



SKYLAB
ANALYTICAL LABORATORY



MOEF & CC APPROVED AND NABL (ISO 17025) CERTIFIED ENVIRONMENT LABORATORY

Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Green Audit Report.

Water Audit Report

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

SKYLAB ANALYTICAL LABORATORY

202, CFC-3, Asmeeta Texpa, Addl. Kalyan-Bhiwandi Industrial Area,
MIDC, Village Kon, Tal. Bhiwandi - 421311 Dist. Thane, Maharashtra, INDIA. **Contact-** 02522-297784/85

Email- mails@skylabenviro.com **Website-** www.skylabenviro.com



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Green Audit Report 2022 - 2023

Green Audit was conducted by

Mr. Saurabh Pansare.

(Director of SKY Lab)

**Green Audit was conducted Online without
Actual Physical Visit.**

For 2022 - 2023.

For Green Audit the Data considered for the Period

1st April 2022 to 31st March 2023

(Academic Year)

Date of Audit / Report

4th April 2023

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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Inclusions & Exclusions while performing the Green Audit.

- 1) Carbon emissions due to Students Travelling is not considered.
- 2) Carbon emissions due to Faculty & Staff Travelling is considered to be same as that of 2020- 2021. **(Actual Data for 2021 & 2022 & 2023 not shared).**
- 3) Carbon emissions during Industrial Visits travelling not considered.
- 4) Carbon emissions from the Construction of Building are not considered as the Building is more than 10 Years old.
- 5) All Wood is more than 6 years old so not considered.
- 6) Plywood is not considered as Plywood is already recycled.
- 7) Total Consumption of Electricity for the Institute is considered.
- 8) Total Consumption of Water for the Institute is considered.
- 9) LPG Cylinders are consumed mainly in Staff Room for Tea / Cofee preparation.
- 10) Green Cover is considered of the premises around the College campus which may include some part common to Principal T. A . Kulkarni Vidyanagar.
- 11) Emissions from Tiles, Cement, Bricks & Paints & Printers are not considered, as no major repairs carried out in 2022-23
- 12) Ambient Air Quality Monitoring is not performed as it was an Online Remote Audit.
- 13) Analysis of Water entering the drains / soak pits is not performed. as it was an Online Remote Audit. (Sewage water, Lab washing water, Washing & Cleaning water) is let out in drains.
- 14) Raw Water Analysis is not performed as it was an Online Remote Audit..
- 15) Radiation due to Wifi & Mobile Phones is not considered.

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Air.

Since it was an Online Remote Audit. Ambient Air Quality was not monitored. Ideally it should be monitored at 12 locations depending on the area of the Institute.

Since it was an Online Remote Audit. Stack Emissions of the Diesel Generator was not monitored.

Paper.

No Actual Data for 2021- 2022 & 2022-2023 shared by the Institute so taken same as of 2020- 2021.

Each A 4 paper is used from both the sides.

After use on both the sides then it is given for recycling (Paper Mesh).

To the extent possible use of soft copies of documents is promoted.

For the period **April 2022 to March 2023**

The consumption was 40 Reams of Paper of 70 GSM.

(500 Sheets in each Ream & each Ream of 2.18 kg)

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Green Audit Report 2022 - 2023

Water.

Water used for

Drinking, Cleaning, Washing & Flushing, Gardening.

As per the water meter installed.

70203071	47,000 Liters	40,286 Liters
70203072	46,000 Liters	39,429 Liters
70203073	10,68,000 Liters	9,15,428 Liters
	TOTAL	9,95,143

Yearly reading of the Water Meter **9, 95, 143** Liters Per Year

So Average Monthly Water Consumption will be

9, 95, 143 / 12 = 82,929 Liters Per Month.

Total Water Consumption from April 2022 to March 2023

82,929 Liters per Month

So the Water Foot print is

9,95,143 / 365 Days = 2,726 Liters per Day.

So the Water Foot Print is 2,726 Liters of Water Per Day.

A separate Water Foot Print Certificate is given to the Institute.

Currently no measures are being taken to save water or to recycle water.

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Green Audit Report 2022 - 2023

Electricity.

Total Consumption of Electricity is ideally to be considered from the Meters reading shown in the Electricity Bill.

Electricity used for

Air Conditioners, Equipments, Tube Lights, Lights & Fans. Computers & Printers. To run the Utilities.

Meter reading for Electricity Consumption for the Period April 2022 to March 2023.

Month	Electrical Consumption in Units
April 2022	1548
May 2022	2148
June 2022	2222
July 2022	2147
August 2022	2078
September 2022	2249
October 2022	2028
November 2022	2146
December 2022	1158
January 2023	1303
February 2023	1692
March 2023	1645
TOTAL	22,364

Average Consumption April 2022 to March 2023

Monthly Average Units consumed for the Period June 2022 to May 2023 are **22,364 / 12 = 1,864 units per month.**

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Power Generation by running the Diesel Generator.

Diesel Consumption for the Period June 2022 to May 2023

Date	Consumption in Liters
02.07.2022	51.96
12.11.2022	53.60
04.01.2023	53.59
02.03.2023	26.80
TOTAL	185.95

Diesel Consumption for the Period April 2022 to March 2023 is **186** Liters

So Monthly Average Consumption of Diesel is

186 Liters / 12 = 15.5 Liters per Month.

Measures taken for Energy / Electricity Conservation.

- 1) Replacing the conventional Florescent Tube Lights with LED Tube Lights. (nearly 50% are replaced).
- 2) Replacing the CFL Blubs with LED Bulbs. (nearly 60% are replaced).

3) Solar Power Generation

Data for 2021 - 2022 & 2022 - 2023 not shared by the Institute

(So Taken same as that of 2020 - 2021) as installed capacity not changed.

Monthly
1500 – 2000 kw

- 4) Periodic Maintenance of the Diesel Generator to get Optimum performance.

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LPG Consumption

Liquefied Petroleum Gas.

LPG Cylinder are used in Staff Room for Tea & Coffee Preparation.

LPG Consumption for the Period April 2022 to March 2023 shared by the Institute

April 2022 to March 2023.

College consumes on an Average **1 Cylinder of LPG per 2 Months**

1/2 Cylinder of 14.2 Kg of LPG Gas in it

So LPG consumption is **7.1 Kg of Gas per Month.**

There is no other application of LPG Cylinders in the Institute.

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Consumption of Petrol by Staff Travelling to & fro the Institute.

Staff Travelling Details for the Period 2021 - 2022 & 2022 - 2023 not shared by the Institute

So taken same as that of 2020 - 2021

According to the data given by the Institute. For the period

April 2022 to March 2023.

Distance Travelled by staff To & Fro the Institute by 2 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 2 Wheeler in a month by taking an average Fuel efficiency of 40 KMPL
60 Staff X 2.5 Km Average Distance Travelled per day so 150 X 25 = 3750 Km per Month	94 Liters Per Month
So 94 Liters per Month X 12 Months = 1,128 Liters Per Year.	
Distance Travelled by staff To & Fro the Institute by 4 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 4 Wheeler in a month by taking an average Fuel efficiency of 12 KMPL
20 Staff X 2.5 Km Average Distance Travelled per day so 50 X 25 = 1250 Km per Month	104 Liters Per Month
So 104 Liters per Month X 12 Months = 1,248 Liters Per Year.	

So total Petrol Consumption from April 2022 to March 2023 is

1,128 + 1248 = 2,376 Liters per Year.

2,376 Liters per Year / 12 Months = 198 Liters per Month.

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So Following is the Calculation of the Carbon Foot Print.

Calculation of Kg of CO2 emissions

1	2 <i>As per ISO 14064</i>	3	4	5
Category	Kg of CO2 per unit of consumption	Average Monthly Consumption	Calculation 2*3	Total Kg of CO2 2*3=5
Electricity	4.3 Kg Per Unit	1,864 Units	1,864 X 4.3 =	8,015.20
Diesel	2.68 per liter	15.50 Liters	15.50 X 2.68=	41.54
Petrol	2.31 per liter	198 Liters	198 X 2.31=	457.38
LPG	1.51 per Kg	7.1 Kg	7.1 X 1.51 =	10.72
TOTAL				8,524.84

So the Average Monthly CO2 Emissions are 8,524.84 Kg of CO2.

**So the Average Monthly CO2 Emissions Rounded off are
8,525 Kg of CO2.**

A separate Carbon Foot Print Certificate is given to the Institute.

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Green Cover Details.

No fresh Data for 2021 -2022 & 2022 -2023 is given so the Data for 2020- 2021 kept as it is

Green cover area in the campus as a percentage of the total area is not calculated.

Total Number of Trees in and around the Campus are **1670.**

During the Period April 2022 & March 2023 around **NO** New Trees Planted.

There are currently **1500 Trees** in the campus whose Height is more than **3 Meters.**

Mortality Rate of the Trees planted during the period 2020 – 2021 & 2021- 2022 to be monitored.

Hazardous Waste Disposal

E waste is collected & disposed off to an Authorized E waste Disposer Party.
Used Batteries are given in Buy Back to the Supplier of New Batteries.

No details of Hazardous & Non Hazardous Waste Generated & Disposed were shared by the Institute.

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Suggestions for Environment / Green Audit / Water Audit related activities to be carried out by the Institute.

- 1) STP (Sewage Treatment Plant) can be installed for processing & reusing the Sewage waste water.
- 2) The Flushing Tanks of WC (Toilets) to be modified such that only half gets filled & thus while flushing only half of the water is used.
- 3) Drip irrigation can be implemented for the Trees.
- 4) To fit the atomizer device to taps to save water.
- 5) Testing of the water in the drain as it is directly going into the Municipality Drains.
- 6) Motion sensors can be fitted for the Light fittings in Washrooms, Lift and Lobby where continuous usage is not there.
- 7) Survival rate of planted trees to be monitored.
- 8) Grafting of new plants in the trunk of dead trees can be done.
- 9) In the next Green Audit to test the Ambient Air Quality at least at 12 Locations.
- 10) To test the Diesel Generator Stack Emissions.
- 11) To verify the radiation from Wifi & Mobile phones.
- 12) Use of E bikes & E Vehicles can be thought by the Staff Members.
- 13) Complete Data to be shared by the Institute.

The Above Report is prepared based on the Records & Facts given by the Office bearers of Institute.
(The Person signing the report will not be responsible as lot of Data was not provided also Incomplete Data provided)



For Sky Lab Analytical Laboratory

Mr. Saurabh Pansare.

(Director)

(4th April 2023)

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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7.1.3 QUALITY AUDITS ON ENVIRONMENT AND ENERGY REGULARLY UNDERTAKEN BY THE INSTITUTION

CLEAN AND GREEN CAMPUS INITIATIVES



GOKHALE EDUCATION SOCIETY'S
B.Y.K.(SINNAR) COLLEGE OF COMMERCE, NASHIK

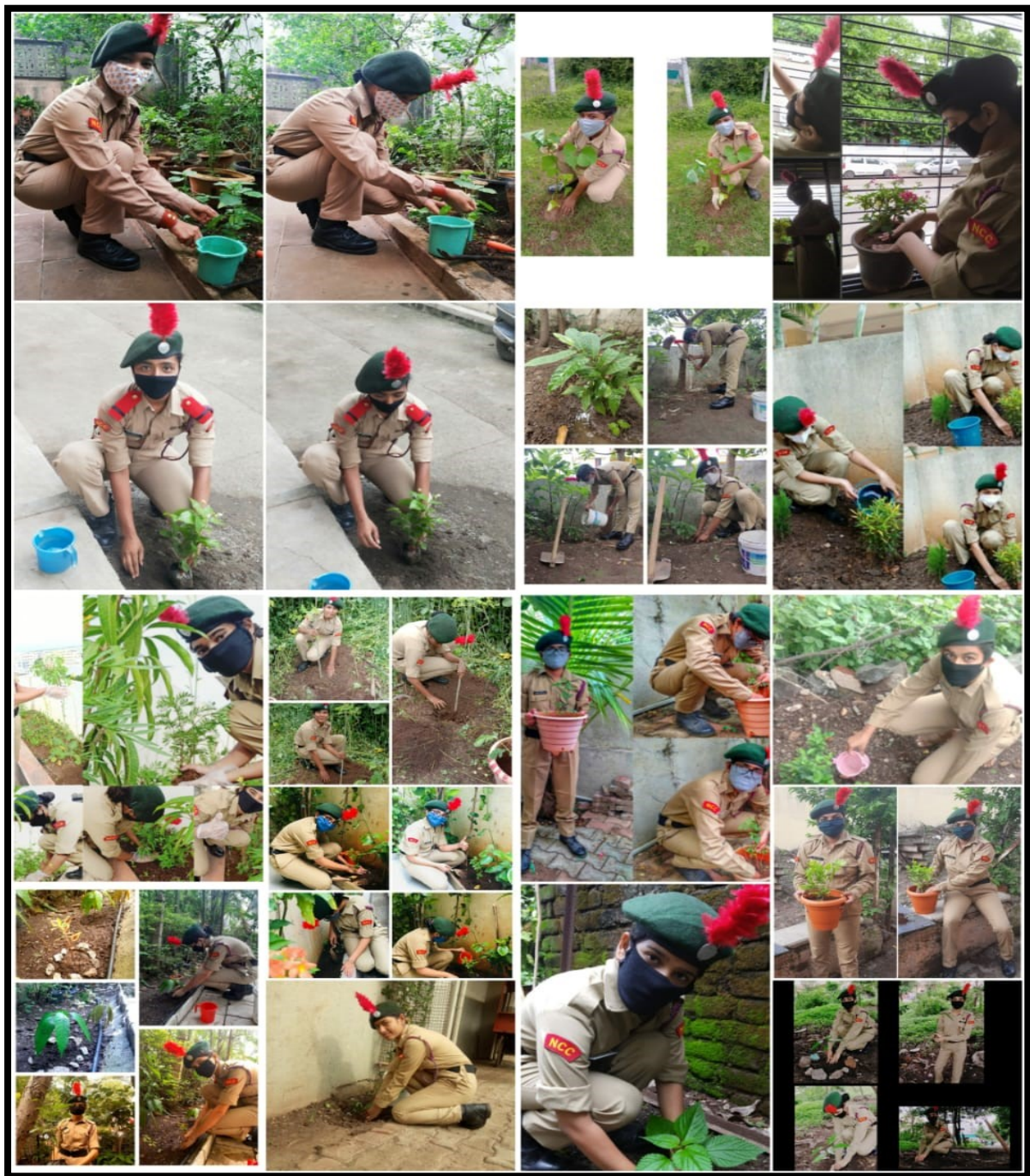
Welcome to Our Green Campus
Join the movement for a sustainable future

- **Reduce, Reuse, Recycle:**
 - ✓ Sort and recycle materials responsibly.
 - ✓ Reuse items to minimize waste.
- **Opt for Active Transportation:**
 - ✓ Walk, bike, or carpool to campus.
 - ✓ Reduce your carbon footprint.
- **Save Energy:**
 - ✓ Turn off lights and devices when not in use.
 - ✓ Use energy-efficient appliances.
- **Conserve Water:**
 - ✓ Report leaks promptly.
 - ✓ Be mindful of water usage.
- **Respect Nature:**
 - ✓ Preserve green spaces and wildlife habitats.
 - ✓ Participate in tree planting efforts.
- **Go Digital, Save Paper:**
 - ✓ Utilize digital resources and e-books.
 - ✓ Print only when necessary.
- **Support Sustainable Choices:**
 - ✓ Choose sustainable and local products.
 - ✓ Reduce single-use plastics.
- **Spread the Word:**
 - ✓ Educate and inspire others to act sustainably.
 - ✓ Share your eco-friendly journey. Together, let's make our campus a beacon of sustainability!



S. S. S. S.
PRINCIPAL

Tree Plantation by NCC Cadets



College Cleanliness Drive



Beyond the Campus Environmental Promotion Activities

Sr No	Activity
1	Cleanliness Campaign at Godavari River in Nashik
2	PHC Cleanliness at Girnare
3	Zilla Parishad School Cleanliness at Dari
4	Tree plantation at Dari Road
5	Tree plantation at Girnare
6	Digging of land for School Gardening at Rajewadi:
7	Water Conservation Initiative-Digging of Ditch (Chari)
8	Road repairing in village
9	Ganesh Murti collection on Anant Chaturthi (Eco-Friendly Ganesh Visarjan)
10	Garbage collection at Khandoba Tekdi
11	Food distribution to the village school students
12	Balaji Temple Cleaning

Cleanliness Campaign at Godavari River in Nashik



Dir=N Lat=20.06141 Lon=73.65138 WGS-84



Dir=N Lat=20.06565 Lon=73.67567 WGS-84

PHC Cleanliness at Girnare



Lat=20.08431 Lon=73.67055 WGS-84



Lat=20.07152 Lon=73.64446 WGS-84

Zilla Parishad School Cleanliness at Dari





Lat=20.06459 Lon=73.65366 WGS-84



Lat=20.06025 Lon=73.67242 WGS-84

Tree plantation at Dari Road





Lat=20.06549 Lon=73.65436 WGS-84

Tree plantation at Girnare



Lat=20.06444 Lon=73.6763 WGS-84



Lat=20.08675 Lon=73.67357 WGS-84

Digging of land for School Gardening at Rajewadi:



Lat=20.06038 Lon=73.64848 WGS-84



Digging of Ditch (Chari) for Water Harvesting at Dari Village



Lat=20.08414 Lon=73.64783 WGS-84



Lat=20.08251 Lon=73.65298 WGS-84



Lat=20.06308 Lon=73.67151 WGS-84

Road repairing in village



Lat=20.08236 Lon=73.67553 WGS-84



Lat=20.08777 Lon=73.67593 WGS-84

Ganesh Murti collection on Anant Chaturthi (Eco-Friendly Ganesh Visarjan)



Lat=20.08868 Lon=73.67589 WGS-84



Lat=20.06007 Lon=73.6499 WGS-84

Cleanliness at Girnare



Lat=20.06263 Lon=73.67222 WGS-84



Lat=20.06337 Lon=73.64807 WGS-84



Lat=20.08816 Lon=73.65284 WGS-84

Garbage collection at Khandoba Tekdi



Lat=20.06591 Lon=73.64915 WGS 1984



Lat=20.0601 Lon=73.65174 WGS 1984



Lat=20.06652 Lon=73.67166 WGS-84



Lat=20.08364 Lon=73.67483 WGS-84

Cleanliness at village





Lat=20.08774 Lon=73.67316 WGS-84

Food distribution to poor students



Lat=20.08595 Lon=73.65095 WGS-84



श्रमसंस्कार शिबिरांतर्गत विद्यार्थ्यांकडून स्वच्छता मोहीम

लोकमत न्यूज नेटवर्क
नाशिक : बीवायके महाविद्यालयाच्या
राष्ट्रीय सेवा योजना विभागाच्या
विद्यार्थ्यांनी १० ते १६ डिसेंबरम्यान
गिरणारे गावात श्रमसंस्कार
शिबिरांतर्गत स्वच्छता मोहीम राबवली.

प्राचार्य डॉ. राम कुलकर्णी यांच्या
मार्गदर्शनात पार पडलेल्या या
श्रमसंस्कार शिबिरात विद्यार्थ्यांनी
गावात स्वच्छतेविषयी जनजागृती
करतानाच विविध भागात
साफसफाईचे काम केले.

या मोहिमेसाठी विद्यार्थ्यांना राष्ट्रीय
सेवा योजना अधिकारी प्रा. सना शेख
यांचे मार्गदर्शन, तर गिरणारे येथील
सरपंच अलका दिवे, आत्माराम थेटे
यांच्यासह ग्रामस्थांचेही सहकार्य
मिळाले.

बीवायकेच्या स्वयं- सेवकांकडून जनजागृती

नाशिक : प्रतिनिधी

बीवायके महाविद्यालयाच्या
राष्ट्रीय सेवा योजनेच्या
स्वयंसेवकांनी कोरोना जनजागृती
करण्यात आली. स्वयंसेवकांनी
तयार केलेल्या व्हिडिओच्या
माध्यमातून कोरोनाबाबत
जनजागृती करण्यात आली.
गंधार देशपांडे, रसिका कोठावदे,
वैष्णवी गोसावी, ऋषिकेश
देशपांडे या विद्यार्थ्यांनी हा
व्हिडिओ तयार केला

Balaji temple cleaning:




Lat=20.06652 Lon=73.67346 WGS-84



Lat=20.08393 Lon=73.65142 WGS-84


GOKHALE EDUCATION SOCIETY'S



B.Y.K. (Sinnar) College of Commerce

Prin. T. A. Kulkarni Vidyanagar, College Road, Nashik - 422005

• Ph: 0253-2572520, 2578832, 2575288 (Jr. College) • Fax : 0253 - 2572920
 • E-Mail : gesbyk@gmail.com • Website : www.bykcollege.com



(Affiliated to the Savitribai Phule Pune University, Pune)
 ID No. PU/NS/C/003/1957

NAAC Re-accredited with Grade 'A'
 ISO 9001 : 2015 Certified College

Dr. R. M. Kulkarni
Principal

M.com., MPhil, Ph.D., D.B.M., D.T.

1967-2019
DIAMOND JUBILEE
Celebrating 50 years

Ref:

Date: 25/12/2019

NATIONAL SERVICE SCHEME

NOTICE

All the NSS volunteers hereby informed that the NSS of our college is conducting a lecture on "Role of Youth in creating AIDS Awareness" collaboration with Red Ribbin Club of Civil Hospital Nashik on 27th December 2019. All the NSS volunteers shall present at scheduled time.

Venue: Seminar Hall.

Time: 10.30 am

[Handwritten Signature]

NSS Programme Officer



[Handwritten Signature]

Principal

B.Y.K. College of Commerce
Nashik - 422 005

Report

AIDS Awareness Programme:

The college unit of NSS has organized Aids Awareness Programme along with Civil Hospital, Nashik on 27th December 2019. The president of the function was Prin. Dr. Ram Kulkarni. The Chief Guest of the function was Mrs. Suneeta Borse (Civil Hospital, Nashik) and Mrs. Yogita Khandagle (Civil Hospital, Nashik).

Dr. Mrs. Sangeeta More, gave the welcome speech. Prin. Dr. Ram Kulkarni honored the guests. Mrs. Suneeta Borse guided the students on the theme, 'Role of Youth in Aids Control'. Vote of thanks given by the Dr. H. P. Wangarwar. In addition, the college conducted an Essay competition for the college students on "Aids Awareness.". 23 students submitted the essays in this competition. On 2nd January 2020, NSS volunteers participated in the AIDS awareness rally organized by the Civil Hospital, Nashik.





GOKHALE EDUCATION SOCIETY'S

B.Y.K. (Sinnar) College of Commerce

Prin. T. A. Kulkarni Vidyanagar, College Road, Nashik - 422005.

• Ph: 0253-2572520, 2578832, 2575786 (Jr. College) • Fax : 0253-2572520
• E-Mail : gesbyk@gmail.com • Website : www.bykcollege.com



(Affiliated to the Savitribai Phule Pune University, Pune)
ID No. PU/NS/C/003/1957

NAAC Re-accredited with Grade 'A'
ISO 9001 : 2015 Certified College

Dr. R. M. Kulkarni
Principal
M.com., M.Phil., Ph.D., D.B.M., D.I.T.

Ref:

Date: 01/7/2020

NATIONAL SERVICE SCHEME NOTICE

All the NSS volunteers hereby informed that we are organizing "Tree plantation" programme during 3rd July to 9th July 2020. All the volunteers shall plant saplings by following Covid-19 lockdown rules. Therefore, minimum one sapling shall be plant at home or neighbouring public place and send photograph of tree plantation on NSS Whats app group.

NSS Programme Officer



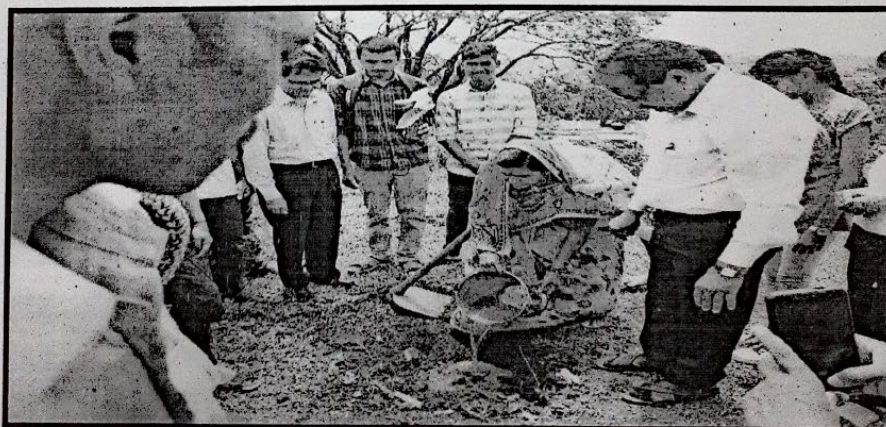
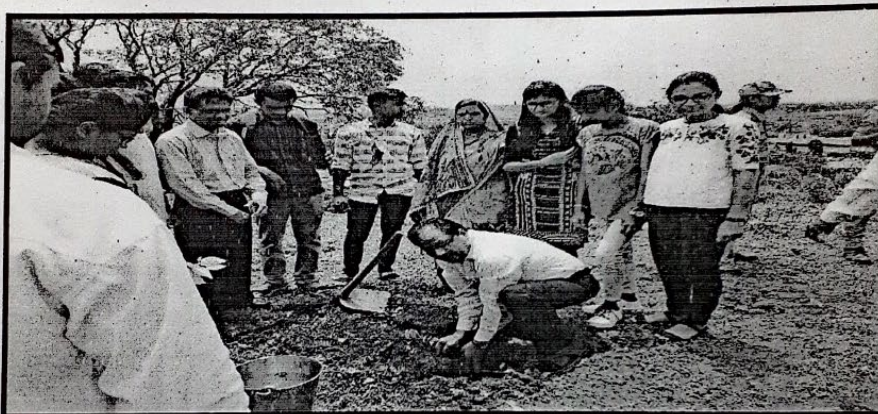
Principal

B.Y.K. College of Commerce
Nashik - 422 005

Tree plantation Report 2019-20:

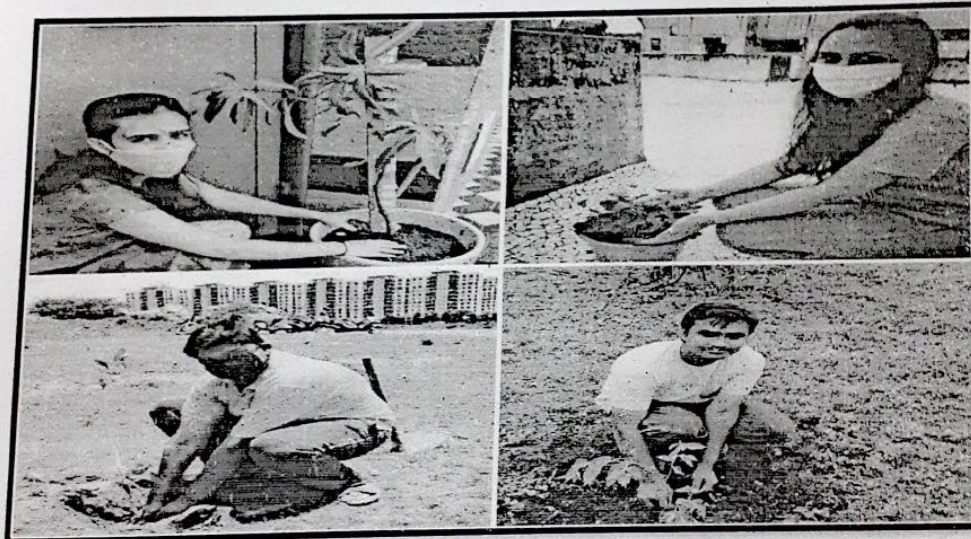
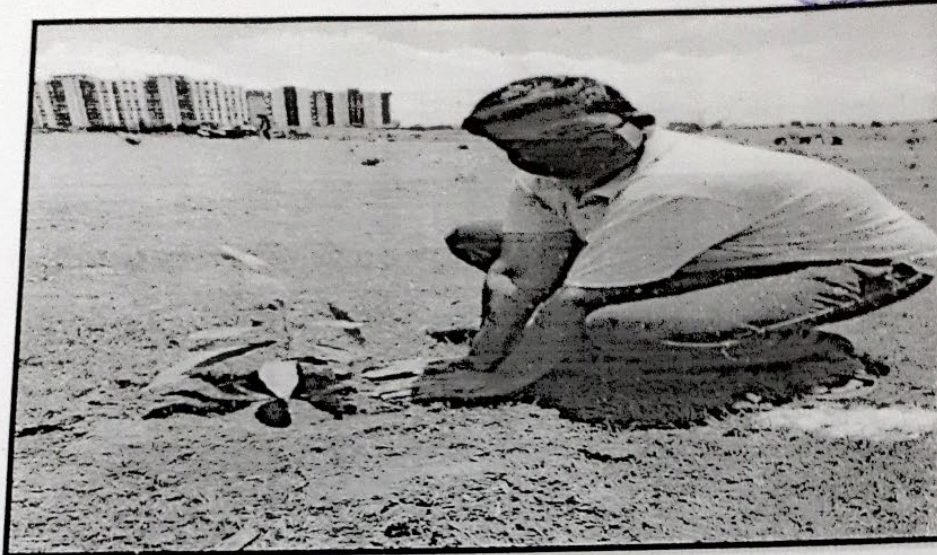


A tree plantation programme was undertaken on 17th July 2019 at Girnare Tal, Dist Nashik. This village is about 20 km away from the college. Saplings were provided by the Gram Panchayat office of Girnare. President of the function was Dr. G. V. Kayande Patil and Chief Guest was Mrs. Alka Divey (Sarpanch). A programme was initiated by the planting of saplings at the hands of Dr. G. V. Kayande Patil and Mrs. Alka Divey, Guest of the programme. 45 volunteers participated in the activity and more than 100 plants of Nimb, Mango, Chinch and Pipal planted at Khandoba hill of Girnare. Dr. G. V. Kayande Patil (Vice Principal), Mrs. Alka Divey (Sarpanch), Dr. Hari Wangarwar, Dr. D. K. Bhawari, Prof. Shishir Sindekar accompanied the students.



Tree plantation Report 2020-21:

A tree plantation week was celebrated from 3rd July to 9th July 2020. On 3rd July the programme was inaugurated by Prin. Dr. Ram Kulkarni in College campus by planting saplings. Volunteers planted saplings in surrounding area of their residential place. More than 50 volunteers participated in the campaign and each volunteer planted minimum one sapling.



GOKHALE EDUCATION SOCIETY'S

B.Y.K. (Sinnar) College of Commerce

Pnn. T. A. Kulkarni Vidyaniagar, College Road, Nashik - 422005

• Ph: 0253-2572520, 2576832, 2575286 (Jr. College) • Fax : 0253 - 2572520
• E-Mail : gesbyk@gmail.com • Website : www.bykcollege.com



DIAMOND JUBILEE
Celebrating 100 years

(Affiliated to the Savitribai Phule Pune University, Pune)

ID No. PU/NS/C/003/1957

NAAC Re-accredited with Grade 'A'

ISO 9001 : 2015 Certified College

Dr. R. M. Kulkarni

Principal

M.com., M.Phil., Ph.D., D.B.M., D.I.T.

Ref:

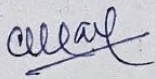
Date: 15/7/2019

NATIONAL SERVICE SCHEME NOTICE

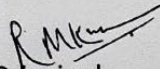
All the NSS volunteers hereby informed that we are organizing "Tree plantation" programme at Girnare village on 17th July 2019. All the volunteers shall present in the college campus at 8.00 am. College has arranged tempo for travel to Girnare. All the NSS volunteers shall present at scheduled time.

Venue: Khandoba Tekdi

Time: 8.00 am to 400 pm


NSS Programme Officer

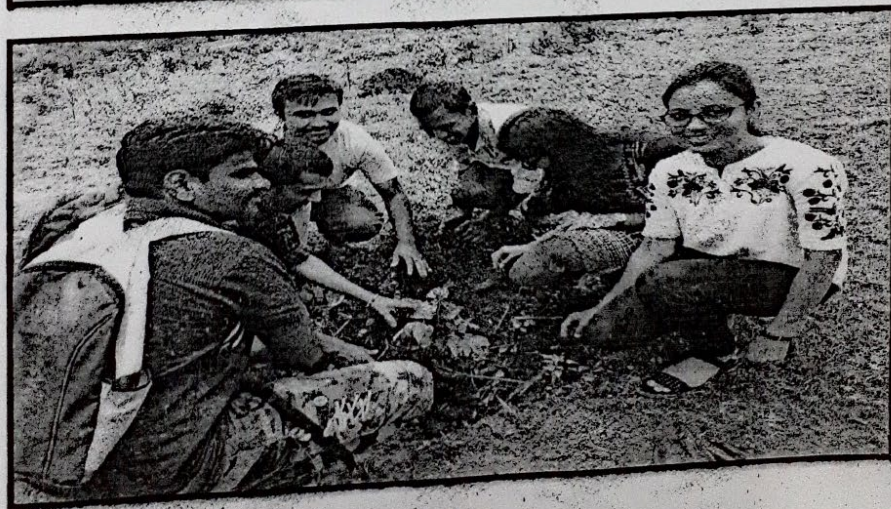



Principal
Principal
B.Y.K. College of Commerce
Nashik - 422 005



Tree plantation Report 2018-19:

Tree plantation is the important programme of college. This programme was undertaken on 28th July 2018 at Girnare Tal, Dist Nashik. This village is about 20 km away from the college. Volunteers have collected the saplings from the Nursery of Forest Department. Forty volunteers participated in the activity and more than 100 plants of Nimb, Mango, Chinch and Pipal planted at Khandoba hill of Girnare. Dr. Hari Wangarwar (NSS Programme Officer), Dr. D. K. Bhawari(NCC, ANO), Prof. Dr. C. B. Chaudhari (Incharge, Students Council) accompanied the students.





GOKHALE EDUCATION SOCIETY'S

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ID No. PU/NS/C/003/1957

'NAAC' Re-accredited with Grade 'A'

ISO 9001 : 2015 Certified College

Dr. V. N. Suryawanshi

Principal

M.Sc. Ph.D.

Ref. No. :

Date :

CRITERION-VII INSTITUTIONAL VALUES AND BEST PRACTICES 7.1.3 POLICY DOCUMENT ON 'GREEN CAMPUS'

Green Campus:

A Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly activities in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions.

Composition of the Go- Green Committee

1. **Principal of the college- Chairperson**
2. **IQAC Coordinator- Secretary**
3. **Faculty Representative nominated by the Principal**
4. **Student Representative- General Secretary of the college**
5. **Non-Teaching Staff Representative- Office Superintendent**
6. **Parent Representative- Secretary of the Parent Teacher Association**
7. **Industry Representative- Member of Alumni Association**

B. Role of the Go- Green Campus Programme: The impetus for a successful Green Campus must begin at the top and emanate throughout the rest of the campus. Without a strong message of commitment and involvement from both the Chairperson and the Members of the Committee, well-intentioned initiatives may be too fragmented to allow for Institute-wide participation. Thus in the view of this, the committee will plan and execute to:

1. Seek views of all the Stakeholders to make the Go Green Campus initiative functional throughout the year.
2. Conduct the Campus' environmental impacts to identify the targets for improvements.
3. Establish a Green Campus Environmental Ethic Awareness campaigns.



4. Set forth a Green Campus Mission and a Statement of Principles.
5. Link Green-Campus activities to Academics in the Institute.
6. Organize Awareness Programs for the students, faculty and society.
7. Chart out a yearly planner for the Institute, local community and Stakeholders.
8. Phase out the CFL and conventional light source such as bulbs and tube lights and get them replace by the LEDs.
9. Conduct an Annual Green, Environment and Energy Audit.
10. Purchase only Energy Efficient Computers.
11. Evaluate daily operations in terms of pollution prevention, waste management, and energy efficiency reducing, reusing, recycling, and repairing wherever possible.
12. Secure a commitment up front from the people in charge that well-founded recommendations will be acted upon once audits are completed.

C. Promotion of "Save Energy Tips" in and outside the Institute:

Activate power management features on your computer and monitor so that it will go into a

1. Low power "sleep" mode when you are not working on it. Turn off your monitor when you leave your Table
2. Activate power management features on your laser printer.
3. Whenever possible, shut down rather than logging off.
4. Turn off unnecessary lights and use daylight instead.
5. Avoid the use of decorative lighting.
6. Use LED or compact fluorescent bulbs.
7. Keep lights off in conference rooms, classrooms, lecture halls when they are not in use.
8. Use the fans only when they are needed.
9. Unplug appliances not plugged into power strips (like Projector, ACs, printers, faxes, and chargers etc.)

D. Waste Water Management/ Rainwater harvesting:

The Institute has to work in the direction of waste water management particularly in student's hostels. Water flow restrictors on bathroom faucets and showers, low water flow toilets and automated urinal flushers should be used to cut down campus water use. The Institute will take all necessary measures to implement waste water management /rain water harvesting.

E. Major Green Campus Initiatives:

1. ISO Certification 9001-2015
2. Installation of Solar Power Station Waste water Management/ Rainwater harvesting
3. Development of Sewage Water Treatment Plant



4. Sensor based energy conservation
5. Displayed poster on E-waste Management
6. Maintenance of water bodies and distribution system in the campus
7. Promote paperless administration
8. Plastic free Campus
9. Tree Plantation Drive
10. Cleanliness Drive
11. Landscaping and gardens
12. Use of LEDs only
13. Digital Library/ E-Learning Centre
14. Organization of sensitization programmes for the stakeholders
15. Green, Environment and Energy Audit conducted
16. Restricted entry of automobiles
17. Promote to use of e-bike, e-vehicle to the staff and students.



Principal
B.Y.K. College of Commerce
Nashik - 422 003





GOKHALE EDUCATION SOCIETY'S

B.Y.K.(SINNAR) COLLEGE OF COMMERCE, NASHIK MAHARASHTRA 42200

**7.1.3 QUALITY AUDITS ON ENVIRONMENT AND
ENERGY REGULARLY UNDERTAKEN BY THE
INSTITUTION**

- 1. Green Audit/Environment Audit**
- 2. Energy Audit**

S & A Certifications

Gokhale Education Society's

B.Y.K. College of Commerce.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

The Green House Gases Emissions Management System (Carbon Footprint)
ISO 14064:2006.

Carbon Foot Print

1st June 2020 to 31st May 2021. Calculation of Kg of CO2 Emissions

1	2	3	4	5
Category	Kg of CO2 per unit of consumption	Average Consumption Per Month	Calculation 2*3	Total Kg of CO2 2*3=5
Electricity	4.3 Kg Per Unit	621 Units	621 X 4.3 =	2,670.30
Diesel	2.68 Per Liter	5 Liters	5 X 2.68 =	13.40
Petrol	2.31 Per Liter	198 Liters	198 X 2.31 =	457.38
LPG	1.51 Per Kg	7.1 Kg	7.1 X 1.5 =	10.72
TOTAL				3,151.80

So the Average Monthly Carbon Foot Print per Month for the Period June 2020 to May 2021. is 3,151.80 Kg of CO2.

3,151.80 Kg of CO2 per Month is the Carbon Foot Print.

Certificate Number : S & A Certifications 02/GHGEMS / 06 / 21-22

Date of Issue :- 22/06/2021.



S & A Euro Cert.

Mr. Shrinivas Joshi

S & A Certifications (Authorised Signatory)

Global Corporate Office :- Woody House 212-224 Ferries Avenue, London, UK.

S & A Certifications

Gokhale Education Society's

B.Y.K. College of Commerce.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

The Water Management System (Water Foot Print)
ISO 14046:2014.

Water Foot Print

1st June 2020 to 31st May 2021

Total Metered Consumption from June 2020 to May 2021
Is 13,72,664 Liters.

So Average Daily Water Consumption
13,72,664 Liters / 365 Days = 3,760 Liters.

Foot Print for the Period June 2020 to May 2021
Is 3,760 Liters per Day.

**3760 Liters per Day is the Average Daily
Water Foot Print.**

Certificate Number : S & A Certifications 02/WMS / 06 / 21-22

Date of Issue :- 22/06/2021.



S & A Euro Cert.

Mr. Shrinivas Joshi

S & A Certifications (Authorised Signatory)

Global Corporate Office :- Woody House 212-224 Ferries Avenue, London, UK.

S & A Certifications

Gokhale Education Society's

B.Y.K. College of Commerce.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

The Green House Gases Emissions Management System (Carbon Footprint)
ISO 14064:2018.

Carbon Foot Print

1st June 2021 to 31st May 2022. Calculation of Kg of CO2 Emissions

1	2	3	4	5
Category	Kg of CO2 per unit of consumption	Average Consumption Per Month	Calculation 2*3	Total Kg of CO2 2*3=5
Electricity	4.3 Kg Per Unit	621 Units	767 X 4.3 =	3,298.10
Diesel	2.68 Per Liter	5 Liters	5 X 2.68 =	13.40
Petrol	2.31 Per Liter	198 Liters	198 X 2.31 =	457.38
LPG	1.51 Per Kg	7.1 Kg	7.1 X 1.5 =	10.72
TOTAL				3,779.60

So the Average Monthly Carbon Foot Print per Month for the Period June 2021 to May 2022. is 3,779.60 Kg of CO2.

3,780 Kg of CO2 per Month is the Carbon Foot Print.

Certificate Number : S & A Certifications 02/GHGEMS / 06 / 21-22

Date of Issue :- 16/06/2022.



S & A Euro Cert.

Mr. Shrinivas Joshi

S & A Certifications (Authorised Signatory)

Global Corporate Office :- Woody House 212-224 Ferries Avenue, London, UK.

S & A Certifications

Gokhale Education Society's

B.Y.K. College of Commerce.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

The Water Management System (Water Foot Print)

ISO 14046:2014.

Water Foot Print

1st June 2021 to 31st May 2022

Total Metered Consumption from June 2021 to May 2022
Is 11,30,510 Liters.

So Average Daily Water Consumption
11,30,510 Liters / 365 Days = 3,097 Liters.

Foot Print for the Period June 2021 to May 2022
Is 3,097 Liters per Day.

**3097 Liters per Day is the Average Daily
Water Foot Print.**

Certificate Number : S & A Certifications 02/WMS / 06 / 21-22

Date of Issue :- 16/06/2022.



S & A Euro Cert.

Mr. Shrinivas Joshi

S & A Certifications (Authorised Signatory)

Global Corporate Office :- Woody House 212-224 Ferries Avenue, London, UK.

S & A Certifications

Gokhale Education Society's

B.Y.K. College of Commerce.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

The Water Management System (Water Foot Print)
ISO 14046:2014.

Water Foot Print

1st June 2022 to 31st May 2023

Total Metered Consumption from June 2022 to May 2023
Is 9,95,143 Liters.

So Average Daily Water Consumption
9,95,143 Liters / 365 Days = 2,726 Liters.

Foot Print for the Period June 2022 to May 2023
Is 2,726 Liters per Day.

**2726 Liters per Day is the Average Daily
Water Foot Print.**

Certificate Number : S & A Certifications 01/WMS / 07 / 22-23

Date of Issue :- 11/07/2023.

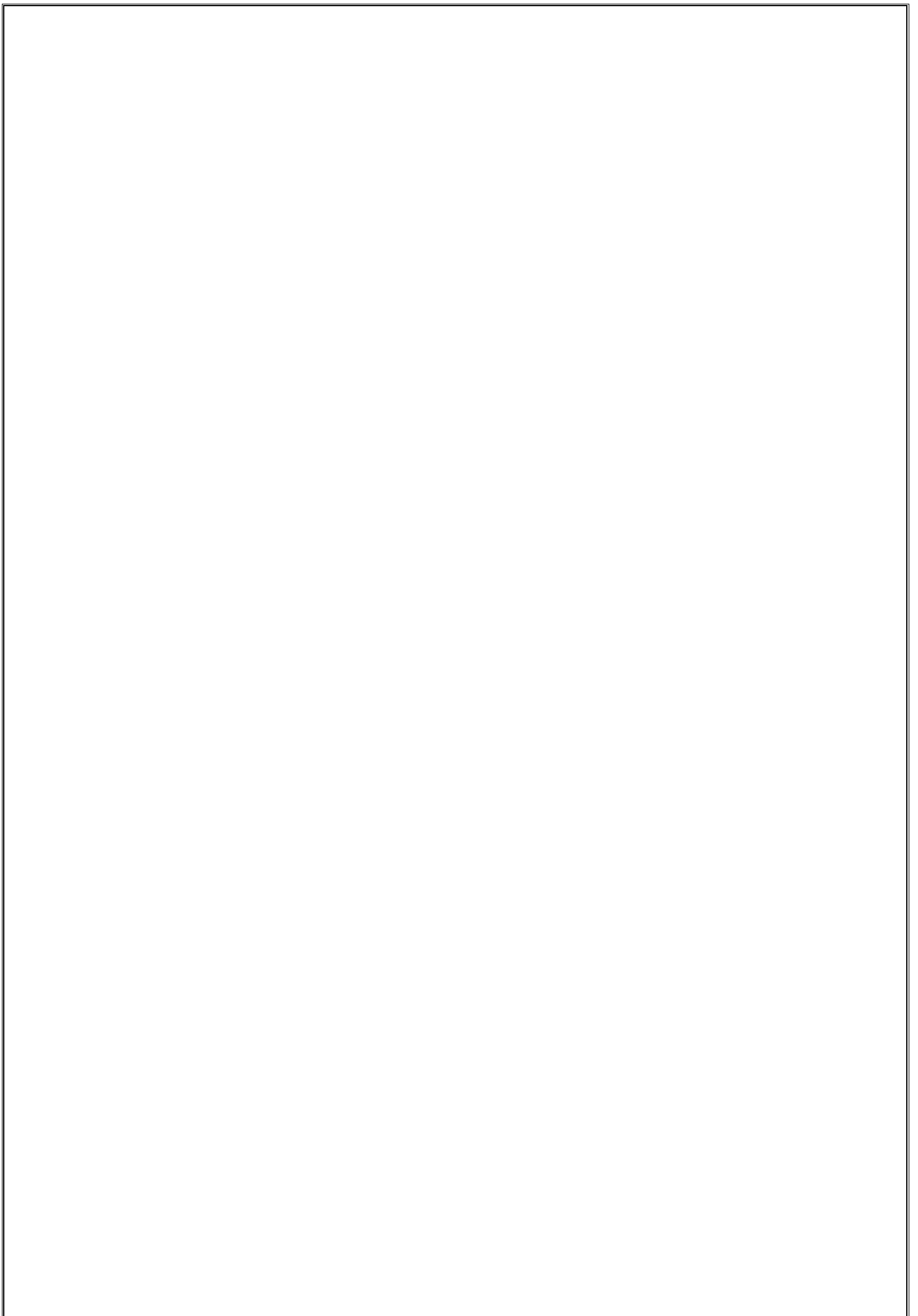


S & A Euro Cert.

Mr. Shrinivas Joshi

S & A Certifications (Authorised Signatory)

Global Corporate Office :- Woody House 212-224 Ferries Avenue, London, UK.



**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Green Audit Report.

Water Audit Report

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Green Audit was conducted by

CA. Dr. Ashis .Arun. Palkhiwale.

**Green Audit was conducted Online
without Actual Physical Visit.**

For 2020 - 2021.

**For Green Audit the Data considered for
the Period**

**1st June 2020 to 31st May 2021
(Academic Year)**

Date of Audit / Report

22nd June 2021

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Inclusions & Exclusions while performing the Green Audit.

- 1) Carbon emissions due to Students Travelling is not considered.
- 2) Carbon emissions due to Faculty & Staff Travelling is considered.
- 3) Carbon emissions during Industrial Visits travelling not considered.
- 4) Carbon emissions from the Construction of Building are not considered as the Building is more than 10 Years old.
- 5) All Wood is more than 6 years old so not considered.
- 6) Plywood is not considered as Plywood is already recycled.
- 7) Total Consumption of Electricity for the Institute is considered.
- 8) Total Consumption of Water for the Institute is considered.
- 9) LPG Cylinders are consumed mainly in Staff Room for Tea / Cofee preparation.
- 10) Green Cover is considered of the premises around the College campus which may include some part common to Principal T. A . Kulkarni Vidyanagar.
- 11) Emissions from Tiles, Cement, Bricks & Paints & Printers are not considered, as no major repairs carried out in 2020-21
- 12) Ambient Air Quality Monitoring is not performed as it was an Online Remote Audit.
- 13) Analysis of Water entering the drains / soak pits is not performed. as it was an Online Remote Audit. (Sewage water, Lab washing water, Washing & Cleaning water) is let out in drains.
- 14) Raw Water Analysis is not performed as it was an Online Remote Audit..
- 15) Radiation due to Wifi & Mobile Phones is not considered.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Air.

Since it was an Online Remote Audit. Ambient Air Quality was not monitored. Ideally it should be monitored at 12 locations depending on the area of the Institute.

Since it was an Online Remote Audit. Stack Emissions of the Diesel Generator was not monitored.

Paper.

Each A 4 paper is used from both the sides.

After use on both the sides then it is given for recycling (Paper Mesh).

To the extent possible use of soft copies of documents is promoted.

For the period **June 2020 to May 2021**

**The consumption was 40 Reams of Paper of
70 GSM.
(500 Sheets in each Ream & each Ream of 2.18 kg)**

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Water.

Water used for

Drinking, Cleaning, Washing & Flushing, Gardening, In Laboratory.

As per the water meter installed.

Month	Water Consumption in Liters
June 2020	47,083
July 2020	47,083
August 2020	47,083
September 2020	47,083
October 2020	47,083
November 2020	47,083
December 2020	47,083
January 2021	47,083
February 2021	2,49,000
March 2021	2,49,000
April 2021	2,49,000
May 2021	2,49,000
TOTAL	13,72,664

Yearly reading of the Water Meter **13, 72, 664** Liters Per Year

So Average Monthly Water Consumption will be

13, 72, 664 / 12 = 1,14,388 Liters Per Month.

Total Water Consumption from June 2020 to May 2021

1,14,388 Liters per Month

So the Water Foot print is

13,72,664 / 365 Days = 3,760 Liters per Day.

So the Water Foot Print is 3,760 Liters of Water Per Day.

A separate Water Foot Print Certificate is given to the Institute.

Currently no measures are being taken to save water or to recycle water.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Electricity.

Total Consumption of Electricity is ideally to be considered from the Meters reading shown in the Electricity Bill.

Electricity used for

Air Conditioners, Equipments in Labs, Tube Lights, Lights & Fans. Computers & Printers. To run the Utilities.

Total Meter reading for Electricity Consumption for the Period June 2020 to May 2021 are **7453 units**.

Monthly Average Units consumed for the Period June 2020 to May 2021 are **7453 / 12 = 621 units per month**.

Power Generation by running the Diesel Generator.

Diesel Consumption for the Period June 2020 to May 2021 is 60 Liters

So Monthly Average Consumption of Diesel is **60 Liters / 12 = 5 Liters per Month**.

Measures taken for Energy / Electricity Conservation.

- 1) Replacing the conventional Florescent Tube Lights with LED Tube Lights. (nearly 50% are replaced).
- 2) Replacing the CFL Blubs with LED Bulbs. (nearly 60% are replaced).
- 3) **Solar Power Generation**

Monthly
1500 – 2000 kw

- 4) Periodic Maintenance of the Diesel Generator to get Optimum performance.

LPG Consumption

Liquefied Petroleum Gas.

LPG Cylinder are used in Staff Room for Tea & Coffee Preparation.

June 2020 to May 2021.

**College consumes on an Average 1 Cylinder of LPG per 2 Months
1/2 Cylinder of 14.2 Kg of LPG Gas in it**

So LPG consumption is 7.1 Kg of Gas per Month.

There is no other application of LPG Cylinders in the Institute.

Consumption of Petrol by Staff Travelling to & fro the Institute.

According to the data given by the Institute. For the period
June 2020 to May 2021.

Distance Travelled by staff To & Fro the Institute by 2 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 2 Wheeler in a month by taking an average Fuel efficiency of 40 KMPL
60 Staff X 2.5 Km Average Distance Travelled per day so 150 X 25 = 3750 Km per Month	94 Liters Per Month
So 94 Liters per Month X 12 Months = 1,128 Liters Per Year.	

Distance Travelled by staff To & Fro the Institute by 4 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 4 Wheeler in a month by taking an average Fuel efficiency of 12 KMPL
20 Staff X 2.5 Km Average Distance Travelled per day so 50 X 25 = 1250 Km per Month	104 Liters Per Month
So 104 Liters per Month X 12 Months = 1,248 Liters Per Year.	

**So total Petrol Consumption from June 2020 to May 2021 is
1,128 + 1248 = 2,376 Liters per Year.
2,376 Liters per Year / 12 Months = 198 Liters per Month.**

So Following is the Calculation of the Carbon Foot Print.

Calculation of Kg of CO2 emissions

1	2 <i>As per ISO 14064</i>	3	4	5
Category	Kg of CO2 per unit of consumption	Average Monthly Consumption	Calculation 2*3	Total Kg of CO2 2*3=5
Electricity	4.3 Kg Per Unit	621 Units	621 X 4.3 =	2,670.3
Diesel	2.68 per liter	5 Liters	5 X 2.68=	13.4
Petrol	2.31 per liter	198 Liters	198 X 2.31=	457.38
LPG	1.51 per Kg	7.1 Kg	7.1 X 1.51 =	10.72
TOTAL				3,151.80

So the Average Monthly CO2 Emissions are 3,151.80 Kg of CO2.

So the Average Monthly CO2 Emissions are 3,151.80 Kg of CO2.

A separate Carbon Foot Print Certificate is given to the Institute.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

Green Cover Details.

Green cover area in the campus as a percentage of the total area is not calculated.

Total Number of Trees in and around the Campus are **1670**.

During the Period June 2020 & May 2021 around **10** New Trees Planted.

There are currently **1500 Trees** in the campus whose Height is more than **3 Meters**.

Mortality Rate of the Trees planted during the period 2020 – 2021 to be monitored.

Hazardous Waste Disposal

E waste is collected & disposed off to an Authorized E waste Disposer Party.
In the said period approximately 10 Kg of E Waste Generated. (Computer, Printers)

Used Batteries are given in Buy Back to the Supplier of New Batteries.

Other Non Hazardous Waste Generated which is disposed

Type of Waste	Quantity Generated in a year	How Disposed off to
Paper	10 Kg	Given for Recycling
Tree Leaves	2000 Kg	Given in Municipality Waste

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2020 - 2021**

**Suggestions for Environment / Green Audit / Water
Audit related activities to be carried out by the
Institute.**

- 1) STP (Sewage Treatment Plant) can be installed for processing & reusing the Sewage waste water.
- 2) The Flushing Tanks of WC (Toilets) to be modified such that only half gets filled & thus while flushing only half of the water is used.
- 3) Drip irrigation can be implemented for the Trees.
- 4) To fit the atomizer devise to taps to save water.
- 5) Testing of the water in the drain as it is directly going into the Municipality Drains.
- 6) Motion sensors can be fitted for the Light fittings in Washrooms, Lift and Lobby where continuous usage is not there.
- 7) Survival rate of planted trees to be monitored.
- 8) Grafting of new plants in the trunk of dead trees can be done.
- 9) In the next Green Audit to test the Ambient Air Quality at least at 12 Locations.
- 10) To test the Diesel Generator Stack Emissions.
- 11) To verify the radiation from Wifi & Mobile phones.
- 12) To conduct Poster & other Innovative Environment Idea Competition among students.
- 13) Use of E bikes & E Vehicles can be thought by the Staff Members.

**The Above Report is prepared based on the Records & Facts given by the
Office bearers of Institute.**



CA. Dr. Ashis .Arun. Palkhiwale.

(ACA, GDCA, Mcom, Msc (Env Sc), MA (Eco), **PhD (Env)**, Automobile Engg, DISA, DFM, DAM, DPT, DCL & DJL)

Lead Auditor & Trainer for

ISO 9001, 14001, 45001, 20000, 22301, 22000, 27001, 50001, 14064, 14046 & SA 8000 & CG, CSR, SOX, CDM, NABH, NABL, NBA, NAAC.

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Green Audit Report.

Water Audit Report

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Green Audit was conducted by

CA. Dr. Ashis .Arun. Palkhiwale.

**Green Audit was conducted Online
without Actual Physical Visit.**

For 2021 - 2022.

**For Green Audit the Data considered for
the Period**

**1st June 2021 to 31st May 2022
(Academic Year)**

Date of Audit / Report

16th June 2022

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Inclusions & Exclusions while performing the Green Audit.

- 1) Carbon emissions due to Students Travelling is not considered.
- 2) Carbon emissions due to Faculty & Staff Travelling is considered to be same as that of 2020- 2021.
(Actual Data for 2021 & 2022 not shared).
- 3) Carbon emissions during Industrial Visits travelling not considered.
- 4) Carbon emissions from the Construction of Building are not considered as the Building is more than 10 Years old.
- 5) All Wood is more than 6 years old so not considered.
- 6) Plywood is not considered as Plywood is already recycled.
- 7) Total Consumption of Electricity for the Institute is considered.
- 8) Total Consumption of Water for the Institute is considered.
- 9) LPG Cylinders are consumed mainly in Staff Room for Tea / Cofee preparation.
- 10) Green Cover is considered of the premises around the College campus which may include some part common to Principal T. A . Kulkarni Vidyanagar.
- 11) Emissions from Tiles, Cement, Bricks & Paints & Printers are not considered, as no major repairs carried out in 2020-21
- 12) Ambient Air Quality Monitoring is not performed as it was an Online Remote Audit.
- 13) Analysis of Water entering the drains / soak pits is not performed. as it was an Online Remote Audit. (Sewage water, Lab washing water, Washing & Cleaning water) is let out in drains.
- 14) Raw Water Analysis is not performed as it was an Online Remote Audit..
- 15) Radiation due to Wifi & Mobile Phones is not considered.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Air.

Since it was an Online Remote Audit. Ambient Air Quality was not monitored. Ideally it should be monitored at 12 locations depending on the area of the Institute.

Since it was an Online Remote Audit. Stack Emissions of the Diesel Generator was not monitored.

Paper.

No Actual Data for 2021- 2022 shared by the Institute so taken same as of 2020- 2021.

Each A 4 paper is used from both the sides.

After use on both the sides then it is given for recycling (Paper Mesh).

To the extent possible use of soft copies of documents is promoted.

For the period **June 2021 to May 2022**

**The consumption was 40 Reams of Paper of 70 GSM.
(500 Sheets in each Ream & each Ream of 2.18 kg)**

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Water.

Water used for

Drinking, Cleaning, Washing & Flushing, Gardening.

As per the water meter installed.

<i>Meter No.</i>	<i>Month</i>	<i>Water Consumption in Liters</i>
70203071	01.06.2021 to 25.06.2021	68,750
	26.06,2021 to 31.05.2022	37,689
70203072	01.06.2021 to 25.06.2021	66,186
	26.06.2021 to 31.05.2022	36,887
70203073	01.06.2021 to 25.06.2021	64,583
	26.06,2021 to 31.05.2022	8,56,415
	TOTAL	11,30,510

Yearly reading of the Water Meter **11, 30, 510** Liters Per Year

So Average Monthly Water Consumption will be

11, 30, 510 / 12 = 94,209 Liters Per Month.

Total Water Consumption from June 2021 to May 2022

94,209 Liters per Month

So the Water Foot print is

11,30,510 / 365 Days = 3,097 Liters per Day.

So the Water Foot Print is 3,097 Liters of Water Per Day.

A separate Water Foot Print Certificate is given to the Institute.

Currently no measures are being taken to save water or to recycle water.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Electricity.

Total Consumption of Electricity is ideally to be considered from the Meters reading shown in the Electricity Bill.

Electricity used for

Air Conditioners, Equipments, Tube Lights, Lights & Fans. Computers & Printers. To run the Utilities.

Meter reading for Electricity Consumption for the Period June 2021 to May 2022.

Meter Reading provided by the Institute only for June 2021 to January 2022.

So The Electrical Consumption for February 2022 to May 2022 is taken based on Average of the Consumption of June 2021 to January 2022.

Also Consumption given in Units & not in KWH

Month	Electrical Consumption in Units
June 2021	564
July 2021	576
August 2021	660
September 2021	754
October 2021	714
November 2021	767
December 2021	1176
January 2022	926
February 2022	767
March 2022	767
April 2022	767
May 2022	768
TOTAL	9,206

Average Consumption June 2021 to January 2022

6,137 / 8 = 767

So February 2022 to May 2022 Consumption taken as 767 Units Per Month

Monthly Average Units consumed for the Period June 2021 to May 2022 are
9,206 / 12 = 767 units per month.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

Power Generation by running the Diesel Generator.

**Diesel Consumption for the Period June 2021 to May 2022 not shared by the Institute
So taken same as that of June 2020 to May 2021**

Diesel Consumption for the Period June 2021 to May 2022 is 60 Liters

So Monthly Average Consumption of Diesel is
60 Liters / 12 = 5 Liters per Month.

Measures taken for Energy / Electricity Conservation.

- 1) Replacing the conventional Florescent Tube Lights with LED Tube Lights. (nearly 50% are replaced).
- 2) Replacing the CFL Blubs with LED Bulbs. (nearly 60% are replaced).

3) Solar Power Generation

**Data for June 2021 to May 2022 not shared by the Institute
(So Taken same as that of June 2020 to May 2021)**

Monthly
1500 – 2000 kw

- 4) Periodic Maintenance of the Diesel Generator to get Optimum performance.

LPG Consumption

Liquefied Petroleum Gas.

LPG Cylinder are used in Staff Room for Tea & Coffee Preparation.

LPG Consumption for the Period June 2021 to May 2022 not shared by the Institute

So taken same as that of June 2020 to May 2021

June 2021 to May 2022.

College consumes on an Average 1 Cylinder of LPG per 2 Months

1/2 Cylinder of 14.2 Kg of LPG Gas in it

So LPG consumption is 7.1 Kg of Gas per Month.

There is no other application of LPG Cylinders in the Institute.

Consumption of Petrol by Staff Travelling to & fro the Institute.

**Staff Travelling Details for the Period June 2021 to May 2022 not
shared by the Institute
So taken same as that of June 2020 to May 2021**

According to the data given by the Institute. For the period
June 2020 to May 2021.

Distance Travelled by staff To & Fro the Institute by 2 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 2 Wheeler in a month by taking an average Fuel efficiency of 40 KMPL
60 Staff X 2.5 Km Average Distance Travelled per day so 150 X 25 = 3750 Km per Month	94 Liters Per Month
So 94 Liters per Month X 12 Months = 1,128 Liters Per Year.	

Distance Travelled by staff To & Fro the Institute by 4 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 4 Wheeler in a month by taking an average Fuel efficiency of 12 KMPL
20 Staff X 2.5 Km Average Distance Travelled per day so 50 X 25 = 1250 Km per Month	104 Liters Per Month
So 104 Liters per Month X 12 Months = 1,248 Liters Per Year.	

**So total Petrol Consumption from June 2020 to May 2021 is
1,128 + 1248 = 2,376 Liters per Year.
2,376 Liters per Year / 12 Months = 198 Liters per Month.**

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

So Following is the Calculation of the Carbon Foot Print.

Calculation of Kg of CO2 emissions

1	2 <i>As per ISO 14064</i>	3	4	5
Category	Kg of CO2 per unit of consumption	Average Monthly Consumption	Calculation 2*3	Total Kg of CO2 2*3=5
Electricity	4.3 Kg Per Unit	767 Units	767 X 4.3 =	3,298.1
Diesel	2.68 per liter	5 Liters	5 X 2.68=	13.4
Petrol	2.31 per liter	198 Liters	198 X 2.31=	457.38
LPG	1.51 per Kg	7.1 Kg	7.1 X 1.51 =	10.72
TOTAL				3,779.60

So the Average Monthly CO2 Emissions are 3,779.60 Kg of CO2.

**So the Average Monthly CO2 Emissions Rounded off are
3,780 Kg of CO2.**

A separate Carbon Foot Print Certificate is given to the Institute.

Green Cover Details.

**No fresh Data for 2021 -2022 is given so the Data for 2020- 2021
kept as it is**

Green cover area in the campus as a percentage of the total area is not
calculated.

Total Number of Trees in and around the Campus are **1670.**

During the Period June 2020 & May 2021 around **10** New Trees Planted.

There are currently **1500 Trees** in the campus whose Height is more than
3 Meters.

Mortality Rate of the Trees planted during the period 2020 – 2021 &
2021- 2022 to be monitored.

Hazardous Waste Disposal

E waste is collected & disposed off to an Authorized E waste Disposer Party.
Used Batteries are given in Buy Back to the Supplier of New Batteries.

**No details of Hazardous & Non Hazardous Waste Generated &
Disposed was shared by the Institute.**

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

**Gokhale Education Society's
B.Y.K. (Sinnar) College of Commerce.
Green Audit Report 2021 - 2022**

**Suggestions for Environment / Green Audit / Water
Audit related activities to be carried out by the
Institute.**

- 1) STP (Sewage Treatment Plant) can be installed for processing & reusing the Sewage waste water.
- 2) The Flushing Tanks of WC (Toilets) to be modified such that only half gets filled & thus while flushing only half of the water is used.
- 3) Drip irrigation can be implemented for the Trees.
- 4) To fit the atomizer device to taps to save water.
- 5) Testing of the water in the drain as it is directly going into the Municipality Drains.
- 6) Motion sensors can be fitted for the Light fittings in Washrooms, Lift and Lobby where continuous usage is not there.
- 7) Survival rate of planted trees to be monitored.
- 8) Grafting of new plants in the trunk of dead trees can be done.
- 9) In the next Green Audit to test the Ambient Air Quality at least at 12 Locations.
- 10) To test the Diesel Generator Stack Emissions.
- 11) To verify the radiation from Wifi & Mobile phones.
- 12) To conduct Poster & other Innovative Environment Idea Competition among students.
- 13) Use of E bikes & E Vehicles can be thought by the Staff Members.
- 14) Complete Data to be shared by the Institute.

The Above Report is prepared based on the Records & Facts given by the Office bearers of Institute.

(The Person signing the report will not be responsible as lot of Data was not provided also Incomplete Data provided)



CA. Dr. Ashis .Arun. Palkhiwale. (16th June 2022)

(Green Auditor & LA ISO 14001)(Blue Flag Certification Auditor)

**CA, GDCA, MBA (Finance), MBA (IS), MBA (HR), DIP (Automobile Engg), Mcom, MA (Eco),
Msc. (Environmental Science),
(DISA, DFM, DPT, DCL, DFEA, DAD, DVCCR, DET, DPTHR, DTDC & DJL)
PhD (Environment Science) Post Doc (Marine Environment Science)**

Lead Auditor & Trainer for

**ISO 9001, 14001, 45001, 20000, 22301, 22000, 27001, 50001, 14064, 14046, 14021 & SA 8000 & CG,
CSR, SOX, CDM, NABH, NABL, NBA, NAAC.**

Principal T.A. Kulkarni Vidyanagar Nashik –422005.



SKYLAB
ANALYTICAL LABORATORY



MOEF & CC APPROVED AND NABL (ISO 17025) CERTIFIED ENVIRONMENT LABORATORY
Gokhale Education Society's
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Green Audit Report 2022 - 2023

Green Audit Report.

Water Audit Report

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

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Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Green Audit was conducted by

Mr. Saurabh Pansare.

(Director of SKY Lab)

**Green Audit was conducted Online without
Actual Physical Visit.**

For 2022 - 2023.

For Green Audit the Data considered for the Period

1st June 2022 to 31st May 2023

(Academic Year)

Date of Audit / Report

11th July 2023

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

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Green Audit Report 2022 - 2023

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- 3) Carbon emissions during Industrial Visits travelling not considered.
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Principal T.A. Kulkarni Vidyanagar Nashik –422005.

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Green Audit Report 2022 - 2023

Air.

Since it was an Online Remote Audit. Ambient Air Quality was not monitored. Ideally it should be monitored at 12 locations depending on the area of the Institute.

Since it was an Online Remote Audit. Stack Emissions of the Diesel Generator was not monitored.

Paper.

No Actual Data for 2021- 2022 & 2022-2023 shared by the Institute so taken same as of 2020- 2021.

Each A 4 paper is used from both the sides.

After use on both the sides then it is given for recycling (Paper Mesh).

To the extent possible use of soft copies of documents is promoted.

For the period **June 2022 to May 2023**

The consumption was 40 Reams of Paper of 70 GSM.

(500 Sheets in each Ream & each Ream of 2.18 kg)

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Water.

Water used for

Drinking, Cleaning, Washing & Flushing, Gardening.

As per the water meter installed.

70203071	47,000 Liters	40,286 Liters
70203072	46,000 Liters	39,429 Liters
70203073	10,68,000 Liters	9,15,428 Liters
	TOTAL	9,95,143

Yearly reading of the Water Meter **9, 95, 143** Liters Per Year

So Average Monthly Water Consumption will be

9, 95, 143 / 12 = 82,929 Liters Per Month.

Total Water Consumption from June 2022 to May 2023

82,929 Liters per Month

So the Water Foot print is

9,95,143 / 365 Days = 2,726 Liters per Day.

So the Water Foot Print is 2,726 Liters of Water Per Day.

A separate Water Foot Print Certificate is given to the Institute.

Currently no measures are being taken to save water or to recycle water.

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Electricity.

Total Consumption of Electricity is ideally to be considered from the Meters reading shown in the Electricity Bill.

Electricity used for

Air Conditioners, Equipments, Tube Lights, Lights & Fans. Computers & Printers. To run the Utilities.

Meter reading for Electricity Consumption for the Period June 2022 to May 2023.

Month	Electrical Consumption in Units
June 2022	1548
July 2022	2148
August 2022	2222
September 2022	2147
October 2022	2078
November 2022	2249
December 2022	2028
January 2023	2146
February 2023	1158
March 2023	1303
April 2023	1692
May 2023	1645
TOTAL	22,364

Average Consumption June 2022 to May 2023

Monthly Average Units consumed for the Period June 2022 to May 2023 are **22,364 / 12 = 1,864 units per month.**

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Power Generation by running the Diesel Generator.

Diesel Consumption for the Period June 2022 to May 2023

Date	Consumption in Liters
02.07.2022	51.96
12.11.2022	53.60
04.01.2023	53.59
02.05.2023	26.80
TOTAL	185.95

Diesel Consumption for the Period June 2022 to May 2023 is **186** Liters

So Monthly Average Consumption of Diesel is

186 Liters / 12 = 15.5 Liters per Month.

Measures taken for Energy / Electricity Conservation.

- 1) Replacing the conventional Florescent Tube Lights with LED Tube Lights. (nearly 50% are replaced).
- 2) Replacing the CFL Blubs with LED Bulbs. (nearly 60% are replaced).

3) Solar Power Generation

Data for June 2021 to May 2022 & June 2022 to May 2023 not shared by the Institute

(So Taken same as that of June 2020 to May 2021) as installed capacity not changed.

Monthly
1500 – 2000 kw

- 4) Periodic Maintenance of the Diesel Generator to get Optimum performance.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

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Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

LPG Consumption

Liquefied Petroleum Gas.

LPG Cylinder are used in Staff Room for Tea & Coffee Preparation.

LPG Consumption for the Period June & June 2022 to May 2023 shared by the Institute

June 2022 to May 2023.

College consumes on an Average **1 Cylinder of LPG per 2 Months**

1/2 Cylinder of 14.2 Kg of LPG Gas in it

So LPG consumption is **7.1 Kg of Gas per Month.**

There is no other application of LPG Cylinders in the Institute.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

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Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Consumption of Petrol by Staff Travelling to & fro the Institute.

Staff Travelling Details for the Period June 2021 to May 2022 & June 2022 to May 2023 not shared by the Institute

So taken same as that of June 2020 to May 2021

According to the data given by the Institute. For the period

June 2020 to May 2021.

Distance Travelled by staff To & Fro the Institute by 2 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 2 Wheeler in a month by taking an average Fuel efficiency of 40 KMPL
60 Staff X 2.5 Km Average Distance Travelled per day so 150 X 25 = 3750 Km per Month	94 Liters Per Month
So 94 Liters per Month X 12 Months = 1,128 Liters Per Year.	
Distance Travelled by staff To & Fro the Institute by 4 Wheeler per month based on a 25 days working Month	Petrol Consumption per day by 4 Wheeler in a month by taking an average Fuel efficiency of 12 KMPL
20 Staff X 2.5 Km Average Distance Travelled per day so 50 X 25 = 1250 Km per Month	104 Liters Per Month
So 104 Liters per Month X 12 Months = 1,248 Liters Per Year.	

So total Petrol Consumption from June 2020 to May 2021 is

1,128 + 1248 = 2,376 Liters per Year.

2,376 Liters per Year / 12 Months = 198 Liters per Month.

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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Green Audit Report 2022 - 2023

So Following is the Calculation of the Carbon Foot Print.

Calculation of Kg of CO2 emissions

1	2 <i>As per ISO 14064</i>	3	4	5
Category	Kg of CO2 per unit of consumption	Average Monthly Consumption	Calculation 2*3	Total Kg of CO2 2*3=5
Electricity	4.3 Kg Per Unit	1,864 Units	1,864 X 4.3 =	8,015.20
Diesel	2.68 per liter	15.50 Liters	15.50 X 2.68=	41.54
Petrol	2.31 per liter	198 Liters	198 X 2.31=	457.38
LPG	1.51 per Kg	7.1 Kg	7.1 X 1.51 =	10.72
TOTAL				8,524.84

So the Average Monthly CO2 Emissions are 8,524.84 Kg of CO2.

**So the Average Monthly CO2 Emissions Rounded off are
8,525 Kg of CO2.**

A separate Carbon Foot Print Certificate is given to the Institute.

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

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Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Green Cover Details.

No fresh Data for 2021 -2022 & 2022 -2023 is given so the Data for 2020- 2021 kept as it is

Green cover area in the campus as a percentage of the total area is not calculated.

Total Number of Trees in and around the Campus are **1670**.

During the Period June 2022 & May 2023 around **NO** New Trees Planted.

There are currently **1500 Trees** in the campus whose Height is more than **3 Meters**.

Mortality Rate of the Trees planted during the period 2020 – 2021 & 2021- 2022 to be monitored.

Hazardous Waste Disposal

E waste is collected & disposed off to an Authorized E waste Disposer Party.
Used Batteries are given in Buy Back to the Supplier of New Batteries.

No details of Hazardous & Non Hazardous Waste Generated & Disposed was shared by the Institute.

Principal T.A. Kulkarni Vidyanagar Nashik –422005.

SKYLAB ANALYTICAL LABORATORY

202, CFC-3, Asmeeta Texpa, Addl. Kalyan-Bhiwandi Industrial Area,
MIDC, Village Kon, Tal. Bhiwandi - 421311 Dist. Thane, Maharashtra, INDIA. **Contact-** 02522-297784/85
Email- mails@skylabenviro.com **Website-** www.skylabenviro.com



SKYLAB
ANALYTICAL LABORATORY



MOEF & CC APPROVED AND NABL (ISO 17025) CERTIFIED ENVIRONMENT LABORATORY

Gokhale Education Society's

B.Y.K. (Sinnar) College of Commerce.

Green Audit Report 2022 - 2023

Suggestions for Environment / Green Audit / Water Audit related activities to be carried out by the Institute.

- 1) STP (Sewage Treatment Plant) can be installed for processing & reusing the Sewage waste water.
- 2) The Flushing Tanks of WC (Toilets) to be modified such that only half gets filled & thus while flushing only half of the water is used.
- 3) Drip irrigation can be implemented for the Trees.
- 4) To fit the atomizer device to taps to save water.
- 5) Testing of the water in the drain as it is directly going into the Municipality Drains.
- 6) Motion sensors can be fitted for the Light fittings in Washrooms, Lift and Lobby where continuous usage is not there.
- 7) Survival rate of planted trees to be monitored.
- 8) Grafting of new plants in the trunk of dead trees can be done.
- 9) In the next Green Audit to test the Ambient Air Quality at least at 12 Locations.
- 10) To test the Diesel Generator Stack Emissions.
- 11) To verify the radiation from Wifi & Mobile phones.
- 12) Use of E bikes & E Vehicles can be thought by the Staff Members.
- 13) Complete Data to be shared by the Institute.

The Above Report is prepared based on the Records & Facts given by the Office bearers of Institute.

(The Person signing the report will not be responsible as lot of Data was not provided also Incomplete Data provided)



For Sky Lab Analytical Laboratory

Mr. Saurabh Pansare.

(Director)

(11th July 2023)

Principal T.A. Kulkarni Vidyanagar Nashik -422005.

SKYLAB ANALYTICAL LABORATORY

202, CFC-3, Asmeeta Texpa, Addl. Kalyan-Bhiwandi Industrial Area,
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National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SKYLAB ANALYTICAL LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

202 & 302, CFC-3, ASMEETA TEXPA, PLOT NO. 1, BHIWANDI INDUSTRIAL AREA, M.I.D.C., VILLAGE
KON, BHIWANDI, KALYAN, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-5150

Issue Date: 16/05/2022

Valid Until:

15/05/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : SKYLAB ANALYTICAL LABORATORY

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

No. Q-15018/55/2017-CPW
Government of India
Ministry of Environment, Forest and Climate Change
CP Division

Room No. A-129, Agni Block, 1st Floor,
Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi- 110003

Dated: 3rd February, 2021

To

The Managing Director
M/s Skylab Analytical Laboratory
202 & 302, CFC-3, Asmeeta Texpa
Plot No. -1, Addl. Kalyan Bhiwandi Industrial Area
M.I.D.C, Village Kon, Tal- Bhiwandi, Dist-Thane-421311
Maharashtra

Ref: (i) MoEF&CC's letter No. Q-15018/55/2017-CPW dated 09.06.2020
(ii) M/s Autocal Solutions Pvt. Ltd., Navi Mumbai, mail dated 11.01.2021.

Subject: - Extension of validity of recognition of M/s Skylab Analytical Laboratory, 202 & 302, CFC-3, Asmeeta Texpa, Plot No. 1, Addl. Kalyan Bhiwandi Industrial Area, M.I.D.C, village Kon, Tal-Bhiwandi, Dist-Thane-421311, Maharashtra as Environmental Laboratory under the Environment (Protection) Act, 1986.


Sir,

With reference to the above, and in view of the current validity of mandatory certificates submitted, this Ministry hereby extends the validity of recognition of M/s Skylab analytical Laboratory, Thane, Maharashtra under the Environment (Protection) Act, 1986 to 08.12.2023, as shall be notified in the Gazette of India.

2. This recognition is subject to all the terms and conditions detailed in this Ministry's letter under reference and these shall be strictly adhered to by the laboratory.

Yours faithfully,




(Dr. Ritesh Joshi)
Scientist 'E'

Copy to :

1. Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi – 110032.
2. Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Rd Number 8, Jay Bharat Mata Nagar, Air Force Quarters, Sion, Mumbai, Maharashtra 400022
3. Additional Principal Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440001.
4. Director, IT Division, MoEF&CC, New Delhi-110003: for uploading on MoEF&CC website