



CRITERION 7 – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 Institutional Values and Social Responsibilities

7.1.6 Quality audits on environment and energy are regularly undertaken by the institution during the Year 2023-24

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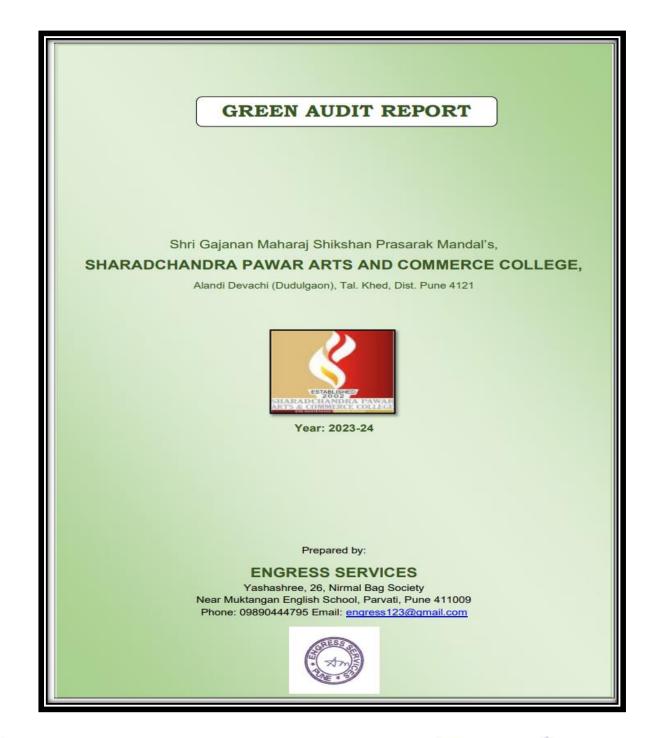
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| 2 | Energy Audit | 18 to 31 |
| 3 | Environment Audit | 32 to 51 |
| 4 | Clean and Green Campus Recognitions/Awards | 52 to58 |
| 5 | Beyond the Campus Environmental Promotional Activities | 59 to 63 |



PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune-









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Green Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Shri Gajanan Maharaj Shikshan Prasarak Mandal's Sharadchandra Pawar Arts and Commerce College, Alandi Devachi (Dudulgaon), Tal. Khed, Dist. Pune-412105, for awarding us the assignment of Green Audit of their Dudulgaon campus for the Year: 2023-24.

We are thankful to all staff members for helping us during the field study.

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Green Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24

EXECUTIVE SUMMARY

| | No | Particulars | Value | Unit |
|-------------------------------|---|---|---------------|---------------------|
| | 1 | Annual Energy Consumed | 15604 | kWh |
| | 2 | Annual CO ₂ Emissions | 14.51 | MT |
| • TI | of Renewable E ne College has y Management: | Energy: et to install Roof Top Solar P\ | / Plant. | |
| No | Head | P | articulars | |
| 1 | Solid Waste | Segregation of Waste at | source | |
| 2 | Organic Waste | | | |
| 3 | Sanitary Waste | e Provision of Sanitary Wa | ste Incinera | tor |
| 4 | E Waste | Recommended to dispose | se of through | Authorized Agen |
| • Pr | ovision of Ramp | ation in the campus for Divyangajan ness on Importance of Plastic | Free Camp | us by display of Po |
| 7. Assum | en e | | | |
| 7. Assum | kWh of Electrica | I Energy releases 0.93 Kg of | CO₂ into atm | nosphere |
| 7. Assum 1. 1 8. Refere | kWh of Electrica | I Energy releases 0.93 Kg of s: <u>www.ccd.qujarat.qov.in</u> | CO₂ into atm | nosphere |

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| Green Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 | | | | | |
|---|-----------------|---------------------------------------|--|--|--|
| ABBREVIATIONS | | | | | |
| | NCRD | National Centre for Rural Development | | | |
| | kWh | Kilo Watt Hour | | | |
| | LPD | Liters Per Day | | | |
| | Kg | Kilo Gram | | | |
| | MT | Metric Ton | | | |
| | CO ₂ | Carbon Di Oxide | | | |
| | Qty | Quantity | | | |
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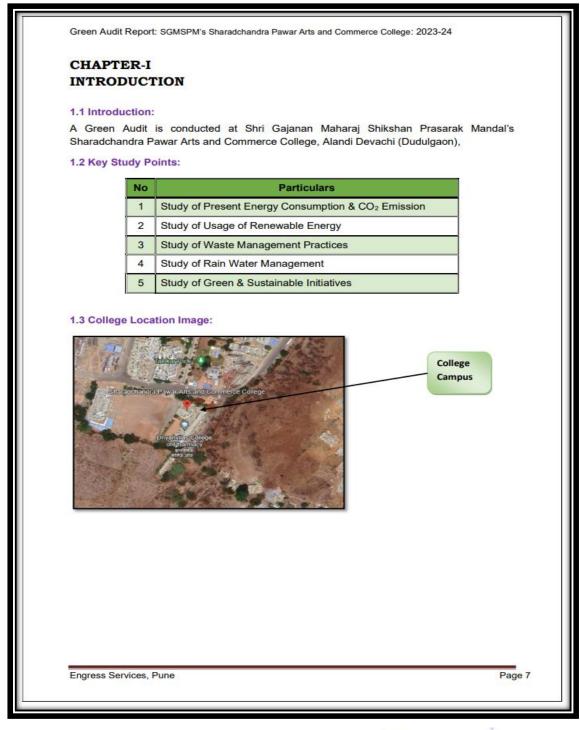
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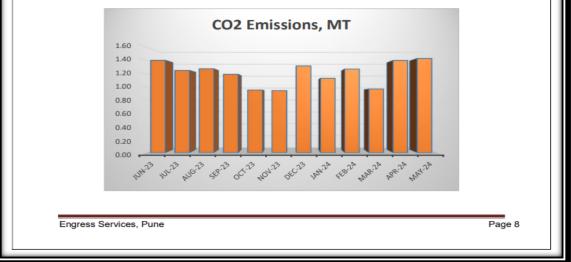
CHAPTER-II STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. Basis for computation of CO₂ Emissions: 1 kWh of Electrical Energy releases 0.93 Kg of CO₂ into atmosphere.

Table No 1: Month wise Energy Consumption & CO₂ Emissions:

| No | Month | Energy Consumed, kWh | CO ₂ Emissions, MT |
|----|---------|-------------------------|----------------------------------|
| 1 | Jun-23 | 1506 | 1.40 |
| 2 | Jul-23 | 1341 | 1.25 |
| 3 | Aug-23 | 1369 | 1.27 |
| 4 | Sep-23 | 1279 | 1.19 |
| 5 | Oct-23 | 1023 | 0.95 |
| 6 | Nov-23 | 1014 | 0.94 |
| 7 | Dec-23 | 1415 | 1.32 |
| 8 | Jan-24 | 1214 | 1.13 |
| 9 | Feb-24 | 1364 | 1.27 |
| 10 | Mar-24 | 1039 | 0.97 |
| 11 | Apr-24 | 1504 | 1.40 |
| 12 | May-24 | 1536 | 1.43 |
| 13 | Total | 15604 | 14.51 |
| 14 | Maximum | 1536 | 1.43 |
| 15 | Minimum | 1014 | 0.94 |
| 16 | Average | 1300 | 1.21 |

Chart No 1: Month wise CO₂ Emissions:

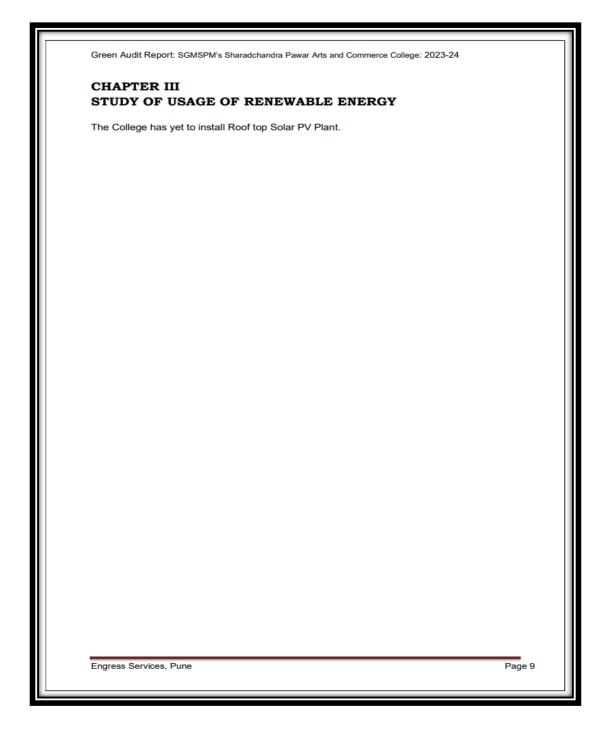




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| | STUDY OF WASTE MANAGEMENT | | | |
|----|---------------------------|--|--|--|
| | 1 | anagement Practices: | Distance | |
| No | Head | Observation | Photograph Waste Collection Bin | |
| 1 | Solid Waste | Segregation of Waste at Source: Provision of Waste Collection Bins | Corpeting | |
| 2 | Organic Waste | Installed a Bio Composting Bed, for conversion of Organic waste. | Bio Composting Bed: | |



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| | | | Sanitary Waste Incinerator: |
|---|-------------------|--|--|
| 3 | Sanitary Waste | Provision of Sanitary Waste Incinerator to dispose of the Sanitary Waste | A CONTRACTOR DE LA CONT |
| 4 | E Waste | Recommended to dispose of | through Authorized Agency. |
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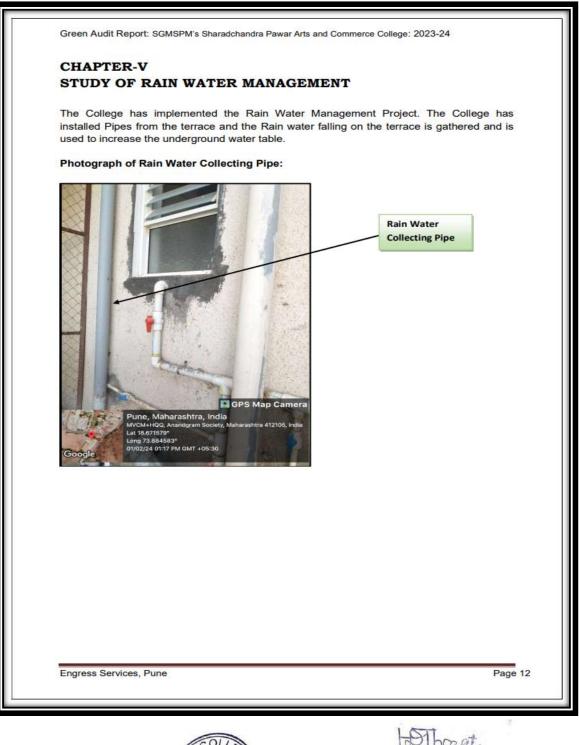


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| In this Chapter, we present the Green & Sustainable Practices followed by the College. Green & Sustainable Practices: No Head Observation Photograph Image: Constraint of the second s | ST | | REEN & SUSTAII | NABLE PRACTICES |
|--|----|----------------------|----------------------|---|
| 1 Easy Movement of Stake Holders Provision of Good Internal Road within the Campus Internal Road: 2 Tree Plantation Internal Tree Plantation in the Campus Internal Tree Plantation in the Campus Internal Tree Plantation in the Campus | | en & Sustaina | | |
| 1Easy Movement HoldersProvision of Good Internal Road within the CampusImage: Compute State State He CampusImage: Compute State | No | Head | Observation | |
| 2 Tree Plantation Internal Tree Plantation in the Campus | 1 | Movement of Stake | Internal Road within | |
| Google Latt 38 Jin 429 | 2 | | Plantation in the | Prove Malarashta, India Brazashta, India Brazashta, India Brazashta, India |



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| 5 | Green Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 | | | | |
|---|---|---|---|--------------------------------|--|
| | 3 | Facilities for Divyangajan | | Ramp for Divyangajan: | |
| | 4 | Creation of Awareness among Stake Holders | Display of Poster on Plastic Free Campus | Poster on Plastic Free Campus: | |
| | Engr | ess Services, Pu | ne | Page 14 | |



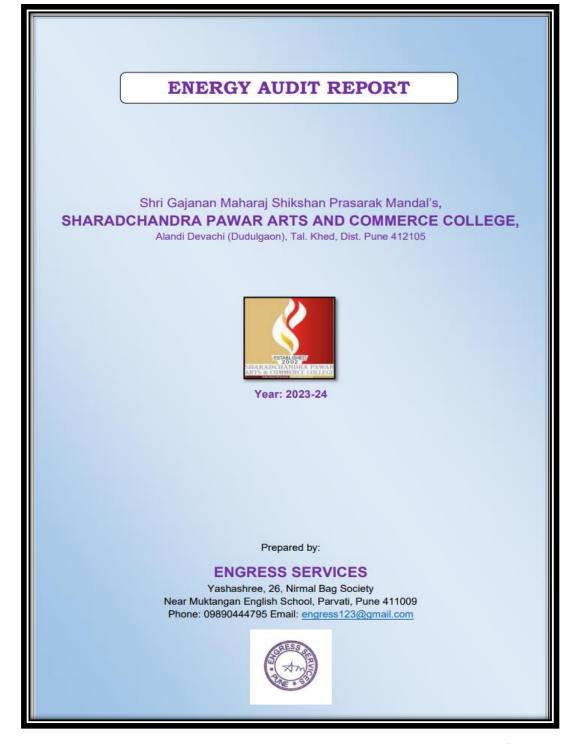
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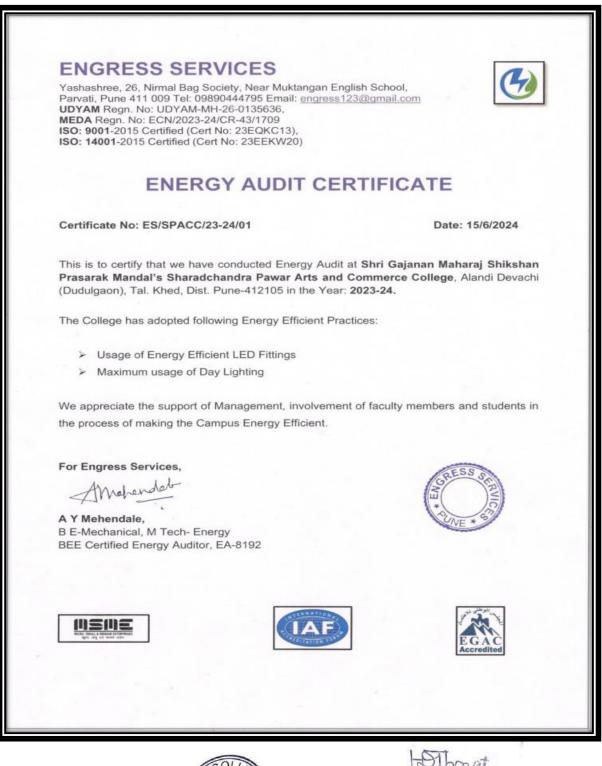








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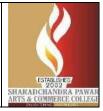
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| Energy Audit Report: SGMSPM's Sharadchandra Pa | war Arts and Commerce College: 2023-24 |
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| REGISTRATION CERTIFICATES: BE | EE, UDYAM, MEDA, ISO-9001 & 14001: |
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| II E III A 1 I 2 S 3 S 4 S 5 S | Executive Summary Abbreviations Introduction Study of Connected Load Study of Present Energy Consumption Study of Energy Performance Index | 5 6 7 8 |
| III J 1 I 2 5 3 5 4 5 | Abbreviations Introduction Study of Connected Load Study of Present Energy Consumption Study of Energy Performance Index | 6 7 8 |
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| 3 \$ 4 \$ 5 \$ | Study of Present Energy Consumption Study of Energy Performance Index | 9 |
| 4 \$ 5 \$ | Study of Energy Performance Index | |
| 5 \$ | | 10 |
| 6 8 | Study of Lighting | 11 |
| | Study of Renewable Energy & Energy Efficiency | 13 |
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Energy Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Shri Gajanan Maharaj Shikshan Prasarak Mandal's Sharadchandra Pawar Arts and Commerce College, Alandi Devachi (Dudulgaon), Tal. Khed, Dist. Pune-412105, for awarding us the assignment of Energy Audit of their Dudulgaon campus for the Year: 2023-24.

We are thankful to all the Staff members for helping us during the field study.

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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune





Energy Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 EXECUTIVE SUMMARY 1. Shri Gajanan Maharaj Shikshan Prasarak Mandal's Sharadchandra Pawar Arts and Commerce College, Alandi Devachi (Dudulgaon), Tal. Khed, Dist. Pune 412105 consumes Energy in the form of Electrical Energy; used for various equipment. 2. Present Connected Load & Energy Consumption: No Particulars Value Unit 1 Total Connected Load 30 kW 2 Annual Energy Consumed 15604 kWh 3. Per Capita Energy Consumption: Value Unit No Particulars 1 Total Annual Energy Consumed 15604 kWh 2 No of students studying in the College 721 Nos 3 Per Capita Energy Consumption = (1) / (2) 21.64 kWh/Annum 4. Study of % Usage of LED Lighting: No Particulars Value Unit 1 Lighting Power Density 1.08 W/m² 2 % of Usage of LED Lighting to Total Lighting Load 100 % 5. Renewable Energy & Energy Efficiency Projects: Usage of Energy Efficient LED fittings Maximum Usage of Day Lighting The College has yet to install Roof Top Solar PV Plant. 6. Assumption: 1. 1 kWh of Electrical Energy releases 0.93 Kg of CO2 into atmosphere 7. References: Audit Methodology: www.mahaurja.com Energy Conservation Building Code: ECBC-2017: www.beeindia.gov.in For CO2 Emissions: www.ccd.gujarat.gov.in Engress Services, Pune Page 5



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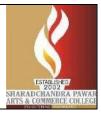
| E | Energy Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 |
|-----------------------|---|
| | ABBREVIATIONS |
| N E F F K | LED i Light Emitting Diode MSEDCL i Maharashtra State Electricity Distribution Company Limited EEE i Bureau of Energy Efficiency ECE i Energy Conservation Building Code MEDA i Maharashtra Energy Development Agency Pyrovie Photo Voltaie Kig i Kilo Gram KMF i Kilo-Vatt Hour CO2 i Carbon Di Oxide MT i Metric Ton |
| E | Engress Services, Pune Page 6 |

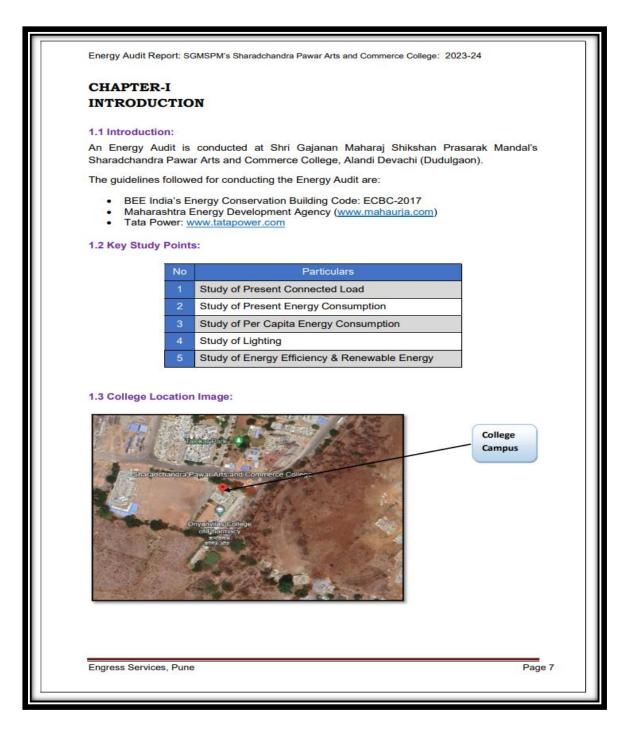


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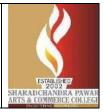


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Energy Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 CHAPTER-II STUDY OF CONNECTED LOAD The major contributors to the connected load of the College include: Table No 1: Study of Equipment wise Connected Load: Equipment No Qty Load, Load, W/unit kW 20 W LED Fitting 108 20 2.160 1 2 16 W LED Fitting 16 16 0.256 **Ceiling Fan** 3.835 3 59 65 4 PC 65 150 9.75 5 Printers 8 175 1.40 AC 2 1350 2.70 6 7 Water Pump 1 2238 2.24 8 Lift 1 5595 5.60 9 Other Equipment 8 200 1.6 10 Total 30 Chart No 1: Study of Connected Load: Connected Load, kW 20 W LED Fitting Oth WIED 16 W LED Fitting Lift ine Fa Ceiling Fan 19% PC Water Pump Printers AC rinter Water Pump Lift Other Equipment Engress Services, Pune Page 8







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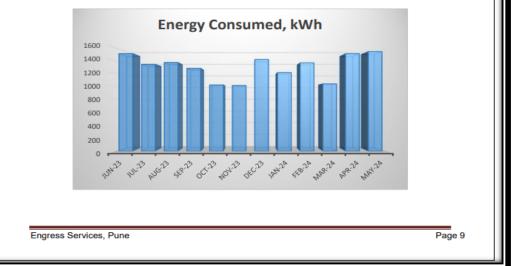
Energy Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24

CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy Consumption. Table No 2: Electrical Energy Consumption Analysis- 2023-24:

| No | Month | Energy Consumed, kWh | CO ₂ Emissions, MT |
|----|---------|-------------------------|----------------------------------|
| 1 | Jun-23 | 1506 | 1.40 |
| 2 | Jul-23 | 1341 | 1.25 |
| 3 | Aug-23 | 1369 | 1.27 |
| 4 | Sep-23 | 1279 | 1.19 |
| 5 | Oct-23 | 1023 | 0.95 |
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| 7 | Dec-23 | 1415 | 1.32 |
| 8 | Jan-24 | 1214 | 1.13 |
| 9 | Feb-24 | 1364 | 1.27 |
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| 12 | May-24 | 1536 | 1.43 |
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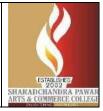
Chart No 2: Variation in Monthly Energy Consumed, kWh:

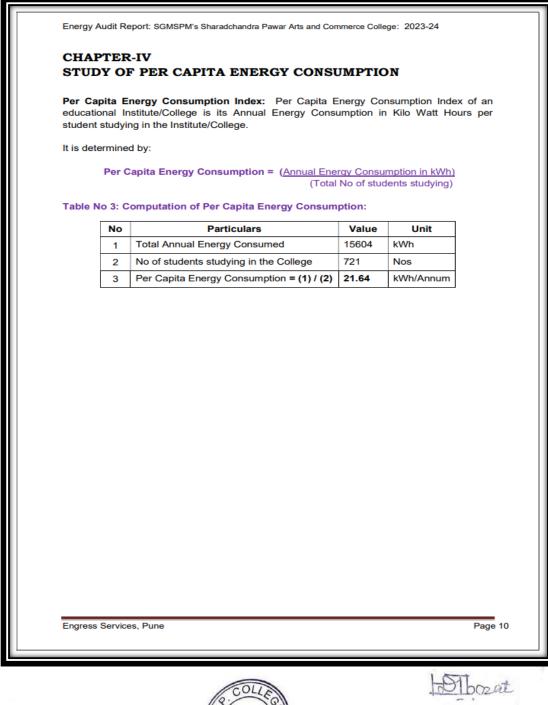




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| STUDY OF LIGHTING Terminology: 1. Lumen is a unit of light flow or luminous flux. The lumen rating of a lamp is a measure of the total light output of the lamp. The most common measurement of light output (or luminous flux) is the lumen. Light sources are labeled with an output rating in lumens. 2. Lux is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter. 3. Circuit Watts is the total power drawn by lamps and ballasts in a lighting circuit under assessment. 4. Installed Load Efficacy is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m²) 5. Lamp Circuit Efficacy is the amount of light (lumens) emitted by a lamp for each watt of power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt (im/W) 6. Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters. | | Energy Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 | | | | | | |
|--|---|--|---|---|---|--------|--|--|
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| the total light output of the lamp. The most common measurement of light output (or luminous flux) is the lumen. Light sources are labeled with an output rating in lumens. 2. Lux is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter. 3. Circuit Watts is the total power drawn by lamps and ballasts in a lighting circuit under assessment. 4. Installed Load Efficacy is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square meter (lux/W/m ²) 5. Lamp Circuit Efficacy is the amount of light (lumens) emitted by a lamp for each watt of power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt (lm/W) 6. Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters. In this Chapter we compute the percentage usage of LED Lighting to total Lighting Load of the College. Table No 4: Computation of Lighting Power Density: Class Room: E-01: No Particulars Value Unit 1 Qty of 20 W Fittings in Class Room: 4 Nos 2 Load of 20 W Fittings in Class Room: 74.19 m ² 5 Lighting Power Density = (3)/(4) 1.08 W/m ² | Termin | Terminology: | | | | | | |
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| Assessment. 4. Installed Load Efficacy is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m²) 5. Lamp Circuit Efficacy is the amount of light (lumens) emitted by a lamp for each watt of power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt (lm/W) 6. Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters. In this Chapter we compute the percentage usage of LED Lighting to total Lighting Load of the College. Table No 4: Computation of Lighting Power Density: Class Room: E-01: No Particulars Value Unit 1 Qty of 20 W Fittings in Class Room: 4 Nos 2 Load of 4 Nos, 20 W Fittings 80 W 3 Total Load of 4 Nos, 20 W Fittings 80 W 4 Built up area of Class Room: 74.19 m² 5 Lighting Power Density = (3)/(4) 1.08 W/m² | | 2. Lux is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter. | | | | | | |
| working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m ²) 5. Lamp Circuit Efficacy is the amount of light (lumens) emitted by a lamp for each watt of power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt (lm/W) 6. Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters. In this Chapter we compute the percentage usage of LED Lighting to total Lighting Load of the College. Table No 4: Computation of Lighting Power Density: Class Room: E-01: No Particulars Value Unit 1 Qty of 20 W Fittings in Class Room: 4 Nos 2 Load of 20 W Fittings 3 Total Load of 4 Nos, 20 W Fittings 80 W 4 Built up area of Class Room: 74.19 m ² 5 Lighting Power Density = (3)/(4) 1.08 W/m ² Computation of Usage of LED Lighting: • The Total Lighting Load of the College is 2.416 kW | | 3. Circuit Watts is the total power drawn by lamps and ballasts in a lighting circuit under assessment. | | | | | | |
| power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt (lm/W) 6. Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters. In this Chapter we compute the percentage usage of LED Lighting to total Lighting Load of the College. Table No 4: Computation of Lighting Power Density: Class Room: E-01: $No \qquad Particulars \qquad Value \qquad Unit \\ 1 \qquad Qty of 20 W Fittings in Class Room: \qquad 4 \qquad Nos \\ 2 \qquad Load of 20 W Fittings in Class Room: \qquad 4 \qquad Nos \\ 2 \qquad Load of 20 W Fittings in Class Room: \qquad 74.19 \qquad m^2 \\ 5 \qquad Lighting Power Density = (3)/(4) \qquad 1.08 \qquad W/m^2 \\ \hline$ | working | 4. Installed Load Efficacy is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m ²) | | | | | | |
| Image Description 1 Qty of 20 W Fittings in Class Room: 4 2 Load of 20 W Fitting 20 3 Total Load of 4 Nos, 20 W Fittings 80 4 Built up area of Class Room: 74.19 5 Lighting Power Density = (3)/(4) 1.08 | power | meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt | | | | | | |
| 2 Load of 20 W Fitting 20 W/unit 3 Total Load of 4 Nos, 20 W Fittings 80 W 4 Built up area of Class Room: 74.19 m ² 5 Lighting Power Density = (3)/(4) 1.08 W/m ² | meaning (Im/W)6. Ligh Area of In this (the Coll | gful mea ting Po that Roo Chapter lege. | asure for those lamps that require control gear wer Density: It is defined as Total Lighting Lo om in square meters. we compute the percentage usage of LED Lig | oad in a roon ghting to total | s per circuit n divided b Lighting Lo | t watt | | |
| 3 Total Load of 4 Nos, 20 W Fittings 80 W 4 Built up area of Class Room: 74.19 m ² 5 Lighting Power Density = (3)/(4) 1.08 W/m ² Computation of Usage of LED Lighting: • The Total Lighting Load of the College is 2.416 kW | meaning (Im/W)6. Ligh Area of In this (the Coll | gful mea ting Po that Roo Chapter lege. No 4: Co | asure for those lamps that require control gear wer Density: It is defined as Total Lighting Lo om in square meters. we compute the percentage usage of LED Lig mputation of Lighting Power Density: Class | oad in a room | s per circuit n divided b Lighting Lo | t watt | | |
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| Computation of Usage of LED Lighting: • The Total Lighting Load of the College is 2.416 kW | meaning (Im/W)6. Ligh Area of In this (the Coll | gful mea ting Po that Ro Chapter lege. No 4: Co No 1 2 | wer Density: It is defined as Total Lighting Le om in square meters. we compute the percentage usage of LED Lig mputation of Lighting Power Density: Class Particulars Qty of 20 W Fittings in Class Room: Load of 20 W Fitting | soad in a room hting to total Room: E-01: Value 4 20 | s per circuit n divided b Lighting Lo : | t watt | | |
| The Total Lighting Load of the College is 2.416 kW | meaning (Im/W)6. Ligh Area of In this (the Coll | gful mea ting Po that Roo Chapter lege. No 4: Co No 1 2 3 | wer Density: It is defined as Total Lighting Lu om in square meters. we compute the percentage usage of LED Lig mputation of Lighting Power Density: Class Particulars Qty of 20 W Fittings in Class Room: Load of 20 W Fitting Total Load of 4 Nos, 20 W Fittings | Room: E-01: Value 4 20 80 | s per circuit n divided b Lighting Lo : | t watt | | |
| • The % of Usage of LEDs is 100 % | meaning (Im/W)6. Ligh Area of In this (the Coll | gful mea ting Po that Roc Chapter lege. No 4: Co No 1 2 3 4 | wer Density: It is defined as Total Lighting Lu- om in square meters. we compute the percentage usage of LED Lig mputation of Lighting Power Density: Class Particulars Qty of 20 W Fittings in Class Room: Load of 20 W Fitting Total Load of 4 Nos, 20 W Fittings Built up area of Class Room: | Room: E-01: Value 4 20 80 74.19 | s per circuit n divided b Lighting Lo : | t watt | | |
| Engress Services, Pune Page | Compu | gful mea ting Po that Roc Chapter lege. No 4: Co No 1 2 3 4 5 4 5 | wer Density: It is defined as Total Lighting Le om in square meters. we compute the percentage usage of LED Lig mputation of Lighting Power Density: Class Particulars Qty of 20 W Fittings in Class Room: Load of 20 W Fitting Total Load of 4 Nos, 20 W Fittings Built up area of Class Room: Lighting Power Density = (3)/(4) of Usage of LED Lighting: Total Lighting Load of the College is 2.416 kW the Fittings are LEDs | Room: E-01: Value 4 20 80 74.19 | s per circuit n divided b Lighting Lo : | t watt | | |

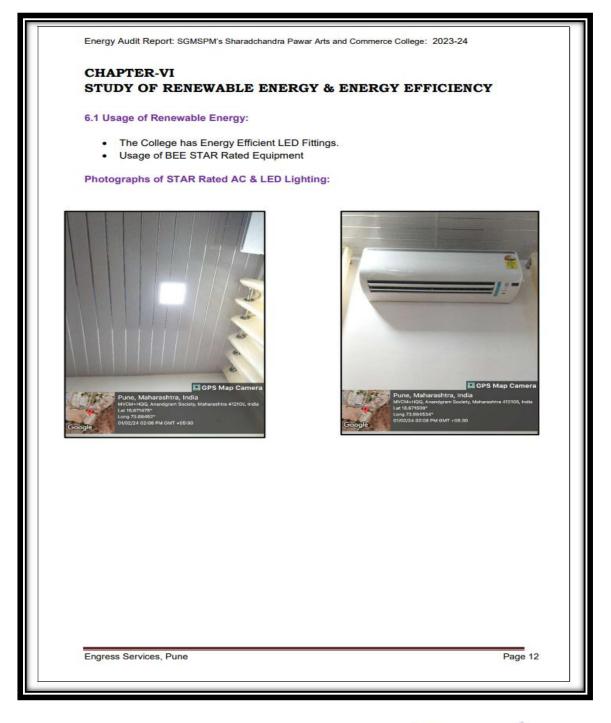


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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune.









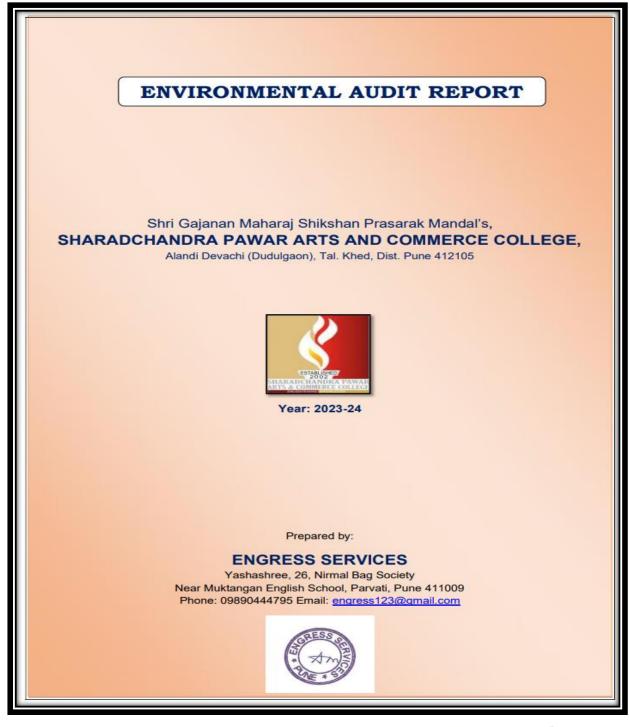
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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune.



Shri Gajanan Maharaj Shikshan Prasarak Mandal's Sharadchandra Pawar Arts and Commerce College Alandi Devachi, (Dudulgaon) Tal. Khed, Pune-412105 (Affiliated to Savitribai Phule Pune University, Recognized by Govt. of Maharashtra)







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| ENGRESS SERVICES | |
|---|--|
| Yashashree, 26, Nirmal Bag Society, Near Mukta Parvati, Pune 411 009 Tel: 09890444795 Email: UDYAM Regn. No: UDYAM-MH-26-0135636, MEDA Regn. No: ECN/2023-24/CR-43/1709 ISO: 9001-2015 Certified (Cert No: 23EQKC13), ISO: 14001-2015 Certified (Cert No: 23EEKW20 | engress123@gmail.com |
| ENVIRONMENTAL A | UDIT CERTIFICATE |
| Certificate No: ES/SPACC/23-24/03 | Date: 15/6/2024 |
| This is to certify that we have conducted En Shikshan Prasarak Mandal's Sharadchan Alandi Devachi (Dudulgaon), Tal. Khed, Dist. F | dra Pawar Arts and Commerce College |
| The College has adopted following Environment | nt Friendly Practices: |
| Usage of Energy Efficient LED Fittings Maximum Usage of Day Lighting Segregation of Waste at source Provision of Bio Composting Pit, for cor Provision of Sanitary Waste Incinerator Installation of Rain Water Management Tree Plantation in the campus Creation of awareness on Resource Co We appreciate the support of Management, inv the process of Energy Conservation & making the process of Energy Conservation & Making the State Services, Mathematication | , for Disposal of Sanitary Waste Project onservation by Display of Posters volvement of faculty members and students ir |
| B E- Mech, M Tech-Energy, Certified Energy A ASSOCHAM GEM Certified Professional: GEM | |
| | Accredited |



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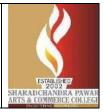
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| UDVAM REGISTRATION NUMBER NAME OF ENTERPRISE | UDYAM-MIR-26-0135636 ENGRESS SERVICES | ASSOCIENT hereby confiles that Mr. A Y Mehendale |
| TYPE OF ENTERPRISE* | SNs. CheenBoartina Veer Enterprise Type CheenBoartina Date 1 20025 24 Micros 0.04/2024 2 20022 35 Micros 2.646/2022 3 2021 22 Micros 2.74/7021 | Are surveyed by parallel de Gross and Shortmanny Variansenic Cuttheir Inducedores Tests (BER CP) "Excellent Theyforemence" (0) jan. 3020 |
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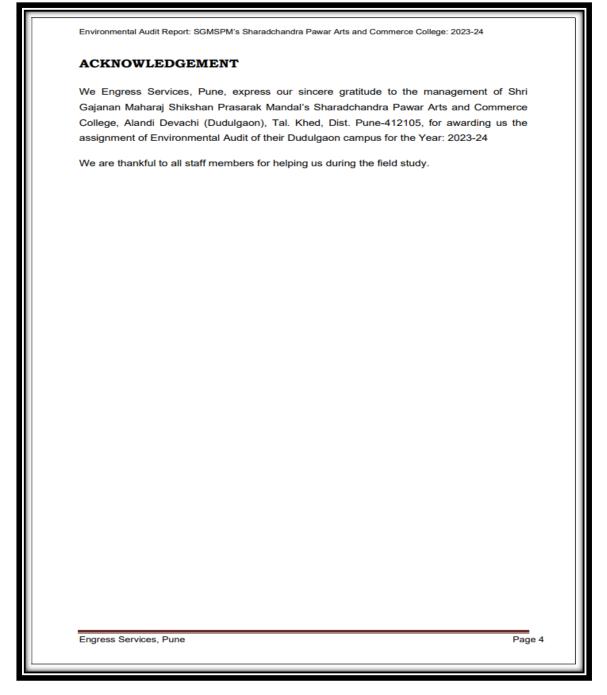
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| | | INDEX | |
| | Sr. No | Particulars | Page No |
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| | Ш | Executive Summary | 5 |
| | Ш | Abbreviations | 7 |
| | 1 | Introduction | 8 |
| | 2 | Study of Resource Consumption & CO ₂ Emission | 9 |
| | 3 | Study of Usage of Renewable Energy | 11 |
| | 4 | Study of Indoor Air Quality | 12 |
| | 4 5 | Study of Indoor Air Quality Study of Indoor Lux & Noise Parameters | 12 |
| | 6 | Study of Rain Water Management | 13 |
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| | 8 | Study of Waste Management Study of Eco-Friendly Practices | 17 |
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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune





Environmental Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 EXECUTIVE SUMMARY 1. Shri Gajanan Maharaj Shikshan Prasarak Mandal's Sharadchandra Pawar Arts and Commerce College, Alandi Devachi (Dudulgaon), Tal. Khed, Dist. Pune 412105 consumes Energy in the form of Electrical Energy; used for various equipment. 2. Pollution due to College Activities: > Air pollution: Mainly CO2 on account of Electricity Consumption Solid Waste: Bio degradable Garden Waste, Paper & Plastic Waste Liquid Waste: Human liquid waste 3. Present Energy Consumption & CO₂ Emission: No Particulars Value Unit 1 Annual Energy Consumed 15604 kWh 2 Annual CO₂ Emissions 14.51 MT 4. Usage of Renewable Energy: The College has yet to install Roof Top Solar PV Plant. 5. Indoor Air Quality Parameters: No Parameter/Value AQI PM-2.5 PM-10 Maximum 93 56 70 1 2 80 50 61 Minimum 6. Indoor Lux & Noise Level Parameters: Parameter/Value Lux Level Noise Level, No dB 1 Maximum 241 47.4 2 Minimum 216 42.3 7. Waste Management: No Head Particulars Solid Waste Segregation of Waste at source 1 2 Organic Waste Provision of Vermi Composting Pit Sanitary Waste Installed Sanitary Waste Incinerator 3 4 E Waste Recommended to dispose of through Authorized Agency Engress Services, Pune Page 5



PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune.





| Environmental Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24 |
|---|
| 8. Rain Water Management: |
| The College has installed Rainwater Management Project. The rain water falling on the terrace is collected through pipes and is used to increase the underground water table. |
| 9. Environment Friendly Initiatives: |
| Tree Plantation in the campus. Creation of awareness on Importance of Plastic Free Campus by display of Posters |
| 10. Assumption: |
| 1. 1 kWh of Electrical Energy releases 0.93 Kg of CO2 into atmosphere |
| 11. References: |
| For CO₂ Emissions: <u>www.ccd.gujarat.gov.in</u> |
| For Various Indoor Air Parameters: <u>www.ishrae.com</u> |
| For AQI Quality Standards: <u>www.cpcb.com</u> |
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| Engress Services, Pune Page 6 |
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| ABBR | EVIATIONS |
|---------|--|
| | |
| Kg | : Kilo Gram |
| NCRD | : National Centre for Rural Development |
| MT | : Metric Ton |
| kWh | : kilo-Watt Hour |
| LPD | : Liters per Day |
| LED | : Light Emitting Diode |
| AQI | : Air Quality Index |
| PM-2.5 | |
| PM-10 | : Particulate Matter of Size 10 Micron |
| CPCB | : Central Pollution Control Board |
| ISHRAE | : The Indian Society of Heating & Refrigerating & Air Conditioning Engineers |
| | |
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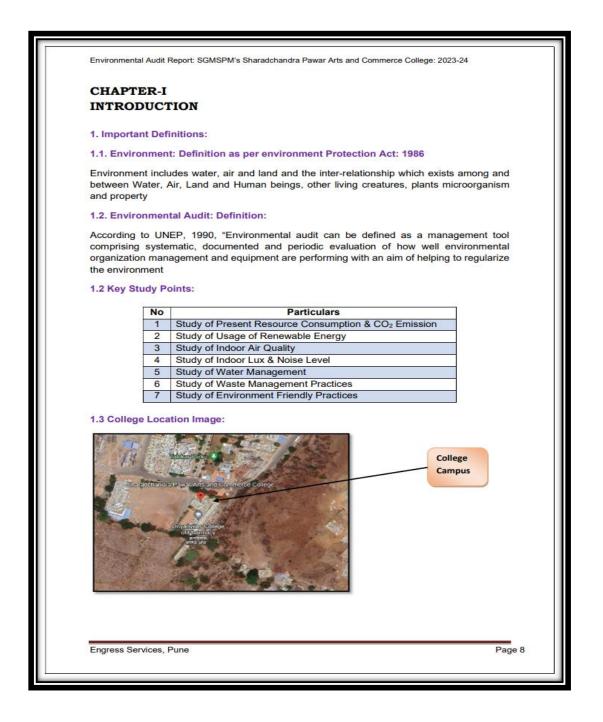


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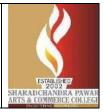
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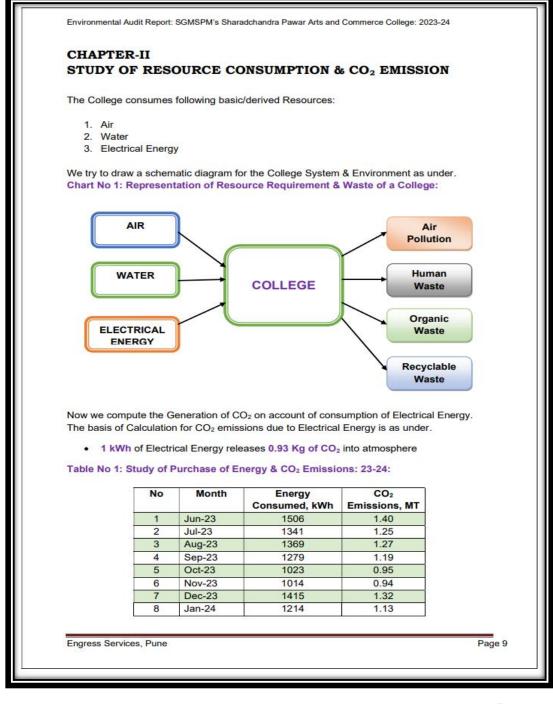


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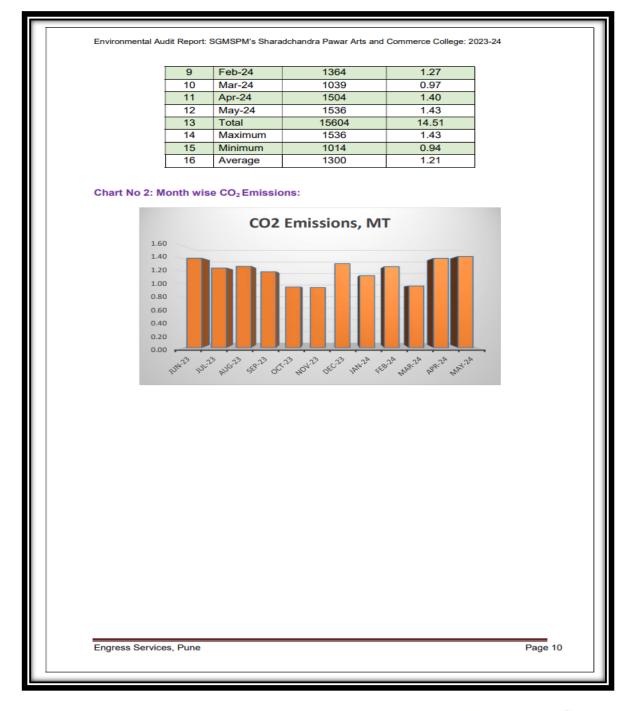


PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune





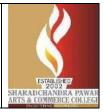
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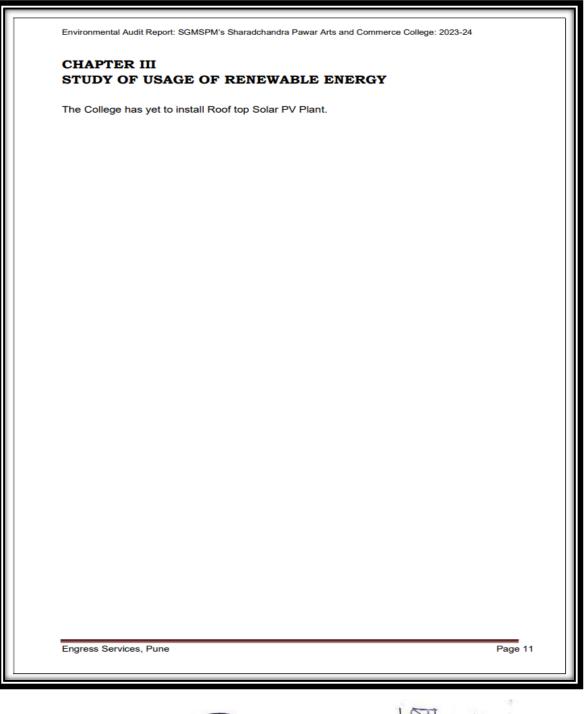


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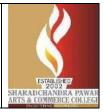
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| 4 A | | | OR AIR Q | - | | | | |
|---------------------|------------------------------|---|---|---|---|--|--|--|
| photosy | | | name given | to the atm | ospheric | gases | used in | breathing |
| 2. Air (animals | | /is a mea | asure of the | suitability of | air for | breathing | g by peop | ple, plants |
| | | | | lex (AQI) is and commu | | | | |
| | | | | nportant Para and PM-10 - F | | | | |
| Table N | lo 2: Ir | ndoor Air (| Quality Para | meters: | | | | |
| | | No | Loca | ation | AQI | PM2.5 | PM10 |] |
| | | 1 | Administrat | ive Office | 93 | 56 | 70 | |
| | | 2 | Classroom | | 80 | 50 | 61 | ļ |
| | | 3 | Common R | oom | 83 | 53 | 64 | |
| | | 4 | NAAC Roo | m | 90 | 56 | 68 | - |
| | | 5 | Rading Roo | om | 85 | 53 | 64 | |
| | | | Maximum | | 93 | 56 | 70 | |
| | | | Minimum | | 80 | 50 | 61 | |
| | | | | | | | | |
| | No 3: / | - | egory | AQI Value | Con | centratio ge, PM 2 | on Conc | entration e, PM 10 |
| | | - | | | Con Ran | centratio | on Conc .5 Rang | entration |
| | No 1 2 | Cat Good Satisfacto | egory pry | AQI Value 0 to 50 51 to 100 | e Con Ran | centratic ge, PM 2 0 to 30 31 to 60 | on Conc .5 Rang 0 51 | to 50 |
| | No 1 2 3 | Cat Good Satisfacto Moderate | egory | AQI Value 0 to 50 51 to 100 101 to 200 | Con Ran | centratio ge, PM 2 0 to 30 31 to 60 51 to 90 | Conc Rang 00 51 101 | to 50 to 100 to 250 |
| | No 1 2 3 4 | Cat Good Satisfacto Moderate Poor | bry bry Polluted | AQI Value 0 to 50 51 to 100 101 to 200 201 to 300 | e Con Ran 3 3 9 9 9 9 9 | centratic ge , PM 2 0 to 30 31 to 60 51 to 90 1 to 120 | Conc Conc Rang 0 51 101 251 | to 50 to 100 to 250 to 350 |
| | No 1 2 3 | Cat Good Satisfacto Moderate | bry bry Polluted | AQI Value 0 to 50 51 to 100 101 to 200 | e Con Ran 3 0 6 0 9 0 12 | centratio ge, PM 2 0 to 30 31 to 60 51 to 90 | On Conc Range 0 51 101 251 351 351 | to 50 to 100 to 250 |
| Conclu | No 1 2 3 4 5 6 sion: ne abov | Cat Good Satisfacto Moderate Poor Very Poo Severe | egory bry ely Polluted r ed values, w | AQI Value 0 to 50 51 to 100 101 to 200 201 to 300 301 to 400 | e Con Ran 3 0 6 0 9 0 12 0 12 | centratic ge, PM 2 0 to 30 31 to 60 31 to 90 1 to 120 21 to 250 250 + | On Conc. .5 Range 0 51 101 251 351 4 values of 4 | entration ge, PM 10 to 50 to 100 1 to 250 1 to 350 1 to 430 430 + |







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Environmental Audit Report: SGMSPM's Sharadchandra Pawar Arts and Commerce College: 2023-24

CHAPTER V **STUDY OF INDOOR LUX & NOISE PARAMETERS**

In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit. The Parameters include: Lux Level and Noise Level.

Table No 4: Study of Indoor Lux Level and Noise Level Parameters:

| No | Location | Lux Level, | Noise Level, dB |
|----|-----------------------|---------------|--------------------|
| 1 | Administrative Office | 216 | 47.4 |
| 2 | Classroom | 225 | 45 |
| 3 | Common Room | 241 | 44 |
| 4 | NAAC Room | 228 | 46 |
| 5 | Rading Room | 235 | 42.3 |
| | Maximum | 241 | 47.4 |
| | Minimum | 216 | 42.3 |

Recommended Lux & Noise Level: As per BEE & ISHRAE Guidelines:

| oise Level Reference: | |
|-------------------------|---|
| Location | Noise Level Range, dB |
| Offices | 45-50 |
| Occupied Class Room | 40-45 |
| Libraries | 35-40 |
| | |
| eference Lux Level, Lum | ens: |
| For Class Rooms | 200 Plus |
| For Reading Rooms | 200 Plus |
| | Offices Occupied Class Room Libraries eference Lux Level, Lum For Class Rooms |

Conclusion:

From the above measured values, we conclude that:

- The Noise Level is within the prescribed Limit
- The Lux Level at various locations is Okay

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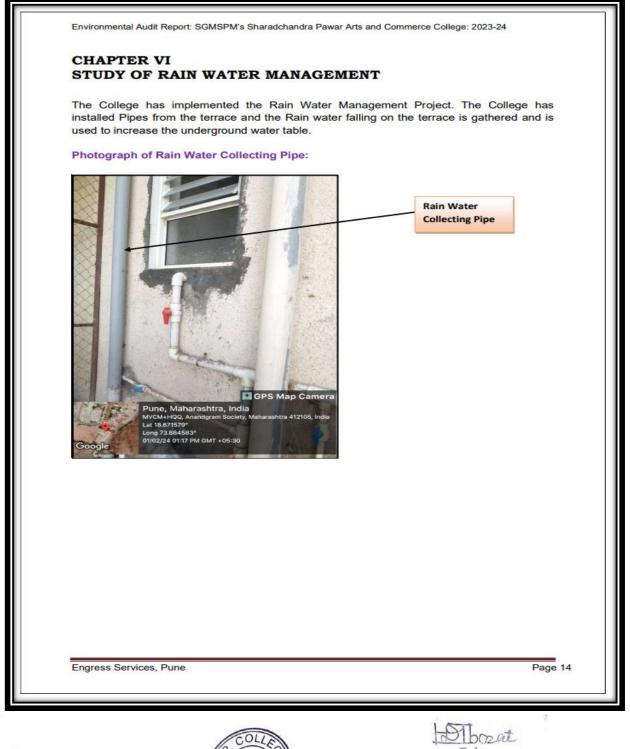


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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune





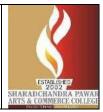
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| | | STE MANAGEMENT | t Practices, followed by the College. | |
|----|------------------|--|--|--|
| | | anagement Practices: | t radices, informed by the conege. | |
| No | Head | Observation Photograph | | |
| 1 | Solid Waste | Segregation of Waste at Source: Provision of Waste Collection Bins | Waste Collection Bin Image: Collection Bin | |
| 2 | Organic Waste | Installed a Bio Composting Bed, for conversion of Organic waste. | Bio Composting Bed: | |



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|---|--|--|--|--|--|
| 3 Sanitary Waste Incinerator: Waste Provision of Sanitary Waste Incinerator: Incinerator to dispose of the Sanitary Waste Incinerator: Waste Compared to the Sanitary Waste Incinerator: Waste Compared to the Sanitary Waste Incinerator: Incinerator to dispose of the Sanitary Waste Incinerator to dispose of the | | | | | |
| 4 E Waste Recommended to dispose of through Authorized Agency. | | | | | |
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| Det | ails of Eco-Frie | endly Practices: | |
|-----|---|---|------------------------------------|
| No | Head | Observation | Photograph |
| 1 | Tree Plantation | Tree Plantation in the Campus | Photo of Internal Tree Plantation: |
| 2 | Creation of Awareness among Stake Holders | Display of Poster on Plastic Free Campus | Poster on Plastic Free Campus: |



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Clean and Green Campus





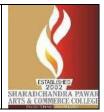


Campus Cleanness



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Campus Cleanness



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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune







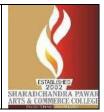
Green Campus



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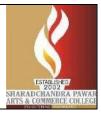
Green Campus



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Tree Plantation



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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune-







Tree Plantation



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PRINCIPAL Sharadchandra Pawar Arts & Commerce College Dudulgaon (Alandi), Pune





Beyond the Campus Environmental Promotional Activities





Alandi Ghat Cleanness



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Cleanliness Under NSS



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आळंदीत स्वच्छता अभियानात प्लास्टिक संकलन





रावनम न्युज । आळदी

भारत सरकार युवा व खेल मंत्रालय, क्षेत्रीय संचालक राष्ट्रीय सेवा योजना, क्षेत्रीय संचालनालय भारत सरकार, राज्य संपर्क अधिकारी राष्ट्रीय सेवा योजना मुंबई पांच्या निर्देशांनुसार आळदीत सावित्रीबाई फुले पुणे विद्यापीठ, राष्ट्रीय सेवा योजना या विभागा अंतर्गत श्री गजानन महाराज शिक्षण प्रसारक मंडळ संचालित शरदचंद्र प्रवार कला आणि वाणिज्य महाविद्यालय अर्छण आळदी नगरपरिषद याचे वतीने प्लाण्टिक कचरा संकलन दिन साजरा करण्यात आला.

या उपक्रमात महाविद्यालय परिसर आणि आळंद्री परिसरात स्वच्छ भारत अभिपानाच्या धरती वर प्लास्टिक कचरा गोळा करीत प्लास्टिक कचरा यामुळे होणारे दुष्परिणाम पावर आधारित जनजागृतीसाठी विविध उपक्रमाचे आपोजन करण्पात आले. या उपक्रमात महाविद्यालयातील राष्ट्रीय सेवा योजनेचे स्वयसेवक, आळंदी नगरपरिषद कर्मचारी, अधिकारी, आळंद्री जनहित फाउंडेरान आदीनी सहभाग घेतला.

यावेळी युवक तरुणांना प्लस्टिक चे ट्राप्यरिणाम यावर श्री गजानन महाराज शिक्षण प्रसारक मंडळावे खजिनदार मयूर ढमाले, प्राचार्य डॉ. इंसराज धोरात, संवेदना फाउंडेशनचे अध्यक्ष प्रणेश गरुड पांनी मार्गदर्शन केले. राष्ट्रीय सेवा योजना कार्यक्रमाधिकारी प्रा.कैलास अस्तरकर, प्रा.संजीव कांवळे, डॉ.रणजीत कदम, प्रा. परमेश्वर भताखे, प्रा.दिलीप बारी, आळदी स्वच्छता अभिपानचे समन्वयक अर्जुन मंदनकर, नेचर फाउंडेशनचे अध्यक्ष भागवत काटकर, आळदी नगरपरिषद मुकादम मालन पाटोळे, नगरपरिषद कर्मचारी आदी उपस्थितीत होते. आळदी नगरपरिषद मुख्याधिकारी अकुश जाधव यांचे मार्गदशनात आळदी नगरपरिषद पुकादम मालन पाटोळे पांचे कडे संकलन करण्यात आलेले प्लास्टिक व कचरा सुपूर्व करण्यात आला. आळदी नगरपरिषद व शरदचंद्र पवार महाविद्यालयाचे रा.से. पोजना यांचे वतीने खच्छ भारत अभिपान २.० अतर्गत आळदीत स्वच्छता अभियान राबचित जनजागृती करीत प्लास्टिक संकलन महास्वछता अभियान उत्साहात राबचिण्यात आहे. यासाठी शरदचंद्र पवार महाविद्यालयाते रा.से. पोजना यांचे वतीने स्वच्छ भारत अभिपान २.० अतर्गत आळदीत स्वच्छता अभियान राबचित जनजागृती करीत प्लास्टिक संकलन महास्वछत्त अभियान उत्साहात राबचिण्यात आहे. यासाठी शरदचंद्र पवार महाविद्यालयातील राष्ट्रीय संवा पोजना विभाग पानी विश्वेष परिश्रम घेतले. अशी माहिती महाविद्यालयाचे प्रसिद्धी विभाग प्रमुख, प्रा. प्रविण डोळ्टस यांनी दिली.

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