Global ECO TECH SOLUTIONS
2311, I - Cross Mahantesh Nagar, BELGAUM - 16
e-mail : beecube81@gmail.com
Cell No : 99024 28248, Reg No : 5624 93

EXTERNAL GREEN AUDIT TEAM

Our Audit Team has visited BAJSS Arts & Commerce College For Women, **Ranebennur** Dist: Haveri **581 115** on 12th Jan 2023 and undertook the **"GREEN AUDIT"** work of college campus.

Following are External GREEN Audit Team the members

1)	Prof: B B Bavache	Energy Auditor
2)	Prof : L.C Horatti	Environmentalist
3)	Prof : T.G.Mallammanavar	Taxonomist

Convener
Global Eco Tech & solutions
BELGAUM

Principal
PRINCIPAL
BAJSS.Arts & Commerce College For Womens
Halageri Road, RANEBENNUR-581115

Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

Global ECO TECH SOLUTIONS
2311, I - Cross Mahantesh Nagar, BELGAUM - 16
e-mail : beecube81@gmail.com
Cell No : 99024 28248, Reg No : 5624 93

ENVIRONMENT AUDIT REPORT

This is to certify that, *Our Audit Team* has visited BAJSS Arts & Commerce College For Women, **Ranebennur** Dist : Haveri **581 115**, on 12th Jan 2023 and undertook the "***Environment Audit***" of college campus.

The college is located in Ranebennur City Corporation limits. The population of Ranebennur is 1,06,406 as per 2011 census. Ranebennur is absolutely business centre, The whole taluka is known for ***seed production*** of highest quality in Asia. It is also known very good quality best cotton cultivation in Karnataka. This is mainly because of temperature and soil fertility. The taluka is known for rich **flora** (acacia and catechu) and **fauna** (Black buck and Great Indian bustard). It seems to be that, the city is free from industrial harmful- gas effluents.

AIRVEDA Camera Techniques Beta Attenuation Method (BAM) has been employed to check the air quality parameters in terms of Air Quality Index **(AQI)** and audible intensity measured by standard sensors of sound, in decibel Bell **(dB)**.

The details of Geographical,Environmental and Weather parameters of Ranebennur Dist: Haveri are follows.

GEOGRAPHICAL PARAMETERS

1. Altitude from sea level : 583 m. (1851 ft)
2. Latitude: 14.619457 N.
3. Longitude: 75.634245 E.
4. Geographical location: Krishna main basin (Tungabhadra sub basin)
5. Weather Chart of Ranebennur (Ref: *Koppen Gieger Weather Chart.*) : BSh
6. Topo sheet : enclosed
7. Perennial water flow direction : N-W to S-E
8. Ranebennur : Mainly a Business Center.

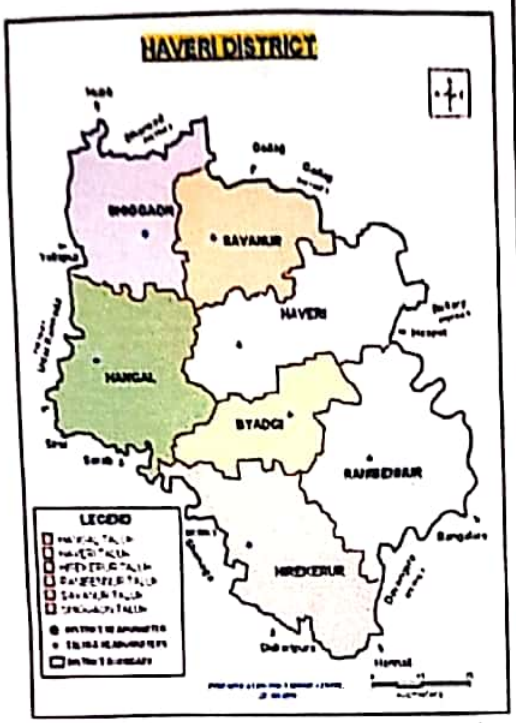
PHYSICAL PARAMETERS

9. Average Temperature : 20 to 36 Celsius.
10. UV Index : 6 to 8 normal
11. Average rainfall : 100 - 406 mm.
12. Rainy peak month : August-September
13. Average Humidity : 30 % to 60%
14. Least humid period : March to May
15. Clear Visibility : up to 7 to 10 km
16. Gust and wind velocity 20 to 32 km / h
17. Average pressure : 1004 to 1012 mb
18. Snow fall : Nil

Scanned with CamScanner

BAJSS Arts & Commece College For Women, Ranebennur

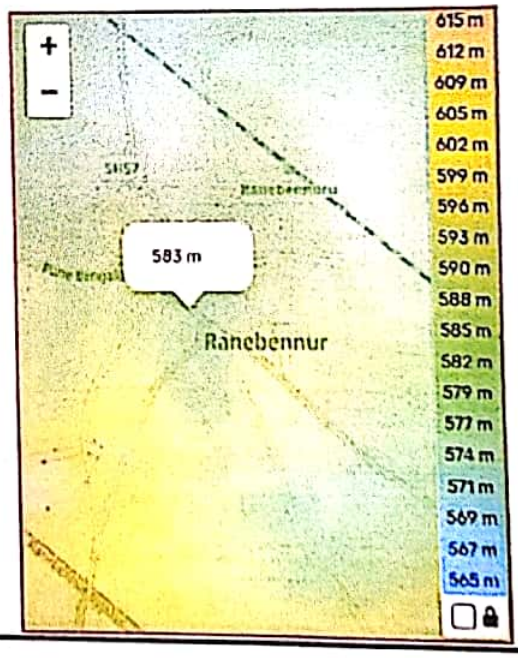
Dist Haveri





14.619457,75.634245





Global Eco Tech Solutions
BELGAUM
590 016

KARWING

Scanned with CamScanner

SUSTANABLE POLLUTION LEVELS

19. **AQI level :**	**81**	**Good**		(Very safe as MoEF per standards)
20. **RPM :**	35	48.06 µg m^{-3}	Good	(605 µgm^{-3} as per MoEF standards.)
21. **SPM:**	81	32.31µgm^{-3}	Good	(100 µgm^{-3} as per MoEF standards)
22. **NO_x** level :	05	09.59 µg m^{-3}	Good	(80 µgm^{-3} as per MoEF standards.)
23. **SO_x** level :	06	11.40 µgm^{-3}	Good	(50µgm^{-3} as per MoEF standards.)
24. **O_3** level :	30	55.04 µg m^{-3}	Good	(100µgm^{-3} as per MoEF standards.)
25. **CO** level:	2.00	348.5µg m^{-3}	Good	(250µg m^{-3} as per MoEF standards.)
26. The pollution levels :		Well within safe range		(as per MoEF standard)
27. dB level: around 40 to 55		Better range .		(as per the BIS audible standards).
28. The illumination level :		Better range		(as per BIS mark 3646 part I.)

TYPE OF SOIL, PH, QUALITY OF WATER AND GREENARY

29. **Type of soil** :Red loamy mix with lateritic soil with PH of soil : 6.5 to 7.8
30. **Water quality** : corporation Water RO and UV filter (Report is enclosed in separate sheet)
31. Greenery in the campus : Appreciable

MISCELLANEOUS

32. Max Hottest day 29th May every year, 12.35 PM +5.30 GMT
33. Max Humid day 13th Aug every year ,12.33 PM + 5.30 GMT
34. Distance from Equator : 1622.45 km
35. Distance from Tropic Cancer 978.98.41 km
36. Electromagnetic Radiation < 40µT (safe as per the BIS standards).

All Environmental related charts and their importance are submitted to the college.

Technical staff

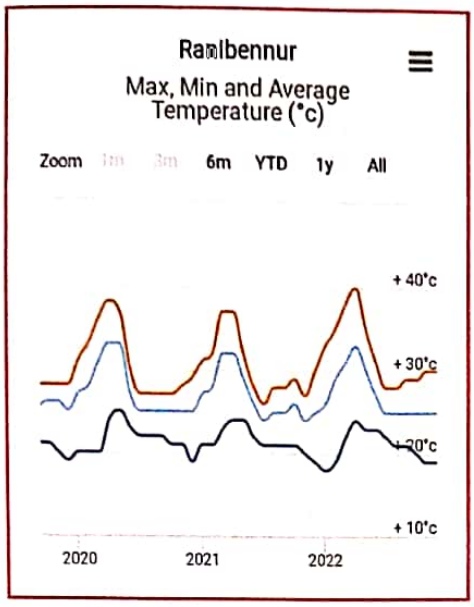
Convener
Environment Audit Team

Date :12th Jan 2023
Place :Ranebennur

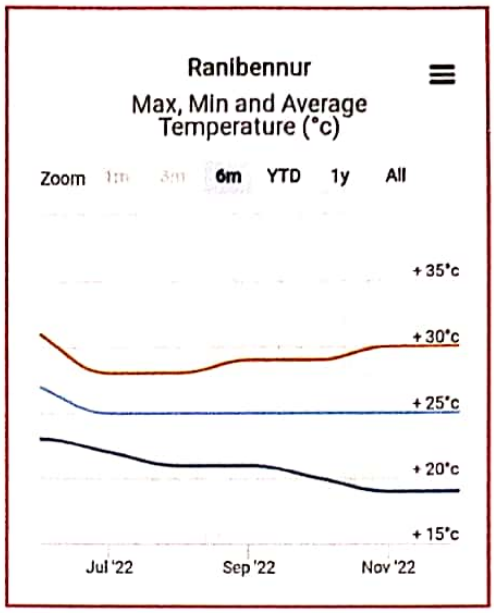
Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

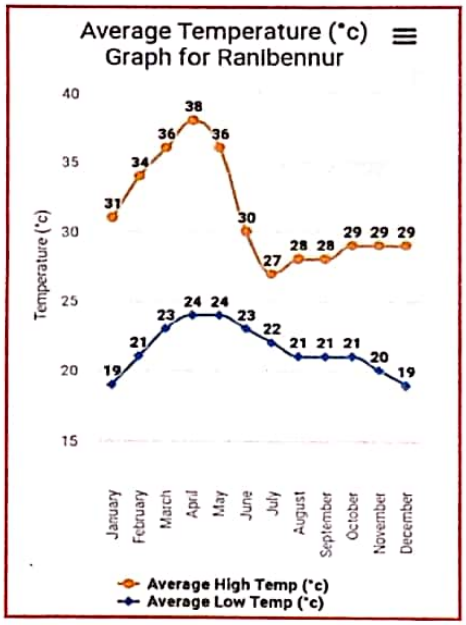
1



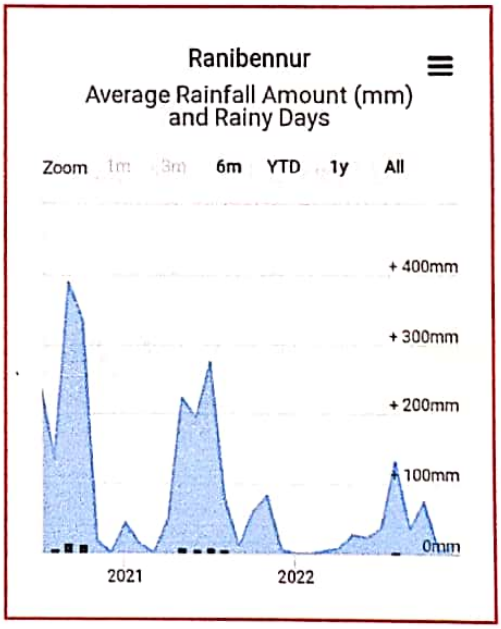
2



3



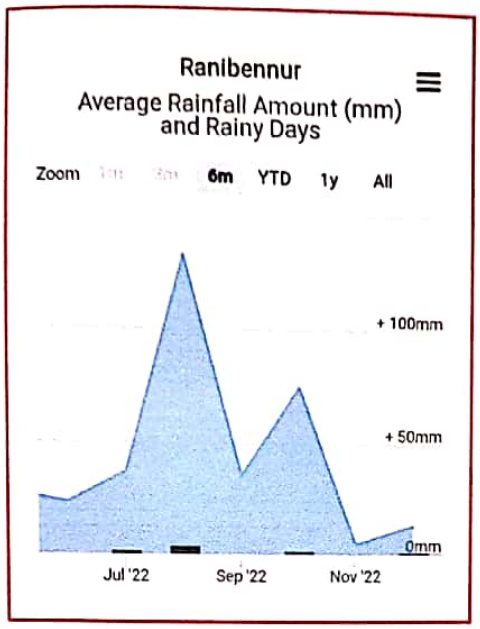
4



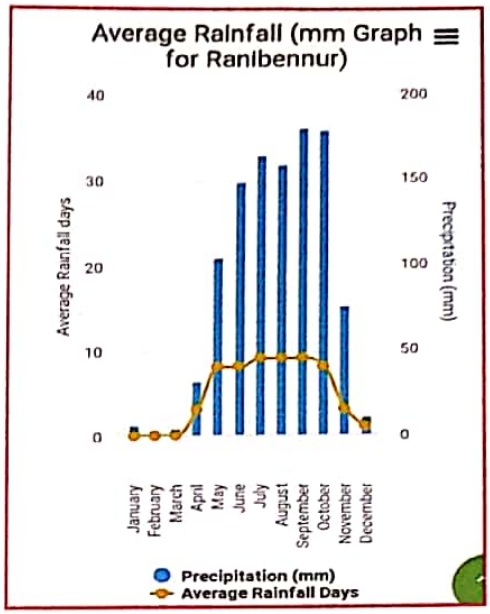
Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

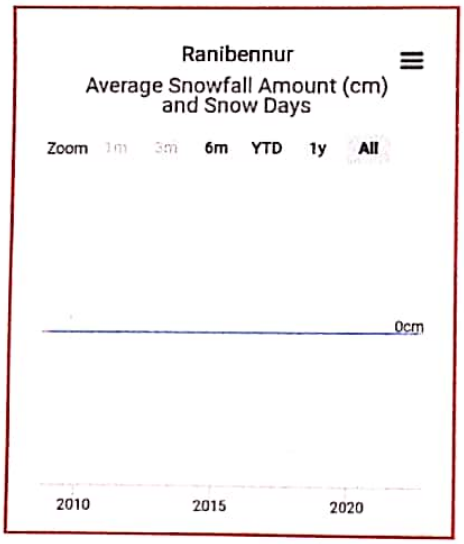
5



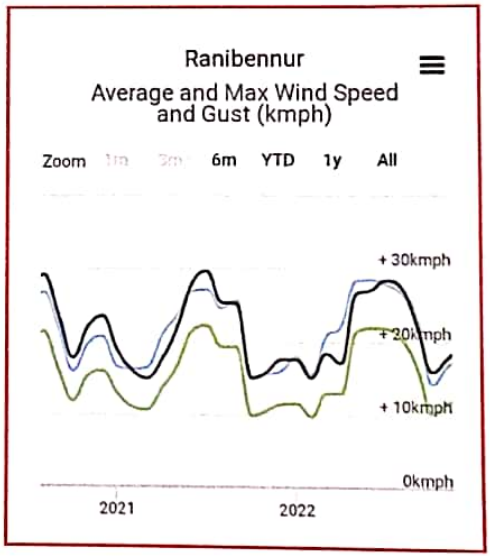
6



7



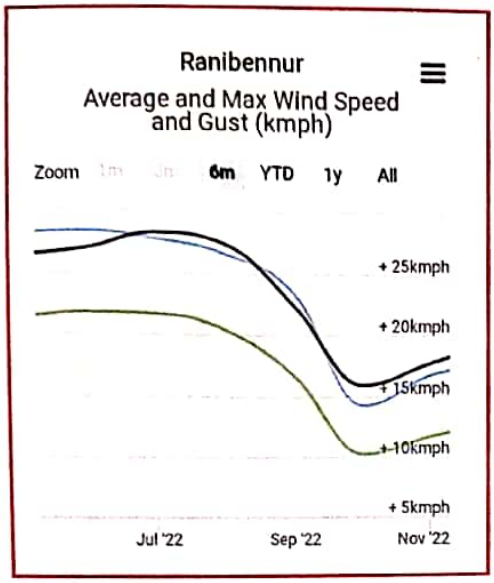
8



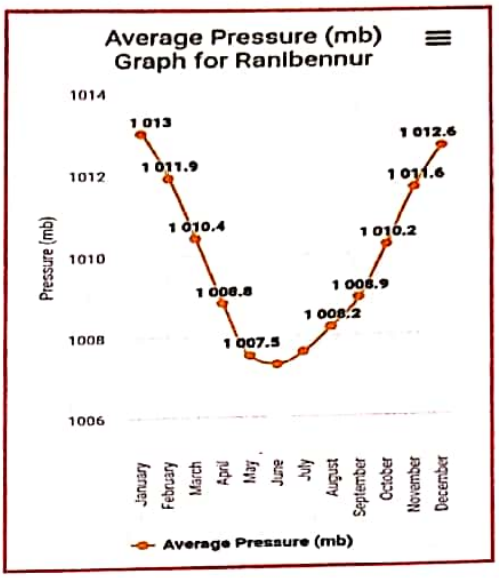
Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

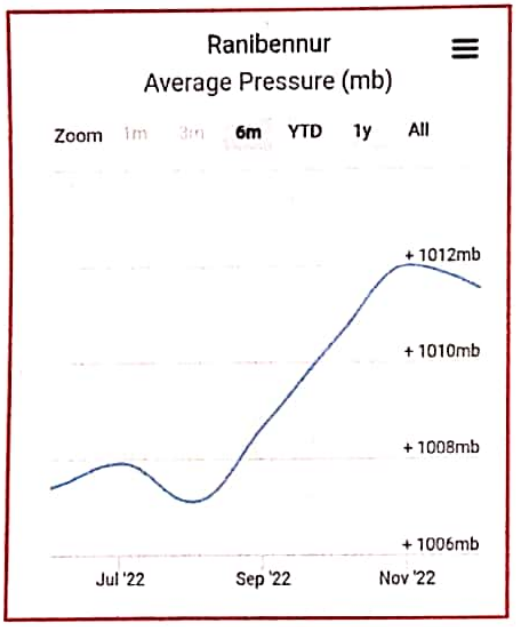
9



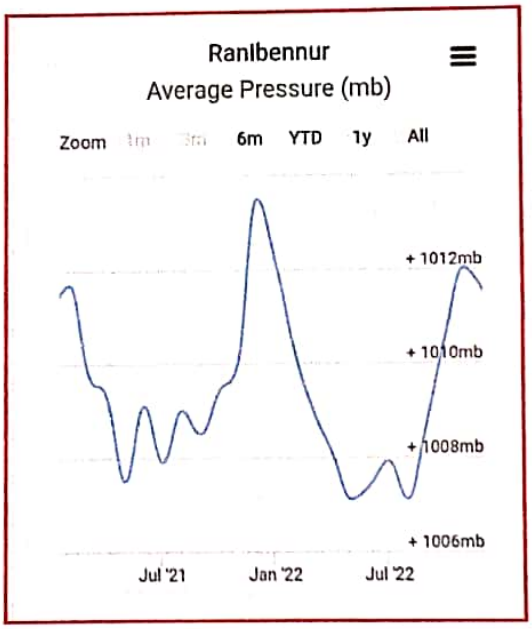
10



11



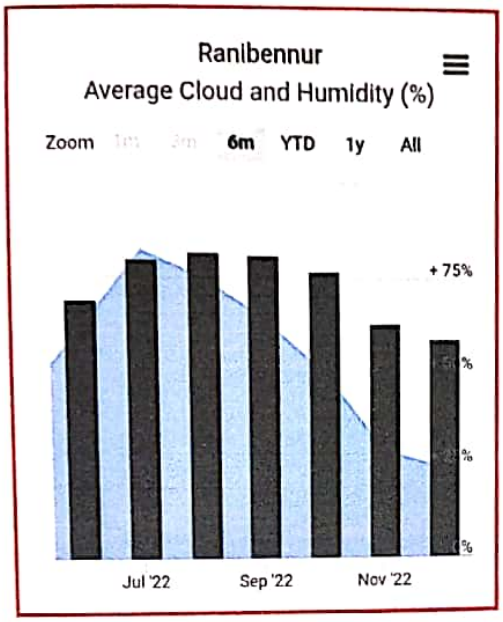
12



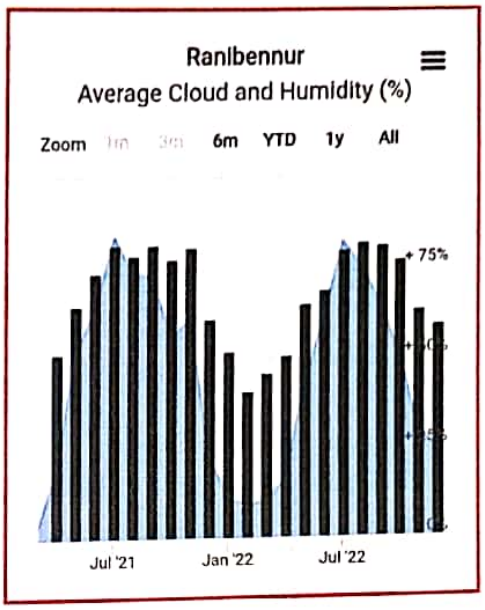
Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

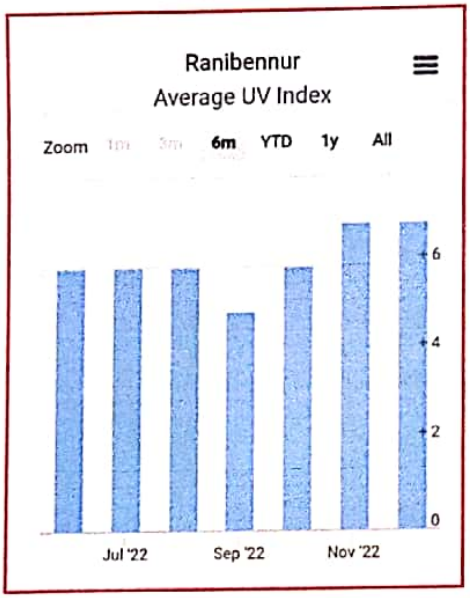
13



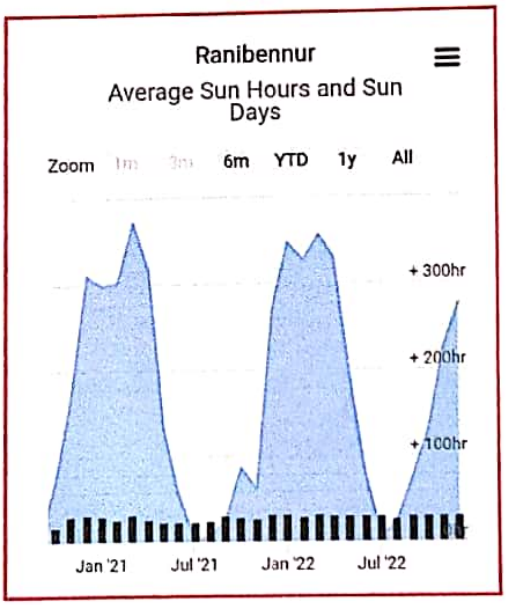
14



15



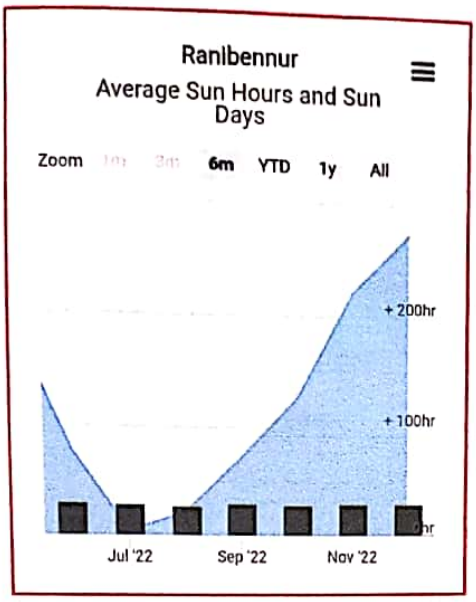
16



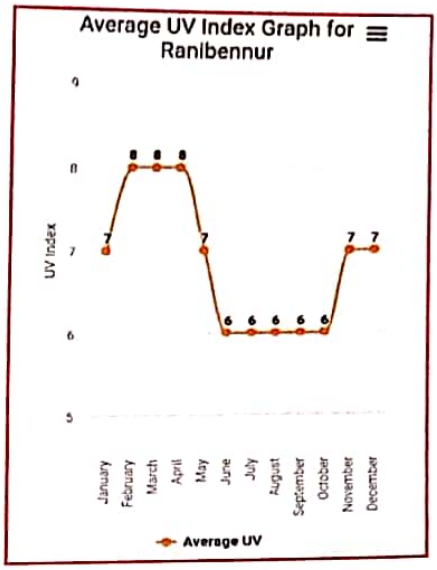
Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

17



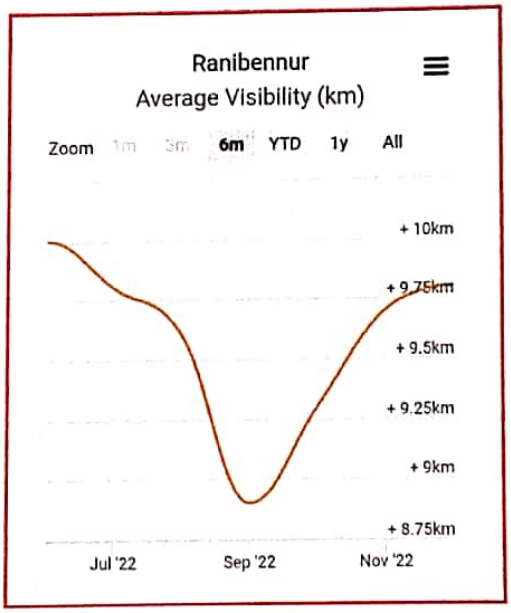
18



19



20



Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

AIR QUALITY INDEX
AQI

Today's Air Quality - Ranebennur, Karnataka, India

81

Moderate

Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.

Primary Pollutant:

PM2.5 (Particulate matter less than 2.5 microns)

Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

Global ECO TECH SOLUTIONS
2311, I - Cross Mahantesh Nagar, BELGAUM - 16
e-mail : beecube81@gmail.com
Cell No : 99024 28248, Reg No : 5624 93

GREEN AUDIT

This is to certify that, *Our Audit Team* has visited For Women Ranebennur Dist: Haveri **581 115** on 12th Jan 2023 and undertook the *"Green Audit"* of college campus.

The college is located in Ranebennur City Corporation limits. The population of Ranebennur is 1,06,406 as per 2011 census. Ranebennur is absolutely business centre, The whole taluka is known for ***seed production*** of highest quality in Asia. It is also known very good quality best cotton cultivation in Karnataka. This is mainly because of temperature and soil fertility. The taluka is known for rich **flora** (acacia and catechu) and **fauna** (Black buck and Great Indian bustard).

It seems to be, the city is free from industrial harmful-gas effluents.

All measure are being taken to keep the campus very clean, dust free and 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 : : 125
2. Total number of tree species : 20
3. Medicinal plants : 15
4. Rare plants : 02
5. Endangered plants : –
6. Oxygen oozing plants : 10
7. Sacred plants : 06
8. Ornamental plants : Lot many.

"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 : Ranebennur
Date: 12th Jan 2023

Global Eco Tech Solutions BELGAUM 590 016

Scanned with CamScanner

Global ECO TECH SOLUTIONS
2311, I - Cross Mahantesh Nagar, BELGAUM - 16
e-mail : beecube81@gmail.com
Cell No : 99024 28248, Reg No : 5624 93

CARBON FOOT-PRINT OF THE INSTITUTE

(ISO 14064)



"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) = 718 units/month.
- No of petrol cars used staff = 06.
- No of diesel cars used staff = 3.
- No of two wheelers brought by staff and students = 15+12 =27.
- Diesel generator =1.
- Omni bus = Nil
- LPG consumed in(kg) /month (staff common room) = Nil.
- LPG consumed in(kg) /month (canteen) = Nil.

CONSUMPTION RATES

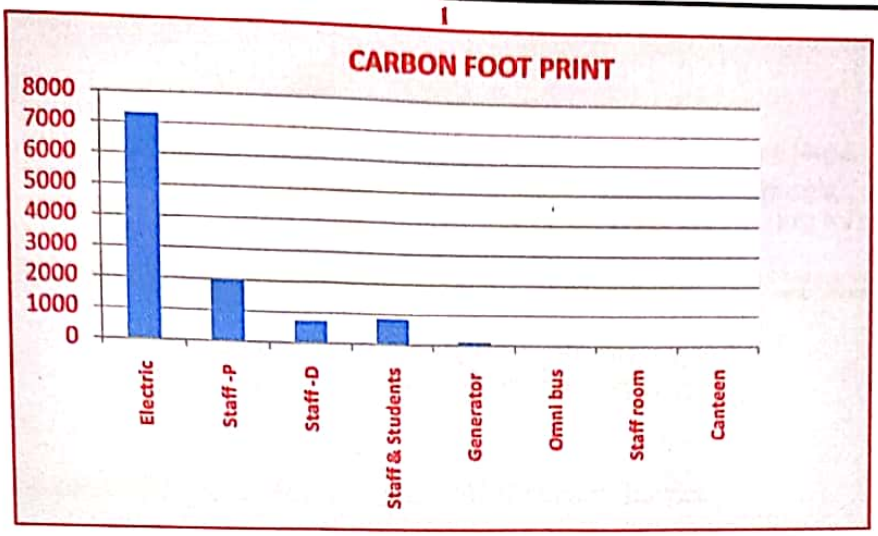
- Electric energy consumed (avrg) last five years = 718 x12 = 8616 units/year.
- Average petrol consumed petrol car Liter /month =12 lit /month.
- Average diesel consumed diesel l car Liter/month =12 lit /month.
- Average petrol consumed by students-two wheelers (Liter)/month =12 x2 lit /month.
- Average diesel consumed for Generator = 5 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 CO_2 EQUIVALENTS

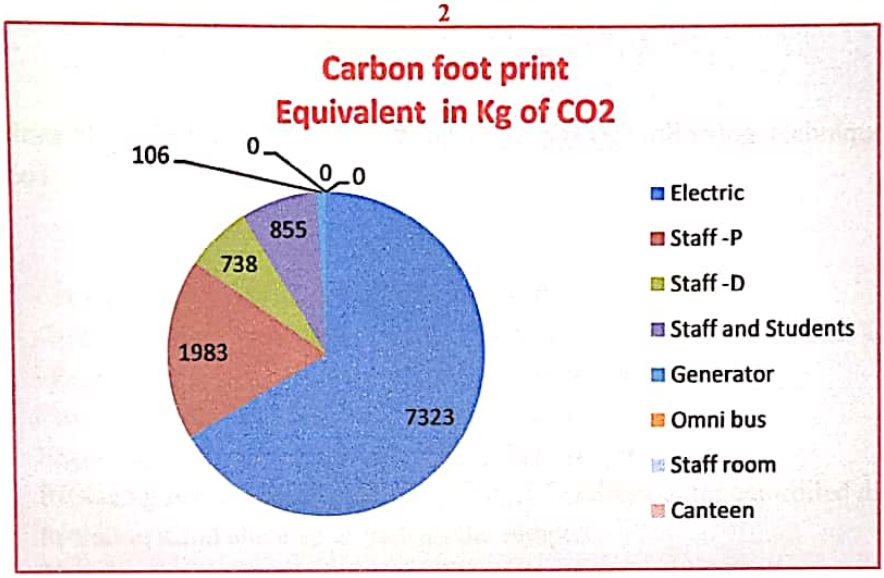
1. Electricity = 718x12x0.85 = 7323.00
2. Petrol (staff) = 6 x 12x12 x2.296 = 1983.00
3. Diesel (staff) = 3 x12 x 12 x2.653 = 978.00
4. Two wheeler Petrol (staff and students) = 27x2x12 x210/365 x 2.296 = 855.00
5. Diesel (Generator)= 5x8x2.653=106.12.
6. Diesel by Omni buses = 0.00x100 x12x 2.653x210/365 = 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 CO_2** = 11,245 Kg /year
   = 11.25 ton/year

Scanned with CamScanner

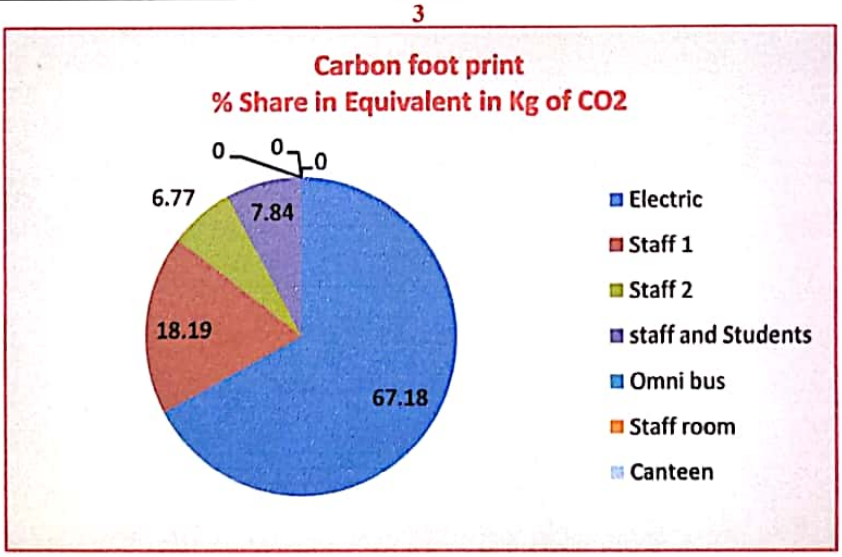
1



2



3



Global Eco Tech Solutions
BELGAUM
590 016

Scanned with CamScanner

Global ECO TECH
SOLUTIONS
2311, I - Cross Mahantesh Nagar, BELGAUM - 16
e-mail : beecube81@gmail.com
Cell No : 99024 28248, Reg No : 5624 93

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 by 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 (**P**ollution **U**nder **C**ontrol).
iii) Encouraging to purchase of BS VI certified vehicles.
iv) Promoting electrical vehicles.
v) Encouraging to purchase of five star rating fridges
vi) Replacing resistor controlled dimmer with Semiconductor controlled dimmers.
vii) Installing stand alone solar units in the campus.
viii) Planning for roof top harvesting of solar energy.
ix) Celebrating Green Earth day
x) Following Citizen Charter like Do & Don'ts

Global Eco Tech Solutions BELGAUM 590 016

***

Scanned with CamScanner