



Nanded Education Society's
Science College, Nanded

Tel: 02462-250 465, 251 648

www.sciencecollegenanded.org

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

(Reaccredited with "A" grade by NAAC with (CSPA 3.3B)

3rd Cycle, CPE Status, DST-FIST, Best College Award (SRTMUN)

SELF STUDY REPORT
FOR
IV CYCLE OF REACCREDITATION



Criteria- VII

Institutional Values and Best Practices

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution.

The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion and sustainability activities



R. No. F-12, 1962, 26/06/1950
UMF 1261, 13/10/1661

NANDED EDUCATION SOCIETY'S

SCIENCE COLLEGE, NANDED

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

(Re-accredited with "A" grade by NAAC (CGPA 3.38) 3rd Cycle, CPE Status, DST-FIST,

NIRF Ranking-72 (Year - 2017), Best College award SRTMUN)

P.O.Box No. 62, Sneh Nagar, Nanded - 431605 (MS, India) P (O) 02462 251648, 250465 Fax.02462 250465

Email: principal@sciencecollegennd.org, sciencecollege1950@gmail.com Web: www.sciencecollegennd.org

Policy Document *On* **Environment and Energy Usage**

Science College, Nanded has an environment and energy usage policy that aims to manage energy in a methodical manner to reduce its environmental impact. In order to lighten the strain on the government and identify alternative natural resources to address the energy issue, the strategy suggests investigating renewable energy sources.

This environment and energy policy is binding for all the components of the institution and applies to all its stakeholders and to the various activities undertaken by the institution. It will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to conservation. **The Eco-friendly Committee of Science College is supposed to take care of environmental awareness and control on energy usage and to undertake green initiatives, and to conduct green campus activities.**

Policies:

- To evaluate our energy use and quantify its environmental impact.
- To lower emissions of local air pollution by utilizing eco-friendly automobiles, such as bicycles, public transportation, and pedestrian-friendly roadways.
- To put in photovoltaic solar panels in order to produce alternative energy.
- To install energy-saving LED lighting throughout the entire campus.
- To create a methodical waste management system.
- To create a rainwater collection system.
- To start a tree-planting campaign.
- To implement extra steps to progressively reduce our energy usage.
- To conduct green audit and energy audit.
- To conduct Best from Waste Competitions.
- To conduct various eco-friendly programme.
- To guarantee that the resources required to meet our goals are available.
- To promote the adoption of cutting-edge technologies to reduce air pollution, noise, and energy consumption, especially from our vehicle fleets.



[Signature]
Principal
N.E.S. Science College.
Nanded

Vision: "To Educate and Transform the Youth to Touch Life at All Points with Human Values."



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- To communicate with the government agencies, municipal corporation and the affiliating university and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To check and respond to emerging environmental and energy issues. To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To offer opportunities for training and information on energy-saving techniques.
- To provide chances for staff members and students to participate in environmental preservation efforts.
- To train our staff members and students to become "Go Green Specialists" and to plant trees annually via the efforts of our Eco-friendly Committee.

The policy will be shared with students and staff through internal communication channels and will be accessible to all stakeholders via the institution's website. The Eco-friendly Committee convener and its members, under the guidance of the college Principal, will regularly review the Environment and Energy Policy, its objectives, and targets.



Principal
N.E.S. Science College,
Nanded



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❖ Action Taken for Clean and Green Campus and Achievements ❖

Science College is deeply dedicated to promoting environmental sustainability and responsible living practices in addition to its core educational goals. The institution has integrated a thorough Green, Energy, and Environment Audit into its policy framework to prioritize environmental responsibility.

The institution has conducted external audits to acknowledge its commitment to sustainable development. In recognition of these efforts, the institution underwent an Environmental Audit for the year 2020-2021 and 2022-2023 conducted by Kedar Khamitkar and Associates, Latur. The college eco-friendly committee has taken care of institution's environmental practices, energy and water resource management, and overall green initiatives.

Action Taken on the detailed reports from the external agency are meticulously examined by institutional leaders, prompting the adoption of corrective actions and interventions aimed at improving the institution's sustainability practices. This comprehensive approach highlights the institution's dedication to reducing its environmental impact and advocating for a sustainable and livable planet.

The Eco-friendly Committee organized every year

- State Level Best from Waste Competition
- Eco-friendly Holi and Diwali
- "Da Dudhacha"-Say No to Addiction for the public awareness.
- Tree Plantation Programmes
- "Swachata Abhiyan"
- Snake Awareness Camps
- IQAC organized Petroleum Conservation Research Association, Ministry of Petroleum & Natural Gas, Govt. of India, and Nanded Education Society's Science College, Nanded, Maharashtra, have organized as a joint initiative, an Institutional Training Programme on December 26, 2022, at 12:30 p.m. on the topic "Energy Sources for Sustainable Development."
- E-waste Management Drive
- Waste Water Management System
- Plastic Waste Management Programme



Hankes
Principal
N.E.S. Science College
Nanded

Cont'd

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Vision: "To Educate and Transform the Youths to Touch Life at All Points with Human Values."



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Email: principal@sciencecollegennd.org, sciencecollege1950@gmail.com Web: www.sciencecollegennd.org

- Water Harvesting Plants
- Seismic Centre
- One Day Workshop on Water Conservation "Catch the Rain Where it Falls, When it falls"
- Bio gas Plant
- Vermi-Compost Unit



Principal
N E.S.Science College.
Nanded

Achievement Report as Clear and Green Campus

| Executive Committee: | | Patrons: | |
|------------------------|----------------------|------------------------------|---|
| Dr. D.D. Pawar | Dr. C. S. Bhavre | Dr. Venkatesh Kulkarni | President, Nanded Education Society, Nanded |
| Dr. S.R. Pingalkar | Dr. N. P. Pawar | Adm. Chaitanyashree Deshmukh | Vice-President, Nanded Education Society, Nanded |
| Dr. Mrs. A.R. Shinde | Mrs. V. D. Borgankar | Smt. Shyamal Patil | Secretary, Nanded Education Society, Nanded |
| Dr. K.N. Mulkewar | Dr. A. P. Borkar | CA. Dr. Pravin Patil | Joint Secretary, Nanded Education Society, Nanded |
| Dr. Mrs. V.V. Kulkarni | Dr. S.L. Jadhav | | |

| Members: | |
|---------------------|---------------------|
| Dr. A.S. Bhatnagar | Mr. J. C. Bhargava |
| Mr. P.S. Sankar | Mrs. S.J. Gaur |
| Dr. V.R. Chavan | Dr. S. V. Mawar |
| Dr. P.S. Borkar | Dr. S. S. Patil |
| Mrs. S.M. Waigankar | Mr. S. S. Amburkhan |

| Advisory Committee: | |
|---------------------|-------------------|
| Dr. M.A. Joshi | Dr. R. A. Pathan |
| Mrs. C.B. Chavan | Mr. T.M. Kulkarni |

| Schedule: | | |
|-----------|----------------------|--|
| No. | Time | Programme |
| 1. | 9:00 am to 10:00 am | Registration |
| 2. | 10:00 am to 11:00 am | Inaugural Function |
| 3. | 11:00 am to 11:15 am | Break |
| 4. | 11:15 am to 2:15 pm | 1 st Session |
| 5. | 2:15 pm to 2:45 pm | Break |
| 6. | 2:45 pm to 3:30 pm | Voluntary Services Certificate distribution |

| Prizes for Sr. College | |
|------------------------|------------|
| 1 st | Rs. 2000/- |
| 2 nd | Rs. 1500/- |
| 3 rd | Rs. 1000/- |

| Prizes for High School & College | |
|----------------------------------|------------|
| 1 st | Rs. 2000/- |
| 2 nd | Rs. 1500/- |
| 3 rd | Rs. 1000/- |

Contact :
Dr. L. P. Shinde
 N.E.S. SCIENCE COLLEGE, NANDED
 Mob. No. - 921240636



Eco-Friendly Committee
 NANDED EDUCATION SOCIETY'S
 SCIENCE COLLEGE, NANDED

"Best from Waste"
 State Level Competition
 Date: 25/01/2020



Organized by:
Eco-Friendly Committee
 N.E.S. SCIENCE COLLEGE, NANDED
 (Recognized by NMAC with 'A' grade & UFA, UBU, CPC Status)
 P.O.Box No. 62, South Nagar, Nanded - 431001
 Web: www.sciencecolnanded.org



Principal
 N.E.S. Science College,
 Nanded

State Level Best from Waste Competition organized every year

| Executive Committee: Dr. D. D. Pawar Dr. C. S. Bhawne Dr. S. R. Pingalkar Dr. N. P. Pawar Dr. Mrs. A. R. Shukla Mrs. V. D. Borjankar Dr. K. S. Shillewar Dr. A. P. Borjankar Dr. Mrs. V. V. Kulkarni Dr. S. L. Jadhav | | Honorary: Dr. Venkatesh Kabde President, Nanded Education Society, Nanded Adv. Chaitanyabapu Deshmukh Vice-President, Nanded Education Society, Nanded Saw. Shyamal Patki Secretary, Nanded Education Society, Nanded CA. Pravin Patil Joint Secretary, Nanded Education Society, Nanded | |  Eco-Friendly Committee, NANDED EDUCATION SOCIETY'S SCIENCE COLLEGE, NANDED. "BEST FROM WASTE" STATE LEVEL COMPETITION DATE: 28/02/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---|------|--|--------|---------------------|--------------|-----------------|----------------------|---|----|----------------------|-------|----|---------------------|---------------------------|----|--------------------|-------|----|--------------------|--|---|--|--------|-----|-----------------|--------|-----------------|--------|-----------------|-------|
| Members Dr. A. S. Bamode Mr. J. C. Bhagure Mr. P. S. Sankar Dr. S. S. Peldar Dr. V. B. Chavan Dr. S. V. Warve Dr. P. S. Borkar Dr. R. V. Sagvkar Mrs. S. M. Waigankar Mr. N. S. Ambarkhane | | Organizing Committee: Convener : Dr. D. U. Gawai, Principal Organizing Secretary : Dr. L. P. Shinde | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Advisory Committee: Dr. R. A. Pathani Dr. P. P. Sharma Mr. S. V. Gaagakhedkar Mr. E. M. Khillare | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schedule: <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Time</th> <th>Programme</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>9.00 am to 10.00 am</td> <td>Registration</td> </tr> <tr> <td>2.</td> <td>10.00 am to 11.00 am</td> <td>Inaugural Function</td> </tr> <tr> <td>3.</td> <td>11.00 am to 11.15 am</td> <td>Break</td> </tr> <tr> <td>4.</td> <td>11.15 am to 2.15 pm</td> <td>1st - Session</td> </tr> <tr> <td>5.</td> <td>2.15 pm to 2.45 pm</td> <td>Break</td> </tr> <tr> <td>6.</td> <td>2.45 pm to 3.30 pm</td> <td>Valedictory function Certificate distribution</td> </tr> </tbody> </table> | | Sr. No. | Time | Programme | 1. | 9.00 am to 10.00 am | Registration | 2. | 10.00 am to 11.00 am | Inaugural Function | 3. | 11.00 am to 11.15 am | Break | 4. | 11.15 am to 2.15 pm | 1 st - Session | 5. | 2.15 pm to 2.45 pm | Break | 6. | 2.45 pm to 3.30 pm | Valedictory function Certificate distribution | Prizes for Sr. College <table border="1"> <thead> <tr> <th>Prizes</th> <th>Rs.</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>2000/-</td> </tr> <tr> <td>2nd</td> <td>1000/-</td> </tr> <tr> <td>3rd</td> <td>500/-</td> </tr> </tbody> </table> | | Prizes | Rs. | 1 st | 2000/- | 2 nd | 1000/- | 3 rd | 500/- |
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| 3 rd | 500/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prizes for High School / Jr. College <table border="1"> <thead> <tr> <th>Prizes</th> <th>Rs.</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>1000/-</td> </tr> <tr> <td>2nd</td> <td>500/-</td> </tr> <tr> <td>3rd</td> <td>300/-</td> </tr> </tbody> </table> | | Prizes | Rs. | 1 st | 1000/- | 2 nd | 500/- | 3 rd | 300/- | Contact : Dr. L. P. Shinde N.E.S. SCIENCE COLLEGE, NANDED Mob. No. 9421390638 | | | | | | | | | | | | | | | | | | | | | | |
| Prizes | Rs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 st | 1000/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | 500/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | 300/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Organized by: Eco-Friendly Committee N.E.S. SCIENCE COLLEGE, NANDED (Re-accredited by NAAC with 'A' grade (CGPA 3.38), CPE Status) P.O. Box No. 62, Sneh Nagar, Nanded - 431605 Web: www.sciencecollgennnd.org | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Principal
 N.E.S. Science College,
 Nanded

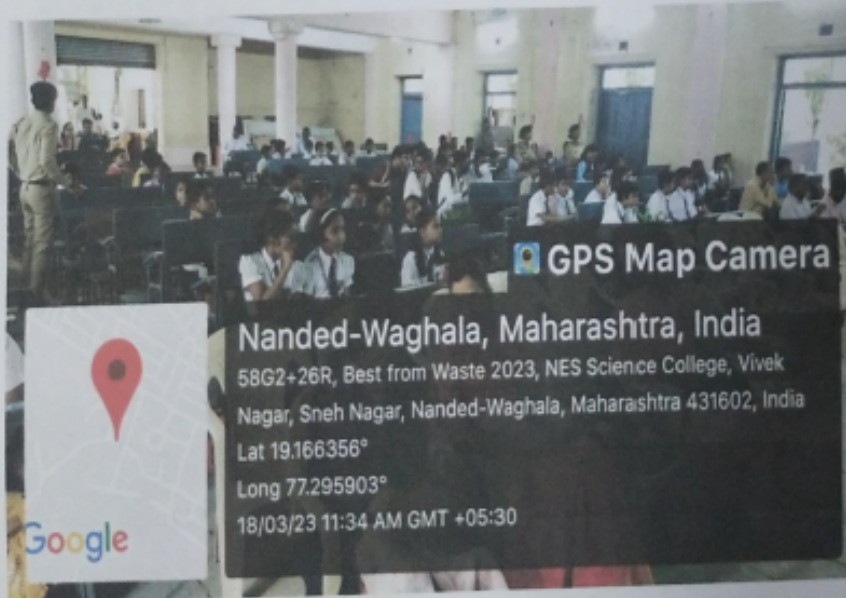
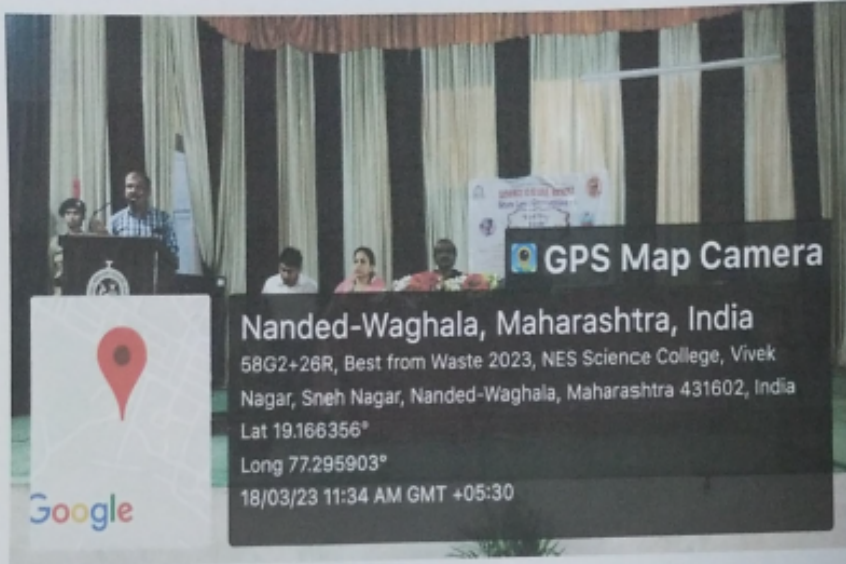
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|--|--|---|--|--|
| Organizing Committee: Mr. P.S. Sankar Mr. R.A. Manohar Dr. V.B. Charan Dr. Mrs. A.R. Shukla Dr. P.S. Borkar Dr. Mrs. S.D. Wadje Mr. S.N. Bardsi Mr. S.T. Gore | | Patron: Dr. Venkatesh Kabde President, Nanded Education Society, Nanded CA. Dr. Pravin Patil Vice-President, Nanded Education Society, Nanded Srs. Shyamal Patil Secretary, Nanded Education Society, Nanded Shri. Prafullakumar Agrawal Joint-Secretary, Nanded Education Society, Nanded | |  HANDED EDUCATION SOCIETY'S SCIENCE COLLEGE, NANDED. State Level Competition on "Best from Waste" Date: 24/05/2022 Time: 10:00 am  Organized by: Eco-Friendly Committee N.E.S. SCIENCE COLLEGE, NANDED <small>Re-recognized by NMAC with 'A' grade IC2194-3306170 Nanded (2020th No. 42, Sixth Floor, Nanded - 431005 Web: www.sciencecollge.nanded.org</small> |
| Advisory Committee: Dr. A.T. Shinde Mr. E.M. Khillare Dr. D.D. Pawar Dr. S.R. Pagarkar Dr. B.D. Garbade Dr. K.S. Shilkar Dr. Mrs. V.V. Kulkarni Mrs. U.D. Burjankar Dr. A. P. Borikar Dr. S.L. Jadhav Mrs. J.D. Rautakar | | Organizing Committee: Convener : Dr. D. U. Gawai, Principal Organizing Secretary : Dr. L. P. Shinde Joint-Organizing Secretary : Dr. A.S. Bansode | | |





 Contact:
Dr. L. P. Shinde
N.E.S. SCIENCE COLLEGE, NANDED
9520219420@nanded



Principal
 N.E.S. Science College,
 Nanded




Principal
N E. S. Science College,
Nanded


Eco-friendly Holi and Diwali

Campaigning of Eco-friendly Diwali celebration on D. 15/11/2017 to protect environment particularly animals, birds, children's and patients from sound and smoke pollution. The children's have been advised to save money and donate needy persons instead of spending in crackers.




Ecofriendly "Holi Festival" Celebration - 2018.




Principal
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Eco-friendly Holi celebrated on D. 06/03/2023





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


Tree plantation in the campus was organized on D. 13/07/2017 in collaboration with Nanded Waghala Municipal Corporation, Nanded. Around four thousand saplings of various species have been planted with the auspicious hands of Municipal Commissioner, Mr. Deshmukh, Mayer Mrs. Sailaja Swami and other dignitaries from various Political parties and office bearers of Municipality. Teachers and students also participated in plantation of trees.




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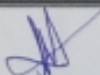

Principal
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Tree plantation on D. 05/06/2018



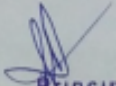
Bio-gas plant




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Tree Plantation




Principal
N.E.S. Science College,
Nanded

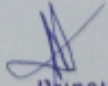
Tree Plantation on D. 03/03/2022



- "Swachata Abhiyan"

On the occasion of Sant Gadgebaba Jayanti Plastic free environment and cleaning campaign were organised on 20 December 2017 in the college campus and near by area.




Principal
N.E.S. Science College,
Nanded

प्लॉस्टेक उचला अभियानास प्रतिसाद

नागरी कृती समिती, सायन्स कॉलेजच्या विद्यार्थ्यांचा सहभाग

सोबत, गा. २० (बाबरीपार)
 नागरी कृती समिती आणि सायन्स
 कॉलेजच्या दाराशी प्लॉस्टेक वॉन
 सुपरमार्केट (गा. १०) परिसराला मुळा
 पत्रात वा वेळोवेळी स्वच्छतेचा मुळा हाता
 अभियान राबविले जाते.

सायन्स कॉलेज परिसरा,
 विविध शाळा, कॉलेज व परिसरातील
 परिसरातील अभियानांना सहकार्य
 जाते. या वेळी नागरी कृती समिती
 अंतर्गत कामे सायन्स कॉलेजच्या व
 महाशाळांमध्ये परिसरातील, जवळपास
 रंगभंगूळी वापरते. सहकार्य जवळपास
 ते मुळा परिसराला आनी, रंगभंगूळी
 व रंग, जवळपास परिसराला
 व मलमल परिसराला परिसराला
 व जवळपास आते. नागरी कृती
 व आवाहन हाता परिसराला वारा
 जाते. सोबत सायन्स कॉलेज

मुळा वारे परिसराला व मुळा
 जवळपास आते. नागरी कृती
 परिसराला, इतर, जवळपास
 स्वच्छतेचा मुळा हाता
 परिसराला विद्यार्थ्यांनी वारा
 व जाते. नागरी कृती
 नागरी कृती परिसराला वारा
 परिसराला वारा जाते. नागरी कृती
 व अभियानात सहकार्य जाते व
 हाता स्वच्छतेचा मुळा हाता
 प्रसारित जाते. सोबत
 जाते. नागरी कृती
 परिसराला वारा जाते. नागरी कृती
 परिसराला वारा जाते. नागरी कृती
 परिसराला वारा जाते. नागरी कृती



सोबत : सायन्स कॉलेज, नागरी कृती समितीचे परिसराला अभियान राबविले जाते.

अभियानात सहकार्य जाते. नागरी कृती
 परिसराला वारा जाते. नागरी कृती
 परिसराला वारा जाते. नागरी कृती
 परिसराला वारा जाते. नागरी कृती

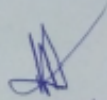
Swacchata Abhiyan by NCC cadets on D. 26/12/2020



Principal
 N.E.S. Science College,
 Nanded

Swacha Bharat Abhiyan organized at SRTM University Nanded on D. 23/10/2021




Principal
N.E.S. Science College,
Nanded

NCC cadet Unit Celebrated "Swachata Abhiyan" in the month of 10 Dec 2021 college campus



NCC unit cadets conducted The Campus Cleaning Activity on the occasion of Women's Day on D. 08 March 2023.



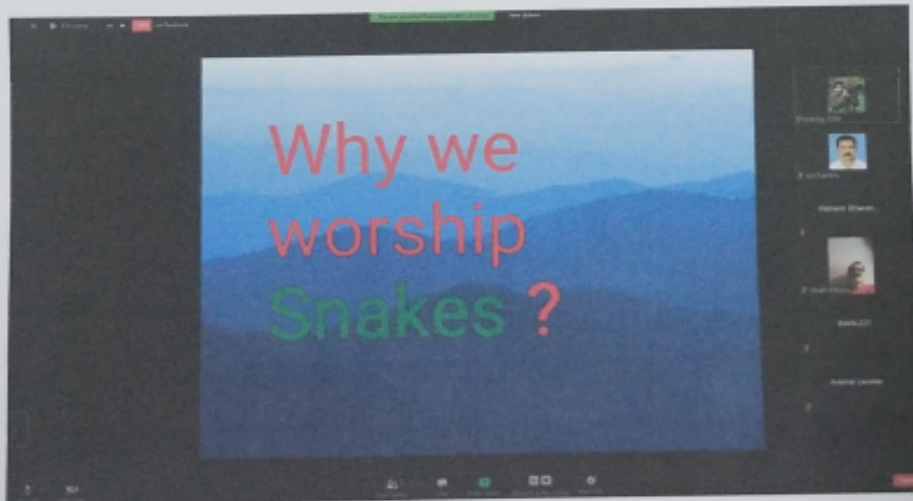
Principal
N.E.S. Science College,
Nanded

- Snake Awareness Camps

The conservation and protection of animals is need of the hour in our country particularly snakes in the environment. The different varieties of poisonous and non poisonous snakes were displayed in the form of poster presentation in the campus and in different places like High schools and colleges so as to make aware of snakes and their role in the environment.

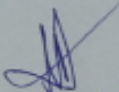


Snake Awareness Programme on D. 24/07/2020



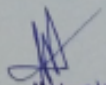
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Principal
N.E.S. Science College,
Nanded



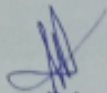

Principal
N.E.S. Science College
Nanded

- Waste Water Management System



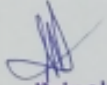

Principal
N.E.S. Science College,
Nanded



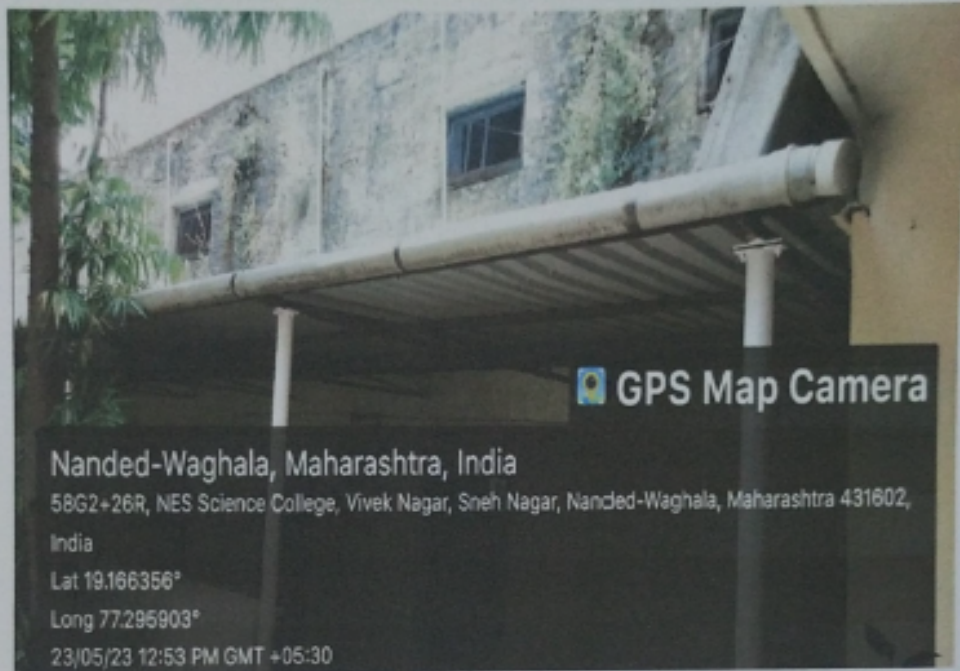

Principal
N E.S. Science College.
Nanded

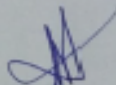
- Plastic Waste Management Programme




Principal
N.E.S. Science College,
Nanded

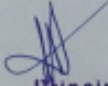
- Water Harvesting Plants




Principal
N E.S.Science College.
Nanded


- One Day Workshop on Water Conservation "Catch the Rain Where it Falls, When it falls"




Principal
N.E.S. Science College,
Nanded

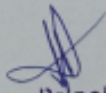
- Bio gas Plant




Principal
N E.S.Science College.
Nanded

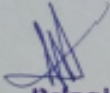
- Bio gas Plant




Principal
N E.S. Science College.
Nanded

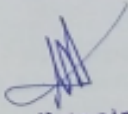
- Vermicompost Unit




Principal
N E.S. Science College.
Nanded

- Water Harvesting Plants




Principal
N E.S. Science College,
Nanded

Certificates of Green and Energy Audit 2020-2021 and 2022-2023

❖ Energy Audit Certificate ❖

This is to certify that following utility has carried out College building Energy Audit .
in recognition of the organizations efforts for sustainable development.

| | |
|------------------------|---|
| Name of the Institute | : SCIENCE COLLEGE, NANDED (Maharashtra) |
| Date of Energy Audit | : 26/12/2022 |
| Name of Energy Auditor | : KEDAR KHAMITKAR Certified by BEE (Bureau of Energy Efficiency) Ministry of Power, Govt. of India |
| Registration No | : EA - 8287 |

Empaneled Energy Auditor & Planner

Reg. no. MEDA/ENCR-11/2019-21/EA-17

महाराष्ट्र कृषि विकास आयोग
(Govt. of Maharashtra Institutions)



Kedar
Kedar Khamitkar
Energy Auditor CEA-8287
Certified by BEE,
Ministry of Power, Govt. of India



ISO 9001-2015 Certified



Kedar Khamitkar & Associates, Latur
Empaneled with Maharashtra, Govt of Maharashtra Institution

Certificate No : KKA/2022-23/EA/017



Note : Certificate is based on organisation compliance on energy audit recommendations and continual maintenance of the system & conduction of surveillance audit

Green Audit Certificate

This certificate has been awarded to

M/s Science College
Nanded (Maharashtra)

in recognition of the organizations efforts for
sustainable development.

Empaneled Energy Auditor & Planner

Reg no. MEDA/ECNCR-14/2020-23/EA-17

महाराष्ट्र ऊर्जा विभाग अंतर्गत
Govt. of Maharashtra Institution



Kedar C. Khamitkar
Kedar Khamitkar
Energy Auditor CEA-8287
Certified by BEE,
Ministry of Power, Govt. of India



ISO 9001-2015 Certified



Kedar Khamitkar & Associates, Latur
Empaneled with Mahaurja, Govt of Maharashtra Institution

Certificate No : KKA/2022-23/GA/016

Issued Date : 26/12/2022

Kedar Khamitkar & Associates, Latur
Empaneled with Mahaurja, Govt of Maharashtra Institution



ऊर्जा संवर्धन
OR...
संरक्षण...

Note: Certificate is based on organization compliance of BEE audit recommendations and annual maintenance of the system. Production of surveillance audit

Mrs. Rashmi Joshi

Consultant - Solid Waste Management
Engin. Guidance on Composting
and E-Waste Collection



4B/141, Yoganand Society, Vazira Naka,
L.T.Road, Borivali(w), Mumbai - 400092

rashmijoshi72@rediffmail.com

+91 98195 99851

Date: 08/07/2022

To
The Principal,
Science College,
Nanded.

Sub : Letter of Appreciation for your contribution towards green environment.

Respected Sir,

I take this opportunity to congratulate the Principal, Dr.D.U.Gawai and Coordinator, Dr.Mrs.Sangita S. Modi, taking initiative for E-waste disposal from your college, since 1st July 2022.

I would like to thank you for the efforts you have put for the proper disposal of E-waste.

E-waste collected from your College has been recycled in environment friendly manner.

It has been a great pleasure to be associated with you and look forward to working with you for other E-waste Management campaign.

Best Wishes

R. M. Joshi

Rashmi Joshi
Environment Consultant




[Handwritten Signature]

Principal
N.E.S. Science College,
Nanded

! Garbage to Green !

❖ Energy Audit Certificate ❖

**This is to certify that following utility has carried out
College building Energy Audit
in recognition of the organizations efforts for
sustainable development.**

| | |
|--|---|
| Name of the Institute | : Nanded Education Society's SCIENCE COLLEGE, NANDED (Maharashtra) |
| Date of Energy Audit | : 26.12.2022 |
| Name of Energy Auditor | : KEDAR KHAMITKAR Certified by BEE (Bureau of Energy Efficiency) Ministry of Power, Govt. of India |
| EA Certificate No . EA/12/2022/26/SCN | :  |

Empaneled Energy Auditor & Planner

महाराष्ट्र ऊर्जा विकास अभिकरण
(Govt. of Maharashtra Institution)



Kedar
Kedar Khamitkar
Energy Auditor CEA-8287
Certified by BEE,
Ministry of Power, Govt. of India



Kedar Khamitkar & Associates, Latur
Empanelled with Mahaurja, Govt of Maharashtra Institution




ISO 9001-2015 Certified



Note : Certificate is based on organisation compliance on energy audit
recommendations and continual maintenance of the system & conduction of surveillance audit

❖ Energy Audit Certificate ❖

This is to certify that following utility has carried out
College building Energy Audit
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| | |
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| Name of the Institute | : Nanded Education Society's SCIENCE COLLEGE, NANDED (Maharashtra) |
| Date of Energy Audit | : 26.12.2022 |
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| EA Certificate No . EA/12/2022/26/SCN | :  |

Empaneled Energy Auditor & Planner

महाराष्ट्र उर्जा विकास अभिकरण
(Govt. of Maharashtra Institution)



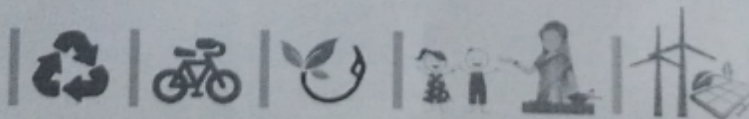
Kedar
Kedar Khamitkar
Energy Auditor CEA-8287
Certified by BEE,
Ministry of Power, Govt. of India



Kedar Khamitkar & Associates, Latur
Empaneled with Maharashtra, Govt of Maharashtra Institution



ISO 9001-2015 Certified



Note : Certificate is based on organisation compliance on energy audit
recommendations and continual maintenance of the system & conduction of surveillance audit



[Signature]
Principal
N E.S. Science College,
Nanded

GREEN AUDIT CERTIFICATE

This certificate has been awarded to

Nanded Education Society's
SCIENCE COLLEGE,
NANDED (Maharashtra)

*in recognition of the organizations efforts for
sustainable development.*

Empanelled with

महाऊर्जा

महाराष्ट्र ऊर्जा विकास अभिकरण
(Govt. of Maharashtra Institution)



Kedar

Kedar Khamitkar
Energy Auditor CEA-8287

Certified by Bureau of Energy Efficiency,
Ministry of Power, Govt. of India



Kedar Khamitkar & Associates, Latur
Empanelled with Mahaurja, Govt of Maharashtra Institution



ISO 9001-2015 Certified

Date of Audit : 26/12/2022



Note : Certificate is based on organisation compliance on green audit
recommendations and continual maintenance of the system & conduction of surveillance audit

GREEN AUDIT CERTIFICATE

This certificate has been awarded to

Nanded Education Society's
**SCIENCE COLLEGE,
NANDED** (Maharashtra)

*in recognition of the organizations efforts for
sustainable development.*

Empanelled with

महाऊर्जा

महाराष्ट्र ऊर्जा विकास अण्डिकाळा
(Govt. of Maharashtra Institution)



Kedar
Kedar Khamitkar

Energy Auditor CEA-8267
Certified by Bureau of Energy Efficiency,
Ministry of Power, Govt. of India



Kedar Khamitkar & Associates, Latur
Empanelled with Mahaurja, Govt of Maharashtra Institution



ISO 9001-2015 Certified

Date of Audit : 26/12/2022



Note : Certificate is based on organisation compliance on green audit
recommendations and continual maintenance of the system & conduction of surveillance audit



Principal
Principal
N.E.S. Science College,
Nanded

Reports of Audits

Energy Audit Report 2022



Nanded Education Society's
Science College,
Sneh Nagar, Nanded

Energy Audit Conducted by _____



Kedar Khamitkar & Associates, Latur
Mahaurja Empanelled Energy Auditor & Planner

ISO 9001-2015 Certified



■ Requirements for the NAAC

Audit Team has been conducted detailed energy audit of Science College Building Located at Nanded Maharashtra

During Energy Audit we have found environmental consciousness and sustainability initiatives in their campus.

1. Percentage of Annual Lighting power requirement met through LED Bulbs (Current Year Data) = 94 %
2. Percentage of Annual Power requirements met through Renewable Energy Sources Current year data is 4 %



Kedar Khamitkar

Energy Auditor
(Certified by Bureau of Energy Efficiency,
Ministry of Power, Gov. of India)
Empanelled Energy Auditor MAHAURJA,
Govt. of Maharashtra Institution



INDEX

| SN | Particulars | Page No |
|-----|--|---------|
| 01. | Executive Summary/ Preface/ Acknowledgement/ EPI | 04 |
| 02. | Requirements for NAAC | 07 |
| 03. | Chapter no. 1 : Introduction about the Institute | 09 |
| 04. | Chapter no. 2 : Energy Audit Objectives | 10 |
| 05. | Chapter no. 3 : Energy Audit Methodology | 11 |
| 06. | Chapter no. 4 : Study of Electrical System | 12 |
| 07. | Annual Electricity Consumption Historical Electricity Bill | 13 |
| 08. | Connected Load Details | 15 |
| 09. | Chapter: 5 Performance Evaluation | 16 |
| 10. | Guidelines for Electrical Safety | 18 |
| 11. | Guidelines for Identified Energy Saving Opportunities | 19 |
| 12. | Chapter no. 6 : Conclusion | 22 |



■ Executive Summary

The objective of the audit was to study the energy consumption pattern of the facility, identify the areas where potential for energy/cost saving exists and prepare proposals for energy/cost saving along with investment and payback periods.

The salient observations and recommendations are

| Sr | Recommendations | Savings per year | Investment Rs. | Payback |
|----|--|------------------|----------------|-----------|
| 1 | Replace Existing Inefficient Ceiling Fans with Efficient (Qty : 106 BLDC fans) | 4800 kWh | 2.14/- Lakh | 5.3 yrs |
| 2 | Improve Power Quality : Install Voltage Servo Stabilizer of 50 KVA Capacity | 6000 kWh | 75000/- | 1.51 yrs |
| 3 | Install occupancy Sensors in Campus Energy Consumption Monitoring & Security purpose (100 Sensors) | 1000 kWh | 75000/- | 1.51 yrs |
| 4 | Install Solar Power Plant 100 kWp | 96000 kWh | 35/- Lakh | Immediate |
| 5 | Conduct Awareness Training Program (Install Sign Boards) | - | No investment | Immediate |



■ Preface

An energy audit is a study of a facility to determine how and where energy is used and to identify methods for energy savings. There is now a universal recognition of the fact that new technologies and much greater use of some that already exist provide the most hopeful prospects for the future. This audit was over sighted to inquire about convenience to progress the energy competence of the campus. All data collected from each classroom, Library & every room. The work is completed by considering how many LED Tube Light , Fan, A.Cs, Electronic instruments, etc. in each room. How much was participation of each component in total electricity consumption.



■ Acknowledgement

We express our sincere gratitude to the Principal Sir & authorities of Science College, Nanded for entrusting and offering the opportunity of . energy performance assessment assignment. We are thankful to Institute for their positive support in undertaking the task of system mapping and energy efficiency assessment of all electrical system, utilities and other workshop equipment. The field studies would not have been completed on time without their interaction and guidance. We are grateful to their cooperation during field studies and providing necessary data for the study.

With Best Wishes,



Kedar Khamitkar

- Energy Auditor, Certified by Bureau of Energy Efficiency, Ministry of Power, Govt. of India
- Empanelled Consultant MAHAURJA, Govt. of Maharashtra



प्रतिज्ञा

हम सत्यनिष्ठा से प्रतिज्ञा करते हैं कि अपने सभी कार्यों में पेट्रोलियम उत्पादों के संरक्षण हेतु सतत प्रयासरत रहेंगे, ताकि देश की प्रगति के लिए आवश्यक इन सीमित संसाधनों की आपूर्ति अधिक समय तक सम्भव हो सके। आदर्श नागरिक होने के नाते हम लोगों को पेट्रोलियम पदार्थों के व्यर्थ उपयोग से बचने तथा पर्यावरण संरक्षण हेतु स्वच्छ ईंधन का प्रयोग करने के लिए जागरूक करेंगे।



■ Requirements for NAAC

Percentage of use LED Lighting



| Type | Total watt |
|-------------------------------|-------------------|
| 01. LED Lights Connected Load | 9704 watt |
| 02. CFL Bulb Connected Load | 572 watt |
| Total Lighting Load | 10276 watt |

Percentage of LED



Observations :

Percentage of Annual Power requirements met through LED bulb / tube current year data is 94 %

Suggestions :

Replace 6 % Inefficient CFL lighting with Efficient LED Lighting

■ Energy Performance Index (EPI)

Science College, Nanded

Uses Electrical Energy from MSEDCL Maharashtra State Electricity Distribution Company Limited.

The Specific Energy Consumption (SEC) is the ratio of energy required per square meter.

Total Electricity Consumption 124033 KWH /Year

Total Built-up Area 330,780.397 sq.meter

In this case the SEC is evaluated as electrical units consumed per square meter of area.

Observations :

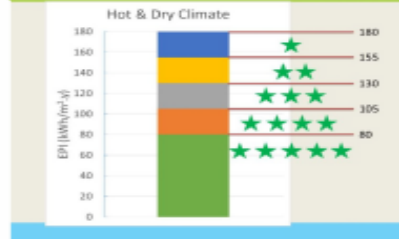
EPI calculated as under (for Electricity) : 0.37 KWH/Sq. Meter

Energy benchmarks for Commercial Buildings

EPI benchmarks for Institutes

| Climate Zone | EPI (kWh/m ² /yr) |
|--------------|------------------------------|
| Warm & Humid | 150 |
| Composite | 117 |
| Hot & Dry | 106 |
| Moderate | 129 |

BEE Star Rating for Building



Disclaimer :

The EPI benchmarks should be considered as an Indicative figure as it largely depends upon the operating hours, energy efficiency measures, sample size, climatic zone and lack of detailed information by building owners

■ Chapter: 1 Introduction

About the Institution :

THE COLLEGE...

The founder chairman Poojya Swami Ramanand Teerth established "Nanded Education Society" in 1950 for catalyzing educational revolution in backward region of this Marathwada. Science College, a single faculty college of Nanded Education Society is one of the premier institution imparting quality educations to the students of this region since last 67 years. Swamiji in his vision of society emphasized the incorporation of spirit of enlightened and responsible citizenship in youth, essential for secular democratic India. The college is always poised to offer emerging contemporary education to the learners to fulfill the need of society as well as to meet global challenges. This institution has been on the forefront in pursuit of academic excellence and has attended potential for excellence (CPE) status from UGC. The college is DST-FIST sponsored, NIRF 72 at National level in college category and recently awarded as BEST COLLEGE AWARD by Swami Ramanand Teerth Marathwada University, Nanded. The main objective and mission of college is overall development of students in all respect like academic, physical, mental, spiritual and moral to build up good citizen for the Republic of India. The college has lush green campus of 45 acres of land for curricular and co-curricular activities for stakeholders. The college offers 15 programs at UG level and 30-subject combinations. To keep pace with the advancement and diversification in the field of science and technology some applied subjects like integrated Computer Science, Biotechnology at UG, M.Sc. Biotechnology; and Herbal Medicine at PG level have been introduced.

■ Chapter: 2

■ Energy Audit Objectives

Science College, Nanded entrusted the work of conducting a detailed Energy Audit of campus with the main objectives given below:

- To study the present pattern of energy consumption
- To identify potential areas for energy optimization
- To recommend energy conservation proposals with cost benefit analysis.

■ Scope of Work, Methodology and Approach :

Scope of work and methodology were as per the proposal .While undertaking data Collection, field trials and their analysis, due care was always taken to avoid abnormal situations so as to generate normal/representative pattern of energy consumption at the facility.

■ Approach to Energy Audit :

We focused our attention on energy management and optimization of energy efficiency of the systems, sub systems and equipment's. The key to such performance evaluation lies in the Sound knowledge of performance of equipment's and system as a whole.

■ Energy Audit:

The objective of Energy Audit is to balance the total energy inputs with its use and to identify the energy conservation opportunities in the stream. Energy Audit also gives focused Attention to energy cost and cost involved in achieving higher performance with technical and financial analysis. The best alternative is selected on financial analysis basis.



■ Chapter : 3

■ Energy Audit Methodology

Energy Audit Study is divided into following steps

1. Historical data analysis:

The historical data analysis involves establishment of energy consumption pattern to the established base line data on energy consumption and its variation with change in production volumes.

2. Actual measurement and data analysis:

This step involves actual site measurement and field trials using various portable Measurement instruments. It also involves input to output analysis to establish actual operating Equipment efficiency and finding out losses in the system.

3. Identification and evaluation of Energy Conservation Opportunities:

This step involves evaluation of energy conservation opportunities identified during the energy audit. It gives potential of energy saving and investment required to implement the Proposed modifications with payback period.



■ Chapter : 4 Study of Electrical Systems

The electrical supply to the Institute comes from MSEDCL LT supply.

MSEDCL LT supply:

Mahavitaran has been installed 18 meters in Campus.

The details of meter are as under

| | |
|----|---------------|
| 01 | 550010055288 |
| 02 | 550010055334 |
| 03 | 550010055342 |
| 04 | 550010055351 |
| 05 | 550010146551 |
| 06 | 550010055296 |
| 07 | 550010079713 |
| 08 | 550018141591 |
| 09 | 550010055245 |
| 10 | 550013515719 |
| 11 | 550010079705 |
| 12 | 550010146542 |
| 13 | 550010114250 |
| 14 | 550010055300 |
| 15 | 5500111209554 |
| 16 | 550011143997 |
| 17 | 55001159508 |
| 18 | 550010185971 |



DG set Capacity = 63 kVA

Electricity Generated = 1500 kWh

■ Annual Electricity Consumption Historical Electricity Bill:

| Consumer No. | Month | | | | | | | | | | | | Total KWH | |
|--------------|---------------|--------|--------|--------|--------|--------|---------|---------|--------|---------|--------|--------|--------------|---------------|
| | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | June-22 | July-22 | Aug-22 | Sept-22 | Oct-22 | Nov-22 | | |
| 01 | 550010055288 | 426 | 458 | 426 | 362 | 491 | 644 | 841 | 737 | 741 | 1134 | - | 432 | 6692 |
| 02 | 550010055334 | 28 | 73 | 13 | 4 | 32 | 55 | 39 | 6 | 33 | 21 | 33 | 23 | 360 |
| 03 | 550010055342 | 263 | 180 | 164 | 160 | 298 | 370 | 349 | 382 | 334 | 496 | | 230 | 3226 |
| 04 | 550010055351 | 362 | 424 | 279 | 255 | 399 | 360 | 540 | 307 | 402 | 701 | | 358 | 4387 |
| 05 | 550010146551 | 144 | 145 | 142 | 143 | 246 | 298 | 303 | 291 | 297 | 399 | | 173 | 2581 |
| 06 | 550010055296 | 515 | 556 | 431 | 511 | 762 | 589 | 545 | 946 | 693 | 1079 | | 550 | 7177 |
| 07 | 550010079713 | 857 | 913 | 632 | 632 | 848 | 927 | 814 | 803 | 848 | 1447 | | 702 | 9423 |
| 08 | 550018141591 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 32 | 32 | 32 | 32 | 32 | 192 |
| 09 | 550010055245 | 358 | 333 | 389 | 364 | 448 | 447 | 486 | 451 | 461 | 775 | | 319 | 4831 |
| 10 | 550013515719 | - | - | - | - | - | - | - | - | - | 0 | 50 | 313 | 363 |
| 11 | 550010079705 | 0 | 2406 | 800 | 1191 | 1428 | 1656 | 1270 | 1270 | 997 | 1356 | 946 | 918 | 14238 |
| 12 | 550010146542 | 570 | 328 | 269 | 440 | 645 | 555 | 343 | 959 | 775 | 557 | 341 | 280 | 6062 |
| 13 | 550010114250 | 829 | 598 | 464 | 875 | 1289 | 1791 | 1519 | 141 | 658 | 859 | 802 | 623 | 10448 |
| 14 | 550010055300 | 215 | 206 | 193 | 286 | 385 | 293 | 193 | 558 | 385 | 249 | 234 | 245 | 3442 |
| 15 | 5500111209554 | 152 | 186 | 1525 | 425 | 261 | 0 | 170 | 185 | 190 | 199 | 187 | 217 | 3697 |
| 16 | 550011143997 | 1506 | 1375 | 1404 | 1715 | 1568 | 394 | 617 | 0 | 639 | 1052 | 957 | 1239 | 12466 |
| 17 | 55001159508 | 291 | 287 | 374 | 653 | 702 | 1520 | 2423 | 3746 | 813 | 1410 | 1878 | 667 | 14764 |
| 18 | 550010185971 | 1484 | 1481 | 644 | 8788 | 1125 | 982 | 989 | 541 | 641 | 940 | 1035 | 1034 | 19684 |
| | | | | | | | | | | | | | Total | 124033 |

General Observations based on Electricity Bill:

Total Annual Electricity from Mahavitrans 124033 KWH/year

Max KWH consumption found in the month of Mar 22 and

Min KWH Consumption found in the month of Aug 22

Observations :

1. Electricity from Mahavitrans 124033 Units / Year

Suggestions :

1. Install Occupancy Sensors to minimize electricity unknown losses.
2. Install additional Solar Power Plant of 100 KWp



■ Connected Load Details

Major Energy use and Areas :

In the College Campus Electrical energy is used for various applications like : Computers, Printers, Xerox machines, LCD Projector, Router System, Lighting, Fans, Flood light, Pumping Motor, Air-Conditioning & Other Laboratory Equipment etc.

| Sr. | Appliance | Wattage | Qty. | Total |
|-----|-------------------------------|---------|------|-------|
| 1 | LED Tube light | 20 | 460 | 9200 |
| 2 | LED Bulb | 12 | 42 | 504 |
| 3 | CFL | 52 | - | - |
| 4 | Ceiling Fan | 70 | 308 | 21560 |
| 5 | Exhaust Fan | 50 | 09 | 450 |
| 6 | AC : Capacity : 1.5 Ton | 1500 | 11 | 16500 |
| 7 | Refrigerator System 165 Liter | 250 | 08 | 2000 |
| 8 | Coolers | 450 | 08 | 3600 |
| 9. | Miscellaneous Load | | | 25000 |
| | | | | |

Observations :

Ceiling Fan (70Watt) contributes @21560 Watts Load

Suggestion :

Minimize Connected load Install BEE Star rated Energy efficient BLDC Fans.



■ Chapter: 5 Performance Evaluation

5.1 Fan System:

Total number of fans used in the campus = 308 No's

Consider @200 days Working 8 Hrs.

- Number of fans to be replace = 308 Nos.
- The Total Current Consumption = 21560 kWh
- The Expected fan Consumption = 8624 kWh
- Expected Saving per year = 12940 kWh/year



Suggestions :

Replace existing Inefficient Fan System (75W)
with Five Star BLDC (28W)



■ 5.2 Lighting System:



Observations : Existing lighting Tube are installed without reflectors.

Suggestions:

- Improve effectiveness of Lighting System
- Increase Lighting Efficiency by using reflectors.
Light globes generally disperse light in all directions from the source. If a ceiling mounted light does not direct the light back down to the working plane, more fittings will be required to achieve the required lux levels. So the effectiveness of the reflectors (or minimizing losses due to poor reflectors) is important. Reflectors should be both reflective as well as carefully designed to disperse light effectively on the working plane at the design height of the fitting (e.g., light should not be concentrated in one area, providing too much light, whilst falling short of required levels in another area).
- **Silver Reflectors.** This is the reflector that reflects the most light.
White Reflectors. More flexible between indoor and outdoor use.
1. Gold Reflectors 2. Black Reflectors 3. White Reflectors



Existing Condition : Electrical Panel Board**Observations :**

An electrical panel upgrade may be required when a panel can no longer handle the voltage flowing through them, resulting in a safety hazard. Factors such as incorrect installation, damage, or age can all reduce the effectiveness of an electrical panel, turning it into a dangerous fire hazard.

Electrical Safety measures need to review!

- Install Safety Distribution Panel board. -
- Install Sign Boards - Prohibition, - Warning, Mandatory and Emergency.

Suggestions for the Electrical Safety

- Avoid contact with power lines.
- Ground electrical equipment.
- Take care with power tools.
- Wear protective clothing.
- Stay on top of housekeeping.



Guidelines for Electrical Safety

INSTALL ELECTRICAL SAFETY SIGN BOARD

Electrical panels should also have secure covers to ensure no wires are exposed that could cause electrical shock. This also prevents the internal mechanisms from being exposed to dust, dirt, and moisture. Electrical panel boxes in commercial buildings should be secured and accessible by trained personnel only.



Recommendations

1. Declare the Energy Policy



Energy policy is the scheme in which the organization addresses issues related to energy growth and usage including energy production, distribution, and consumption.

2. Create Awareness:

Create Awareness: Conduct Institutional training Program periodically. Need to create energy efficiency/ renewable energy awareness among the college campus i.e. solar, wind, Biogas energy. College should take initiative to arrange seminars, lectures, paper presentation competition among students and staff for general awareness.

***Switch of the Air-conditioning system
1/2 an hour before leaving workplace.***

#Raiseitby1degree

Every 1 Degree increase in AC Setting, Saves 6% Electricity

- Yearly 500 crore units of electricity saving
- ₹ 2500 crore saving for the country annually
- 40 lakh tonnes CO₂ emissions avoided
- Better and healthier planet

Ministry of Power

Guidelines for Identified Energy Saving Opportunities

- Use as much natural day light as possible by use of translucent roofing sheets.
- Use day lighting effectively by locating work stations requiring good illuminance near the windows.
- Minimise illuminance in non- task areas by reducing the wattage of lamps or number of fittings
- Avoid use of incandescent/tungsten filament lamps. The power consumed by these lamps is 80% more than the fluorescent lamps (discharge) for same lumen output.
- Use electronic ballasts in place of conventional ballast for fluorescent lamps.
- Task lighting saves energy, utilize it whenever possible.
- All surfaces absorb light to some degree and lower their reflectance. Light colored surfaces are more efficient and need to be regularly painted or washed in order to ensure economical use of light.
- Maintenance is very important factor. Evaluate present lighting maintenance program and revise it as necessary to provide the most efficient use of lighting system.
- Clean luminaries, ceilings, walls, lamps etc. on a regular basis.
- Controls are very effective for reducing lighting cost. Provide separate controls for large ratings.
- Install switching or dimmer controls to provide flexibility when spaces are used for multiple purpose and require different amounts of illumination for various activities.
- Switching arrangements should permit luminaries or rows of luminaires near natural light sources like windows or roof lights to be controlled separately.
- Separate lighting feeder and maintain the feeder at permissible voltages by using transformers.
- Install occupancy sensors for indoor cabin light controls



■ Chapter 6 : Conclusion

- A total Investment of Rs. 38.64/- (Approx. Thirty Eight Lakhs & Sixty Four Thousand) amount is estimated for the energy efficiency improvement projects)
- Energy Savings expected around 107800 kWh/year.



प्रतिज्ञा

हम सत्यनिष्ठा से प्रतिज्ञा करते हैं कि अपने सभी कार्यों में पेट्रोलियम उत्पादों के संरक्षण हेतु सतत प्रयासरत रहेंगे, ताकि देश की प्रगति के लिए आवश्यक इन सीमित संसाधनों की आपूर्ति अधिक समय तक सम्भव हो सके। आदर्श नागरिक होने के नाते हम लोगों को पेट्रोलियम पदार्थों के व्यर्थ उपयोग से बचने तथा पर्यावरण संरक्षण हेतु स्वच्छ ईंधन का प्रयोग करने के लिए जागरूक करेंगे।



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[Signature]
Principal
N.E.S. Science College,
Nanded

Green Audit Report (Jan. 22 to Dec. 2022)



Nanded Education Society's

SCIENCE COLLEGE, NANDED

P.O.Box No. 62 Snehnagar, Nanded, Maharashtra 431605



Green Audit report Submitted by



Kedar Khamitar & Associates

Energy Auditor Empanelled Mahaurja, Govt. of Maharashtra

M: 9850244701 Email : urjabachat@gmail.com

INDEX:

| Sr. | Titles/Topics | Page |
|-----|--|------|
| 1 | Acknowledgement | 3 |
| 2 | Executive Summary | 4 |
| 3 | Chapter No. 1: Scope of work & Methodology | 5 |
| 4 | Chapter No. 2: Introduction about Institute | 7 |
| 5 | Chapter No. 3: Categories of Land use | 8 |
| 6 | Chapter No. 4: Use of Green (Renewable) Energy | 9 |
| 7 | Chapter No. 5: Study of Waste Management | 10 |
| 8 | Chapter No. 6: Study of Carbon Footprint | 12 |
| 9 | Chapter No. 7: Best Practices & Activities | 13 |



ACKNOWLEDGEMENT

We express our sincere gratitude to the Principal Dr. D. U. Gawai Sir and the management of Science College, Nanded for awarding us the assignment of Green Audit of their Campus.



Date : 26.12.22



Kedar
Kedar Khamitkar
Energy Auditor

Certified by Bureau of Energy Efficiency, Ministry of Power, Gov. of India
Empanelled Consultant MAHAURJA (Govt. of Maharashtra Institution)



EXECUTIVE SUMMARY:

| Objective | Observation | Recommendation |
|-------------------------|---|---|
| Use of Land | Plantation of trees is started in the campus, at Present 18% area campus is having the Green cover. | Recommended to extend the green cover in the campus. |
| Use of Renewable Energy | Institute has been installed 5KWp Solar Power Plant. (Attached Photo) | Good initiative. |
| Water Conservation | Recommended to Install Sign Boards. Awareness for Water Conservation. | It is recommended to install taps with reduced water flow |
| Rain Water harvesting | Installed rainwater harvesting (Attached Photo) | Good Initiative |
| Water Management | RO water providing safe drinking water. | Recommended for waste water treatment plant. |
| Bio Waste Management | Bio-waste – Food waste generated on premises is feed stock for bio gas plant (Attached Photo) | Good Initiative for Fuel Conservation. |
| Non Bio Waste | Non Bio Waste – Plastic Bottles / Paper Waste Metals waste is being collected in the dust bins placed across the campus. | It is proposed to install plastic bottle crusher, which can be sold as a Feed stock for the Plastic industry. |
| E Waste | E Waste – All Electronic Junk is generated in the campus in the form of Used Computer key boards/ Mouse/ CPU's/ Damaged Printers etc. | An agreement is in place with local Company to pick up the E waste every six month |



Chapter No.1 Scope of Work & Green Audit Methodology

Science College, Nanded entrusted the work of conducting a detailed Green Audit of campus with the main objectives are as bellows:

Objectives of Green Audit:

1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. To identify and analyze significant environmental issues.
3. Setup goal, vision, and mission for Green practices in campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in green

Need of Green Audit:

Green auditing is the process of identifying and determining whether institutions practices are eco-friendly and sustainable. Green audit regulates all such practices and gives an efficient way of natural resource utilization. In the era of climate change and resource depletion it is necessary to verify the processes and convert it in to green and clean one. Green audit provides an approach for it. It also increases overall consciousness among the people working in institution towards an environment.

Methodology of Green Audit:

Science College, Nanded Campus has been conducted with specific methodology as follows:



Goals of Green Audit:

Conducted a green audit of Science College, Nanded Campus with specific goals as:

- Geographical Location
- Floral and Faunal Diversity
- Meteorological parameter
- Pollution Eradication
- Energy Consumptions
- Waste Disposal System
- Ambient Environmental Condition
- Evaluate Environmental Footprints
- Efficient and Effective usage of Scarce Resources (Fossil fuel)
- Awareness & Training on Sustainability for Students



Chapter No.2 **Introduction about the Institute**

The institute Science College, Nanded founded by Great visionary and leader of Marathwada Mukti Sangram Poojya Swami Ramanand Teerth in 1950. N.E.S. Science College is one of the premier institutions imparting quality education to the students of this region since last 50 years. The college has proliferated its academic facilities in view of growing needs of higher education. The institution has been on the forefront in pursuit of academic excellence and good governance. The infrastructure was proliferated with the contribution of Municipal Council of Nanded by donating 35 acres of land to Nanded Education Society.

This college has about 45 acres of land for its campus and infrastructure. The infrastructure of this college was expanded from time to time with the help of UGC grants and contribution of staff, philanthropists, State Government and other funding agencies.



AIRIAL VIEW OF COLLEGE CAMPUS (SOURCE GOOGLE EARTH)



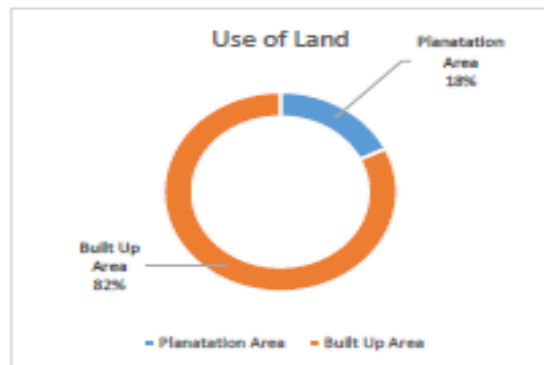
Address: Sneh Nagar, Waghala, Nanded - Maharashtra 431605

Chapter No.3 Categories of Land Use

Plantation of trees is started in the campus and the green cover is extended every year in the campus.

| | | |
|-----------------|---------|-----|
| Built up Area | 30780.4 | SQM |
| Plantation Area | 6712 | SQM |

Audit Framework and detailed findings of the Audit:



Green Landscaping with Trees and Plants – the campus is beautifully landscaped.

Observations : At Present 18% area campus is having the Green cover



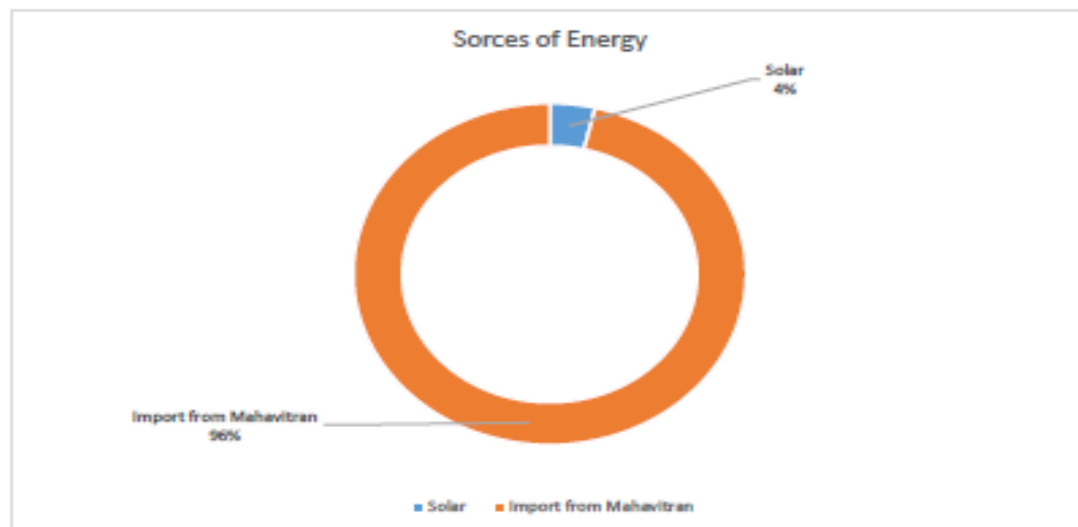
Chapter No. 4: Use of renewable Energy

Institute has been taken good initiative for energy conservation.

Solar Installation Year : 2016



Installed Rooftop Solar Power generation plant of Capacity 5KW in the campus.



Observations :

Use of renewable Energy found 04%

Solar Generation @4800 KWh / Year

Suggestions :

Install additional solar power plant of 100 KW Capacity.

Chapter No. 5: Study of Waste Management**• Environmental consciousness and sustainability friendly initiatives**

- The leaves, all non-toxic and biodegradable waste, are collected and used to make compost through the composting process, for which pit was made in the campus.
- Solid waste is generated in the form of plastic, glass, metal, newspapers, lab manuals, etc. is stored at one place and scrapped periodically for recycling.
- Non degradable waste (Dry and wet) is collected separately empty bottles, cartons are collected regularly at one place and handed over to the municipal vehicle for collection and proper disposal.
- College is using number of software's Tally for digitalization concept that made steps towards way to less paper use.

Bio gas Plant



Observations: Institute has been done Good Management of the various types of degradable and non-degradable waste.

Rainwater Harvesting



Solid waste management

The college is taking utmost care of cleanliness and hygiene. Daily waste is collected by the cleaning staff and segregated into degradable and non-degradable waste.



Chapter No. 6 : Carbon Footprint

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities. The College Imports Electrical Energy during Night for various Electrical gadgets.

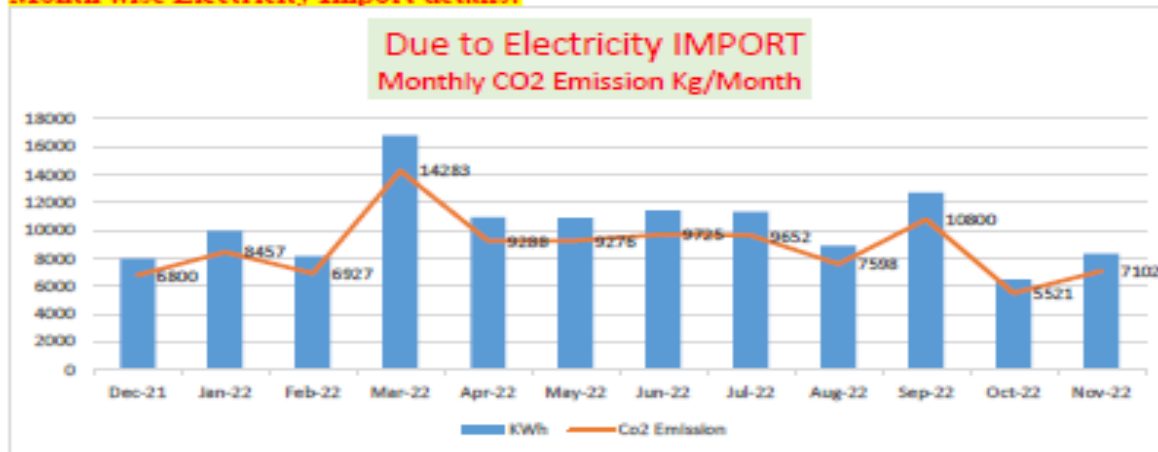


Basis for computation of CO2 Emissions:

The basis of Calculation for CO2 emissions due to Electrical Energy are as under
1 Unit (kWh) of Electrical Energy releases 0.8 Kg of CO2 into atmosphere

Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Month wise Electricity Import details:



Observations:

The College Imports Electrical Energy during Night for various Electrical gadgets.
 Average Monthly Carbon Emission due to Electricity IMPORT = 105428 Kg of CO2 into atmosphere.

Suggestions:

1. Install additional Solar Power plant of 100 KW capacity
2. Install Occupancy Sensors to minimize losses in Lighting System

Chapter No. 7 : Best Practices & Activities

Institute has been declared their Environment Policy

Policy Document On Environment and Energy Usage

- To install LED bulbs in the complete campus to save energy
- To operate institute building in most efficient energy manner.
- Maximum use of Renewable Energy.
- Encourage a culture of Energy conservation on campus.
- To take additional measures to continuously improve our energy consumption.
- To develop and maintain Energy Management System based on ISO: 50001.
- To encourage use of advanced technology to minimize energy consumption.
- To engage in dialogue with the government agencies, and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To provide information and training opportunities on energy saving measures.
- To train our employees and students through our Enviro Club to make them 'Go Green Specialists' and partners to plant trees each year.

Principal



Best Practices & Activities

Several significant and fruitful awareness programs both students and staff of the Campus are arranged every year in the campus. Reflections from students are Evident how effective such awareness programs conducted in the campus. Major programs conducted in the campus during the last Five years.

Campaigns:

Nature camps, field trips and some of these activities are year round programs and others are regular year wiser semester wise or any other stipulated time bound programs.

Plantations at institute

The concept behind the tree plantation initiative was to convey the message that tree plantation helps in maintaining a clean eco-friendly environment and reduces pollution and improves green environment.



Environmental education through systematic environmental management approach.

PCRA, Ministry of Petroleum & Natural Gas, GOI Fuel Conservation Project conducted institutional Training program at Science College, Nanded.

Topic: Efficient use of Energy & Resources.

Principal Dr. D. U. Gawai sir with Staff & Students were present in the program.



Nanded-Waghala, Maharashtra, India
 58G2+26R, Institutional Training Programme ,NES Science College, Vivek Nagar, Sneh Nagar,
 Nanded-Waghala, Maharashtra 431602, India
 Lat 19.166356°
 Long 77.295903°
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**Fuel Conservation Project Joint Initiative between PCRA & SCN
 One Day Workshop on Water Conservation**






"Catch the Rain Where it Falls, when it falls"



FIVE WAYS TO CONTROL CLIMATE CHANGE

| | |
|---|--|
|  <p>GREEN YOUR COMMUTE</p> | <p>Explore new options to commute and reduce your carbon footprint. Choose to walk, share car, ride bicycle, or electric vehicle.</p> |
|  <p>CONSERVE FUEL</p> | <p>Stop the reckless of fuel and use it more sensibly. Conserving fuel reduces pollution for a cleaner and greener environment.</p> |
|  <p>GET AN ENERGY AUDIT DONE</p> | <p>Get an energy audit done to determine the overuse of energy.</p> |
|  <p>PLANT TREES</p> | <p>Plant trees and support reforestation. This way CO₂ level will be decreased, as trees use sunlight to absorb carbon dioxide from the atmosphere through photosynthesis and store it as carbon in the form of wood.</p> |
|  <p>REDUCE, REUSE & RECYCLE</p> | <p>Reduce paper use, reuse whatever you can and recycle waste materials into a valuable resource. Be an environmentally conscious consumer.</p> |

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[Handwritten Signature]
 Principal
 N.E.S. Science College,
 Nanded

**Beyond the campus environmental
promotions**

1. **One Day International workshop on E-Waste : Awareness and its Management inaugurated.**

Nanded Education Society's
SCIENCE COLLEGE, NANDED



UGC-CPE Sponsored

One-Day International Workshop
On
**E-WASTE:
AWARENESS AND ITS
MANAGEMENT**



9th January 2021

Organized by
**Eco-Friendly Committee,
Science College,
Nanded 431605**

Tel: 91-22-2670 8523, 26707448,
2628 7250
Fax.No.: 91-22-26703422

www.sciencecollegened.org
Dr. D. U. Goreli
Principal

THE COLLEGE...
Poopya Sankar Ramnarad Terth established "Nanded Education Society" in 1956 for catalyzing educational revolution in backward region of this Maharashtra. N.E.S. Science College, a single faculty college of Nanded Education Society is one of the premier institutions imparting quality education to the students of this region since last 57 years. The college is always poised to offer emerging contemporary education to the learners to fulfil the need of society as well as to meet global challenges. This institution has been on the forefront in pursuit of academic excellence and has attained potential for excellence (CPE) status from UGC. The college is DST-FIST sponsored and recently awarded as BEST COLLEGE AWARD by Sankar Ramnarad Terth Maharashtra University, Nanded.

Eco-Friendly Committee:
Eco-friendly Committee takes the lead for the enlightenment, revival of college Campus. It makes awareness of Solid waste, Chemical waste, Electronic Waste in the college. The Committee implement sustainable practices in the college to make college campus beautiful & make all stakeholders eco-friendly. In order to create awareness among the students, teachers and all who are associated with our college, NES Science College has come up with Formation of Eco-Friendly Committee in year 2015 headed by Prof. Shinde L.P. Convener, Department of Chemistry.

About the International Workshop
Electronic waste, or e-waste, is an electronic products that have become unwanted, non-working or obsolete and have essentially reached the end of their useful life. As per E-waste Rule 2016, the E-waste defined as electrical and electronic equipment (WEEE) repair processes, Computers, servers, monitors, printers, calculators, fax machines, battery cells, cellular phones, Domestic appliances are examples of e-waste.

Patron:
Hon. Dr. Venkatesh R. Khatke,
President, Nanded Education Society's
Hon. Adv. Chaitanya Bapat, District
Vice President, Nanded Education Society's
Hon. Mrs. Shyamal D. Patil
Secretary, Nanded Education Society's
Hon. Dr. CA. Pravin S. Patil,
J. Secretary, Nanded Education Society's

Convener:
Dr. D. U. Goreli, Principal
SCIENCE COLLEGE, NANDED

Co-Convener
Prof. Shinde L.P.

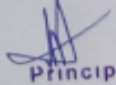
Organizing Secretary:
Prof. A. S. Banerjee & Dr. Mrs. Borkar P. S

Coordinator
Dr. Mohanasa Thaseen

Organizing Committee
1. Prof. M. A. Joshi
2. Prof. D. D. Pawar
3. Dr. Mrs. Shukla A.R
4. Dr. V. R. Marathe
5. Dr. Manohar R. A
6. Dr. Borkar A.P.
7. Dr. Satru P. D.

Keynote Speaker
Dr. Anand Nayyar
Day Tan University, Da Nang, Viet Nam
Mr. Kshitij Ghildiyal (Resource Person -)
Global Waste Solution, New Delhi
Mr. Anagh (Resource Person Academic)
Green Army Mentee,
Project Head Bring Back Green, Kerala
Registration Fee: Free of Cost
Registration Link:
<https://forms.gle/568354n0vuhqy58>
E-certificate will be provided to all the participant.




Principal
N.E.S. Science College,
Nanded




Nanded Education Society's
Science College, Nanded (M.S.)


(Re-accredited with 'A' grade by NAAC in 3rd Cycle;
College with Potential for Excellence;
Best College Award of S.R.T.M. University, Nanded)





CERTIFICATE OF PARTICIPATION
(UGC-CPE Sponsored)


This is to certify that Ms/Mr/Mrs/Dr. A. B. Jayasimha
of SGS Arts College Tirupati, Kadapa, AP
has participated and successfully completed *UGC-CPE sponsored One day International
Workshop on "E-WASTE :AWARENESS AND ITS MANAGEMENT "* organized by Eco-
Friendly Committee, Science College, Nanded, Maharashtra on 09th January 2021


(Dr. Mahisena)
Co-Ordinator


(Dr. P. S. Borkar)
Org. Secretary


(Dr. A.S. Bimode)
Org Secretary

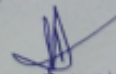

(Dr. LP Shinde)
Co-Convenor


(Dr. DU. Gawai)
Convenor

Date: 09th January 2021

Certificate ID: EWAM/SCN/001




Principal
N.E.S. Science College,
Nanded

 Nanded Education Society's
Science College, Nanded (M.S.)
(Re-accredited with 'A' grade by NAAC in 3rd Cycle;
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UGC-CPE Sponsored
One –Day International Workshop
On
E-Waste :Awareness And Its Management
Organized by
ECO-FRIENDLY COMMITTEE
9TH January 2021
11.00am

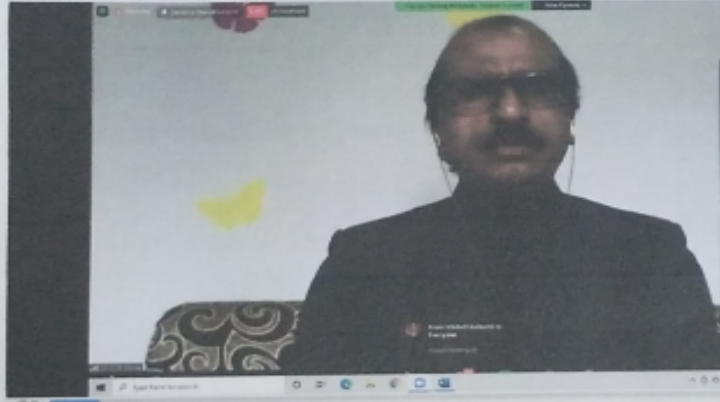


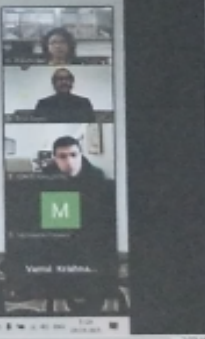




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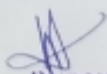




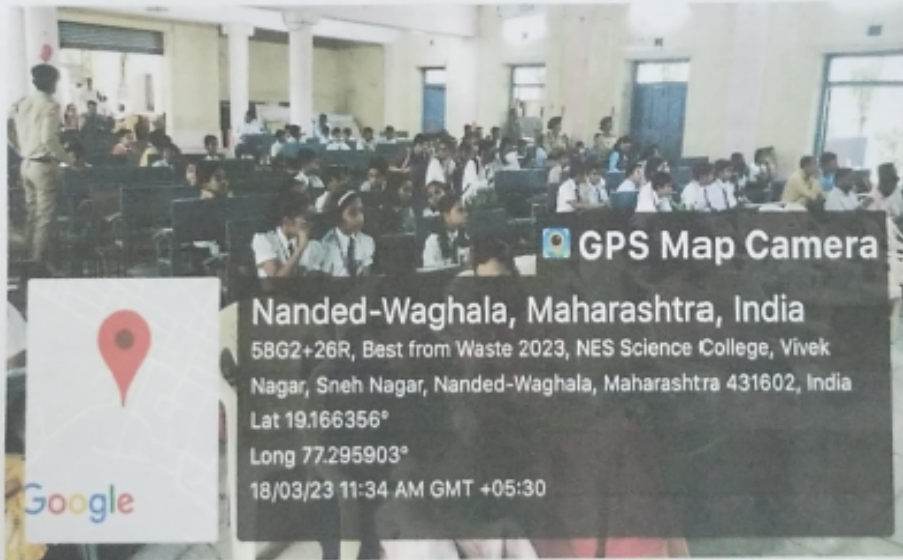
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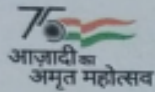
State Level Competition on Best from Waste



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NADED EDUCATION SOCIETY'S
SCIENCE COLLEGE, NANDED.
State Level Competition on



"Best from Waste"
Date: 24/05/2022
Time: 10:00 am



Organized by
Eco-Friendly Committee
N.E.S. SCIENCE COLLEGE, NANDED



Migrating Authorities

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Dr. V.R. Charan Dr. Mrs. A.R. Shukla
Dr. P.S. Borkar Dr. Mrs. S.D. Wadje
Mr. S.N. Bardsle Mr. S.E. Gore

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Mrs. Z.D. Ransakar



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Dr. Venkatesh Kabde
President, Nanded Education Society, Nanded
CA. Dr. Pravin Patil
Vice-President, Nanded Education Society, Nanded
Smt. Shyamal Patil
Secretary, Nanded Education Society, Nanded
Shri. Prafullakumar Agrawal
Joint-Secretary, Nanded Education Society, Nanded

Organizing Committee

Convener :
Dr. D. U. Gawai, Principal
Organizing Secretary :
Dr. L. P. Shinde
Joint-Organizing Secretary :
Dr. A.S. Bansode



Contact :
Dr. L. P. Shinde
N.E.S. SCIENCE COLLEGE, NANDED
Nanded - 431 003
Mob. No. 9821798318



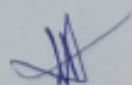
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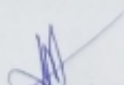


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One Day Seminar on "Awareness of Latest Technologies & Career Opportunities in IT Industry's"

| | |
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| <p>Patron Dr. Venkatesh Kabde President, Nanded Education Society, Nanded.</p> <p>CA. Dr. Pravin Patil Vice-President, Nanded Education Society, Nanded. Sou. Shyamal Patil Secretary, Nanded Education Society, Nanded.</p> <p>Shri. Praful Agrawal Joint-Secretary, Nanded Education Society, Nanded.</p> <p>Organizing Committee Convener Dr. D.U. Gawad, Principal</p> <p>Co-Convener Dr. R.A. Muneshiwar, EC Head of Computer Dept.</p> <p>Organizing Secretary Dr. Mrs. S. S. Modi Dr. U.S. Patil</p> <p>Members Mr. J.R. Dave Mrs. Sukeshna Narwade Ms. Yogeshwari Choudhary</p> |   <p>Nanded Education Society's SCIENCE COLLEGE, NANDED One Day Workshop on E-Waste Management</p> <p>Resource Person Ms. Rashmi Joshi Environment Coordinator Mumbai</p> <p>Mrs. Pallavi Chaturphale Asst. Prof. in Computer science, Pw Dr. Rajgop</p> <p>Date: 13/01/2024</p> <p>Organized by Department of Computer Science & IT N.E.S. SCIENCE COLLEGE, NANDED (Approved by NAAC, A Grade, 2018, 2021, 2023) P.O. Box No. 42, Nanded, Dist. Nanded - 431001 Maharashtra Website: www.nandedcollege.edu.in</p> |
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| <p>Precedence</p> <p>The rapid advancement of technology has led to an unprecedented proliferation of electronic devices, contributing to the emergence of electronic waste (e-waste) as a significant global challenge. Whereas, recognizing the environmental and health hazards posed by improper disposal and mismanagement of e-waste, which often contains hazardous materials such as heavy metals and toxic substances.</p> <p>Now, therefore, we, the undersigned, in recognition of the urgency and importance of addressing the challenges posed by e-waste, hereby establish and commit to the principles outlined in this E-Waste Management Precedence. Through collaborative efforts, responsible practices, and ongoing education, we aim to create a sustainable and environmentally conscious approach to managing electronic waste for the benefit of current and future generations.</p> <p>About The College</p> <p>N.E.S. Science College, Nanded is single Faculty College, founded by a great visionary and leader of Hyderabad liberation struggle, Profya Swami Rameshwar Teeth. The College Re-accredited with 'A' grade by NAAC with COPA 3.38 in 3rd Cycle, NERF-72 in 2017, DPT-FIST, Best College awarded by SRTMUN in 2016 and also awarded with "College with Potential for Excellence [CPE]" by UGC.</p> | <p>Objectives of Course</p> <ul style="list-style-type: none"> > To impart importance of E-waste Management. > To raise awareness of the E-waste-management. > Educate on best practices for the collection, handling, and disposal of e-waste, emphasizing responsible methods to minimize negative consequences. > Impart participants to develop actionable plans for implementing e-waste management. Strategists within their respective organizations or communities, fostering a commitment to sustainable practices. <p>Organizing Committee</p> <p>Dr. L.P. Shaide, Vice-Principal, (Senior College) Dr. A.R. Shukla, Vice-Principal, (Senior College) Dr. E.M. Khilase, Vice-Principal, (Junior College) Dr. A.T. Shaide, Co-Mentor Dr. B.D. Gachade Dr. S.R. Paigalkar Dr. D.R. Moode Dr. V.V. Kulkarni Dr. K.S. Shalwar Dr. P.R. Kulkarni Dr. A.P. Borkar</p> <p>Programme Schedule</p> <p>Saturday Date: 13/01/2024 Time: 10:30 am to onwards.</p> |
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Nanded Education Society's

SCIENCE COLLEGE, NANDED

One Day Workshop on

"E-Waste Management"

Organized by

Department of Computer Science & I.T.

CERTIFICATE



This certify that, Mrs./Miss./Mr. Satish S. Sontakke has participated in one day workshop on "E-Waste Management", held on Date:13/01/2024, organized by Department of Computer Science, Science College, Nanded.

Organizing Secretary

Dr. Mrs. S. S. Modi
Asst. Professor

Co- Convener

Dr. R.A. Muneshwar
I/c H.O.D. Comp. & Stat.

Principal & Convener

DR. D.U. Gawai

Science College, Nanded



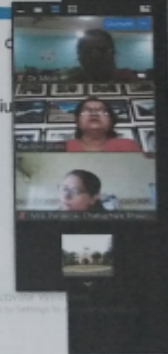
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Composition of E-Waste


The various parts / materials / composition of e-waste may be broadly into **six categories** such as

- Iron and steel, used for casings and frames
- Non-ferrous metals, especially copper used in cables, and aluminium
- Glass used for screens, windows
- Plastic used as casing, in cables and for circuit boards
- Electronic components
- Others (rubber, wood, ceramic etc.).



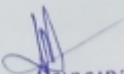

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Participation of NES office bearers along with NWMC Commissioner Mr.Sameer Unhale for cleaning campaign.


Eco-Friendly Holi



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Swacha Bharat Abhivan organized at SRTM University Nanded
Share any excellent Initiative taken by Institute:




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**A Report
on**



Petroleum Conservation Research Association

Ministry of Petroleum & Natural Gas, Govt. of India

and

Nanded Education Society's

SCIENCE COLLEGE, NANDED

Joint Initiative

Institutional Training Programme

Topic: Energy Sources for Sustainable Development

Date: 26/12/2022

Time: 12:30 pm

Resource Person

Shri. Kedar Khamitkar

Energy Auditor,
External Faculty PCRA- Ministry of Petroleum & Natural Gas, GoI

Science College, Nanded

(Re-accredited by NAAC with 'A' grade (CGPA 3.38), CPE Status)
P.O Box No. 62, Sneh Nagar, Nanded -431605
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A Report

Petroleum Conservation Research Association, Ministry of Petroleum & Natural Gas, Govt. of India, and Nanded Education Society's Science College, Nanded, Maharashtra, have organized as a joint initiative, an Institutional Training Programme on December 26, 2022, at 12:30 p.m. on the topic "Energy Sources for Sustainable Development." In this training programme, the resource person Mr. Kedar Khamitkar, Energy Auditor, External Faculty PCRA- Ministry of Petroleum & Natural Gas, GoI guided students in energy conservation and environmental protection. Principal Dr. D. U. Gawai was president of the function. Mr. Kiran Khamitkar was an invited guest for this event. Vice-Principal Dr. Aruna Shukla conducted the programme. IQAC Co-ordinator Dr. V. V. Kulkarni was the organising secretary. A poster titled "Energy Conservation Ideas in Industry and Business" was released to commemorate Energy Conservation Week, which runs from December 14th to December 20th, 2022, and a Memorandum of Understanding (MoU) was signed for future collaborative activities between the Petroleum Conservation Research Association, the Ministry of Petroleum and Natural Gas, the Government of India, and Nanded Education Society's Science College in Nanded, Maharashtra.




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Nanded-Waghala, Maharashtra, India

58G2+26R, Institutional Training Programme ,NES Science College, Vivek Nagar, Sneh Nagar,
Nanded-Waghala, Maharashtra 431602, India

Lat 19.166356°

Long 77.295903°

26/12/22 04:26 PM



Nanded-Waghala, Maharashtra, India

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Lat 19.166356°

Long 77.295903°


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