



UKAI-GLHV-23-169178



2311, I - Cross Mahantesh Nagar, BELGAUM - 16
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SOLUTIONS

GREEN AUDIT

This is to certify that, *Our Audit Team* has visited GWSociety's Arts & Commerce First Grade College, **Kalaghatgi**, Ta & Dist : Dharwad **581 204**, on 17th Aug 2023 and undertook the "**Green Audit**" of college campus.

The college is located in Kalaghatgi Town Municipal limits. The population of Kalaghatgi is 16,917 as per 2011 census. Kalaghatgi is absolutely agriculture cum business centre, The whole taluka is known for **mango, vegetable and millet production**. This is mainly because of temperature and soil fertility. It seems to be that, the town is free from industrial harmful- gas effluents.

All measure are being taken to keep the campus very clean , dust free, least prone to pollutions. Heat radiation are arrested by providing manicure lawn in prime and needy locations. A number of oxygen oozing plants in pots, make the campus beautiful.

Most of the significant plants in the campus are indentified and almost all are nomenclatured.

The list is enclosed,

1. Total number of trees : : 893+
2. Total number of tree species : : 70+
3. Medicinal plants : : 10
4. Rare plants : : 01
5. Endangered plants : : --
6. Oxygen oozing plants : : 10
7. Sacred plants : : 08
8. Ornamental plants : : Lot many.
9. Abundance : : Teak

"**My college My plant**" an innovative program to nourish the plants has been popularized. Staff and students have taken some plants to nourish at their own cost.

The campus is lush green and most suitable Academic developments.

Technical staff

Convener

GREEN Audit Team

Place : Kalaghatgi
Date: 17th Aug 2023



FLORA OF THE CAMPUS

S.No	BOTANICAL NAME	VERNACULAR NAME	FAMILY	Number
1	<i>Polyalthia longitolla</i>	Ashok tree	Annaounaceae	20
2	<i>Artocarpus hirsutus</i>	Halasu	Moraceae	4
3	<i>Tamarindus indica</i>	Hunase mar	Ceasalphenoideae	4
4	<i>Annona reticubata</i>	Ramphal	Annaonaceae	2
5	<i>Samania saman</i>	Male mar	Ceasalpiniodeae	4
6	<i>Genisteae</i>	Broom plant	Fabaceae	2
7	<i>Cymbopogon citratus</i>	Lemon Grass	Poaceae	2
8	<i>Curcma amada</i>	Mango ginger	Zingiberaceae	5
9	<i>Chamaecostus cuspidatus</i>	Insulin	Costaceae	2
10	<i>Hylocereus undatus</i>	Dragan fruit	Cactusceae	2
11	<i>Centella asiatica</i>	Ondelag	Apiceae	10
12	<i>Piper betle. L</i>	Tinnuv ele	Piperaceae	4
13	<i>Ciltoria</i>	Butterfly pea	Fabaceae	10
14	<i>Luffa acutangula</i>	Hirekai	Curcbitaceae	5
15	<i>Sechium edule</i>	Sime Badanekai	Curcbitaceae	4
16	<i>Annaona squamosa</i>	Sitaphal	Annaonaceae	5
17	<i>Tinospora cordifolia</i>	Amrut balli	Menisoermaceae	10
18	<i>Ocimum tenuiflorum</i>	Krishna Tulasi	lamiaceae	8
19	<i>Magnolia champca</i>	Sampige	Magnoliaceae	3
20	<i>Aloe barbadensis</i>	Alovera	Asphodelaceae	10
21	<i>Tecona grandis</i>	Sagavani	lamiaceae	400
22	<i>Ipomoea batatas</i>	Sweet Potato	Solanaceae	4
23	<i>Phyllanthus niruri</i>	Nel nelli	Phyllanthaceae	8
24	<i>Phyllantus emblica</i>	Bettad nelli	Phyllanthaceae	2
25	<i>Phyllanthus acidus</i>	Hittal nelli	Phyllanthaceae	4
26	<i>Solanum lycopersium</i>	Tomato	Solanaceae	8
27	<i>Eclipta prostrata</i>	Brangaraj	Asteraceae	20
28	<i>Dioscorea rotundata</i>	Mullu Genasu	Dioscoreae	4
29	<i>Momordica charantia</i>	Kaarli	Ccurbitaceae	4
30	<i>Lawsonia inermis</i>	Mehandhi	Lythaceae	20
31	<i>Magnofera indica</i>	Maavu	Anacardiaceae	15
32	<i>Moraya koenigi</i>	Karibevu	Rutaceae	4
33	<i>Teminalia</i>	Kadu Badam	Combretaceae	8
34	<i>Saminia sanam</i>	Male mar	Cesalpiniodeace	10
35	<i>Azadirachata indica</i>	Bevin mar	Melianceae	6
36	<i>Dypsis lutescens</i>	Areca palm	Areaceae	60
37	<i>Caladium</i>	Elephant ear	Araceae	20
38	<i>Tuja occidentalis</i>	Mor pankhi	Cupressaceae	02
39	<i>Trachyspermum ammi L</i>	Ajwan	Apiaceae	4
40	<i>Catharanthus soses</i>	Sada Bahar	Apocynaceae	10
41	<i>Chlorophytum comosum</i>	Spider plant	Asparagaceae	10
42	<i>Jasminum officinale</i>	Mallige	Oleaceae	12
43	<i>Magnolia Champaca</i>	Sampige	Magnoliaceae	02



44	Duranta erecta	Golden duranta	Verbenaceae	Hedge 02
45	Ficus resmosa. L	Attimar	Moraceae	8
46	Tecoma stans. L	Yellow bells	Bignoniaceae	10
47	Hibiscus rosa sinensis	Daasval	Malvaceae	Hedge
48	Volkameria inermis L.	Wild Jasmine (bush)	Lamiaceae	2
49	Citrus sinensis	Kittale	Rutaceae	4
50	Punica granatum	Dalimbe	Lythaceae	10
51	Dracaena trifasciata	Snale plant	Asparagaceae	3
52	Asystasia gangetica	Chaines violet	Acanthaceae	Hedge
53	Bougainvillea glabra	Bougainvillea	Nyctaginaceae	10
53	Musa acuminata	Banana	Musaceae	5
55	Ixora coccinia	Ixora	Rubiaceae	4
56	Caarica papaya	Papaya	Caricaceae	6
57	Epipremnum aureum	Money plant	Araceae	8
58	Lawsonia inermis	Mehandi	Lythraceae	10
59	Cocus nucifera	Coconut tree	Arecaceae	3
60	Lantana camara	Kasuti Hoovu	Verbenaceae	5
61	Alkekengi officinarum	Chaines lantern	Solanoidceae	10
62	Eucalyptus globulus	Nilagiri	Mytoideae	4
63	Santalum album	Chandan	Santalaceae	10
64	Curcula longa	Arishin	Zingiberaceae	2
65	Mulberry	Hippunerale	Moraceae	4
66	Psidium guajava	Peru	Myrtaceae	2
67	Ipomoea batatas	Shihi genasu	Convolvulaceae	2
68	Peepal tree	Arali mar	Ficus religiosa	7
69	Arecaceae catechu	Adike mar	Aracaceae	6
70	Furcraea foetida	Agave	Agavoideae	6
			Total	893





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CARBON FOOT-PRINT OF THE INSTITUTE

(ISO 14064)

GWSociety's

Arts and Commerce First grade College Kalahatgi Dist Dharwad

"A carbon foot print of the Institute is the total sum of Green House Gases (GHG) emissions caused by the organization event or product".



INPUT DATA

- ❖ Electric energy consumed in KWh/monthly (avrg of last five years) = 238 units/month.
- ❖ No of petrol cars used staff = 04.
- ❖ No of diesel cars used staff = 04.
- ❖ No of two wheelers brought by staff and students = 10+10 =20.
- ❖ Diesel generator =11.
- ❖ Omni bus = Nil
- ❖ LPG consumed in(kg)/month (staff common room) = Nil.
- ❖ LPG consumed in(kg)/month (canteen) = Nil. (out Sourced)

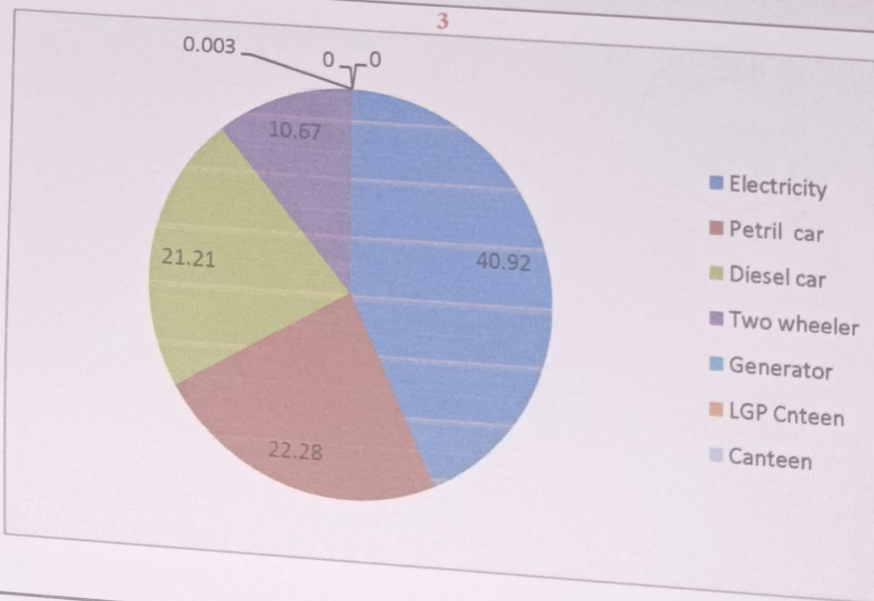
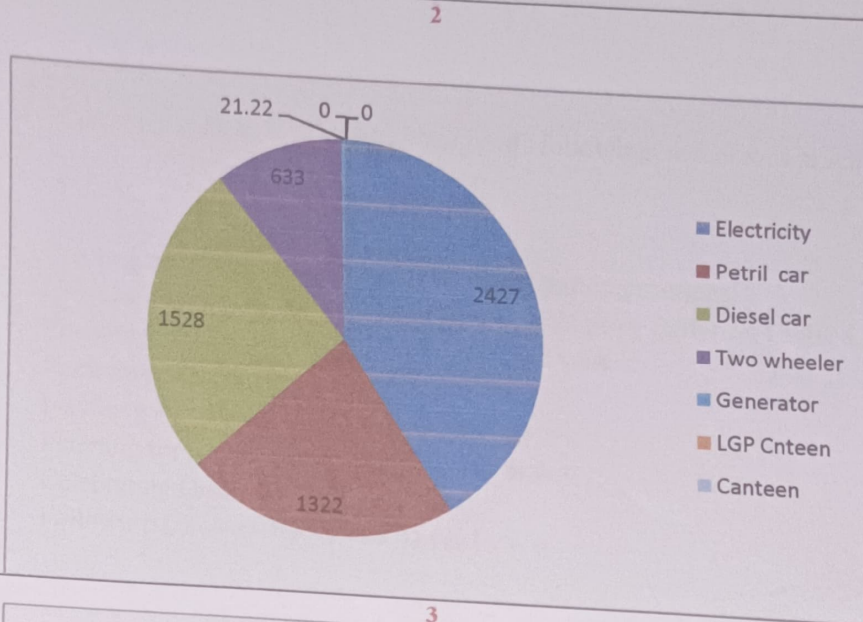
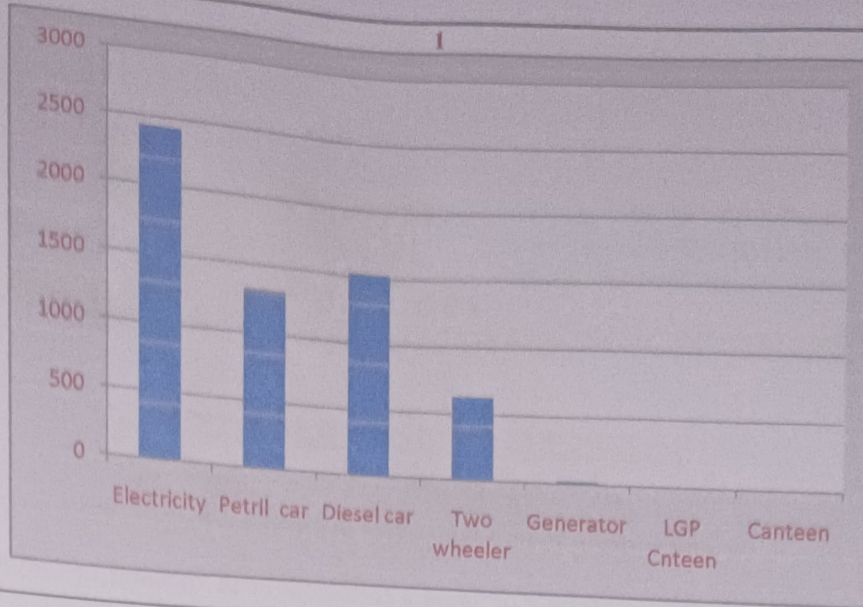
CONSUMPTION RATES

- ❖ Electric energy consumed (avrg) last five years = 238 x12 = 2856 units/year.
- ❖ Average petrol consumed petrol car Liter /month =12 lit /month.
- ❖ Average diesel consumed diesel l car Liter/month =12 lit /month.
- ❖ Average petrol consumed by students-two wheelers (Liter)/month =12 x2 lit /month.
- ❖ Average diesel consumed for Generator = 25 lit /month.
- ❖ Average diesel consumed diesel by Omni buss = 1x (5 Liter)/day =25.00 lit /month.
- ❖ LPG consumed in(kg)/month (staff room) = 7.4 Kg /month.
- ❖ LPG consumed in(kg)/month (canteen) = 29.6 Kg /month.

CARBON FOOT PRINT BY THE WAY OF IN KG OF CO₂ EQUIVALENTS

1. Electricity = 238x12x0.85 = 2427.00
2. Petrol (staff) = 4 x 12x12 x2.296 = 1322.00
3. Diesel (staff) = 4 x12 x 12 x2.653 = 1528.00
4. Two wheeler Petrol (staff and students) = 20x2x12 x210/365 x 2.296 = 633.00
5. Diesel (Generator) = 1x8x2.653= 21.22.
6. Diesel by Omni buses = 0.00x100 x12x 2.653x210/365 = 0.00
7. LPG (staff room) =0.00x12x2.983 = 0.00
8. LPG (Canteen) = 0.00 x12x2.983 = 0.00 (Out sourced)
9. Net Carbon foot print in ton of CO₂ = 5931 Kg /year
= 5.931 ton/year







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CARBON HAND PRINT FOR THE INSTITUTE

(ISO 14064)

“A Carbon Hand Print of the Institute is the total sum of positive impact produced on the environment in reducing the carbon foot print ”.



To **reduce** the “Carbon foot print”, “Carbon hand print” following techniques practiced

- i) Creating awareness regarding energy sensitization programs.
- ii) Creating awareness annual ‘PUC’ test of vehicles (Pollution Under Control).
- iii) Encouraging to purchase of BS VI certified vehicles.
- iv) Promoting electrical vehicles.
- v) Installing stand alone solar units in the campus.
- vi) Planning for roof top harvesting of solar energy.
- vii) Celebrating Green Earth day
- viii) Following Citizen Charter like Do & Don’ts

