motivated strategy to enlarge its renewable energy resources and policy to establish the nuclear power plants. India increases the involve of nuclear power to largely electrical energy development facility from 4.2% to 9%. India's industrial demand accounted for 35% of electrical power requirement, domestic household use accounted for 28%,agriculture 21%, commercial 9%, and public lighting and other miscellaneous applications accounted for the rest energy conservation means reduction in energy consumption without making any sacrifice of quantity or quality. Successful energy management program begins with energy conservation; it will lead to adequate rating of equipment's using high efficiency equipment and change of habits which causes enormous wastages of energy, by observing all these study lack of electricity and huge electricity demands. It is necessary to plan to being self-sufficient in electricity requirement.

In the present study, a college electricity, audit has been done. in this study considering practical laboratory, instruments, fans, computers, etc. are considered in this study, we have studied the total budget of the college, the total economics investment of the college on electricity, and the total generated electricity from the solar wind hybrid electricity generation unit. Also we have studied the total saving of electricity, money and the requirement of energy, also it is studied that exact contribution of a bulb ,fans, computers, instruments, etc in the total requirement of electricity, we studied all these mentioned things by collecting exact data from the survey.





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### Acknowledgement

The Head of department Chemistry and Botany Govt. Veer Gend Singh College Pakhanjore is very much thankful to Principal D.L. Badhai, IQAC coordinator NAAC for motivating us for **Green Audit** and **Energy Audit**.



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**Power Consumption Of Electricity Board**

2018-2019		2019-2020		2020-2021		2021-2022		2022-2023	
Months	Unite	Months	Unite	Months	Unite	Months	Unite	Months	Unite
July	248	July	437	July	140	July	61	July	80
August	312	August	437	August	114	August	113	August	112
September	0	September	101	September	133	September	175	September	100
October	280	October	400	October	121	October	40	October	288
November	110	November	237	November	45	November	4	Novemmber	150
December	400	December	129	December	115	December	101	December	98
January	0	January	173	January	33	January	31	January	34
Febuary	0	Febuary	256	Febuary	65	Febuary	128	Febuary	176
March	246	March	0	March	88	March	176	Marc	1435
April	525	April	0	April	0	April	200	April	939
May	515	May	0	May	0	May	181	May	0
June	295	June	731	June	180	June	95	June	1022
<b>Total</b>	<b>2931</b>	<b>Total</b>	<b>2901</b>	<b>Total</b>	<b>1034</b>	<b>Total</b>	<b>1305</b>	<b>Total</b>	<b>4434</b>

SN	Year	Total consumption unite (y)	Average consumption unite (m)
1	2018-2019	2931	244.25
2	2019-2020	2901	241.75
3	2020-2021	1034	86.16
4	2021-2022	1305	108.75
5	2022-2023	4434	369.5
<b>Total</b>		<b>12605</b>	<b>1050.41</b>



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**Experimental and data collection:**

All required data is collected by Departments of Physics. In building , in every room, how much fans, tubelights, computer, instruments etc will these is measured. According to surely following data is collected.

**Total power requirement of various equipment**

Dept./inst.	Fan	Tubelight	LED Bulb	Computers	Printer	Projector	Borewell	Other
Principal Offi.	03	04	04					04
Office 1	02	01	05	01	01			
Office 2	02	04	04	02	02			
Class Room	46	26	51					02
Chem.Lab/Dept	04	03	05					
Zoology Lab./Dept	04	04	04					02
Botany Lab.Dept	04	02	06					03
Iqac Room	02	02	02					02
Exam Control Room/Smart Room/Comp Lab	04	04	04	03	03	01		
Geography Dept/Lab	02	01	03					01
Physics Lab/Dept/Maths Dept	04	03	05					26
Staff Room	02	04	02				01	
Seminar Room	10	06	06					
Library	04	04	05	01	01			
NSS Room	01	02	02					
SPORTS Room	02	02	02					
Wash Room	04	15	02					
Solar Room	01	04	02					
Girls Comm. Room	02	02	02					
Lobby		04	39					01
Outside	-	-	07					02
Store Room		03						
Total Quantity	103	100	155	07	07	02		01
Total Power Consumption In Month (Kwh/Month)	1297.8	990	279	252	315	06	120	155.7

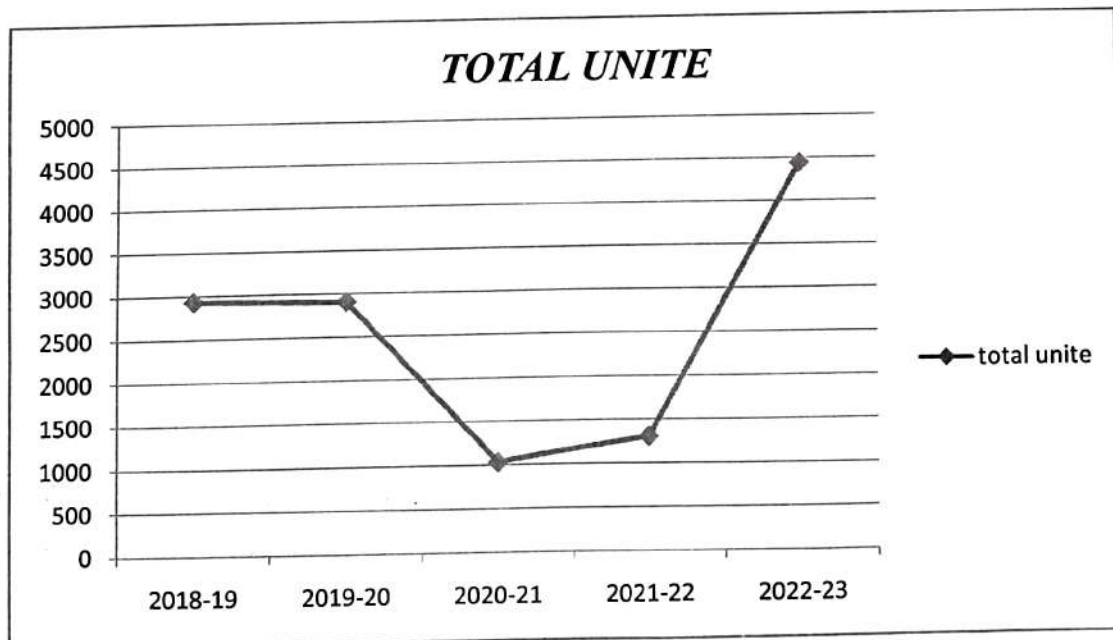
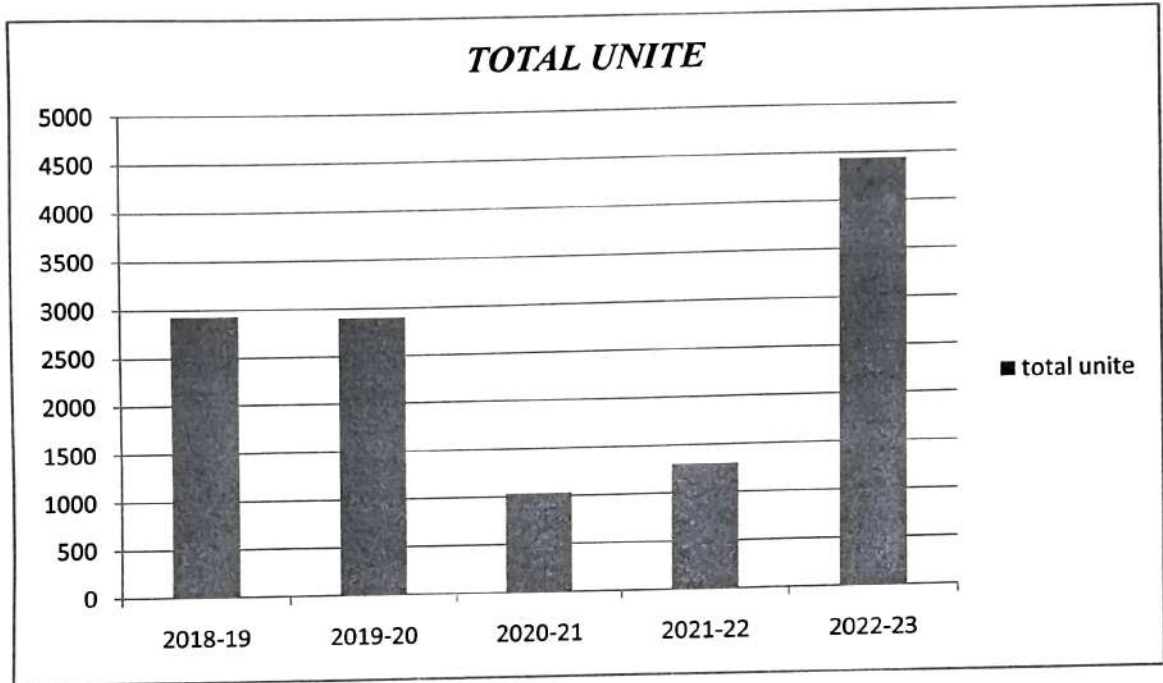
**Total power requirement of all instrument =3415.5 KW in month**





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**TOTAL UNITE**





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**Conclusion:**

In conclusion, data generated in energy audits are useful for understanding the Energy distribution and utilization of college, The college needs maximum of 3415.5 kwh/month of electricity. In other words, college needs a 284.62 units/month.

**Recommendation :**

- 1) Replace all CFL tube lights using an LED bulb, to save more power.
- 2) We instruct the students to switch off lights and fan after the class. In this manner we save sufficient electricity.

**Note:** In Academic Sessions 2021-22 to 2022-23 our electricity consumption increases because we supply our electricity to newly constructed hostel building in college campus.

**Achievment:** In our institution we have solar power which we use as a renewable source of energy regularly to save the electricity .

**Results and discussion:**

As far as the energy audit, the electricity audit is the main concern regarding the educational institutions. We have collected data by considering the tubelight, fan, computer, printer and instruments. The total required energy is 3415.5kw.

Verified by  


Principal

Govt. Veer Gend Singh College Pakhanjore,  
शास. वीर गैद सिंह महाविद्यालय पखांजूर  
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**GOVT. VEER GEND SINGH COLLEGE  
PAKHANJORE, DISTT.- U.B. KANKER (C.G.)**



**GREEN AUDIT IN  
COLLEGE CAMPUS**

**(JANUARY 2018 TO JUNE 2023)**

**Auditing Agency**  
(रोशन कुमार)  
विभागाध्यक्ष

**Department of Botany**

शासकीय वीर गेंद सिंह महाविद्यालय  
पखानजूर, जिला-उ.ब.कंकर  
**Govt. Veer Gend Singh College**  
Pakhanjore, Distt.-U.B.Kanker (C.G.)

**Submitted to**

**Principal**

**Govt. Veer Gend Singh College**  
Pakhanjore, Dist. U.B.Kanker(C.G.)

**PLANTS IN COLLEGE CAMPUS**

S/N	Common name	Botanical name	Family	No. of plant
1	Mango tree	<i>Mangifera indica</i>	Anacardiaceae	10
2	False ashoka	<i>Polyalthiya longifolia</i>	Annonaceae	13
3	Neem	<i>Azadirachta indica</i>	Meliaceae	11
4	Seetaphal	<i>Annona squamosa</i>	Annonaceae	15
5	Peepal	<i>Ficus religiosa</i>	Moraceae	05
6	Tendu	<i>Diospyros melanoxylon</i>	Ebnaceae	36
7	Ber	<i>Ziziphus mauritiana</i>	Rhamnaceae	07
8	Jamun	<i>Syzygium cumini</i>	Myrtaceae	05
9	Kaju	<i>Anacardium occidentale</i>	Anacardiaceae	17
10	Kadamb	<i>Neolamarckia cadamba</i>	Rubiaceae	12
11	Karanj	<i>Pongamia pinnata</i>	Fabaceae	35
12	Palash	<i>Butea monosperma</i>	fabaceae	22
13	Kattha	<i>Acacia catechu</i>	Mimosaceae	01
14	Gulmohar	<i>Delonix regia</i>	Fabaceae	13
15	Croton	<i>Codiaeum variegatum</i>	Euphorbiaceae	19
16	Oleander	<i>Nerium Oleander</i>	Apocynaceae	12
17	Satavari	<i>Asparagus recemosus</i>	Asparagaceae	05
18	Crape jasmin	<i>Tebernaemontana divaricata</i>	Apocynaceae	08
19	Sadabahar	<i>Catharanthus roseus</i>	Apocynaceae	26
20	Biota plant	<i>Platyclusus orientalis</i>	Cupressaceae	13
21	Rose	<i>Rosa canino</i>	Rosaeae	16
22	Kunth	<i>Argenia indica</i>	Liliaceae	03
23	Aok	<i>Calotropis procera</i>	Asclepiadaceae	15
24	Datura	<i>Solanum nigram</i>	Solenaceae	17
25	Harra	<i>Terminelia chebula</i>	Combretaceae	05
26	Khajur	<i>Phoenix dectylifera</i>	Arecaceae	07
27	Sago palm	<i>Cycus revoluta</i>	Cycadaceae	10
28	Mahua tree	<i>Madhuca longifolia</i>	Sapotaceae	05
29	Taad	<i>Borassus flabellifera</i>	Palmaceae	03
30	Sagon tree	<i>Tectona grandis</i>	Lamiaceae	09

# **Govt. Veer Gend Singh College Pakhanjore**

**Distt- U.B. Kanker (C.G.)**

## **-: Green Audit :-**

Govt. Veer Gend Singh College is situated in district Kanker, Pakhanjore near the Maharashtra State. In the college campus sufficient amount of different plant species are growing in the form of trees, shrubs, climber, and herbs. Plants like Anacardium, Mango, Rose, Oleander, Ashoka etc, are present in the campus of the college.

In the total area of the college out of 30% area are covered by plants. Many students get enough shade for sitting and studying and discussion. The abundance of plant in this campus, pure air flows in the environment of college and students get pure air everywhere in the college.

In our college campus all the plants have been identified. Due to proper maintenance of plants, the college campus looks beautiful and clean respectively. The study rooms of college adequate numbers of window and doors have been stalled. Thereby no constant need to light the electric bulb and run the fan, there are solar panel installed for excessive saving power consumption. There are various and different varieties of ornamental, medicinal, flowering and pure oxygen producing plants have been planted in the department of the botany and NSS unit of the college. Shade of the plants has been point of view of the college which control temperature and provide coolness. Various type of plants planted in the college have been attract to different species of birds, butterfly, and beetles get there shelter and foods.



***Different types of plants in our college campus are as follows:***

**1. Mango Tree**

<b>Common Name</b>	<b>Mango Tree</b>
<b>Botanical Name</b>	<b><i>Mangifera indica</i></b>
<b>Family</b>	<b>Anacardiaceae</b>



There are 10 Mango tree in our college campus. Mango tree grow slowly but can eventually reach over 30 ft in height. Mango tree has long been used its fruit as a food sources and also useful for traditional medicine system.

**2. False Ashoka**

<b>Common Name</b>	<b>False Ashoka</b>
<b>Botanical Name</b>	<b><i>Polyalthiya longifolia</i></b>
<b>Family</b>	<b>Annonaceae</b>



There are 13 Ashoka tree in our college campus. It is growing over 25 ft in height and is commonly planted as a ornamental plant and its effectiveness for noise poisoning. It exhibits symmetrical pyramidal growth with pendulous branches and long long narrow lanceolate leaves with undulate margins.

**3. Neem**

<b>Common Name</b>	<b>Neem</b>
<b>Botanical Name</b>	<b><i>Azadirachta indica</i></b>
<b>Family</b>	<b>Meliaceae</b>



There are 11 Neem tree presences in our college campus. It can grow quickly and become large. It grows over 100 feet in height. The three has dense cluster of fruit. The plant has medicinal property like healing of wounds, anti-oxidants and fight of diseases.

**4. Seetaphal**

<b>Common Name</b>	<b>Seetaphal</b>
<b>Botanical Name</b>	<b><i>Annona squamosa</i></b>
<b>Family</b>	<b>Annonaceae</b>



In our college campus 15 Seetaphal tree occur. It is growing over 15-20 ft in height. The tree has produced sweet edible fruits. It is rich in carbohydrates and protein. It helps in keeping the heart healthy. It is rich in phytochemicals and fight against diseases

## 5. Peepal

<b>Common Name</b>	<b>Peepal</b>
<b>Botanical Name</b>	<i>Ficus religiosa</i>
<b>Family</b>	<b>Moraceae</b>



There are 05 peepal trees in our college campus. It is large, tall and woody branched tree; they are growing fairly quickly over 120ft height and become large. It is inspirable part of Indian culture and holy and folklore.

## 6. Tendu

<b>Common Name</b>	<b>Tendu</b>
<b>Botanical Name</b>	<i>Diospyros melanoxylon</i>
<b>Family</b>	<b>Ebnaceae</b>



In our college campus about 36 tendu tree are present. It is grow fairly quickly and grow over 15 to 20 meter in height. Fruit of the tree are sweet and edible and rich of carbohydrates and protein.

## 7. Ber

<b>Common Name</b>	<b>Ber</b>
<b>Botanical Name</b>	<i>Ziziphus mauritiana</i>
<b>Family</b>	<b>Rhamnaceae</b>



There is 07 ber plant in our college campus. It is growing over 5 to 7 m in height and fruit of the plants are sweet and flasy. Fruits are good source of vitamin C, carbohydrates and proteins. They are also has a medicinal property.

## 8. Jamun

<b>Common Name</b>	<b>Jamun</b>
<b>Botanical Name</b>	<i>Syzygium cumini</i>
<b>Family</b>	<b>Myrtaceae</b>



There are 05 Jamun tee present in our college campus. It is large woody tree over 60 to 80 feet in height and grows quickly. They are commercial useful plant and fruit of the plants has edible and medicinal valuable plants. It is rich of Phytochemicals and Antioxidant activity.

## 9. Kaju

<b>Common Name</b>	<b>Kaju</b>
<b>Botanical Name</b>	<i>Anacardium occidentale</i>
<b>Family</b>	<b>Anacardiaceae</b>



In over college campus 17 kaju plants occur. They are grow up to 5 to 10 meter in height. The plants has commercial useful and fruit and nuts of the plants are edible. They are medicinal plant and presence of phytochemicals has useful for treatment of diseases.

#### 10. Kadamb

<b>Common Name</b>	<b>Kadamb</b>
<b>Botanical Name</b>	<i>Neolamarckia cadamba</i>
<b>Family</b>	<b>Rubiaceae</b>



There are at least 12 kadamb trees present in our college campus. They are fairly quickly growing tree over 50 to 70 feet in high. The fruit of plants are also edible. They are containing phytochemicals and antioxidants property of plants.

#### 11. Karanj

<b>Common Name</b>	<b>Karanj</b>
<b>Botanical Name</b>	<i>Pongamia pinnata</i>
<b>Family</b>	<b>Fabaceae</b>



In our college campus 35 karaj plants present. The plant body has grow over 6 to 8 meter in height. They are fairly growing deciduous and branched plant. It filters air pollutants and toxins furthermore improve the air quality.

#### 12. Palash

<b>Common Name</b>	<b>Palash</b>
<b>Botanical Name</b>	<i>Butea monosperma</i>
<b>Family</b>	<b>Fabaceae</b>



There are 22 palash plants in our college campus. It can grow up to 5 to 8 meter in height and beautiful red color petal in flower. Its leaves are broad, margins and reticulate venation. The flower contain color are useful for staining industry

#### 13. Kattha

<b>Common Name</b>	<b>Kattha</b>
<b>Botanical Name</b>	<i>Acacia catechu</i>
<b>Family</b>	<b>Mimosaceae</b>



There 1 kattha plants in our college campus. They can grow up to 20 to 30 feet in height. Its leaves are small and branched woody tree and produce red color flower with bean shaped fruit.



#### 14. Gulmohar

<b>Common Name</b>	<b>Gulmohar</b>
<b>Botanical Name</b>	<i>Delonix regia</i>
<b>Family</b>	<b>Fabaceae</b>



There are 13 gulmohar trees present in our college campus. It can grow up to 30 to 50 feet in height. It is deciduous evergreen plant. Leaves of plants small and branched tree nestled boat shaped bracts.

#### 15. Croton

<b>Common Name</b>	<b>Croton</b>
<b>Botanical Name</b>	<i>Codiaeum variegatum</i>
<b>Family</b>	<b>Euphorbiaceae</b>



In our campus of the college have 19 croton plants present. They are growing up to 3 to 10 feet in height. They are ornamental plants and the leaves of plants are variegated and reticulated.

#### 16. Oleander

<b>Common Name</b>	<b>Oleander</b>
<b>Botanical Name</b>	<i>Nerium Oleander</i>
<b>Family</b>	<b>Apocynaceae</b>



There are 12 oleander plant occur in our college campus. They are fairly growing plant and grow up to 3 to 5 feet in height. The plants has purple color flower and they are also ornamental plants.

#### 17. Satavari

<b>Common Name</b>	<b>Satavar</b>
<b>Botanical Name</b>	<i>Asparagus racemosus</i>
<b>Family</b>	<b>Apocynaceae</b>



There are in college campus 05 satavari plants present. They are growing up to 1 to 3 feet in height. It is used as a medicinal plant because they contain substances that useful for treatment of diseases and they maintain blood and sugar level in our body.

#### 18. Crape jasmine

<b>Common Name</b>	<b>Crape jasmine</b>
<b>Botanical Name</b>	<i>Tebernaemontana divaricata</i>
<b>Family</b>	<b>Apocynaceae</b>



There is 8 crape jasmine plant in our college campus. The plants are growing up to 4 to 8 feet in height and woody perennial plant. They have beautiful white flower used to spiritual and Indian aspect as a god.

### 19. Sadabahar

<b>Common Name</b>	<b>Sadabahar</b>
<b>Botanical Name</b>	<i>Catharanthus roseus</i>
<b>Family</b>	<b>Apocynaceae</b>



In our college campus 26 sadabahar plants are present. They are growing up to 1 to 3 feet in height. It is a beautiful purple flower producing herbaceous perennial plant also known as purple wrinkle. The plants have rich alkaloids that are useful for fight of cancer and diabetic.

### 20. Biota plant

<b>Common Name</b>	<b>Biota plant</b>
<b>Botanical Name</b>	<i>Platyclusus orientalis</i>
<b>Family</b>	<b>Cupressaceae</b>



The campus of the college has 13 biota plant. They are growing up to 3 to 5 meter in height. It is a beautiful small leaves and woody perennial ornamental plant. They have been commercial plant used to decoration of campus or gardens.

### 21. Rose

<b>Common Name</b>	<b>Rose</b>
<b>Botanical Name</b>	<i>Rosa canino</i>
<b>Family</b>	<b>Rosaceae</b>



There are 16 rose plants in our college campus. They are grow up to 2 to 4 meter in height. It is a woody perennial flowering shrub plant. it is also known as best flowering ornamental plant grow for specially commercial perfumery flower in the garden.

### 22. Kunth

<b>Common Name</b>	<b>Kunth</b>
<b>Botanical Name</b>	<i>Argenia indica</i>
<b>Family</b>	<b>Liliaceae</b>

In our college have 03 kunth plants in the campus. They are annual herbaceous plant grow up to 1 feet in height. It is a bulbous stem under the ground and narrow parallel leaf venation. The plant has been also antimicrobial property and phytochemicals contain.



### 23. Aok

**Common Name** Aok  
**Botanical Name** *Calotropis procera*  
**Family** Asclepiadaceae



There are 15 aok plants in our college campus. They grow up to 8 feet in height and perennial shrub plant. It is also known as milk weed plant with white flower. The plant has been containing latex that is use for treatment of diseases.

### 24. Datura

**Common Name** Datura  
**Botanical Name** *Solanum nigrum*  
**Family** Solenaceae



In our campus of the college 17 datura plats occur. They are perennial shrub like plant grows up to 6 to 8 feet in height. It is produce round shape fruit and purple white flower with long anther.

### 25. Harra

**Common Name** Harra  
**Botanical Name** *Terminelia chebula*  
**Family** Combretaceae



In our college 05 harra tree occur in the campus. It is perennial woody tree grow up to 60 to 80 feet in height. They are medicinal valuable plant and seed of the plant contain phytochemicals that is useful for fight of diseases.

### 26. Khajur

**Common Name** Khajur  
**Botanical Name** *Phoenix dactylifera*  
**Family** Arecaceae



There is 07 khajur tree in our college campus. They are woody perennial tree growing up to 30 to 50 feet in height. It is long needle shape leaves with sweet edible fruit producing trunk like tree.

### 27. Sago palm

**Common Name** Sago palm  
**Botanical Name** *Cycus revoluta*  
**Family** Cycadaceae





In our college campus 10 sago palm plant finds. It can grow up to 3 to 5 ft in height. In is a naked seed gymnosperms plant with large and needle shaped leaves. They can grow in arid place and ornamental plant for gardens.

### 28. Mahua tree

<b>Common Name</b>	<b>Mahua Tree</b>
<b>Botanical Name</b>	<i>Madhuca longifolia</i>
<b>Family</b>	<b>Sapotaceae</b>



In our college 05 mahua tree occur in the campus. They are perennial woody tree, growing up to 90 to 100 feet in height. They are tropical deciduous branched tree with edible frits. The fruits of the tree are good source of alcohol. They are commercial alcohol producing plats. In tribes people also use as a beverages.

### 29. Taad

<b>Common Name</b>	<b>Taad</b>
<b>Botanical Name</b>	<i>Borassus flabellifera</i>
<b>Family</b>	<b>Palmaceae</b>

There is 03 taad tree in college campus. It is quickly growing tree grow up to 120 feet in height. They are palm like trunk plant with needle shape leaves and flashy round gel like fruits. The latex of the plants contains alcohol and good source of beverages.

### 30. Sagon tree

<b>Common Name</b>	<b>Sagon tree</b>
<b>Botanical Name</b>	<i>Tectona grandis</i>
<b>Family</b>	<b>Lamiaceae</b>



There are 09 sagon trees in our college campus. They are fairly quickly growing tree grow up to 30 to 35 meter in height. It is perennial wood tree with branched deciduous leaves fall in spring season. They are timber yielding commercial plants.

### 31 Chhui Mui

<b>Common Name</b>	<b>Chhui Mui (Touch me not)</b>
<b>Botanical Name</b>	<i>Mimosa pudica</i>
<b>Family</b>	<b>Mimosaceae</b>

In our college campus 55 chhui mui plants are presence. They are small leaves with banched herb plants grow up to 1 cm to 10 cm in hieght. They are medicinal plants uses treatments of various diseases and also found antimicrobial and anti-oxidents properties.

### 1. Bahera

<b>Common Name</b>	Bahera
<b>Botanical Name</b>	<i>Terminelia chebula</i>
<b>Family</b>	Combretaceae

There are 7 Bahera plants in our college campus. They are quickly growing perennial woody branched tree. It is grow up to 60 feet to 120 feet in hieghts. It is tropical evergreen plants, different parts of plants like seed, bark and leaves uses as a treatments of diseases in there local tribes. Plants contain various phytochemicals alkaloids, terpenoids, glycosoids etc.

 Verified by

Principal

Govt. Veer Gend Singh College Palanajore,

Distt. U. B. Kanoker (C.G.)  
जिला - उ. ब. कानोकर (C.G.)