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Save the Nature to Save the Future; Go Green to Save the Planet

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Editorial...

Annually, India observes Energy Conservation week from 9th instant to December 14 and National Energy Conservation Day is being celebrated on December 14 under the egis of Energy Efficiency Bureau (BEE), is a constitutional body of Ministry of Power, Government of India. India's developmental sectors are flourishing well which leads to an increase in the demand for energy and it is expected that the requirements for energy resources will double in the year 2030. Considering the future requirements, BEE aims to cost-effective energy production and resource conservation targeting holistic approach towards the primary goal of climate change mitigation.

In the present day context, energy conservation is need of the hour. Energy conservation is to avoid unnecessary consumption of energy and its non-renewable resources and to use minimum resources for the want of future needs. In order to achieve success more effectively by implementing energy utilization policies, each and every individual should adopt energy conservation in their day to day routine.

Every person can save energy by eliminating the unnecessary use of electrical facilities which can be played a major role in National Energy Conservation Campaign. Fossil fuels are generating enough energy to use in daily activities and their demand is increasing steadily which might create fear of a lack of natural resources in the future. Hence appropriate plans should be adopted to use renewable energy resources instead of non-renewable source of energy.

Conserving energy undoubtedly leads to a better quality of life. Reduced carbon emissions mean cleaner air, a healthier planet and saving the limited resources that we have. It is already known fact that researchers are engaged in discovering and developing new and alternative energy resources. But it is our duty to understand the importance of energy and become aware of energy conservation. Last but not least, everyone should always try that we don't waste energy.

-Editor

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Annual General Body Meeting of NSF

The Annual General Body Meeting of Nature Science Foundation was held on December 15, 2022 at Ratna Residency, VH Road, Coimbatore. Dr.S. Rajalakshmi, Chair Person, NSF welcomed the gathering and presided over the activities as per the agenda scheduled. Ms. V. Sri Santhya, Assistant Director, NSF presented the overall activities carried out by the NSF during the fiscal year, 2022. Ms. R.S. Thulaja, Programme Officer, NSF offered the audit activities and net results of audits executed during the period under report. As on date, NSF intend to launch scientific journals

(online) for the benefit of academic and scientific communities. In this context, Dr. Amzad Basha Kolar, Lead Auditor, NSF presented the aim & scope of the journal, requirements prior to launch of the journals and time schedule for launch of journals. Dr. Sreekala K. Nair, Director (R&D), proposed the views on R & D upliftment and schedule to submitting the projects for financial assistance. Immediately after all the presentations, there was an interaction to expose the “pros & cons” and to set the goals for the years next to come.

Following are certain valid points emanated from one to one interactions: in order to reach grass root level in the society, it has been decided to be active on all social media which can help further spread all over the country. Though, NSF inaugurated Eco Club Students Chapter in specific educational institutions, it has been decided to enrich the same at International level which deemed to be a partner of NSF in conduct of international events. As on date NSF conducted more than 80

audits. However a significant number of audits executed with in southern region and a very few at different states. It has been decided to concentrated efforts should be given to the institutions located at northern region to perform audits and to spread the wings.

Efforts should also be centred on schools to promote NSF activities. It has also been decided to make a short video on feedback about audit activities of NSF and upload the same in the NSF portal. It has been decided to obtain the copy rights for the reports submitted to the educational institutions which can reduce certain legal issues. Although NSF involved in upliftment of Tribes, in order to educate them properly on the prevalence of educational facilities, small scale entrepreneurship, welfare programmes implemented by government, it has been decided to take lead role in involving Eco Clubs in future programmes. Dr.R. Sudhakar, Board of Director, North Zone, virtually felicitated the AGM. The AGM was resolved with the concluding remarks offered by Advisor, NSF.



International Eco Club

Inauguration of International Eco Club Students Chapter was held at Auxilium College, Vellore on November 28. More than 3500 members joined the Eco Club and members took pledge to conserve nature. Similar event was held at Yenepoya University, Mangalore, Karnataka during the period under report.



Diamond Jubilee Audit Celebration of NSF

Nature Science Foundation crossed another milestone from the date of its Golden Jubilee Celebrations held on July 23. Of course, NSF functionaries executed the 75th onsite audit at various educational institutions located different parts of the country within a short time span. In order to celebrate the occasion, NSF organised a get together party at Ratna Residency, Coimbatore on October 30. During the celebration eve, NSF office bearers projected the way they have crossed from the start of NSF and during the pandemic situation; they also discussed and aimed to achieve the centenary audit within January 2023.



Entrepreneurship Development Programme

Development Programme in collaboration with Nehru Arts and Science College was conducted for the benefit of Tribal people residing at Maanar Village, Coimbatore District on November 26. In this programme, mushroom cultivation, vermicompost production and bakery items preparation were taught wherein 75 tribal families participated and benefitted. During the programme lunch was provided to all the participants. Dr. Aniruthan, Principal and Dr. R. Saranya, IQAC Coordinator, Nehru College of Arts and Science joined their hands along with NSF officials and glorified the occasion.



மலைவாழ் மக்களின் வாழ்வாதாரத்தை மேம்படுத்தும் வகையில் இயற்கை அறிவியல் நிறுவனம் மற்றும் நேரு கலை, அறிவியல் கல்லூரி சார்பில் மாணாரில் உள்ள அரசு பழங்குடியினர் உண்டு உறைவிட தொடக்கப்பள்ளியில் மக்களுக்கு ஒரு நாள் தொழில் முனைவதற்கான இலவச பயிற்சி முகாம் நடந்தது. இதில் காளான் தயாரிப்பு, பிஸ்கட் தயாரித்தல் பயிற்சி அளிக்கப்பட்டது. இதில் 75-க்கும் மேற்பட்ட குடும்பத்தினர் கலந்து கொண்டு பயிற்சி பெற்றனர்.

MoU signed...

During the period under report, NSF has signed five MoU with educational institutions individually in order to act upon mutually in nature conservation programmes. The institutes which signed MoU include, 1. Islamiah College, Vaniyambadi, 2. St. Peter's Institute of higher Education, Chennai, 3. Mazharul Uloom College, Ambur, Tirupattur, Tamil Nadu, 4. Yenepoya University, Mangalore, Karnataka and 5. Sudhakar Rao Naik Institute of Pharmacy, Psuad, Yavatmal, Maharashtra.



Activities of Nature Science Foundation

More than 25 on-site audits executed at various educational organisations by Nature Science Foundation during the period between October and December, 2022 are documented here under. In all the educational institutions, as a customary practice an opening meeting among the audit team and auditees was held wherein the purpose of auditing and procedures to be adopted during audit were presented. At the end of the on-site audit, an exit meet was held to suggest the recommendations to be followed for further improvement of sustainable learning environment of the campus by the Lead Auditor(s).

Green campus Audit was executed at Malnad College of Engineering, Hassan, Karnataka on October 12, 2022. A team directed by Dr. Helen Roselin Thomas, Lead Auditor, NSF performed the audit procedures.



A bundle of audit comprising Green Campus, Energy, Environment, Air Quality, Hygiene, Soil and Water audits were conducted at one of the Universities in peninsular southern India, The Andhra University, located at Vishakhapatnam, Andhra Pradesh on October 14 & 15. A team of Lead Auditors, Dr. D. Vinoth Kumar, Er. D. Dinesh Kumar and Ms. S. Sree Rohita Swathi were steered the audit procedures.



NSF proudly announce that it has been conducted International Green Campus and Environment audits at Daisy Technologies, Singapore through virtual mode on October 17. Dr.B. Madhusudhana Reddy and Dr.B. Anirudhan, Lead Auditors performed the entire proceedings..

A set of audits, Green Campus, Environment, Energy and ISO audits were conducted by NSF at Solamalai College of Engineering, Madurai on October 26. Drs. Alagappan Gandhi, M. Rajesh, J. Sebastian Raj, C. Annanthakumar and D. Vinoth Kumar from NSF performed the audits while Dr. Mohanram, IAQC Cordinator, Solamalai College of Engineering,



Madurai guided the auditors and auditing processes.

Green Campus, Environment and Energy audits were performed at Shri Sankarlal Sundarbai Shasun Jain College for Women, Chennai on October 28. Dr. Shandhini, Assistant Professor, Department of English represented from the college and guided the audit team where Drs. Amzad Basha Kolar, D. Mohan Doss, M. Masilamani, S.I. Beema Jainab, D. Vinoth Kumar and Er.D. Dinesh Kumar from NSF performed the audits and followed the auditing procedures.



Green Campus, Environment and Energy audits have been conducted at Hindustan College of Arts & Science, Chennai on October 29 where Dr.P. Nirmla, Assistant

Professor coordinated with NSF audit team. Drs. Amzad Basha Kolar, D. Mohan Doss, M. Masilamani, S.I. Beema Jainab, D. Vinoth Kumar and Er.D. Dinesh



Kumar from NSF performed the audits and followed the auditing procedures.

On request by St. Marys College, Wayanaad, Kerala, a set of audits including Green Campus, Environment and Energy audits were conducted by NSF on November 2. Dr. Jamel Joseph, IQAC Coordinator of the St. Marys College coordinated with the audit team. Lead auditors Dr. V. Suresh, Mr. S. Pranav and Dr.D. Vinoth Kumar represented NSF and executed the above audits.



Green Campus, Environment and Energy audits were performed at Trinity College for Women, Namakkal, Tamil Nadu on November 4 where the Lead Auditors from NSF, Dr. M. Jayashree and Dr.V. Balakrishnan executed the audit procedures.



Namakkal, Tamil Nadu, India

A package of audit comprising of Green Campus, Environment and Energy audits have been conducted by NSF Lead Auditors, Dr.M. Jayashree, Dr.K. Suresh Babu and Dr.D. Vinoth Kumar at Kaamadenu College of Arts and Science, Erode on November 5. From Kaamadenu College of Arts and Science, Ms. S. Kavitha and Mr.R. Hemnath, IQAC Coordinators extended their support to the auditors for the smooth audit proceedings.



In addition to a package of audit (green Campus, Environment and Energy audits), Waste Management audit was done at CMS College of Engineering and Technology, Coimbatore on November 7. IQAC Coordinator, Dr. Mohan represented CMS College of Engineering and Technology extended cooperation and support to the auditors for the smooth execution of audits. From NSF, Drs. S. Jayashree, T.G. Shejo, D. Vinoth Kumar and V.R. Muruganatham, Lead Auditors executed the allotted task within the time frame.



During the period under report, an audit has been exercised outside the state (Tamil Nadu) where Green Campus-, Energy- and Environment- audits were conducted at Krupanidhi Group of Institutions, Bangalore, Karnataka on November 12. The Principal of the educational institution, Dr.

Bhadrunisha extended support and coordinated with the NSF auditors. A team of Lead Auditor, Dr Helen Roseline Thomas and Er. P. Shanmugapriyan from NSF handled the audit procedures and conducted on-site visit in the campus.



Dr. Mohan IQAC coordinator of St. Peters Institute of Higher Education and Research, Chennai extended support and cooperation at the time of Green Campus, Environment and Energy audits in his work station on November 16. A team of auditors led by Dr. G.A. Asif Jamal, Dr. Amzad Basha Kolar and Dr. D. Vinoth Kumar represented NSF and conducted on-site audits.



A couple of audits inclusive of Green Campus, Energy, Environment and Waste Management audits were conducted at Islamiah College, Vaniambadi on November 17. Dr. Tarik, IQAC Coordinator guided and provided extensive support to the NSF auditors (Dr. Amzad Basha Kolar, Dr. Antony Raj, Dr.D. Vinoth



Kumar and Dr.M. Shahitullah) during the on-site audit at Islamiah College campus.

Comprehensive set of audit (Green Campus, Environment and Energy audits) was conducted at Antony's College, Vaniambadi on November 22. Dr. R. Mary Josephine, Dr.K. Jegatheesan, Dr.D. Vinoth Kumar and Dr.K. Manikandan from NSF were conducted on-site audits.



A detailed audit procedures was exercised at Marudhar Kesari Jain College for Women, Vaniyambadi where Green Campus, Energy and Environment Management policies were verified with available resources within the campus and facilities required for further improvement were suggested on November 23. Dr.N. Vijaya from Marudhar Kesari Jain College for Women extended cooperation to the audit members (Drs. R. Mary Josephine, K. Jegatheesan, D. Vinoth Kumar and K. Manikandan) from NSF.



Green Campus, Energy and Environment audits were performed at Don Bosco College, Tirupattur on November 24. Dr.A. Antony Raj, HOD, Department of Biotechnology extended his support to the audit team during on-site verification. A team of Lead Auditors comprising Dr. M. Rajesh, Dr. J. Sathish Kumar, Dr. D. Vinoth Kumar and Dr.B. Gopalsamy from NSF performed the audit protocols.



Besides the Green Campus, Environment and Energy audits, additionally Hygiene audit was carried out at Auxilium College, Vellore on November 28. Dr.A. Mary Agnes, Assistant Professor, Department of Zoology, Auxilium College coordinated in the entire proceedings. A team of Lead Auditor, Dr.R. Mary Josephine, Ms.V. Sri Santhya, Dr.L. Krishnasamy, Dr.D. Vinoth Kumar and Dr.J. Sebastian Raj from NSF conducted the entire proceedings.



At St. Thomas College, Chennai, Green Campus-, Energy and Environment audits were performed by NSF lead Auditors, Dr. Amzad Basha Kolar, Dr. D. Vinoth Kumar, Dr.L. Krishnasamy and Er. P. Shanmugapriyan on November 30. Mr. Shibi Mathai, Chief IQAC Coordinator, Assistant Professor and Head – CMS, Department of Computer Application coordinated with NSF lead auditors during their onsite visit.



As a first audit in the month of December, NSF audit team comprising of Dr.G. Manikandan and Dr.D. Vinoth Kumar performed

onsite audit including Green Campus, Energy and Environment assessment at Rohini College of Engineering and Technology, Kanyakumari on December 2. Dr. Ebbive, IQAC Coordinator of the college extended support to the auditors during their onsite review on available infrastructure facility within the campus.



Modestly, Green Campus audit alone was performed by Joint Director & Lead Auditor, NSF at A.D.M. College for Women, Nagapattinam. During the audit, Dr. Sindari, IQAC Coordinator extended support to the Auditor(s).



In addition to Green Campus, Energy and Environment audits, management of K.M.G. College of Arts and Science, Vellore preferred

to assess their Waste Management facility by NSF. The entire onsite assessments were performed at the campus with the coordination of Dr. Shobana Rani, IQAC Coordinator on December 12. Lead auditors, Dr.R. Vijayalakshmi, Ms. Aiswarya, Dr.D. Vinoth Kumar and Er. P. Shanmugapriyan privileged to conduct the entire proceedings on behalf of NSF and recommended suggestions for further improvement.



As a package, Green Campus, Energy and Environment audits were conducted by NSF representatives at Mazharul Uloom College, Ambur, Thirupattur on December 13. Dr. Shafee Ahmed Khan, IQAC Coordinator of Mazharul Uloom College extended support to the NSF auditors. Dr. Amzad Basha Kolar, Dr.S.I. Beema Jaainab, Dr.D. Vinoth Kumar and Ms.K. Vidhya, Lead Auditors deputed by NSF assessed the available facility at the college campus and completed the entire proceedings.



Outside the Tamil Nadu, a Green Campus Audit was conducted at New Education Society Arts, Commerce and Science College, Lanja, Ratnagiri, Mahrastra on December 21. Dr. Rajendra Arvind Shevde, Assistant Professor & IQAC Coordinator supported the

NSF lead auditor, Mr. Ariga Sarath Kumar during the onsite valuation of resources/facilities available within the college campus.



Apart from the green Campus, Environment and Energy audits, Waste Management audit was also performed at Yenepoya University, Mangalore, Karnataka on December 22. Dr. Bhagya B. Sharma, Assistant Professor, Department of Botany coordinated with NSF auditors. Dr.R. Mary Josephine, Ms.R. Thenmozhi, Dr.



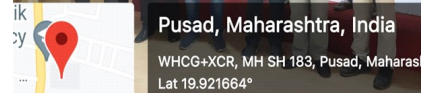
Sreekala K. Nair, Dr. S.J. Veeresh and Ms.V. Sri Santhya Lead Auditors from NSF performed the entire audit proceedings through onsite verification and interaction with concerned members responsible for available facility/resources within the University campus.



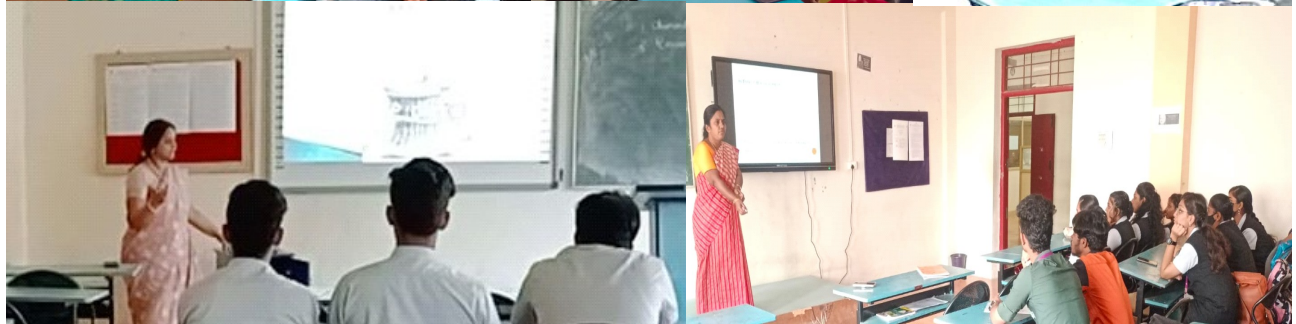
Green Campus, Environment and Energy audits were conducted at Sree Narayana Institute of Technology, Pathanamthitta, Kerala on December 26. Dr. Keshav Mohan, Former Director, Institute of Land Disaster Management and Member State Expert Appraisal Committee, Kerala coordinated with NSF lead auditors at the time of entire proceedings. A team of Lead Auditors, Dr.R. Mary Josephine, Dr. N.V. Dhanya, Ms. Thenmozhi Rajaram, Dr.K. Sreedharan, Dr. V. Suresh and Dr.S. Sheela were

performed the entire assessment in accordance with audit requirements.

Green Campus, Energy and Environment audits were conducted at Sudhakar Rao Naik of Pharmacy, Psuad, Yavatmal, Maharashtra on December 28. Dr. Arul Mahalee, Department of Pharmaceutics extended support to the Lead Auditors of NSF throughout the audit proceedings. Dr.D. Vinoth Kumar and Mr.C. Annathakumar, Lead Auditors, NSF performed the onsite assessment at premises of Sudhakarroa Naik of Pharmacy, Maharashtra.



Glimpses of photos - NASE



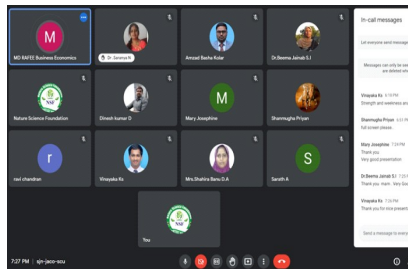
Ability Enhancement Compusory Course

In accordance with the MoU signed with Nehru Arts and Science College, Coimbatore, NSF organised theory classes to the First year graduate students under Ability Enhancement Compulsory Course programme on Environmental Science as a partial fulfilment of their curriculum during the period under report. Classes were handled by the Resource Persons from various institutions covering all aspects given under syllabus. Students were engaged with Industrial Visit to various places in and around the city to gain hands on experience in handling portable instruments and to expose themselves to prevailing environmental conditions to document the same. Students visited TNAU Insect Museum, Sugarcane Breeding Institute, IFGTB, Central Institute of Cotton Research, Regional Science Centre, and Salim Ali Centre for Ornithology and Natural History besides Ecosystems of Kovaipudur/Ukkadam Lakes.



Lead Auditor Training Programme

Nature Science Foundation organised a virtual training programme on ISO Energy Management System (50001: 2018), a certified Lead Auditor Training Programme in collaboration with QCS Management Systems Certifications accredited by GAF and IRQAO during 15-16 October. The training offers skills to conduct energy audits at institutions, companies and government sector agencies besides evaluate energy performance and offer energy savings opportunities. There were 15 participants enrolled to attend the programme. As per the schedule the training was conducted in successful manner.



Webinar series...

Dr. Sreekala K Nair, Director (R&D) delivered a online (Webinar) lecture on “Air pollution and its impact on life” organised by Student development cell, Eco Club of Sathyabama Institute of Science and Technology (Deemed to be University) on October 26.

As a guest speaker, Dr. Sreekala K Nair, Director (R&D) invited to deliver a talk on “Development of Livelihood activities among Tribes” at National Webinar Series on “Doubling farmers’ income” on November 3.

Publications...

Rajalakshmi,S., Sree Santhya.V., Anirudhan,B., Shani,N., and Saranya,N. 2022. Environmental Studies. Multiple Choice Questions for UG Students. NSF Publication. Nature Science Foundation, Coimbatore, Tamil Nadu. p.30.