

**Jalgaon District Maratha Vidya Prasarak Samaj's**

**Shri. S. S. Patil Arts, Shri. Bhausaheb T. T. Salunkhe Commerce and  
Shri. G. R. Pandit Science College Jalgaon (Nutan Maratha College)**



**BEST PRACTICE- I**  
**NUTAN MARATHA SERVICE**  
**PROVIDER SCHEME**

## **Best Practice-1**

### **Title of the Practice: Nutan Maratha service Provider scheme.**

#### **Objective:**

1. To make economically weak students financially self-dependent along with education.
2. To motivate students for self-employment and to develop self-confidence and personality by giving the students hands on experience.
3. Encouraging the skill of students.
4. Expose the students to the world of work before actual employment.
5. Provide opportunities for students to earn while learning to meet their expenses.

#### **The Context:**

In the today's scenario employment is the biggest problem. Mostly rural and economically weak students get admission in our college. It is not possible for everyone to get a job so if a student has any technical skill then the college teaching and non-teaching staff provide work according to their skill. So that self-employment and confidence is created in the student.

#### **The Practice:**

The committee of the service provider scheme in the college first prepares a list of students according to their skills and then that list is announced on the notice board. If any staff wants to do work according to the student's listed task at home they call the student and pay for the work. Also many of them get jobs for the students by informing their relatives and neighbors about these students.

#### **Evidence of Success:**

1. Continuous implementation of the scheme every year stands as proof of their success.
2. Positive feedback from the staff and students.
3. Students paying college fees with their own earnings is a sheer example of success.

**Problems Encountered:**

1. Creating awareness in the students about scheme.
2. Encouraging them to step out from their comfort zone.

**Resources Required:**

Dedicated staff and assistants to help implement the program.



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AND SHRI.G.R.PANDIT SCIENCE COLLEGE, JALGAON (M.S.)

(NUTAN MARATHA COLLEGE, JALGAON)

E-Mail :- jdmvp.prin@gmail.com

Web :- <http://www.jdmvpascjal.ac.in>

Dr.L.P.Deshmukh (M.Sc.Ph.D)  
Principal

Re.No.NMCJ/20 18-20 19

Date: 30/07/19

Service Provider Committee meeting was held today on 01/08/2019, In this meeting it was decided to inform the students about this program and to put the list of students names on the notice board.

Coordintor

Prof.N.B.Baviskar

Member-

Prof.N.B.Ingale

Member-

Shri. D.C.Patil



प्राचार्य

ज.जि.म.वि.प्र. समाज मर्यां.  
श्री.ए.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.साळुंसे  
वाणिज्य आणि श्री.जी.आर.पंडील विज्ञान  
(नूतन मराठा) महाविद्यालय, प्रळगांव. (महा.)



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Dr.L.P.Deshmukh (M.Sc.Ph.D)  
Principal

Re.No.NMCJ/20 14-2020

Date: 14 / 10 / 20

Service Provider Committee meeting was held today on 15/10/2020, In this Online meeting , it was decided to inform the students about this program and to put the list of students names on the notice board or what's app Group.

Coordintor

Prof.N.B.Baviskar

Member-

Prof.R.B.Deshmukh

Member-

Assit.Prof.Gazala Parveen Shaikh Iqbal



पुनः

प्राचार्य

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वाणिज्य शास्त्रि श्री.जी.का.टी.टी.वि.प्र.



JALGAON DISTRICT MARATHA VIDYA PRASARAK SAMAJ'S  
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**Dr.L.P.Deshmukh** (M.Sc. Ph.D)  
Principal

Re.No.NMCJ/20 20-2021

Date: 31/07/21

Service Provider Committee meeting was held today on 01/07/2021, In this meeting , it was decided to inform the students about this program and to put the list of students names on the notice board.

**Coordintor**

Prof.N.B.Baviskar

**Member-**

Prof.R.B.Deshmukh

**Member-**

Assit.Prof.Gazala Parveen Shaikh Iqbal



Prin

**प्राचार्य**

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शास्त्रिय शास्त्री श्री.जी.आर.पंडीत विज्ञान

P.Box. 65 Phone No. (0257 - 2236034, 2234094)  
Postal Address - Nearby District Court, Chatrapati Shivaji Maharaj Chowk, Jalgaon 425001 (M.S.)



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**Dr.L.P.Deshmukh** (M.Sc.Ph.D)  
Principal

Re.No.NMCJ/20 21-20 22

Date: 31/07/22

Service Provider Committee meeting was held today on 01/08/2022, In this meeting , it was decided to inform the students about this program and to put the list of students names on the notice board.

**Coordinor**

Prof.N.B.Baviskar

**Member-**

Prof.R.B.Deshmukh

**Member-**

Assit.Prof.Gazala Parveen Shaikh Iqbal

*Prin*

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Web :- <http://www.jdmvpascjal.ac.in>

Dr.L.P.Deshmukh (M.Sc.Ph.D)  
Principal

Re.No.NMCJ/20 18-20 19

Date: 24 / 07 / 19

## NOTICE

Notice is hereby given that the meeting of the service provider committee will be held on 26/07/2019 at 10 am in the Physics Department Concerned are requested to attend the meeting

Coordintor

Prof.N.B.Baviskar

Prachi

प्राचारि

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JALGAON DISTRICT MARATHA VIDYA PRASARAK SAMAJ'S  
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**Dr.L.P.Deshmukh** (M.Sc. Ph.D)  
Principal

Re.No.NMCJ/2020-2021

Date: 09/10/20

## NOTICE

Notice is hereby given that the online meeting of the service provider committee will be held on 10/10/2020 at 10 am  
Concerned are requested to attend the meeting

**Coordinator**

Prof.N.B.Baviskar

*Prachi*

**प्राचार्या**

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Dr.L.P.Deshmukh (M.Sc.Ph.D)  
Principal

e.No.NMCJ/2021-2022

Date: 27/06/21

## NOTICE

Notice is hereby given that the meeting of the service provider committee will be held on 28/06/2021 at 10 am in the Physics Department Concerned are requested to attend the meeting

Coordintor

Prof.N.B.Baviskar

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प्राचार्य

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Dr.L.P.Deshmukh (M.Sc.Ph.D)  
Principal

B.No.NMCJ/2022-2023

Date: 28/07/22

## NOTICE

Notice is hereby given that the meeting of the service provider committee will be held on 29/07/2022 at 10 am in the Physics Department Concerned are requested to attend the meeting

Coordintor

Prof.N.B.Baviskar

7/21/



प्राचार्य

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**J.D.M.V.P. Co-Op Samaj's**  
**Shri S. S. Patil Arts, Shri Bhausaheb T. T. Salunkhe Commerce and Shri G.R. Pandit**  
**Science College, Jalgaon**

**SERVICE PROVIDER ACADEMIC YEAR 2019-2020**

| Sr. No. | Student Name             | Phone No.  | Nature of the work                          | Service provider to   | Sign     | Feed Back | Payment |
|---------|--------------------------|------------|---|---|----------|-----------|---------|
| 1.      | Patil Mukesh             | 9075530471 | CCTV Instillation                           | i)Dr.L.P.Deshmuh  |          | Good      | Paid    |
| 2.      | Zope Akshay              | 7744880869 | Electric Dish                               | i) Dr.Maduri S. Patil<br>ii) N.B.Baviskar                                   |          | Good      | Paid    |
| 3.      | Patil Avinsh             | 8888287584 | Driving                                     | i) Dr. S.P .Mote  |          | Good      | Paid    |
| 4.      | Adhav Nikhil             | 7030730675 | Electrician, Dress Material Provider        | i) Prof.Lalita Hingonekar<br>ii) Dr.Indira Patil                            | <br>     | Good      | Paid    |
| 5.      | Patil Rupali A           | 9960725130 | Door Mat, Making Blouse & Dress             | i) Dr.Maduri S. Patil<br>ii) Dr.Indira Patil<br>iii) Prof.Lalita Hingonekar | <br><br> | Good      | Paid    |
| 6.      | Patil Shamsing Abhay     | 8975651360 | Inverter Water, Fan Cooler, Moter Repairing | i) .R.B.Deshmukh<br>ii) N.B.Baviskar  | <br>     | Good      | Paid    |
| 7.      | Patil Harshal Manoj      | 8530327103 | Woolen Items                                | i) Dr.Maduri S. Patil   |          | Good      | Paid    |
| 8.      | Badgujar Kirti Shantaram | 7385921189 | Photography Studio                          | All Taching and Non teaching Staff  |          | Good      | Paid    |



**प्रचारि**  
 डॉ. जि. म. वि. प्र. समाज मर्या.  
 श्री. ज. ए. एस. पाटील कला, श्री. भाऊसाहेब टी. टी. साळुंखे  
 वाणिज्य शाळा, श्री. जी. जय. पाटील

|     |                 |            |                |  |                                  |      |      |
|-----|-----------------|------------|----------------|--|----------------------------------|------|------|
| 9.  | Jain Kalpesh K. | 7507036333 | Pathology Lab. | i) Prof.Lalita Hingonekar<br>ii)R.B.Deshmukh | <i>Hingonekar</i><br><i>R.B.</i> | Good | Paid |
| 10. | Kadam Aachal V  | 8623055640 | Mehandi        | i) Dr.Indira Patil                           | <i>Dr.Indira Patil</i>           |      | Paid |



*[Handwritten Signature]*

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वाणिज्य आणि श्री.जी.आर.पंडित विज्ञान  
(नूतन मराठा, महाविद्यालय, जलगाण ३६२००१)

J.D.M.V.P. Co-Op Samaj's

Shri S. S. Patil Arts, Shri Bhausaheb T. T. Salunkhe Commerce and Shri G.R. Pandit  
Science College, Jalgaon

SERVICE PROVIDER ACADEMIC YEAR 2020-2021

| Sr. No | Student Name       | Phone No.  | Nature of the work             | Service provider to  | Sign | Feed Back    | Payme |
|--------|--------------------|------------|--------------------------------|--|------|--------------|-------|
| 1.     | Lahase Gajendra    | 9326707119 | Driver                         | Dr. S.P .Mote  |      | Satisfactory | Paid  |
| 2.     | Salunkhe Jayesh S. | 9975125715 | Event Management               | i)N.B.Baviskar<br>ii) Sunil Patil  | <br> | Good         | Paid  |
| 3.     | Patil Umesh N.     | 7038808314 | Mobile and Inverter repaire    | i) S.S.Patil<br>ii)Dr.M.S.Patil<br>iii)Dr.D.R.Chavan                             | <br> | Good         | Paid  |
| 4.     | Patil Saurabh      | 7744948478 | Photographer                   | i) Sunil Patil   |      | Good         | Paid  |
| 5.     | Mahajan Yogeshwar  | 7798198655 | Medicine provider              | i)Yatin Bangali<br>ii) Prof.Mrs.Koli   |      | Satisfactory | Paid  |
| 6.     | Patil Mahendra S.  | 7875185375 | Tiffin Service                 | i) Pratap Borade<br>ii) Mahadevi Solanke   | <br> | Good         | Paid  |
|        | Hivarkar Priyanka  | 7020013124 | Door Mat                       | i) Prof.Lalita Hingonekar<br>ii) Dr.Indira Patil                                 | <br> | Good         | Paid  |
| 8.     | Patil Rakshanda    | 8149934295 | Providing Mask During Covid-19 | All Teching and Non teaching Staff   |      | Good         | Paid  |
| 9.     | Dr.Patil Girish V. | 7588007597 | M.Sc student & B.A.M.S.Doctor  | Providing Medicinal facilities to all Teaching and Non teaching staff and Family |      | Good         | Paid  |



प्राचार्य

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वाणिज्य आदि श्री.जी.आर.पंटीत विद्यालय

J.D.M.V.P. Co-Op Samaj's

Shri S. S. Patil Arts, Shri Bhausaheb T. T. Salunkhe Commerce and Shri G.R. Pandit Science College, Jalgaon

SERVICE PROVIDER ACADEMIC YEAR 2021-2022

| Student Name      | Phone No.  | Profession                     | Service provider to  |
|-------------------|------------|--------------------------------|--|
| Patil Sujata      | 8805530238 | Professional Rangoli           | i) Shirish Patil <i>Spatil</i><br>ii) Dr. Indira Patil <i>IPatil</i>                                   |
| Patil Aishvarya   | 8830266794 |                                | i) Dr. L.P. Deshmukh <i>LP</i><br>ii) Mr. Sanjay D. Patil <i>RMS.</i>                                  |
| Bhatiya Gayatri   | 8149934295 | Professional Mehendi           | i) Shirish Patil <i>Spatil</i><br>ii) Dr. Indira Patil <i>IPatil</i>                                   |
| Patil Roshani     | 9049963963 |                                | i) Dr. L.P. Deshmukh <i>LP</i><br>ii) Mr. Sanjay D. Patil <i>SDPatil.</i>                              |
| Dr. Patil Girish  | 7588007597 | M.Sc student & B.A.M.S. Doctor | Providing Medicinal facilities to all Teaching and Non teaching staff and Family                       |
| Patil Rahul       | 7620722711 | A.C. Repair                    | i) Dr. D.R. Chavan <i>Dochan.</i><br>ii) Mr. N.B. Baviskar <i>NB</i>                                   |
| Patil Akshay      | 7448064700 | Driver                         | i) Mr. S.R. Gaikwad <i>(S/R)</i><br>ii) Dr. P.B. Patil <i>PBPatil</i>                                  |
| Amir Shaikh Salim | 7038872612 | Car Mechanic                   | i) Dr. N.J. Patil <i>NJP</i><br>ii) Dr. D.R. Chavan <i>Dochan.</i><br>iii) Mr. N.B. Baviskar <i>NB</i> |
| Patil Chetan      | 9094101023 | Mob. Repaire                   | i) Dr. J.P. Sontakke <i>JSontakke</i><br>ii) Sau. Sulabha Chavan <i>Schavan</i>                        |



प्राचार्य  
ज.जि.म.वि.प्र. समाज मर्चा,  
श्री एस एस पाटील कला श्री...

|  |            |                     |   |
|--|------------|---------------------|---|
|  |            |                     | iii) Sau.A.S.Gaikwad <i>[Signature]</i>   |
| Shaikh<br>Matin  | 8830705291 | Tailor              | i) Mr.R.B.Deshmukh <i>[Signature]</i><br>ii) Mr.Subhash Wankhade <i>[Signature]</i>                 |
| Savarn<br>Sudhkar<br>Assist to -<br>i) Wagh<br>Kiran S.<br>ii) Girase<br>Aaksh | 9637575521 | Electrician         | i) college all Dept.<br>ii) Dr.K.B.Patil <i>[Signature]</i><br>iii) R.B.Deshmukh <i>[Signature]</i> |
| Malu<br>Pritish  | 7350135101 | Agriculture<br>Shop | i) Mr.N.B.Baviskar<br>ii) Dr.K.B.Patil<br>iii) Dr.Y.P.Patil <i>[Signature]</i>                      |



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(नूतन मराठा) महाविद्यालय, जळगांव. (महा.)

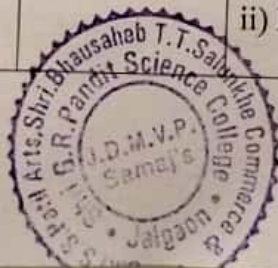



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Science College, Jalgaon**

**SERVICE PROVIDER ACADEMIC YEAR 2022-2023**

| Sr. No. | Student Name          | Phone No.  | Nature of the work             | Service provider to  | Sign   | Feed Back | Payment |
|---------|-----------------------|------------|--------------------------------|--|--|-----------|---------|
| 1.      | Pawer Kunal S.        | 8956116465 | C.A.Assist.                    | i)Mr.Snjay D.Patil<br>ii) Y.P.Patil<br>iii) S. M. Wankhede           | <i>P.Patil</i><br><i>S.M. Wankhede</i>                       | Good      | Paid    |
| 2.      | Bhavsar Prathamesh S. | 9370759319 | Computer Opertor               | i) Dr.Indira Patil<br>ii)Dr.J.P.Sontakke<br>iii) Lalita S.Hingonekar | <i>I.Patil</i><br><i>J.P.Sontakke</i><br><i>L.Hingonekar</i> | Good      | Paid    |
| 3.      | Baviskar Rakesh K.    | 7304829282 | Mobile Repiring                | i) Dr.K.B.Patil<br>ii) Dr. D.R. Chavn                                | <i>K.B.Patil</i>   | Good      | Paid    |
| 4.      | Patil Harshada D.     | 8999238308 | Tailoring                      | i) Dr.Indira Patil<br>ii)Dr.J.P.Sontakke<br>iii) Lalita S.Hingonekar | <i>I.Patil</i><br><i>J.P.Sontakke</i><br><i>L.Hingonekar</i> | Good      | Paid    |
| 5.      | Patil Bhagyashri S.   | 7350031294 | Parlour                        | i) Madhavi Solanke<br>ii) Prof.Mrs.Koli<br>iii) Dr.Indira Patil      | <i>M.Solanke</i><br><i>P.M.Koli</i><br><i>I.Patil</i>        | Good      | Paid    |
| 6.      | Shaikh Ajij           | 8208786735 | Gas reparing/Auto Rikha Driver | i) prof. Lalita S.Hingonekar<br>ii) Dr.Madhuri S.Patil               | <i>L.Hingonekar</i><br><i>M.S.Patil</i>                      | Good      | Paid    |



  
**प्राचार्य**  
 ज.जि.म.वि.प्र. समाज मर्चो.  
 श्री.एस.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.सलुंके  
 आर्ट्स, कॉमर्स & सायन्स कॉलेज, जालगाव

|     |  |            |             |   |  |      |      |
|-----|--|------------|-------------|---|--|------|------|
|     |  |            |             | iii) Dr.Indira Patil  | <i>[Signature]</i>                       |      |      |
| 7.  | Vispute<br>Nitesh P.   | 7798424641 | C.A.Assist. | i)Prof.R.V.Deshmukh<br>ii) Vishal Patil                         | <i>[Signature]</i><br><i>[Signature]</i> | Good | Paid |
| 8.  | Khairnar<br>Harish D.  | 7219835623 | Accountant  | i) Shirish Patil<br>ii) Ajay Shinde                             | <i>[Signature]</i><br><i>[Signature]</i> | Good | Paid |
| 9.  | Patil<br>Hemant R.   | 7768865156 | Accountant  | i) R.B.Deshmukh<br>ii) P.B.Patil                                | <i>[Signature]</i><br><i>[Signature]</i> | Good | Paid |
| 10. | Savarn<br>Sudhkar<br>Assist to -<br>i)Pawer<br>Pravin A.<br>ii)Rathod<br>Bharat R. | 9637575521 | Electrician | i) In college all Dept.<br>ii)Dr.K.B.Patil<br>iii) R.B.Deshmukh | <i>[Signature]</i><br><i>[Signature]</i> | Good | Paid |



*[Signature]*

प्राचार्य

ज. जि. म. वि. प्र. समाज मर्या.  
श्री. ए. एस. पाटील कला, श्री. भाऊसाहेब टी. टी. साळुंखे  
वाणिज्य आणि श्री. जी. आर. पंडीत विज्ञान  
(मूलन मराठा) महाविद्यालय, जळगांव. (महा.)

**Jalgaon District Maratha Vidya Prasarak Samaj's**

**Shri. S. S. Patil Arts, Shri. Bhausaheb T. T. Salunkhe Commerce and  
Shri. G. R. Pandit Science College Jalgaon (Nutan Maratha College)**



**BEST PRACTICE- II**

**GREEN AND ECO FRIENDLY**

**CAMPUS**

## **Best Practice-2**

### **Title of the Practice: Green and Eco friendly campus**

#### **Objective:**

Environmental protection and sustainable development by green practice by reduction of carbon through producing green solar energy, tree plantation, and rooftop or ground rain water harvesting and organic manure production through vermicomposting.

#### **The Context:**

Today unlawful changes and alternation in life style, industrialization, urbanization and human negligence have caused many environmental problems like global warming, ozone depletion, decreasing rainfall and ground water level, pollution etc. The college has taken one step forward and practicing green practice in its campus and encouraging students to follow at their homes, farms villages. The green practice undertaken in college are use of solar energy, roof top rainwater harvesting, tree plantation, botanical garden vermicomposting, use of power efficient equipment etc.

#### **The Practice:**

The institution make sincere efforts to utilize the available resources and fund optimally. Different green practices undertaken by the institute are not only supportive to the conservation of environment but also beneficial for society.

The college is located in the region receiving moderate rainfall from the southwest monsoon. Many times, there is shortage of drinking water in the summers. The institution has installed rainwater harvesting system, check bunds and percolate tanks in the campus which stop running water and allow to percolate. It helps to improve the water level in campus. The different units undertake tree planation drive every year and more than 50 trees are planted on and off campus. The practice has made the campus green and beautiful. The botanical garden has variety of rare and medical plants which also augments beauty in the campus. Vermicomposting unit is developed by the institute.. The waste material from the botanical garden is used to produce organic manure which in turn used as organic manure in the garden.

The institution has installed 10 KW on-greed rooftop solar panels are installed to generate electricity from solar energy which produces green energy.

**Evidence of Success:**

The installation of solar panels has decreased the use of traditional electricity to a great extent which has definitely helped in reduction of carbon emission. The rainwater harvesting system and measure to arrest and percolate rainwater are effective because groundwater level is raised. The plantation drives and botanical garden has increase the greenery, flora and fauna in the campus. Vermicomposting unit has encouraged to the students and parents for the use of organic manure. Residents of the surrounding areas come to the college campus for morning and evening walk. Students of the college adopt plant for care.

**Problem Encountered:**

Hot and dry summers and scarcity of water for plants during summers.

**Resources Required:**

Dedicated staff and assistants to help implement the program.

ज.जि.म.वि.प्रसा.सह.समाज मर्या.,

श्री.एस.एस.पाटील कला श्री.भाऊसाहेब टी.टी.साळुंखे वाणिज्य  
आणि श्री.जी.आर.पंडीत विज्ञान महाविद्यालय, जळगांव

नूतन मराठा महाविद्यालय, जळगांव

(नेक पुर्नमुल्यांकीत "ब" श्रेणी)

पोस्ट बॉक्स नं. ६५, फोन नंबर (०२५७) २२३६०३४, २२३४०९४

फॅक्स नं ०२५७- २२३५७८१

E-mail: [jdmvp.prin@gmail.com](mailto:jdmvp.prin@gmail.com) Web:- <http://www.jdmvpascjal.ac.in>



डॉ. लक्ष्मण प्र. देशमुख (एम.एस्सी.पीएच.डी.)  
प्राचार्य

### Eco friendly Campus:

We have woven green practices into the very fabric of our learning environment. From energy-efficient buildings to waste reduction initiatives, our college is not just a place of education; it's a testament to our dedication to a greener, more sustainable future. Together, we are cultivating not only knowledge but also a campus that harmonizes with the environment.

We have dedicated sites for vermicompost, Rain water harvesting, solar panels on the roof, Solar Lights, LED lights, drinking water treatment plant, Borewell Recharge system. Chemical Water filtration unit. Green campus with a lot of trees and frequent tree plantation drives.





**LED Tubelights in Chemistry Lab Main Building Campus**





**LED Tubelights in Administrative Office and Record room**







**Save Electricity, Lights/Fans should be switched off, if not in use... (Stickers)**

## MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE:

The College has developed a vermicomposting unit adjacent to the Botanical garden. The degradable waste from the garden is used in this unit. It produces a good amount of fertilizer which in turn is useful in the Botanical garden. Vermicomposting unit is also a part of curriculum and unit is helpful for hands-on training to the students.

### A) Degradable Waste :-



Vermicomposting Plant in our college campus. It was working for development of organic fertilizers. Which is useful for convert soil into more productive



Degradable waste is used for making fertilizer in composting unit



**Degradable waste is used for making fertilizer in composting unit**

**waste is collected which is deposited in dumping ground**

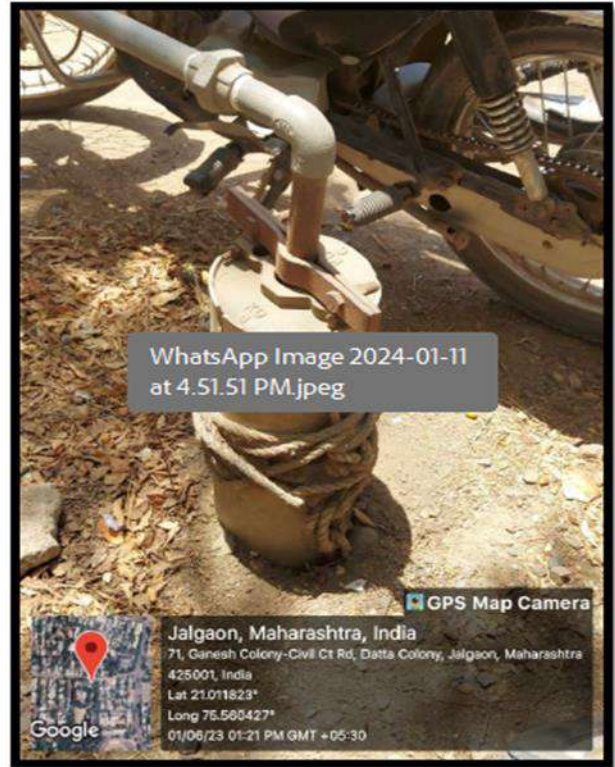




**Chemical Collected in Drainage Tank**



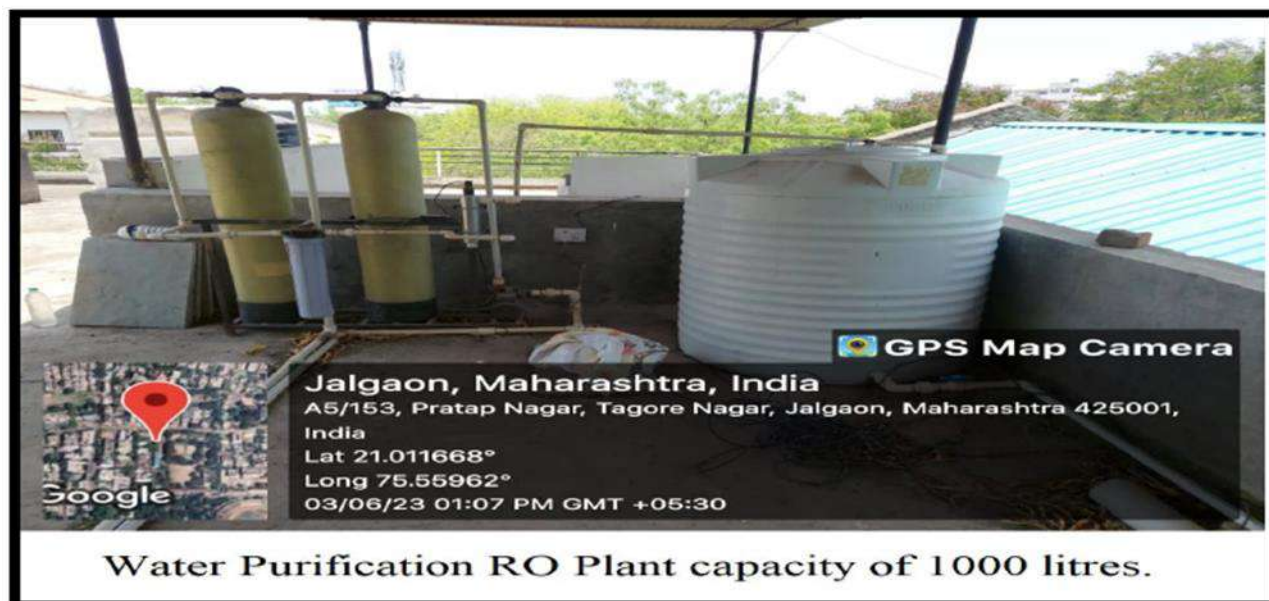
**Rain water harvesting building back sides**



campus building roof area water Collect then we Borewell Recharge System



Rain water harvesting building back sides













# SRUSHTI


## EHS Consultant Services



### Environment (Green) & Energy Audit

This is to certify that “**J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon Taluka: Jalgaon, Dist.: Jalgaon (Maharashtra)**” has satisfactorily handled the **Environmental (Green) & Energy Audit** for the college covering all the details in accordance with the required norms for the year **2021 - 22**.

The audit shall assist them to develop measures to save the environment and its individual units.

  
**Dr. Kiran P. Pawar**  
DIRECTOR  
SRUSHTI EHS CONSULTANT  
JALGAON



**Corp. Office:** Plot No. 1, Dhake Nagar, Jalgaon – 425001. Contact No.: (+91) 73858 05247  
**E Mail:** info.srushtiehs@gmail.com



# SRUSHTI


## EHS Consultant Services




### Environment (Green) & Energy Audit

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JALGAON



**Corp. Office:** Plot No. 1, Dhake Nagar, Jalgaon – 425001. Contact No.: (+91) 73858 05247  
**E Mail:** info.srushtiehs@gmail.com



# जळगाव शहर महानगरपालिका, जळगाव

सरदार वल्लभभाई पटेल टॉवर, प्रशासकीय इमारत  
महात्मा गांधी रोड, नेहरु चौक, जळगाव-४२५००१ फोन : २२२२६१ ते ६५ email : jmcjalgaon@gmail.com



बेटी बचाओ  
Save The Girl Child  
सुलगी याचवा  
देश याचवा

**MUNICIPAL CORPORATION OF THE CITY OF JALGAON**

Sardar Vallabhbhai Patel Tower, Administrative Building  
Mahatma Gandhi Road, Nehru Chowk, JALGAON - 425001 Ph: 222261 to 65 email : jmcjalgaon@gmail.com

जा.क्र./ज.श.म.न.पा./ **इतिहास वि. जा.क्र. ३१८**

दिनांक : २६/७/२०२३

## SAFE DRINKING WATER AND SANITARY CONDITION CERTIFICATE

To,  
The Principal  
J.D.M.V.PS Shri S.S. Patil Arts, Bhausaheb  
Shri.T.T. Salunkhe Commerce,  
Shri G.R. Pandit Science College, Jalgaon.


This is to certify that an inspection team headed by Health Officer of Jalgaon City Municipal Corporation, Jalgaon inspected the J.D.M.V.PS Shri S.S. Patil Arts, Bhausaheb Shri.T.T. Salunkhe Commerce. & Shri G.R. Pandit Science College, Jalgaon on Dt.26/07/2023 and found safe drinking water facilities for students and staff member of the institution and is maintaining the hygienic sanitation condition in the school building and the campus as per norms prescribed by the State Government of Maharashtra.

This certificate is valid up to 31/12/2023.

  
**PRINCIPAL**

Shri.S.S.Patil Arts, Shri Bhausaheb T.T.Salunkhe  
Commerce & Shri.G.R.Pandit Science College  
JALGAON



  
( Uday Madhukar Patil )

Assistant Commissioner (Health)  
Jalgaon City Municipal Corporation





# जळगाव शहर महानगरपालिका, जळगाव

सरदार वल्लभभाई पटेल टॉवर, प्रशासकीय इमारत  
महात्मा गांधी रोड, नेहरु चौक, जळगाव-४२५००१ फोन : २२२२२६१ ते ६५ email : jcmcjalgaon@gmail.com



बेटी बचाओ  
Save The Girl Child  
मुलगी याचया  
देश याचया

## MUNICIPAL CORPORATION OF THE CITY OF JALGAON

Sardar Vallabhbhai Patel Tower, Administrative Building  
Mahatma Gandhi Road, Nehru Chowk, JALGAON - 425001 Ph: 2222261 to 65 email : jcmcjalgaon@gmail.com

जा.क्र./ज.श.म.न.पा./ आशेक वि.जा.क्र. ३१८

दिनांक : २४ / ५ / २०२३

### Letter of Appreciation

While visiting the I.D.M.V.PS Shri S.S. Patil Arts, Bhausaheb Shri.T.T. Salunkhe Commerce. & Shri G.R. Pandit Science College, Jalgaon it was observed that the college campus is very clean and there is greenery everywhere. It is a nice clean and green campus in the heart of the city. Warm wishes from Municipal Corporation Jalgaon for making this campus even better clean and green.

PRINCIPAL

Shri.S.S.Patil Arts,Shri Bhausaheb T.T.Salunkhe  
Commerce & Shri.G.R.Pandit Science College  
JALGAON

( Uday Madhukar Patil )

Assistant Commissioner (Health)  
Jalgaon City Municipal Corporation





श्री.एस.एस.पाटील कला श्री.भाऊसाहेब टी.टी.साळुंखे वाणिज्य  
आणि श्री.जी.आर.पंडीत विज्ञान महाविद्यालय, जळगांव  
नूतन मराठा महाविद्यालय, जळगांव  
(नेक पुनर्गुल्यांकीत "ब" श्रेणी)  
पोस्ट बॉक्स नं. ६५, फोन नंबर (०२५७) २२३६०३४, २२३४०९४  
फॅक्स नं. ०२५७- २२३५७८९  
E-mail: jdmvp principal@gmail.com Web: <http://www.jdmvpasajal.ac.in>

डॉ. लक्ष्मण प्र. देशमुख (एच.एचसी.पीएच.डी)  
प्राचार्य

NOTICE

Date-15 /07 /2019

You all aware that growing use of petrol and diesel vehicles pollution. As part of our social responsibility we must seriously pay attention to this burning problem of environment. Hence, it has been decided to observe "No Vehicle Day" on every Wednesday. Everybody is expected to cooperate in this regard by observing No Vehicle Day on every Wednesday. By becoming a part of this good practice let us join our hands together to fight with environmental issues caused by petrol and diesel vehicles Therefore The teachers, non-teaching staff and students of senior College, Junior College and MCVC of our Institution are hereby instructed to observe the No Vehicle Day on every Wednesday.

PS- Those who commute to College from villages outside Jalgaon shall park their vehicles one hundred meters away from College.



प्राचार्य  
डॉ. ज.म.वि.प्र. समाज मर्या.  
श्री.एस.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.साळुंखे  
वाणिज्य आणि श्री.जी.आर.पंडीत विज्ञान  
(नूतन मराठा) महाविद्यालय, जळगांव. (महा.)



श्री.एस.एस.पाटील कला श्री.भाऊसाहेब टी.टी.साळुंखे वाणिज्य  
आणि श्री.जी.आर.पंडीत विज्ञान महाविद्यालय, जळगांव  
नूतन मराठा महाविद्यालय, जळगांव  
(नॅक पुर्नमुल्यांकीत "ब" श्रेणी)

पोस्ट बॉक्स नं. ६५, फोन नंबर (०२५७) २२३६०३४, २२३४०९४  
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डॉ. लक्ष्मण प्र. देशमुख (एम.एस्सी.पीएच.डी)  
प्राचार्य

NOTICE

Date-03 /08 /2021

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प्राचार्य

ज.जि.म.वि.प्र. समाल मर्यो.  
श्री.एस.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.साळुंखे  
वाणिज्य आणि श्री.जी.आर.पंडीत विज्ञान  
(नूतन मराठा) महाविद्यालय, जळगांव. (पं.व.)



श्री.एस.एस.पाटील कला श्री.भाऊसाहेब टी.टी.साळुंखे वाणिज्य  
आणि श्री.जी.आर.पंडीत विज्ञान महाविद्यालय, जळगांव  
नुतन मराठा महाविद्यालय, जळगांव  
(नेक पुर्नमुल्यांकीत "ब" श्रेणी)

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डॉ. लक्ष्मण प्र. देशमुख (एम.एस्सी.पीएच.डी)  
प्राचार्य

NOTICE

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Principal

प्राचार्य

ज.सि.म.वि.प्र. समाज मर्घी,  
श्री.एस.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.साळुंखे  
वाणिज्य आणि श्री.जी.आर.पंडीत विज्ञान  
(नुतन मराठा) महाविद्यालय, जळगांव, (मस.)





श्री.एस.एस.पाटील कला श्री.भाऊसाहेब टी.टी.साळुंखे वाणिज्य  
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नूतन मराठा महाविद्यालय, जळगांव  
(नॅक पुर्नमुल्यांकीत "ब" श्रेणी)



पोस्ट बॉक्स नं. ६५, फोन नंबर (०२५७) २२३६०३४, २२३४०९४  
फॅक्स नं ०२५७- २२३५७८९

E-mail: jdmvp.prin@gmail.com Web:- <http://www.jdmvpascjal.ac.in>

डॉ. लक्ष्मण प्र. देशमुख (एम.एस्सी.पीएच.डी)  
प्राचार्य

NOTICE

Date-05 /08 /2023

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Principal

प्राचार्य  
ज. जि. म. वि. प्र. समाज मर्या.  
श्री.एस.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.साळुंखे  
वाणिज्य आणि श्री.जी.आर. पंडीत विज्ञान  
(नूतन मराठा) महाविद्यालय, जळगांव. (महा.)



JALGAON DISTRICT MARATHA VIDYA PRASARAK SAMAJ'S  
SHRI.S.S.PATIL ARTS, SHRI.BHAUSAHEB T.T. SALUNKHE COMMERCE  
AND SHRI.G.R.PANDIT SCIENCE COLLEGE, JALGAON (M.S.)

(NUTAN MARATHA COLLEGE, JALGAON)

E-Mail :- jdmvp.prin@gmail.com

Web :- <http://www.jdmvpascjalac.in>

**Dr.L.P.Deshmukh (M.Sc.Ph.D)**  
Principal

Re.No.NMCJ/20 -20

Date: / /

No vehicle day is observed in the college every Wednesday for environmental conservation.

Vehicles causes air pollution due to harmful gases like oxides and nitrogen and carbon that pollute the environment. Also, petrol is the wealth of nation, it is also used more.

To overcome all these, the college observes a No vehicle Day in every week.

An average of 1000 students, teachers and non-teaching staff come to the college by vehicles. All these. Come at an average distance of five kilometer. Average daily round trip of 10 Km. For this, an average of 200 ml petrol cost up to Rs.25 on average.

| Sr.No. | Total number of persons using vehicles to reach college | Average petrol consumption per person per day | Total amount of petrol required per day | Average expenditure on petrol per day (Average rate 100 rs / lit) |
|--------|---|---|---|---|
| 1      | 1150  | 200 ML  | 200 MLx1150=230 lit                     | 230x107= 24610 Rs.  |

| Sr.No | Total amount of petrol per month used (every wednesday) | Total amount of petrol used in year ( )every wednesday | Average saving expenditure on petrol in a year (Every wednesday) |
|-------|---|--|--|
| 1     | 230x4 = 920 Lit   | 920x12= 11040 Lit                                      | 11040x107=11,81280   |

**Conclusion-**

With no vehicle day the college contributes to the protection of the environment and helps to keep the college and its premises clean so that harmful gases do not enter the environment and the carbon emission is also reduce and the college also helps the economy of the country by saving petrol.



**PRINCIPAL**  
J.D.M.V.P.S.

Shri S.S.Patil Arts, Shri Bhausaheb  
T.T.Salunkhe Commerce and  
Shri.G.R.Pandit Science College, Jalgaon



Jalgaon District Maratha Vidya Prasarak Co-op Samaj's,  
Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R.  
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**Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe  
Commerce and Shri. G. R. Pandit Science College,  
(Nutan Maratha College), Jalgaon**



**Environment (Green) & Energy Audit Report**

**(2021-22)**

**SRUSHTI EHS Consultant Services**

(Registered under MSME, Gov. of India)

Reg. Office: Plot No. 1, 287/2, Dhake Nagar, Jalgaon-425001 (Maharashtra)

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**A**  
**ENVIRONMENT (GREEN) & ENERGY AUDIT**  
**REPORT**

**of**



**Jalgaon District Maratha Vidya Prasarak Co-op Samaj's,**

**SHRI. S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T.**  
**SALUNKHE COMMERCE AND SHRI. G. R. PANDIT**  
**SCIENCE COLLEGE,**  
**(NUTAN MARATHA COLLEGE), JALGAON**

Taluka: Jalgaon, District: Jalgaon, Pin Code: 425001, State: Maharashtra

For the year

**2021 - 22**

**Submitted by,**

**SRUSHTI EHS Consultant Services**

**(Registered under MSME, Gov. of India)**

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# SRUSHTI


## EHS Consultant Services




### Environment (Green) & Energy Audit

This is to certify that “**J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon Taluka: Jalgaon, Dist.: Jalgaon (Maharashtra)**” has satisfactorily handled the **Environmental (Green) & Energy Audit** for the college covering all the details in accordance with the required norms for the year **2021 - 22**.

The audit shall assist them to develop measures to save the environment and its individual units.

  
**Dr. Kiran P. Pawar**  
DIRECTOR  
SRUSHTI EHS CONSULTANT  
JALGAON



**Corp. Office:** Plot No. 1, Dhake Nagar, Jalgaon – 425001. Contact No.: (+91) 73858 05247  
**E Mail:** info.srushtiehs@gmail.com

## Preamble

The rapid environmental degradation at local, regional and global level is real, which is leading us to global “Environmental Poverty”. Stabilization of human population, adoption of environmentally sound and sustainable technologies, reforestation, and ecological restoration are crucial elements in creating an equitable and sustainable future for all humankind in harmony with nature. Thus, academic leaders must initiate and support mobilization of internal and external resources and knowledge so that their institute responds to environmental challenges.

Nutan Maratha College, Jalgaon is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reserves the trends. We deeply subscribe to the fact that humans should be steward of Mother Nature and that we all have a profound responsibility to protect the earth’s resources in perpetuity. Being a premier institute of higher learning, Nutan Maratha College, Jalgaon has resolved to play a major role in the education, research, policy formation, and information exchange necessary for a sustained environmental campaign.

The current environmental audit represents the first stage in our efforts to build environmental sustainability on the campus. The audit was conducted by a Dr. Kiran P. Pawar (Director, SRUSHTI EHS Consultant Service, Jalgaon). SRUSHTI EHS Services have conduct this audit not only for the institution itself, but just as importantly to be role model institution for others to emulate and bring the environmental concerns and related mitigating measures to center stage of campus life in the city of Jalgaon, District – Jalgaon, the state of Maharashtra and extend locally, regionally and beyond.

The overall goals of this audit were:

- To introduce students to real concern of environment and its sustainability using the Nutan Maratha College, Jalgaon Campus as a study site.
- To analyze the pattern and extent of resources use on the campus.
- To make the college a more environmentally sustainable institution of higher learning
- To bring out a status report on environmental compliance.

### **About the JDMVPs, Jalgaon**



Jalgaon District Maratha Vidya Prasarak Co-operative Samaj Ltd. Jalgaon (JDMVP) was established in 1917 with the motto, ‘Bahujan Hitay, Bahujan Sukhay’ i.e. ‘In the interest of the masses, for the welfare of the masses.’ The college strives with the objectives of reaching out to the less privileged, to uplift the needy and poor downtrodden to open for them the avenues of higher education. The objectives encompass the goals to facilitate access to higher education for poor students from nearby villages approximately Jalgaon city for boosting their courage and confidence and develop them into sensitive youths with social and moral commitment. The institution also has objective to broaden their vision towards casteless, creedless society and promote in them the social awareness and to equip them with the knowledge and skills for self-employment opportunities.

When the institution was registered in 1917, the institution started its work with just seven students admitted for education. With the sincere efforts of the visionaries, the institution flourished with lips and bound from a single school of seven students to a multi-institute group delivering quality higher education at all levels. Today J.D.M.V.P. owns and manages 3 senior degree colleges, 30 Secondary schools, 14 Jr. Colleges, 10 M.C.V.C. centers, two Y.C.M.O.U. centers and a girl’s high school a D.Ed. College and a primary school.



## **About Nutan Maratha College, Jalgaon**

The registered name of this college has become as JDMVPS Shri S. S. Patil Arts, Shri Bhausaheb T.T. Salunkhe Commerce and Shri G.R. Pandit Science College, Jalgaon This college is affiliated to KBC North Maharashtra University and college caters the education from 11th Std to M. A., M. Com, M.Sc. students. The college runs graduate course in Physics, Chemistry, Botany, Microbiology, Zoology, Mathematics, Computer Science, Electronic etc. Graduation and Post-Graduation in Languages English, Hindi, Marathi, Urdu and in all social sciences are available along with separate commerce faculty. The college has well qualified teaching staff to cater all of its courses and most of the teachers are also guiding M. Phil. and Ph. D. Students. The college is situated in the heart of the city with 08 acres of land & has built up area of 8584 square meters. The college has thirty-five class rooms, Science, computer science, Psychology, English language laboratories, Geography, Commerce Social Sciences departments, Gymkhana, partially automated central library, NSS, NCC, NAAC, IQAC offices, Principal, vice principal, administrative offices, gents and ladies staff rooms and ladies' room for girls. In addition to these the audio-visual aids, OHP, LCDs, power generator, invertors, safe and purified drinking water, vehicle parking for students and the teachers as well, playground, facilities for indoor and outdoor games etc.



Over the last two decades, our college has grown in terms of faculties, co-curricular and extra-curricular and extension activities. We are open to students of all community, the majority being SC, ST, SBC, NT, and OBC. We are permanently affiliated to North Maharashtra University, Jalgaon which was ranked first among the state university as per the survey by Career360

magazine. We try our best to inculcate knowledge through co-curricular and extra-curricular activities. Under the Student Welfare Committee we have NSS and Yuvati Sabha unit which undertake social causes and try its best to inculcate the same among the students and the masses.

The official and unofficial feedback we receive from the students, alumni, parents, educationists and Local Managing Committee helps us to identify the weakness and also helps us to achieve excellence in our endeavor. We were granted B (Pointer Score - 2.6) grade by the previous NAAC Peer team in February 2016 and have endeavored to implement their recommendations.

We do our best to provide all round development of our students in curricular, co-curricular and extra-curricular activities and in doing so we aim to achieve a contribution and commitment to a better India for all us.

The Internal Quality Assurance Cell has been instrumental in raising the quality of the college, implementing and enhancing the measures for quality improvement during the post accreditation period. This report is the outcome of the collective and collaborative effort of the entire college community. It has been prepared under the leadership of our Principal Dr. L. P. Deshmukh & IQAC coordinator- Prof. B. C. Patil (Department – English) who along with all the teaching staff members, meticulously collected, analyzed, documented and articulated all the records and activities, listed in the seven criteria for the last five years.

We have had several meetings with the staff, as the drafts of the report were being prepared, so that everyone would be familiar with the report and offer suggestions and indicate areas we had overlooked.

The college has also taken positive steps towards making the campus environmental friendly. No vehicle day is observed as a contribution to environment. For energy conservation, LED lights and solar lamp is installed in the campus. Water harvesting and RO system is installed for safe drinking and good health of all the staff and students.

**The College has set the vision –**

To broaden the horizon of knowledge to the laymen, to the masses from the nooks and corners of the valleys and villages. The visionaries of our ‘Samaj’ adopted the motto ‘Bahujan Hitai Bahujan Sukhay’, i.e. In the interest of masses, for the welfare of the masses.

Mission: We, at ‘Jalgaon District Maratha Vidya Prasarak Co-operative Samaj’s Shri. S.S.Patil Arts, Bhusaheb T. T. Salunkhe, Commerce and Shri. G.R. Pandit, Science college, Jalgaon’. Popularly known as ‘Nutan Maratha College’ Jalgaon are committed to reach out to the poor, the needy and segregated, the deprived and hitherto neglected, to boost their courage and enkindle confidence in them so that they could claim higher education/ learning as their legitimate right.

The College aspires "*To be a distinguished Institution which provides high quality education*". It wants to provide such courses which will be uniquely valued by industry and provide a firm basis for its students to build challenging careers in their professional life.

**The College has set the objectives -**

- To offer qualitative valuable service in the field of education to the people in and around Bhusawal city.
- To develop responsible youth having social commitment.
- To aim at overall personality development of students fraternity through extracurricular activities in association with various social and cultural organization.
- To provide a platform to the students, by giving them an opportunity to face the challenges of the competitive world with utmost utilization of their potential in sport sand other events.

### About SRUSHTI EHS Consultant Services...



We, **SRUSHTI EHS Consulting Services**, are register under **Ministry of Micro, Small & Medium Enterprises (MSME), Govt. of India, ISO 9001:2015 certified firm.**



We are pioneer in Khandesh region for providing the Environmental and Engineering solutions, Consulting services in the field of Environment, Health & Safety. We are work only for Quality Assurance up to Client Satisfaction. We provide Sustainable Environmental solutions that meet specific client's need by employing/partnering with highly educated & experienced team members as they will assist with in-depth Research, Proactive Strategy, Operative Implementation, and long term support to fulfill all of our client's needs. We are maintain high standard of professional behavior & will comply with Regional, State & National regulations as well as guidelines.

We are experienced and expertise to conduct the **“Green Audit” (Environmental Audit) of Educational Institutes, Colleges, & Universities (as per NAAC Criterion VII)**. With this, we develop **“Green Practices”** at client's site. We are also arrange Environmental activities, Environmental Awareness Champaign on special occasions like World Ozone day, Environment Day, etc.

Apart from these, we are expert in following consulting services:

- **Green Audit/Environmental Audit**
- **Energy Audit**
- **Water Audit (Water Conservation & Management, Rain Water Harvesting)**
- **Gender Audit**
- **Fire Safety Audit** (As per NBC-2016, mandatory for Schools, Colleges, Hospitals, Commercial Shops/Complex, Residential & Commercial Buildings, Industries, etc.)
- **Air Quality Monitoring** (Ambient Air Quality & Workplace Air Quality)
- **Water Quality Monitoring** (Drinking water, Waste water, Ground water)
- **Solid Waste Management**
- **Noise Monitoring & Mapping**
- **Illumination Monitoring**
- **Carbon Foot Printing & Pollution Load Assessment**
- **Workplace Hygiene Monitoring**
- **Training & Hand on Demo** (Environmental equipment's, Fire Safety equipment's, Handling of Hazardous/Flammable Chemical, Gas Cylinder, Waste Material, etc.)
- **Training on Defensive Driving & Material Handling Equipment's (MHE)**

**Audit Team**

**External Audit Member**

| Sr. No. | Name of Auditors   | Designation  |
|---------|--------------------|--|
| 1       | Dr. Kiran P. Pawar | Director,<br>SRUSHTI EHS Consultant Service, Jalgaon |

**Internal Audit Team Members**

| Sr. No. | Name of Auditors     | Designation   |
|---------|----------------------|---|
| 1       | Dr. L. P. Deshmukh   | Principal,<br>Nutan Maratha College, Jalgaon                  |
| 2       | Prof. B. C. Patil    | IQAC Coordinator,<br>Nutan Maratha College, Jalgaon           |
| 3       | Dr. Mrs. M. S. Patil | HOD,<br>Dept. of Chemistry,<br>Nutan Maratha College, Jalgaon |
| 4       | Dr. P. B. Patil      | HOD<br>Dept. of Zoology,<br>Nutan Maratha College, Jalgaon    |
| 5       | Prof. R. B. Deshmukh | HOD,<br>Dept. of Physics,<br>Nutan Maratha College, Jalgaon   |

## **Executive Summary**

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background, it becomes essential to adopt the system of the Green Campus for the institute, which will lead for sustainable development.

Green auditing can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The green audit aims to analyze environmental practices within and outside the college campus, which will have the impact on the eco-friendly ambiance. It was initiated with the motive of inspecting the work conducted within the campus whose exercises can cause risk to the health of inhabitants and the environment. Through green audit, one gets the direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out green audit.

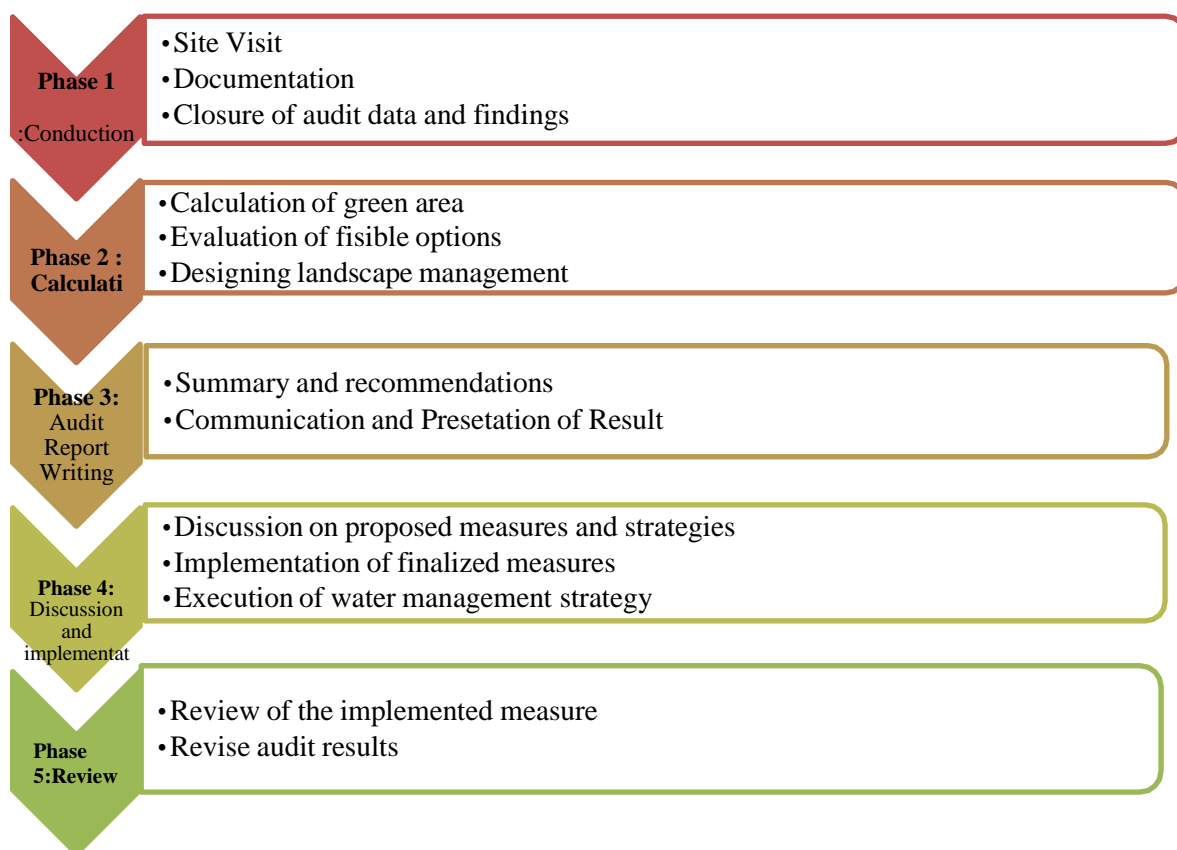
## **Objectives of Audit**

The main objective of green analysis is to promote the environmental management and conservation in the campus. The purpose of auditing is to identify, quantify, describe, and prioritize framework of environmental sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out green analysis are-

- To introduce and aware students to real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource used in the campus.
- To prepare a baseline report on sustainable development and other resources, measures to mitigate resource wastage and improve resource quality and sustainable practices.

Nutan Maratha College, Jalgaon is intensely concerned and totally believes that there is an urgent need to address these basic problems and reverse the trends. Being a leading institution of higher learning, the college has initiated ‘The Green Campus’ program four years back that actively promote the various projects for the environment protection and sustainability. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the Departments comply with the applicable regulations, policies and standards.



**Phase I: Conduction of Audit**

At the beginning of green audit, it is must to observe the supply, storing and consuming facilities are provided on the site. The Green audit team commits to:

1. Conduct site visit to locate the water points & Map them.
2. Locate the green landscapes.

3. Mark Native plants.
4. Compile the findings during visit.
5. Notice conditions of water fixtures (dirty, stuck, leaking etc.)

### **Phase II: Calculation**

After completion of site visit, the audit team performed calculation to analyses the acquired data with reference to local bye laws (in India: NBC 2016) as base line. This enables to determine whether the premise is covered with green and well shaded.

Based on the calculation, the landscape management strategies have to be defined and implement in the respective premises.

### **Phase III: Audit Report**

The team prepares detailed report based on procedure mentioned above. The audit report consists:

1. Observations done during audit.
2. All the measurements, calculations.
3. Summary and conclusions based on the calculations.

### **Phase IV: Discussion & Implementation**

After formation of audit report, the audit team will hold meeting with the respective project team to discuss the current and future scenario towards the landscape management. The key discussion points are:

1. Possible water conservation measures & their implementation in landscape.
2. Areas where water can be conserved like rainwater harvesting & wastage of water can be minimized

Later, the project team will implement the measures that are finalized in accordance to the discussion and meetings held with audit team.

### **Phase V Review**

After the implementation of measures, the review and maintenance of the same is much needed. Because, the continuous monitoring of the measures can only justify and revise the water savings occurring in the premises.



The formation of "Sustainable Cell" in the premises will help in proper & continuous execution of the measures, a This cell is also responsible to educate the occupants regarding effects of water management along with the finding and installing any new techniques at the project site.

**LAND SCAPE USE**

| <b>LOCATION</b>                      | <b>LENGTH (M)</b> | <b>WIDTH (M)</b> | <b>AREA (M)</b> |
|--------------------------------------|-------------------|------------------|-----------------|
| New Science Building                 | 57                | 8                | 456             |
| Chemistry                            | 31.70             | 11.4             | 361.38          |
| Main Office Building<br>(upto YCMOU) | 97.5              | 11.4             | 1111.5          |
| Library                              | 27.0              | 25.0             | 675             |



**Land scape area covered by College Buildings - 1**



### Land scape area covered by College Buildings - 2

Nutan Maratha College, Jalgaon and “Environment Committee” to perform various activities in the field of Green Campus. College is adopting zero waste discharge facility to manage the solid, liquid and e-waste.

**Solid waste management:** Around 03 kg/ day food and other waste is generated in the form of biodegradable solid waste from the campus. It is frequently dispatched to the solid waste collection vehicle of Municipal Corporation. With regard to green waste generated on campus, which includes grass clippings, leaf litter, and other landscaping related refuse is being treated for composts.

**Liquid waste management:** The College has designed the outflow of the liquid waste in such a way as to prevent contamination in the campus. A properly constructed leakage proof sewer system is used for drainage.

**e-waste management:** All electronic gadgets are periodically repaired for efficient utilization and replaced under buy back scheme of supplier. Hence, minimum e-waste is generated in the campus. The remaining non-working computers, monitors and printers are discarded and scrapped on a systematic basis. If some parts are useful, in other systems they are kept aside for future use.

**Land Scape – Water Schedule**

| MONTH     | NO.OF DAYS | REMARK          |
|-----------|------------|-----------------|
| JUNE      | 15         | ALTERNATE DAYS  |
| JULY      | 6          | ONCE IN A WEEK  |
| AUGUST    | 6          | ONCE IN A WEEK  |
| SEPTEMBER | 10         | TWICE IN A WEEK |
| OCTOBER   | 10         | TWICE IN A WEEK |
| NOVEMBER  | 10         | TWICE IN A WEEK |
| DECEMBER  | 10         | TWICE IN A WEEK |
| JANUARY   | 10         | TWICE IN A WEEK |
| FEBURARY  | 10         | TWICE IN A WEEK |
| MARCH     | 15         | ALTERNATE DAYS  |
| APRIL     | 15         | ALTERNATE DAYS  |
| MAY       | 16         | ALTERNATE DAYS  |

College is concern about water conservation, so the college authority save the runoff of rain water from the terrace of the buildings constructed in the college campus by Rain water harvesting structures. Rooftop of main building is used to collect the rainwater, which is used by department of chemistry for regular practical sessions. The runoff from the unpaved area is intercepted at certain locations by collection trenches. This runoff eventually facilitates groundwater recharge.

Colleges willingly accepted the green practices and strictly follow them. The college conducts campaign for students and faculty to understand the importance of environmental protection and be mindful about saving energy. The authority frequently appeals to the students and faculty to maintain the tradition of no vehicle day on any one day in month. To understand the plant biodiversity of the campus, the college has been conducting census of tree, herbs and shrubs every five years since 2020. As per recent survey (2022), the college campus has rich plant biodiversity having more than 250 + plants. Around 20% of the total campus area covered with plantation more than 250 plants and trees species thus giving pure oxygen to students and staff and making campus green and beautiful.

## Statement of Assurance

The audit has been conducted in accordance with the standard procedures for the professional practice of internal auditing.

In our professional judgement, sufficient and appropriate audit procedures were completed and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations, as they existed at the time of the audit with the established area.

## Methodology of Audit

In order to meet its objectives, this audit combined physical inspection with review of relevant documentation and interactions with departmental staff members and students.

- **Review of the Documentation:** For the purpose of this audit, Green audit framework was reviewed.
- **Interviews:** Interviews were conducted with the principal, departmental faculties and students.
- **Physical Inspection:** The audit team was conduct physical observation in the college campus to inspect the green practices.

## Summary of Findings

The main findings of the audit show that, all the department staff and students are aware about the needed for environmental protection at a general level. It was also observed that a number of best practices such as maintaining the collection of waste separately, introduce rain water harvesting to new building structures, implementing plastic free campus etc. are followed in the college premises.

### **Audit framework and detailed findings**

The following audit framework is used for conducting Green Audit in 2021-22. The frame work also lists the finding and also observations for every criterion.

**Criteria- 1: Deployment of Environment Committee**

**Objective:** Development of the Environment Committee who set the best standards in the field of environmental monitoring system through different activities.

**Activity:** Creating the awareness among all students, staff members & all stakeholders of institute regarding clean & green environment.

**Audit Observation:** For this purpose, college management deployed the some staff members and prepared designated “Environmental Committee” for the year 2021 to 2024. The committee as follows:

**“Environment Committee”**

| Sr. No.  | Name of the Members  | Department | Designation      |
|----------|----------------------|------------|------------------|
| <b>1</b> | Dr. Madhuri S. Patil | Chemistry  | Chairperson      |
| <b>2</b> | Prof. B. C. Patil    | English    | IQAC Coordinator |
| <b>3</b> | Dr. P. B. Patil      | Zoology    | Member           |
| <b>4</b> | Prof. R. B. Deshmukh | Physics    | Member           |

The above committee members are responsible for conducting different environmental activities from time to time. As evidence, the institute celebrates World Environment Day on 5th June of every year. Institutes involved in Tree plantations in and outside the college, arrangement of Guest lectures on current environment topics, distributing plant species instead of gifts, etc. The committee members continuously spread the deep knowledge regarding the importance of Environment through different competitions like Poster presentation, PPT presentation, Rangoli competitions, and the theme of the same is environment & its factors.

**Criteria- 2 (A): Waste Generation and Management**

**Objective:** Maximize the waste recycled and minimize the quantity of non-recycled refuse.

**Activity:** Segregation of waste

**Audit Observation:** Waste Material is segregated as per category like Paper, Cardboard, Scrap Wood, Scrap Metal, Plastic scrap, glass, laboratory rags etc. Each waste is stored at departmental level and periodically sending to other purposes.

| Type of waste      | Audit Observation  |
|--------------------|--|
| Paper Waste        | <ul style="list-style-type: none"> <li>• One-side rough papers are used for the printing of Notices, Time Tables etc. in each department.</li> <li>• Email and Mobile media communication is used for minimize the use of paper.</li> </ul>  |
| Scrap Material     | <ul style="list-style-type: none"> <li>• Plastic bottles, caps and other waste material are stored separately at departmental level and handover to local scrap vendor system as a scrap material</li> </ul>   |
| Glass Waste        | <ul style="list-style-type: none"> <li>• Empty chemical glass bottles are stored separately and periodically sending as a scrap material to registered agency.</li> </ul>  |
| Construction Waste | <ul style="list-style-type: none"> <li>• In case of small expansion, construction waste is use for land filling and landscaping within the college premises.</li> </ul>  |
| Electrical Waste   | <ul style="list-style-type: none"> <li>• Electrical waste like damaged electrical board, switches, cut wires are collect by electrician and replace this with new one and remaining wastage is sold as scrap.</li> <li>• Electrical waste related to computer, key boards, and mouse is collect by Computer science department for repairing and replaces the damaged one and remaining wastage is sold as scrap.</li> </ul> |

**Criteria- 2 (B): Waste Generation and Management**

**Objective:** Collection of waste.

**Activity:** Students as well as faculties of different department concern about waste collection. They do not throw the paper, plastic and other solid waste in the surrounding premises of college campus.

**Audit Observation:** In addition, separate plastic dustbins (for dry & wet solid waste) are installed at various locations in the college campus for collection of waste including administration office, college campus, garden area etc. Jalgaon Municipal Corporation collects the stored waste on every day.

**Criteria- 2 (C): Waste Generation and Management**

**Objective:** Plastic free Campus.

**Activity:** Motivate students about harm of plastic carry bags and items to convince them for no use of plastic in college premises.

**Audit Observation:** Proper dustbins are provided to each department. To aware all students as well as faculties of different department about “No Use of Plastic” in college campus, awareness boards are display at various location in the college campus.

**Criteria- 3 (A): Water Management & Conservation**

**Objective:** Use of water for drinking purpose.

**Activity:** Provision of water cooler

**Audit Observation:** As a part of an essential facility, a water cooler is installed for the drinking water purpose for students and staff members. Frequent cleaning is also carried out to avoid the contamination and maintain the hygiene condition. The outlet of the water cooler is provided to the near garden area to use the water for gardening purposes and avoid the wastage of water.



**Criteria- 3 (B):** Water Management & Conservation

**Objective:** Water conservation.

**Activity:** Rain Water Harvesting

**Audit Observation:** Surface & roof water harvesting facility is provided to the main building, & college campus ground. Due to this facility, bore wells are charged naturally and the ground water table may increase. Watering in Botanical garden is carried out using the wastewater coming from Botany and Zoology lab. Many plants in the campus are watered using wastewater from drinking water tank. These plants are watered using canals as well as pipes.



**Rain Water Harvesting Area**

| Sr. No. | Name                      | Quantity | Location                            |
|---------|---------------------------|----------|-------------------------------------|
| 1       | Rain water Harvesting Pit | One      | Back side of Bhaskaraacharya Bhavan |
| 2       | Rain water Harvesting Pit | One      | Back side of Chemistry Lab          |

One of medium of harvesting rainwater is providing the incoming rainwater directly to the ground. This will increase ground water table of the location and also helps in achieving the ground water at same or at less level than the existing level. Further, the rainwater is reused in the landscape of campus.

**Water Audit**  
(Academic Year 2021-22)

**Water User Profile:**

*Water User Includes students, staff, visitors etc.*

- a. Total number of water users : Approx. 1500
- b. Number of Employee: (Teaching + Non Teaching) = 110
- c. Number of students : 3606
- d. Number of visitors (daily Average) : 15 to 20 Approximately
- e. Average working days: 06 per week
- f. Office timings: 7.30 to 5.30
- g. Rain water harvesting system availability : Yes
- h. Is rainwater harvesting system working? Yes
- i. Daily water supply (liters) :1200 liters approx.

**Assessment of water requirement**

| Sr. No.      | Site                             | Total no. of Sources | Measurement of water Uses (Daily) |                               |                                  |                   |                         |
|--------------|----------------------------------|----------------------|-----------------------------------|-------------------------------|----------------------------------|-------------------|-------------------------|
|              |                                  |                      | Rate of Discharge (Liter/min)     | Average Duration of Use (min) | Average Quantity per use (liter) | No. of Uses (No.) | Total Daily Use (liter) |
| (1)          | (2)                              | (3)                  | (4)                               | (5)                           | (6)                              | (7)               | (8)                     |
| 1.           | Urinals                          | 14                   | 01                                | 2.00                          | 2.00                             | 1500              | 3000                    |
| 2.           | Bathroom                         | 20                   | 01                                | 2.00                          | 2.00                             | 1500              | 3000                    |
| 2.           | Laboratory                       | 17                   | 05                                | 05                            | 25                               | 1000              | 25000                   |
| 3.           | Other (Drinking purpose with RO) | 01                   | 0.50                              | 10                            | 05                               | 1000              | 5000                    |
| 4.           | Gardening Purpose                | 01                   | 10                                | 5                             | 50                               | 100               | 5000                    |
| <b>TOTAL</b> |                                  |                      |                                   |                               |                                  |                   | <b>41000</b>            |

**Water Source & Storage:**

Water from tube-well & Mahanagarpalika is directly pumped to the overhead tank and underground water tank.

**Criteria- 3 (C):** Water Management & Conservation

**Objective:** Water Conservation.

**Activity:** Checking of water sources regularly

**Audit Observation:**

- The storage (overhead/underground tank) checked periodically for any leakage.
- The departmental Tap was checked periodically to prevent from any leakage.
- The leakage Tap replace by new one.

**Criteria- 4 (A):** Energy Consumption (Electrical Energy)

**Objective:** To save the electrical energy.

**Activity:** Installation of “Solar Lamp” at ground of college campus.

**Audit Observation:** College management has a positive approach for the installation of Solar panels to save electrical energy by using natural resources. The environmental committee is in the planning phase for the same. Currently one solar lamp is installed and used for lighting purposes in college campuses.



**Solar Lamp**

**Criteria- 4 (B):** Energy Consumption (Electrical Energy)

**Objective:** To save the electrical energy.

**Activity:** Planning for Installation of LED light at administration.

**Audit Observation:** Currently the college used traditional tube lights (61 nos.), halogen lights (03 nos.) and LED lights (06 nos.). College management is in the planning phase to install the LED lights at the office and laboratories area. It will conserve electrical energy instead of tube lights. College used natural light as maximum in daytime to reduce the load on electricity.

| Particulars  | Tube Lights   | LED's<br>(Tube & Bulb) |
|--|---------------|------------------------|
| Number of Lights   | <b>50</b>     | <b>570</b>             |
| Watt/light   | 40            | 08                     |
| Average Cost/light (Rs.)                                 | 60            | 250                    |
| Initial Investment (Rs.)                                 | 3000          | 142500                 |
| Kwh energy consumed by the lights                        | 14            | 1.75                   |
| Cost of energy (Rs. 5/kwh) (Rs.)                         | 70            | 8.75                   |
| Kwh energy consumed per month<br>8 hours working/22 days | 2464          | 308                    |
| <b>Avg. Cost of energy consumed per month (Rs.)</b>      | <b>12,320</b> | <b>1,540</b>           |

**Average consumption & Cost related to use of lighting system in college premises**

**Criteria- 4 (C):** Energy Consumption (Electrical Energy)

**Objective:** To save the electrical energy.

**Activity:** Conservation of Electrical Energy at Departmental Level

**Audit Observation:**

- All laboratory having panel boards MCB switch to control the electrical supply within the department. The responsibility is given to non-teaching staff to “Switch-off” this switch without any ignorance to avoid the wastage of electrical energy.
- Maximum area of the college building having the sunlight throughout the day. It reduce the burden on electricity. Natural light (Sun light) is use at the practical labs, classroom, admin office, etc.
- Signboards like “Switch off the fans / light when not in use” are displayed in the departments.
- The water pumps are regularly maintained for minimum consumption of electricity.
- College management thoughts about solar panel installation to save the electricity.
- Power saver lights, five star rating AC systems, LCD monitors, Branded fans are used to minimize the consumption.

**Criteria- 5:** Energy Consumption (Transportation)

**Objective:** To save the fuel energy.

**Activity:** Motivate to students and faculties for reduce the use of vehicles in college campus.

**Audit Observation:** The Environmental committee is declared as a “No vehicle day” once a month to minimize the use of personal vehicles within the college campus. Students as well as faculty member’s respond to this theme very well. To motivate and educate the students regarding minimum use of vehicles, the “Cycle Day” programme is arranged by college facilities.

**Criteria- 6:** Energy Consumption (LPG Cylinder)

**Objective:** To save the LPG energy.

**Activity:** Conserve the LPG at departmental Level

**Audit Observation:**

- The gas burners, tubes are checked periodically to prevent the leakages of gas.
- Slow flame is adjusted during the practical work to minimize the excess use of gas.
- The practical is listed as per use and non use of LPG.
- The empty cylinder are stored centrally and labeled as “EMPTY”
- The use and requirements of each department about LPG is monitored by concern Lab Attendant.

**Criteria- 7:** Air Quality of the Campus

**Objective:** To assess the air quality of Campus.

**Activity:** The status of ambient air pollution will be monitored by using High Volume Sampler (Envirotech APM 460 BL Respirable Dust Sampler-RDS). SPM samples were collected with the help of a high volume sampler on a cup for 24 hr. with air flow rate of 1- 1.5 m<sup>3</sup> min<sup>-1</sup>. The difference in initial and final weights of the cup and filter paper was given the total quantity of SPM collected over the 24 hr period. Measurement of SO<sub>2</sub> (µg m<sup>-3</sup>) in the ambient air will be

analyzed by the West- Gaeke method (1956) and NO<sub>2</sub> (µg m<sup>-3</sup>) gas by the modified method of Jacob and Hochheisher (1958).



**Ambient Air Monitoring Observations:**

| Location Code       | Locations                 | Parameters      |                 |            |
|---------------------|---------------------------|-----------------|-----------------|------------|
|                     |                           | SO <sub>x</sub> | NO <sub>x</sub> | SPM        |
| S-1                 | Main Gate                 | 30.18           | 58.71           | 218.8      |
| S-2                 | Left Side of the college  | 30.14           | 59.23           | 186.8      |
| S-3                 | Right Side of the college | 31.28           | 59.76           | 192.2      |
| S-4                 | Back side of the college  | 31.65           | 50.06           | 188.5      |
| <b>NAAQS Limits</b> |                           | <b>80</b>       | <b>80</b>       | <b>200</b> |

**Status of Ambient Air Quality within the premises of College**

**Criteria- 8:** Monitoring and Assessment of Noise

**Objective:** To measure the ambient as well as workplace noise within the college campus.

**Activity:** To measure the Noise Quality by Noise Level Meter.

**Audit Observation:**

Noise has been recognized as ambient air pollutant. Standards in this regards are laid down under Environment (protection) rules, 1986.

| Sr. No.  | Category of Zone    | Permissible Limits dB (A) Leq |            |
|----------|---------------------|-------------------------------|------------|
|          |                     | Day Time                      | Night Time |
| 1        | Industrial Zone     | 75                            | 70         |
| 2        | Commercial Zone     | 65                            | 55         |
| 3        | Residential Zone    | 55                            | 45         |
| <b>4</b> | <b>Silence Zone</b> | <b>50</b>                     | <b>40</b>  |

**Permissible Limit of Noise in Different Zones**

- The permissible limits are count as per the zones. The noise monitoring generally carried out at day time and at night time.
- The day timing is considered as morning 06:00 am to night 10:00 pm and the night timing consider as night 10:00 pm to morning 06:00 am.
- As per the observations are recorded the day time and night time standards are used for the comparisons.
- Zone assortment may be carried out by Municipal Authority of that particular locations or city.
- Hospitals, **Educational Institutes**, Governmental offices, Session courts and Police Stations include in “Silent Zone”
- So “Silent Zones” standards (Day Time only) used for the comparisons.

| Sr. No. | Locations               | Noise Level in dB (A) |            | MPCB Limits |
|---------|-------------------------|-----------------------|------------|-------------|
|         |                         | Day Time              | Night Time | Silent Zone |
| 1       | Main Entrance           | <b>74.2</b>           | NA         |             |
| 2       | Central Point of Ground | <b>69.6</b>           | NA         |             |
| 3       | Entrance Main Building  | <b>67.8</b>           | NA         |             |
| 4       | Principal’s Cabin       | 51.5                  | NA         |             |
| 5       | Faculty Staff room      | 42.4                  | NA         |             |
| 6       | Library (Office)        | 39.1                  | NA         |             |

|                   |                        |      |    |
|-------------------|------------------------|------|----|
| 7                 | Library (Reading Room) | 37.6 | NA |
| 8                 | Botany Laboratory      | 46.3 | NA |
| 9                 | Admin Office           | 49.6 |    |
| 10                | Chemistry Laboratory   | 52.6 | NA |
| 11                | Geography Laboratory   | 51.9 | NA |
| 12                | Phycis Laboratory      | 49.4 | NA |
| 13                | Backside of college    | 52.8 | NA |
| <b>Classrooms</b> |                        |      |    |
| 14                | Class Room No. 1       | 53.8 | NA |
| 15                | Class Room No. 3       | 55.2 | NA |
| 16                | Class Room No. 5       | 53.9 | NA |
| 17                | Class Room No. 7       | 56.4 | NA |
| 18                | Class Room No. 10      | 51.3 | NA |

**Observation of Noise Level Monitoring (A)**

Except Main gate, center point of ground and main entrance of building, all other observations are within the prescribed limits of Environment (protection) rules, 1986. Due to nearby areas the noise level high at Main gate and Centre point of ground.

**Criteria- 9:** Green Campus with Botanical Garden

**Objective:** To increase the Green Cover with different tree/plant species within the college campus in the form of botanical garden.

**Activity:** Develop & maintained the botanical garden. Tree plantation in and near by area of college.

**Audit Observation:** College & staff members are taking the efforts to develop & maintain the botanical garden within the college premises. Total 33 plant species with different families are present in the botanical garden. The details are shown in the table below. To understand the plant biodiversity of the campus, the college has been conducting a census of trees, herbs and shrubs every five years since 2020. As per recent survey (2022), the college campus has rich plant biodiversity having 250 + plants. List of the plants is mentioned below:



| <b>Sr. No.</b> | <b>Botanical Names</b>       | <b>Family</b>  | <b>Common Name</b> | <b>Total in campus</b> |
|----------------|------------------------------|----------------|--------------------|------------------------|
| 1.             | <i>Azadiracta indica</i>     | Meliaceae      | Kaduneem           | 44                     |
| 2.             | <i>Caryota urens</i>         | Arecaceae      | Bottle Palm        | 25                     |
| 3.             | <i>Cocus nucifera</i>        | Arecaceae      | Coconut            | 02                     |
| 4.             | <i>Polyalthia longifolia</i> | Annonaceae     | False Ashok        | 20                     |
| 5.             | <i>Tecoma stans</i>          | Bignoniaceae   | Yellow Bell        | 02                     |
| 6.             | <i>Murraya paniculata</i>    | Rutaceae       | Kamini             | 04                     |
| 7.             | <i>Annona squamosa</i>       | Annonaceae     | Sitaphal           | 02                     |
| 8.             | <i>Citrus ourientinum</i>    | Rutaceae       | Lemon              | 02                     |
| 9.             | <i>Laecuna lucocephala</i>   | Mimosaceae     | Subabhul           | 10                     |
| 10.            | <i>Thuja occidentalis</i>    | Cuprassaceae   | Mayur Pankhi       | 03                     |
| 11.            | <i>Delonix regia</i>         | Caesalpinaceae | Gold Mohar         | 11                     |
| 12.            | <i>Phyllanthus emblica</i>   | Euphorbiaceae  | Avla               | 03                     |
| 13.            | <i>Acharus sapota</i>        | Sapotaceae     | Chiku              | 02                     |
| 14.            | <i>Melingtonia hortensis</i> | Bignoniaceae   | Buch               | 02                     |
| 15.            | <i>Psidium gauva</i>         | Myrtaceae      | Peru               | 02                     |
| 16.            | <i>Dalbergia sisoo</i>       | Fabaceae       | Sisam              | 20                     |
| 17.            | <i>Gmelina arborea</i>       | Verbinaceae    | Shivan             | 02                     |
| 18.            | <i>Pithecelbium dulce</i>    | Mimosaceae     | Vilaiti chinch     | 05                     |
| 19.            | <i>Ficus glomerata</i>       | Moraceae       | Umber              | 10                     |
| 20.            | <i>Albezia lebbec</i>        | Mimosaceae     | Shiris             | 09                     |
| 21.            | <i>Terminalia catapa</i>     | Combretaceae   | Badam              | 05                     |

|     |  |                |              |              |
|-----|--|----------------|--------------|--------------|
| 22. | <i>Tamarindus indica</i>                 | Caesalpinaceae | Chinch       | 05           |
| 23. | <i>Eucalyptus globulus</i>               | Myrtaceae      | Nilgiri      | 04           |
| 24. | <i>Peltophorum peltocarpum</i>           | Caesalpinaceae | Peltophorum  | 17           |
| 25. | <i>Cassia fistula</i>                    | Caesalpinaceae | Amaltas      | 02           |
| 26. | <i>Mangifera indica</i>                  | Anacardiaceae  | Mango        | 02           |
| 27. | <i>Ficus bengalensis</i>                 | Moraceae       | Vad          | 08           |
| 28. | <i>Thavethia nerifolia</i>               | Apocynaceae    | Yellowkanher | 04           |
| 29. | <i>Alstonia scholaris</i>                | Apocynaceae    | Saptapurne   | 10           |
| 30. | <i>Caesalpinia pulcherrima</i>           | Caesalpinaceae | Shankasur    | 02           |
| 31. | <i>Ixora coccinia</i>                    | Rubiaceae      | Ixora        | 02           |
| 32. | <i>Rosa indica</i>                       | Rosaceae       | Rose         | 05           |
| 33. | <i>Hibiscus rosasinensis</i>             | Malvaceae      | Jaswand      | 02           |
| 34. | <i>Bougainvillea spectabilis</i>         | Nyctaginaceae  | Bogenvel     | Hedge plants |
| 35. | <i>Pongamia Pinnata</i>                  | Fabaceae       | Karanj       | 02           |
| 36. | <i>Ocimum Tenuiflorum</i>                | Lamiaceae      | Tulsi        | Bush         |
| 37. | <i>Ornamental plants in earthan pots</i> |                |              |              |

**Some Plant Species available in the Botanical Garden**



### Facilities available at College Premises

- College provided Sanitary Napkin Vending & Disposal machine at girl’s washroom.
- Arrangement of walkway ramp for physically handicap students.
- Separate & clean washrooms, urinals, toilets for students & staff members.
- College provide sufficient numbers of Fire Extinguishers at every laboratories, admin building, corridors etc.



Sanitary Napkin Vending & Disposal Machine



**DCP Type Fire Extinguisher**  
Total Fire Extinguishers: 22 Nos.  
Total Fire Ball: 55 Nos.



**Best Practices conducted by the College**

- College celebrates “World Environment Day” on 5<sup>th</sup> June every year.
- The Environment Committee every year has been managed a programme on tree plantation and their nurturing to aware the students and the nearby society about the maintenance of the environment. The result is that, they have a beautiful green campus.
- World Ozone Day is celebrated each year on 16<sup>th</sup> September to spread the awareness among the students about the depletion of the ozone layer and to take certain steps for the solution of the problem.
- College management, Members of Environment Committee believe that, our environment is becoming increasingly contaminated because of the technological development. To aware the people and students about it, Earth Day is celebrated on 22 April every year.
- College provides Fire Extinguishers at science laboratories to tackle the fire emergency.
- The college has been taken initiative to make pollution free campus from the year 2020-21. The college started “No Vehicle Day” once in a month to reduce the air pollution and noise pollution.
- The college also try to prohibited mobile ban or limited use of mobile in the college campus. The mobiles of official persons kept on silent mode in the college campus.
- The college also invited guest to delivered lecture on environment topics.
- For all students of first year, university has started Environmental Studies to aware the students to conserve of environment.
- The college has also kept dustbins at different places. The separate store room is created to keep all the deadstock material of the college.
- The college planted trees around the campus are to reduce pollution.
- The college also organizes Fire Cracker less campaign in the city.
- The wastages are not burns and it is composed in the vermicomposting pit.
- The roof water harvesting is implemented in the college campus.

**Photographic Plate**



**Library Reading Room – Utilize Natural Light**



**Admin Office Cabin – Utilize LED Light**

### Recommendations

Following the audit, some recommendations were made to the college authority by external audit team.

| <b>Sr. No.</b> | <b>Criteria</b>         | <b>Recommendations</b>  |
|----------------|-------------------------|---|
| 1.             | Illumination Monitoring | It is recommended that to conduct the Illumination study to check the light intensity with in college campus.   |
| 2.             | Vehicles                | Monitoring the PUC of every vehicle within the campus at least once in a year to minimize the vehicular pollution load.   |
| 3.             | Fire fighting Training  | It is recommended that, firefighting training must be provided to lab assistants of science laboratories & official persons from admin block from external competent agency to tackle the fire emergency. |

### **Declaration**

I agree with all the recommendations and observations mentioned in this report.

Original signed with college seal by,

**Dr. L. P. Deshmukh**  
**(Principal)**





Jalgaon District Maratha Vidya Prasarak Co-op Samaj's,  
Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R.  
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**Jalgaon District Maratha Vidya Prasarak Co-op. Samaj's**

**Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe  
Commerce and Shri. G. R. Pandit Science College,  
(Nutan Maratha College), Jalgaon**



**Environment (Green) & Energy Audit Report**

**(2022-23)**

**SRUSHTI EHS Consultant Services**

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**A**  
**ENVIRONMENT (GREEN) & ENERGY AUDIT REPORT**  
**of**



**Jalgaon District Maratha Vidya Prasarak Samaj's,**  
**SHRI. S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE**  
**COMMERCE AND SHRI. G. R. PANDITSCIENCE COLLEGE,**  
**(NUTAN MARATHA COLLEGE), JALGAON**

Taluka: Jalgaon, District: Jalgaon, Pin Code: 425001, State: Maharashtra

For the year

**2022 - 23**

Submitted by,

**SRUSHTI EHS Consultant Services**

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# SRUSHTI


## EHS Consultant Services




### Environment (Green) & Energy Audit

This is to certify that “**J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon Taluka: Jalgaon, Dist.: Jalgaon (Maharashtra)**” has satisfactorily handled the **Environmental (Green) & Energy Audit** for the college covering all the details in accordance with the required norms for the year **2022 - 23**.

The audit shall assist them to develop measures to save the environment and its individual units.

  
**Dr. Kiran P. Pawar**  
DIRECTOR  
SRUSHTI EHS CONSULTANT  
JALGAON



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## Preamble

The rapid environmental degradation at local, regional and global level is real, which is leading us to global “Environmental Poverty”. Stabilization of human population, adoption of environmentally sound and sustainable technologies, reforestation, and ecological restoration are crucial elements in creating an equitable and sustainable future for all humankind in harmony with nature. Thus, academic leaders must initiate and support mobilization of internal and external resources and knowledge so that their institute responds to environmental challenges.

Nutan Maratha College, Jalgaon is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reserves the trends. We deeply subscribe to the fact that humans should be steward of Mother Nature and that we all have a profound responsibility to protect the earth’s resources in perpetuity. Being a premier institute of higher learning, Nutan Maratha College, Jalgaon has resolved to play a major role in the education, research, policy formation, and information exchange necessary for a sustained environmental campaign.

The current environmental audit represents the first stage in our efforts to build environmental sustainability on the campus. The audit was conducted by a Dr. Kiran P. Pawar (Director, SRUSHTI EHS Consultant Service, Jalgaon). SRUSHTI EHS Services have conduct this audit not only for the institution itself, but just as importantly to be role model institution for others to emulate and bring the environmental concerns and related mitigating measures to center stage of campus life in the city of Jalgaon, District – Jalgaon, the state of Maharashtra and extend locally, regionally and beyond.

The overall goals of this audit were:

- To introduce students to real concern of environment and its sustainability using the Nutan Maratha College, Jalgaon Campus as a study site.
- To analyze the pattern and extent of resources use on the campus.
- To make the college a more environmentally sustainable institution of higher learning
- To bring out a status report on environmental compliance.

### **About the JDMVPs, Jalgaon**



Jalgaon District Maratha Vidya Prasarak Co-operative Samaj Ltd. Jalgaon (JDMVP) was established in 1917 with the motto, 'Bahujan Hitay, Bahujan Sukhay' i.e. 'In the interest of the masses, for the welfare of the masses.' The college strives with the objectives of

Reaching out to the less privileged, to uplift the needy and poor downtrodden to open for them the avenues of higher education. The objectives encompass the goals to facilitate access to higher education for poor students from nearby villages approximately Jalgaon city for boosting their courage and confidence and develop them into sensitive youths with social and moral commitment. The institution also has objective to broaden their vision towards casteless, creedless society and promote in them the social awareness and to equip them with the knowledge and skills for self-employment opportunities.

When the institution was registered in 1917, the institution started its work with just seven students admitted for education. With the sincere efforts of the visionaries, the institution flourished with lips and bound from a single school of seven students to a multi-institute group delivering quality higher education at all levels. Today J.D.M.V.P. owns and manages 3 senior degree colleges, 30 Secondary schools, 14 Jr. Colleges, 10 M.C.V.C. centers, two Y.C.M.O.U. centers and a girl's high school a D.Ed. College and a primary school.

## About Nutan Maratha College, Jalgaon

The registered name of this college has become as JDMVPS Shri S. S. Patil Arts, Shri Bhausahab T.T. Salunkhe Commerce and Shri G.R. Pandit Science College, Jalgaon This College is affiliated to KBC North Maharashtra University and college caters the education from 11th Std to M. A., M. Com, M.Sc. students. The college runs graduate course in Physics, Chemistry, Botany, Microbiology, Zoology, Mathematics, Computer Science, Electronic etc. Graduation and Post- Graduation in Languages English, Hindi, Marathi, Urdu and in all social sciences are available along with separate commerce faculty. The college has well qualified teaching staff to cater all of its courses and most of the teachers are also guiding M. Phil. and Ph. D. Students. The college is situated in the heart of the city with 08 acres of land & has built up area of 8584 square meters. The college has thirty-five class rooms, Science, computer science, Psychology, English language laboratories, Geography, Commerce Social Sciences departments, Gymkhana,



partially automated central library, NSS, NCC, NAAC, IQAC offices, Principal, vice principal, administrative offices, gents and ladies staff rooms and ladies' room for girls. In addition to these the audio-visual aids, OHP, LCDs, power generator, invertors, safe and purified drinking water, vehicle parking for students and the teachers as well, playground, facilities for indoor and outdoor games etc.

Over the last two decades, our college has grown in terms of faculties, co-curricular and extra-curricular and extension activities. We are open to students of all community, the majority being SC, ST, SBC, NT, and OBC. We are permanently affiliated to North Maharashtra University, Jalgaon which was ranked first among the state university as per the survey by Career360

magazine. We try our best to inculcate knowledge through co-curricular and extra-curricular activities. Under the Student Welfare Committee we have NSS and Yuvati Sabha unit which undertake social causes and try its best to inculcate the same among the students and the masses.

The official and unofficial feedback we receive from the students, alumni, parents, educationists and Local Managing Committee helps us to identify the weakness and also helps us to achieve excellence in our endeavor. We were granted B (Pointer Score - 2.6) grade by the previous NAAC Peer team in February 2016 and have endeavored to implement their recommendations.

We do our best to provide all round development of our students in curricular, co-curricular and extra-curricular activities and in doing so we aim to achieve a contribution and commitment to a better India for all us.

The Internal Quality Assurance Cell has been instrumental in raising the quality of the college, implementing and enhancing the measures for quality improvement during the post accreditation period. This report is the outcome of the collective and collaborative effort of the entire college community. It has been prepared under the leadership of our Principal Dr. L. P. Deshmukh & IQAC coordinator- Prof. B. C. Patil (Department – English) who along with all the teaching staff members, meticulously collected, analyzed, documented and articulated all the records and activities, listed in the seven criterions for the last five years.

We have had several meetings with the staff, as the drafts of the report were being prepared, so that everyone would be familiar with the report and offer suggestions and indicate areas we had overlooked.

The college has also taken positive steps towards making the campus environmental friendly. No vehicle day is observed as a contribution to environment. For energy conservation, LED lights and solar lamp is installed in the campus. Water harvesting and RO system is installed for safe drinking and good health of all the staff and students.



**The College has set the vision –**

To broaden the horizon of knowledge to the laymen, to the masses from the nooks and corners of the valleys and villages. The visionaries of our ‘Samaj’ adopted the motto ‘Bahujan Hitai Bahujan Sukhay’, i.e. In the interest of masses, for the welfare of the masses.

Mission: We, at ‘Jalgaon District Maratha Vidya Prasarak Co-operative Samaj’s Shri. S.S.Patil Arts, Bhausahab T. T. Salunkhe, Commerce and Shri. G.R. Pandit, Science college, Jalgaon’. Popularly known as ‘Nutan Maratha College’ Jalgaon are committed to reach out to the poor, the needy and segregated, the deprived and hitherto neglected, to boost their courage and enkindle confidence in them so that they could claim higher education/ learning as their legitimate right.

The College aspires "*To be a distinguished Institution which provides high quality education*". It wants to provide such courses which will be uniquely valued by industry and provide a firm basis for its students to build challenging careers in their professional life.

**The College has set the objectives -**

- To offer qualitative valuable service in the field of education to the people in and around Bhusawal city.
- To develop responsible youth having social commitment.
- To aim at overall personality development of students fraternity through extracurricular activities in association with various social and cultural organization.
- To provide a platform to the students, by giving them an opportunity to face the challenges of the competitive world with utmost utilization of their potential in sports and other events.

### About SRUSHTI EHS Consultant Services...



We, **SRUSHTI EHS Consulting Services**, are register under **Ministry of Micro, Small & Medium Enterprises (MSME), Govt. of India, ISO 9001:2015 certified firm.**



We are pioneer in Khandesh region for providing the Environmental and Engineering solutions, Consulting services in the field of Environment, Health & Safety. We are work only for Quality Assurance up to Client Satisfaction. We provide Sustainable Environmental solutions that meet specific client's need by employing/partnering with highly educated & experienced team members as they will assist with in-depth Research, Proactive Strategy, Operative Implementation, and long term support to fulfill all of our client's needs. We are maintain high

standard of professional behavior & will comply with Regional, State & National regulations as well as guidelines.

We are experienced and expertise to conduct the **“Green Audit” (Environmental Audit)** of **Educational Institutes, Colleges, & Universities (as per NAAC Criterion VII)**. With this, we develop **“Green Practices”** at client's site. We are also arranging Environmental activities, Environmental Awareness Champaign on special occasions like World Ozone day, Environment Day, etc.

Apart from these, we are expert in following consulting services:

- **Green Audit/Environmental Audit**
- **Energy Audit**
- **Water Audit (Water Conservation & Management, Rain Water Harvesting)**
- **Gender Audit**
- **Fire Safety Audit** (As per NBC-2016, mandatory for Schools, Colleges, Hospitals, Commercial Shops/Complex, Residential & Commercial Buildings, Industries, etc.)
- **Air Quality Monitoring** (Ambient Air Quality & Workplace Air Quality)
- **Water Quality Monitoring** (Drinking water, Waste water, Ground water)
- **Solid Waste Management**
- **Noise Monitoring & Mapping**
- **Illumination Monitoring**
- **Carbon Foot Printing & Pollution Load Assessment**
- **Workplace Hygiene Monitoring**
- **Training & Hand on Demo** (Environmental equipment's, Fire Safety equipment's, Handling of Hazardous/Flammable Chemical, Gas Cylinder, Waste Material, etc.)
- **Training on Defensive Driving & Material Handling Equipment's (MHE)**

### Audit Team

#### External Audit Member

| Sr. No. | Name of Auditors   | Designation  |
|---------|--------------------|--|
| 1       | Dr. Kiran P. Pawar | Director,<br>SRUSHTI EHS Consultant Service, Jalgaon |

#### Internal Audit Team Members

| Sr. No. | Name of Auditors     | Designation   |
|---------|----------------------|---|
| 1       | Dr. L. P. Deshmukh   | Principal,<br>Nutan Maratha College, Jalgaon                  |
| 2       | Prof. B. C. Patil    | IQAC Coordinator,<br>Nutan Maratha College, Jalgaon           |
| 3       | Dr. Mrs. M. S. Patil | HOD,<br>Dept. of Chemistry,<br>Nutan Maratha College, Jalgaon |
| 4       | Dr. P. B. Patil      | HOD<br>Dept. of Zoology,<br>Nutan Maratha College, Jalgaon    |
| 5       | Prof. R. B. Deshmukh | HOD,<br>Dept. of Physics,<br>Nutan Maratha College, Jalgaon   |

## **Executive Summary**

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background, it becomes essential to adopt the system of the Green Campus for the institute, which will lead for sustainable development.

Green auditing can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The green audit aims to analyze environmental practices within and outside the college campus, which will have the impact on the eco-friendly ambiance. It was initiated with the motive of inspecting the work conducted within the campus whose exercises can cause risk to the health of inhabitants and the environment. Through green audit, one gets the direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out green audit.

## **Objectives of Audit**

The main objective of green analysis is to promote the environmental management and conservation in the campus. The purpose of auditing is to identify, quantify, describe, and prioritize framework of environmental sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out green analysis are-

- To introduce and aware students to real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource used in the campus.
- To prepare a baseline report on sustainable development and other resources, measures to mitigate resource wastage and improve resource quality and sustainable practices.

Nutan Maratha College, Jalgaon is intensely concerned and totally believes that there is an urgent need to address these basic problems and reverse the trends. Being a leading institution of higher learning, the college has initiated ‘The Green Campus’ program four years back that actively promote the various projects for the environment protection and sustainability. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the Departments comply with the applicable regulations, policies and standards.



**Phase I: Conduction of Audit**

At the beginning of green audit, it is must to observe the supply, storing and consuming facilities are provided on the site. The Green audit team commits to:

1. Conduct site visit to locate the water points & Map them.
2. Locate the green landscapes.

3. Mark Native plants.
4. Compile the findings during visit.
5. Notice conditions of water fixtures (dirty, stuck, leaking etc.)

### **Phase II: Calculation**

After completion of site visit, the audit team performed calculation to analyses the acquired data with reference to local bye laws (in India: NBC 2016) as base line. This enables to determine whether the premise is covered with green and well shaded.

Based on the calculation, the landscape management strategies have to be defined and implement in the respective premises.

### **Phase III: Audit Report**

The team prepares detailed report based on procedure mentioned above. The audit report consists:

1. Observations done during audit.
2. All the measurements, calculations.
3. Summary and conclusions based on the calculations.

### **Phase IV: Discussion & Implementation**

After formation of audit report, the audit team will hold meeting with the respective project team to discuss the current and future scenario towards the landscape management. The key discussion points are:

1. Possible water conservation measures & their implementation in landscape.
2. Areas where water can be conserved like rainwater harvesting & wastage of water can be minimized

Later, the project team will implement the measures that are finalized in accordance to the discussion and meetings held with audit team.

### **Phase V Review**

After the implementation of measures, the review and maintenance of the same is much needed. Because, the continuous monitoring of the measures can only justify and revise the water savings occurring in the premises.

The formation of "Sustainable Cell" in the premises will help in proper & continuous execution of the measures, a This cell is also responsible to educate the occupants regarding effects of water management along with the finding and installing any new techniques at the project site.

**LAND SCAPE USE**

| LOCATION                             | LENGTH (M) | WIDTH (M) | AREA (M) |
|--------------------------------------|------------|-----------|----------|
| New Science Building                 | 57         | 8         | 456      |
| Chemistry                            | 31.70      | 11.4      | 361.38   |
| Main Office Building<br>(upto YCMOU) | 97.5       | 11.4      | 1111.5   |
| Library                              | 27.0       | 25.0      | 675      |



**Land scape area covered by College Buildings - 1**



### Land scape area covered by College Buildings - 2

Nutan Maratha College, Jalgaon and “Environment Committee” to perform various activities in the field of Green Campus. College is adopting zero waste discharge facility to manage the solid, liquid and e-waste.

**Solid waste management:** Around 03 kg/ day food and other waste is generated in the form of biodegradable solid waste from the campus. It is frequently dispatched to the solid waste collection vehicle of Municipal Corporation. With regard to green waste generated on campus, which includes grass clippings, leaf litter, and other landscaping related refuse is being treated for composts.

**Liquid waste management:** The College has designed the outflow of the liquid waste in such a way as to prevent contamination in the campus. A properly constructed leakage proof sewer system is used for drainage.

**e-waste management:** All electronic gadgets are periodically repaired for efficient utilization and replaced under buy back scheme of supplier. Hence, minimum e-waste is generated in the campus. The remaining non-working computers, monitors and printers are discarded and scrapped on a systematic basis. If some parts are useful, in other systems they are kept aside for future use.



**Land Scape – Water Schedule**

| MONTH     | NO.OF DAYS | REMARK          |
|-----------|------------|-----------------|
| JUNE      | 15         | ALTERNATE DAYS  |
| JULY      | 6          | ONCE IN A WEEK  |
| AUGUST    | 6          | ONCE IN A WEEK  |
| SEPTEMBER | 10         | TWICE IN A WEEK |
| OCTOBER   | 10         | TWICE IN A WEEK |
| NOVEMBER  | 10         | TWICE IN A WEEK |
| DECEMBER  | 10         | TWICE IN A WEEK |
| JANUARY   | 10         | TWICE IN A WEEK |
| FEBURARY  | 10         | TWICE IN A WEEK |
| MARCH     | 15         | ALTERNATE DAYS  |
| APRIL     | 15         | ALTERNATE DAYS  |
| MAY       | 16         | ALTERNATE DAYS  |

College is concern about water conservation, so the college authority save the runoff of rain water from the terrace of the buildings constructed in the college campus by Rain water harvesting structures. Rooftop of main building is used to collect the rainwater, which is used by department of chemistry for regular practical sessions. The runoff from the unpaved area is intercepted at certain locations by collection trenches. This runoff eventually facilitates groundwater recharge.

Colleges willingly accepted the green practices and strictly follow them. The college conducts campaign for students and faculty to understand the importance of environmental protection and be mindful about saving energy. The authority frequently appeals to the students and faculty to maintain the tradition of no vehicle day on any one day in month. To understand the plant biodiversity of the campus, the college has been conducting census of tree, herbs and shrubs every five years since 2020. As per recent survey (2022), the college campus has rich plant biodiversity having more than 250 + plants. Around 20% of the total campus area covered with plantation more than 250 plants and trees species thus giving pure oxygen to students and staff and making campus green and beautiful.

## Statement of Assurance

The audit has been conducted in accordance with the standard procedures for the professional practice of internal auditing.

In our professional judgement, sufficient and appropriate audit procedures were completed and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations, as they existed at the time of the audit with the established area.

## Methodology of Audit

In order to meet its objectives, this audit combined physical inspection with review of relevant documentation and interactions with departmental staff members and students.

- **Review of the Documentation:** For the purpose of this audit, Green audit framework was reviewed.
- **Interviews:** Interviews were conducted with the principal, departmental faculties and students.
- **Physical Inspection:** The audit team was conduct physical observation in the college campus to inspect the green practices.

## Summary of Findings

The main findings of the audit show that, all the department staff and students are aware about the needed for environmental protection at a general level. It was also observed that a number of best practices such as maintaining the collection of waste separately, introduce rain water harvesting to new building structures, implementing plastic free campus etc. are followed in the college premises.

### **Audit framework and detailed findings**

The following audit framework is used for conducting Green Audit in 2021-22. The frame work also lists the finding and also observations for every criterion.

**Criteria- 1: Deployment of Environment Committee**

**Objective:** Development of the Environment Committee who set the best standards in the field of environmental monitoring system through different activities.

**Activity:** Creating the awareness among all students, staff members & all stakeholders of institute regarding clean & green environment.

**Audit Observation:** For this purpose, college management deployed the some staff members and prepared designated “Environmental Committee” for the year 2021 to 2024. The committee as follows:

**“Environment Committee”**

| Sr. No. | Name of the Members  | Department  | Designation      |
|---------|----------------------|-------------|------------------|
| 1       | Dr. Madhuri S. Patil | Chemistry   | Chairperson      |
| 2       | Prof. B. C. Patil    | English     | IQAC Coordinator |
| 3       | Dr. P. B. Patil      | Zoology     | Member           |
| 4       | Prof. R. B. Deshmukh | Physics     | Member           |
| 5       | Dr, K. B. Patil      | Electronics | Member           |

The above committee members are responsible for conducting different environmental activities from time to time. As evidence, the institute celebrates World Environment Day on 5th June of every year. Institutes involved in Tree plantations in and outside the college, arrangement of Guest lectures on current environment topics, distributing plant species instead of gifts, etc. The committee members continuously spread the deep knowledge regarding the importance of Environment through different competitions like Poster presentation, PPT presentation, Rangoli competitions, and the theme of the same is environment & its factors.

**Criteria- 2 (A): Waste Generation and Management**

**Objective:** Maximize the waste recycled and minimize the quantity of non-recycled refuse.

**Activity:** Segregation of waste

**Audit Observation:** Waste Material is segregated as per category like Paper, Cardboard, Scrap Wood, Scrap Metal, Plastic scrap, glass, laboratory rags etc. Each waste is stored at departmental level and periodically sending to other purposes.

| Type of waste      | Audit Observation  |
|--------------------|--|
| Paper Waste        | <ul style="list-style-type: none"> <li>• One-side rough papers are used for the printing of Notices, Time Tables etc. in each department.</li> <li>• Email and Mobile media communication is used for minimize the use of paper.</li> </ul>  |
| Scrap Material     | <ul style="list-style-type: none"> <li>• Plastic bottles, caps and other waste material are stored separately at departmental level and handover to local scrap vendor system as a scrap material</li> </ul>   |
| Glass Waste        | <ul style="list-style-type: none"> <li>• Empty chemical glass bottles are stored separately and periodically sending as a scrap material to registered agency.</li> </ul>  |
| Construction Waste | <ul style="list-style-type: none"> <li>• In case of small expansion, construction waste is use for land filling and landscaping within the college premises.</li> </ul>  |
| Electrical Waste   | <ul style="list-style-type: none"> <li>• Electrical waste like damaged electrical board, switches, cut wires are collect by electrician and replace this with new one and remaining wastage is sold as scrap.</li> <li>• Electrical waste related to computer, key boards, and mouse is collect by Computer science department for repairing and replaces the damaged one and remaining wastage is sold as scrap.</li> </ul> |

**Criteria- 2 (B): Waste Generation and Management**

**Objective:** Collection of waste.

**Activity:** Students as well as faculties of different department concern about waste collection. They do not throw the paper, plastic and other solid waste in the surrounding premises of college campus.

**Audit Observation:** In addition, separate plastic dustbins (for dry & wet solid waste) are installed at various locations in the college campus for collection of waste including administration office, college campus, garden area etc. Jalgaon Municipal Corporation collects the stored waste on every day.

**Criteria- 2 (C): Waste Generation and Management**

**Objective:** Plastic free Campus.

**Activity:** Motivate students about harm of plastic carry bags and items to convince them for no use of plastic in college premises.

**Audit Observation:** Proper dustbins are provided to each department. To aware all students as well as faculties of different department about “No Use of Plastic” in college campus, awareness boards are display at various location in the college campus.

**Criteria- 3 (A): Water Management & Conservation**

**Objective:** Use of water for drinking purpose.

**Activity:** Provision of water cooler

**Audit Observation:** As a part of an essential facility, a water cooler is installed for the drinking water purpose for students and staff members. Frequent cleaning is also carried out to avoid the contamination and maintain the hygiene condition. The outlet of the water cooler is provided to the near garden area to use the water for gardening purposes and avoid the wastage of water.

**Criteria- 3 (B):** Water Management & Conservation

**Objective:** Water conservation.

**Activity:** Rain Water Harvesting

**Audit Observation:** Surface & roof water harvesting facility is provided to the main building, & college campus ground. Due to this facility, bore wells are charged naturally and the ground water table may increase. Watering in Botanical garden is carried out using the wastewater coming from Botany and Zoology lab. Many plants in the campus are watered using wastewater from drinking water tank. These plants are watered using canals as well as pipes.



**Rain Water Harvesting Area**

| Sr. No. | Name                      | Quantity | Location                            |
|---------|---------------------------|----------|-------------------------------------|
| 1       | Rain water Harvesting Pit | One      | Back side of Bhaskaraacharya Bhavan |
| 2       | Rain water Harvesting Pit | One      | Backside of Chemistry Lab           |

One of medium of harvesting rainwater is providing the incoming rainwater directly to the ground. This will increase ground water table of the location and also helps in achieving the ground water at same or at less level than the existing level. Further, the rainwater is reused in the landscape of campus.

**Water Audit**

(Academic Year 2021-22)

**Water User Profile:**

*Water User Includes students, staff, visitors etc.*

- a. Total number of water users : Approx. 1500
- b. Number of Employee: (Teaching + Non Teaching) = 110
- c. Number of students : 3606
- d. Number of visitors (daily Average) : 15 to 20 Approximately
- e. Average working days: 06 per week
- f. Office timings: 7.30 to 5.30
- g. Rain water harvesting system availability : Yes
- h. Is rainwater harvesting system working? Yes
- i. Daily water supply (liters) :1200 liters approx.

**Assessment of water requirement**

| Sr. No.      | Site                             | Total no. of Sources | Measurement of water Uses (Daily) |                               |                                  |                   |                         |
|--------------|----------------------------------|----------------------|-----------------------------------|-------------------------------|----------------------------------|-------------------|-------------------------|
|              |                                  |                      | Rate of Discharge (Liter/min)     | Average Duration of Use (min) | Average Quantity per use (liter) | No. of Uses (No.) | Total Daily Use (liter) |
| (1)          | (2)                              | (3)                  | (4)                               | (5)                           | (6)                              | (7)               | (8)                     |
| 1.           | Urinals                          | 14                   | 01                                | 2.00                          | 2.00                             | 1500              | 3000                    |
| 2.           | Bathroom                         | 20                   | 01                                | 2.00                          | 2.00                             | 1500              | 3000                    |
| 2.           | Laboratory                       | 17                   | 05                                | 05                            | 25                               | 1000              | 25000                   |
| 3.           | Other (Drinking purpose with RO) | 01                   | 0.50                              | 10                            | 05                               | 1000              | 5000                    |
| 4.           | Gardening Purpose                | 01                   | 10                                | 5                             | 50                               | 100               | 5000                    |
| <b>TOTAL</b> |                                  |                      |                                   |                               |                                  |                   | <b>41000</b>            |



**Water Source & Storage:**

Water from tube-well & Mahanagarpalika is directly pumped to the overhead tank and underground water tank.

**Criteria- 3 (C):** Water Management & Conservation

**Objective:** Water Conservation.

**Activity:** Checking of water sources regularly

**Audit Observation:**

- The storage (overhead/underground tank) checked periodically for any leakage.
- The departmental Tap was checked periodically to prevent from any leakage.
- The leakage Tap replace by new one.

**Criteria- 4 (A):** Energy Consumption (Electrical Energy)

**Objective:** To save the electrical energy.

**Activity:** Installation of “Solar Lamp” at ground of college campus.

**Audit Observation:** College management has a positive approach for the installation of Solar panels to save electrical energy by using natural resources. The environmental committee is in the planning phase for the same. Currently one solar lamp is installed and used for lighting purposes in college campuses.



**Solar Lamp**

**Criteria- 4 (B):** Energy Consumption (Electrical Energy)

**Objective:** To save the electrical energy.

**Activity:** Planning for Installation of LED light at administration.

**Audit Observation:** Currently the college used traditional tube lights (61 nos.), halogen lights (03 nos.) and LED lights (06 nos.). College management is in the planning phase to install the LED lights at the office and laboratories area. It will conserve electrical energy instead of tube lights. College used natural light as maximum in daytime to reduce the load on electricity.

| Particulars  | Tube Lights   | LED's<br>(Tube & Bulb) |
|--|---------------|------------------------|
| Number of Lights   | <b>50</b>     | <b>570</b>             |
| Watt/light   | 40            | 08                     |
| Average Cost/light (Rs.)                                 | 60            | 250                    |
| Initial Investment (Rs.)                                 | 3000          | 142500                 |
| Kwh energy consumed by the lights                        | 14            | 1.75                   |
| Cost of energy (Rs. 5/kwh) (Rs.)                         | 70            | 8.75                   |
| Kwh energy consumed per month<br>8 hours working/22 days | 2464          | 308                    |
| <b>Avg. Cost of energy consumed per month (Rs.)</b>      | <b>12,320</b> | <b>1,540</b>           |

**Average consumption & Cost related to use of lighting system in college premises**

**Criteria- 4 (C):** Energy Consumption (Electrical Energy)

**Objective:** To save the electrical energy.

**Activity:** Conservation of Electrical Energy at Departmental Level

**Audit Observation:**

- All laboratory having panel boards MCB switch to control the electrical supply within the department. The responsibility is given to non-teaching staff to “Switch-off” this switch without any ignorance to avoid the wastage of electrical energy.
- Maximum area of the college building having the sunlight throughout the day. It reduce the burden on electricity. Natural light (Sun light) is use at the practical labs, classroom, admin office, etc.
- Signboards like “Switch off the fans / light when not in use” are displayed in the departments.
- The water pumps are regularly maintained for minimum consumption of electricity.
- College management thoughts about solar panel installation to save the electricity.
- Power saver lights, five star rating AC systems, LCD monitors, Branded fans are used to minimize the consumption.

**Criteria- 5:** Energy Consumption (Transportation)

**Objective:** To save the fuel energy.

**Activity:** Motivate to students and faculties for reduce the use of vehicles in college campus.

**Audit Observation:** The Environmental committee is declared as a “No vehicle day” once a month to minimize the use of personal vehicles within the college campus. Students as well as faculty member’s respond to this theme very well. To motivate and educate the students regarding minimum use of vehicles, the “Cycle Day” programme is arranged by college facilities.

**Criteria- 6:** Energy Consumption (LPG Cylinder)

**Objective:** To save the LPG energy.

**Activity:** Conserve the LPG at departmental Level

**Audit Observation:**

- The gas burners, tubes are checked periodically to prevent the leakages of gas.
- Slow flame is adjusted during the practical work to minimize the excess use of gas.
- The practical is listed as per use and nonuse of LPG.
- The empty cylinder are stored centrally and labeled as “EMPTY”
- The use and requirements of each department about LPG is monitored by concern Lab Attendant.

**Criteria- 7:** Air Quality of the Campus

**Objective:** To assess the air quality of Campus.

**Activity:** The status of ambient air pollution will be monitored by using High Volume Sampler (Envirotech APM 460 BL Reparable Dust Sampler-RDS). SPM samples were collected with the help of a high volume sampler on a cup for 24 hr. with air flow rate of 1- 1.5 m<sup>3</sup> min<sup>-1</sup>. The difference in initial and final weights of the cup and filter paper was given the total quantity of SPM collected over the 24 hr period. Measurement of SO<sub>2</sub> (µg m<sup>-3</sup>) in the ambient air will be

analyzed by the West- Gaeke method (1956) and NO<sub>2</sub> (µg m<sup>-3</sup>) gas by the modified method of Jacob and Hochheisher (1958).



**Ambient Air Monitoring Observations:**

| Location Code       | Locations                 | Parameters      |                 |            |
|---------------------|---------------------------|-----------------|-----------------|------------|
|                     |                           | SO <sub>x</sub> | NO <sub>x</sub> | SPM        |
| S-1                 | Main Gate                 | 30.18           | 58.71           | 218.8      |
| S-2                 | Left Side of the college  | 30.14           | 59.23           | 186.8      |
| S-3                 | Right Side of the college | 31.28           | 59.76           | 192.2      |
| S-4                 | Back side of the college  | 31.65           | 50.06           | 188.5      |
| <b>NAAQS Limits</b> |                           | <b>80</b>       | <b>80</b>       | <b>200</b> |

**Status of Ambient Air Quality within the premises of College**

**Criteria- 8:** Monitoring and Assessment of Noise

**Objective:** To measure the ambient as well as workplace noise within the college campus.

**Activity:** To measure the Noise Quality by Noise Level Meter.

**Audit Observation:**

Noise has been recognized as ambient air pollutant. Standards in this regards are laid down under Environment (protection) rules, 1986.

| Sr. No.  | Category of Zone    | Permissible Limits dB (A) Leq |            |
|----------|---------------------|-------------------------------|------------|
|          |                     | Day Time                      | Night Time |
| 1        | Industrial Zone     | 75                            | 70         |
| 2        | Commercial Zone     | 65                            | 55         |
| 3        | Residential Zone    | 55                            | 45         |
| <b>4</b> | <b>Silence Zone</b> | <b>50</b>                     | <b>40</b>  |

**Permissible Limit of Noise in Different Zones**

- The permissible limits are count as per the zones. The noise monitoring generally carried out at day time and at night time.
- The day timing is considered as morning 06:00 am to night 10:00 pm and the night timing consider as night 10:00 pm to morning 06:00 am.
- As per the observations are recorded the day time and night time standards are used for the comparisons.
- Zone assortment may be carried out by Municipal Authority of that particular locations or city.
- Hospitals, **Educational Institutes**, Governmental offices, Session courts and Police Stations include in “Silent Zone”
- So “Silent Zones” standards (Day Time only) used for the comparisons.

| Sr. No. | Locations               | Noise Level in dB (A) |            | MPCB Limits |
|---------|-------------------------|-----------------------|------------|-------------|
|         |                         | Day Time              | Night Time | Silent Zone |
| 1       | Main Entrance           | <b>74.2</b>           | NA         |             |
| 2       | Central Point of Ground | <b>69.6</b>           | NA         |             |
| 3       | Entrance Main Building  | <b>67.8</b>           | NA         |             |
| 4       | Principal’s Cabin       | 51.5                  | NA         |             |
| 5       | Faculty Staff room      | 42.4                  | NA         |             |
| 6       | Library (Office)        | 39.1                  | NA         |             |

|                   |                        |      |    |
|-------------------|------------------------|------|----|
| 7                 | Library (Reading Room) | 37.6 | NA |
| 8                 | Botany Laboratory      | 46.3 | NA |
| 9                 | Admin Office           | 49.6 |    |
| 10                | Chemistry Laboratory   | 52.6 | NA |
| 11                | Geography Laboratory   | 51.9 | NA |
| 12                | Physcis Laboratory     | 49.4 | NA |
| 13                | Backside of college    | 52.8 | NA |
| <b>Classrooms</b> |                        |      |    |
| 14                | Class Room No. 1       | 53.8 | NA |
| 15                | Class Room No. 3       | 55.2 | NA |
| 16                | Class Room No. 5       | 53.9 | NA |
| 17                | Class Room No. 7       | 56.4 | NA |
| 18                | Class Room No. 10      | 51.3 | NA |

**Observation of Noise Level Monitoring (A)**

Except Main gate, center point of ground and main entrance of building, all other observations are within the prescribed limits of Environment (protection) rules, 1986. Due to nearby areas the noise level high at Main gate and Centre point of ground.

**Criteria- 9:** Green Campus with Botanical Garden

**Objective:** To increase the Green Cover with different tree/plant species within the college campus in the form of botanical garden.

**Activity:** Develop & maintained the botanical garden. Tree plantation in and near by area of college.

**Audit Observation:** College & staff members are taking the efforts to develop & maintain the botanical garden within the college premises. Total 33 plant species with different families are present in the botanical garden. The details are shown in the table below. To understand the plant biodiversity of the campus, the college has been conducting a census of trees, herbs and shrubs every five years since 2020. As per recent survey (2023), the college campus has rich plant biodiversity having 250 + plants. List of the plants is mentioned below:

| Sr. No. | Botanical Names              | Family         | Common Name    | Total in campus |
|---------|------------------------------|----------------|----------------|-----------------|
| 1.      | <i>Azadiracta indica</i>     | Meliaceae      | Kaduneem       | 44              |
| 2.      | <i>Caryota urens</i>         | Arecaceae      | Bottle Palm    | 25              |
| 3.      | <i>Cocus nucifera</i>        | Arecaceae      | Coconut        | 02              |
| 4.      | <i>Polyalthia longifolia</i> | Annonaceae     | False Ashok    | 20              |
| 5.      | <i>Tecoma stans</i>          | Bignoniaceae   | Yellow Bell    | 02              |
| 6.      | <i>Murraya paniculata</i>    | Rutaceae       | Kamini         | 04              |
| 7.      | <i>Annona squamosa</i>       | Annonaceae     | Sitaphal       | 02              |
| 8.      | <i>Citrus ourientinum</i>    | Rutaceae       | Lemon          | 02              |
| 9.      | <i>Laecuna lucocephala</i>   | Mimosaceae     | Subabhul       | 10              |
| 10.     | <i>Thuja occidentalis</i>    | Cuprassaceae   | Mayur Pankhi   | 03              |
| 11.     | <i>Delonix regia</i>         | Caesalpinaceac | Gold Mohar     | 11              |
| 12.     | <i>Phyllanthus emblica</i>   | Euphorbiaceac  | Avla           | 03              |
| 13.     | <i>Acharus sapota</i>        | Sapotaceae     | Chiku          | 02              |
| 14.     | <i>Melingtonia hortensis</i> | Bignoniaceac   | Buch           | 02              |
| 15.     | <i>Psidium gauva</i>         | Myrtaceae      | Peru           | 02              |
| 16.     | <i>Dalbergia sisoo</i>       | Fabaceae       | Sisam          | 20              |
| 17.     | <i>Gmelina arborea</i>       | Verbinaceae    | Shivan         | 02              |
| 18.     | <i>Pithecelbium dulce</i>    | Mimosaceae     | Vilaiti chinch | 05              |
| 19.     | <i>Ficus glomerata</i>       | Moraceae       | Umber          | 10              |
| 20.     | <i>Albezia lebbec</i>        | Mimosaceae     | Shiris         | 09              |
| 21.     | <i>Terminalia catapa</i>     | Combretaceac   | Badam          | 05              |

|     |  |                |              |              |
|-----|--|----------------|--------------|--------------|
| 22. | <i>Tamarindus indica</i>                 | Caesalpinaceae | Chinch       | 05           |
| 23. | <i>Eucalyptus globulus</i>               | Myrtaceae      | Nilgiri      | 04           |
| 24. | <i>Peltophorum peltocarpum</i>           | Caesalpinaceae | Peltophorum  | 17           |
| 25. | <i>Cassia fistula</i>                    | Caesalpinaceae | Amaltas      | 02           |
| 26. | <i>Mangifera indica</i>                  | Anacardiaceae  | Mango        | 02           |
| 27. | <i>Ficus bengalensis</i>                 | Moraceae       | Vad          | 08           |
| 28. | <i>Thavethia nerifolia</i>               | Apocynaceae    | Yellowkanher | 04           |
| 29. | <i>Alstonia scholaris</i>                | Apocynaceae    | Saptapurne   | 10           |
| 30. | <i>Caesalpinia pulcherrima</i>           | Caesalpinaceae | Shankasur    | 02           |
| 31. | <i>Ixora coccinia</i>                    | Rubiaceae      | Ixora        | 02           |
| 32. | <i>Rosa indica</i>                       | Rosaceae       | Rose         | 05           |
| 33. | <i>Hibiscus rosasinensis</i>             | Malvaceae      | Jaswand      | 02           |
| 34. | <i>Bougainvillea spectabilis</i>         | Nyctaginaceae  | Bogenvel     | Hedge plants |
| 35. | <i>Pongamia Pinnata</i>                  | Fabaceae       | Karanj       | 02           |
| 36. | <i>Ocimum Tenuiflorum</i>                | Lamiaceae      | Tulsi        | Bush         |
| 37. | <i>Ornamental plants in earthan pots</i> |                |              |              |

**Some Plant Species available in the Botanical Garden**





### Facilities available at College Premises

- College provided Sanitary Napkin Vending & Disposal machine at girl’s washroom.
- Arrangement of walkway ramp for physically handicap students.
- Separate & clean washrooms, urinals, toilets for students & staff members.
- College provides sufficient numbers of Fire Extinguishers at every laboratories, adminbuilding, corridors etc.



Sanitary Napkin Vending & Disposal Machine



Fire extinguisher Ball and cylinder

**Best Practices conducted by the College**

- College celebrates “World Environment Day” on 5<sup>th</sup> June every year.
- The Environment Committee every year has been managed a programme on tree plantation and their nurturing to aware the students and the nearby society about the maintenance of the environment. The result is that, they have a beautiful green campus.
- World Ozone Day is celebrated each year on 16<sup>th</sup> September to spread the awareness among the students about the depletion of the ozone layer and to take certain steps for the solution of the problem.
- College management, Members of Environment Committee believe that, our environment is becoming increasingly contaminated because of the technological development. To aware the people and students about it, Earth Day is celebrated on 22 April every year.
- College provides Fire Extinguishers at science laboratories to tackle the fire emergency.
- The college has been taken initiative to make pollution free campus from the year 2020-21. The college started “No Vehicle Day” once in a month to reduce the air pollution and noise pollution.
- The college also tries to prohibited mobile ban or limited use of mobile in the college campus. The mobiles of official persons kept on silent mode in the college campus.
- The college also invited guest to delivered lecture on environment topics.
- For all students of first year, university has started Environmental Studies to aware the students to conserve of environment.
- The college has also kept dustbins at different places. The separate store room is created to keep all the dead stock material of the college.
- The college planted trees around the campus are to reduce pollution.
- The college also organizes Fire Cracker less campaign in the city.
- The wastages are not burns and it is composed in the vermicomposting pit.
- The roof water harvesting is implemented in the college campus.

**Photographic Plate**



**Library Reading Room – Utilize Natural Light**



**Admin Office Cabin – Utilize LED Light**

### Recommendations

Following the audit, some recommendations were made to the college authority by external audit team.

| <b>Sr. No.</b> | <b>Criteria</b>         | <b>Recommendations</b>  |
|----------------|-------------------------|---|
| 1.             | Illumination Monitoring | It is recommended that to conduct the Illumination study to check the light intensity with in college campus.   |
| 2.             | Vehicles                | Monitoring the PUC of every vehicle within the campus at least once in a year to minimize the vehicular pollution load.   |
| 3.             | Firefighting Training   | It is recommended that, firefighting training must be provided to lab assistants of science laboratories & official persons from admin block from external competent agency to tackle the fire emergency. |

### Declaration

I agree with all the recommendations and observations mentioned in this report.

Original signed with college seal by,

**Dr. L. P. Deshmukh**  
**(Principal)**