प्रो. एम.पी. पूनीयाँ
उपाध्यक्ष
Prof. M.P. Poonia
Vice-Chairman

F.No. 11-1/SDC/C&SCA/2020
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To,

All Directors / Principal
AICTE Approved Institutes

Sub: Clean and Smart Campus

AICTE has recently launched the award for the Clean & Smart Campus. The concept note has already been uploaded on the AICTE website.

The award aims to seek engagement with all stakeholders – primarily the student community – to draw their attention towards the immense scope and potential that the technology offers for abstract objectives such as cleanliness, sustainability, environment etc. The Swatch Bharat Mission along with the UN Sustainable Development Goals offers a viable economic possibility to leverage the innovations of students and the institute.

The award shall be categorised in three sub-categories as under:

a) AICTE approved Polytechnics
b) AICTE approved colleges (including standalone PGDM institutes)
c) Universities / Deemed to be Universities running technical courses and approved by AICTE.
d) Award based on institute intervention on Indian Knowledge System (IKS).

It may kindly be noted that the higher category of the classification will be considered at all times. E.g. an institute running both diploma and degree programme will be categorised as per 2(b) above. Therefore, it is most important that application is submitted correctly. The same shall be verified from the approval status already granted.

I look forward to seeing wholesome participation by you in this connection.

(Prof. M.P. Poonia)
Vice Chairman, AICTE
4/12/20

CLEAN AND SMART CAMPUS AWARD 2020

1. The 'Swatch Bharat Mission' has catalyzed the importance and relevance of the India's journey to implement the cleanliness agenda in all walks of life with a motto of *'Swatch Bharat is Swasth Bharat'*. In doing so, AICTE had conducted the Clean Campus award in year 2017 to recognize the effort of the institutes and its stake holders for attaining the intended objectives.

2. It is evident that any long term solution to complex problems related to environment & sustainability comes with painstaking research. Not only these take a long time to get invented, but are, in some cases, not economically viable in short term. Fortunately, many of the digital technologies are now ripe and well poised to offer encouraging solution to these very problems for immediate use. The rising use of technologies especially IOT, robotics, cloud and automation have immense potential to **re-model a campus in to a smart campus**. These smart campuses can minimally help in **'forward delivery'** by optimising the use of, *inter alia* energy and water consumption in the campus. Other aspects such as effective waste management, sustainable transport, air pollution etc can also be achieved by 'smart' use of such technologies in tandem with traditional and proven practices. The aim of such 'forward delivery' shall be to induce the practices in the minds of the students to 'reduce' exploitation of the natural resources and to sustain the environment. Hence in the present context, these digital technologies constitute not just an option to exercise but an apparent choice to be embraced in AICTE approved institutes. Smart campuses would construct **'Smart Citizens'** – those who are **'future-ready'** for the Smart Cities and an even Smarter India. Moreover, engaging the stakeholders in transforming the institutes to have Clean and Smart Campus is also expected to facilitate dialogue and sharing of ideas amongst students, faculty and administrators towards the United Nations Sustainable Development Goals (UN SDGs).

3. The large spread and varied nature of our country offer various challenges and immense opportunities to develop solutions by innovative use of technology that can render the campus of an institute to be clean and smart. The ingenuity lies in following the basic principles of *Swatch* while leveraging the *'smartness through the network'* for achieving higher grades of efficiency in entire spectrum. The principle of 'learning by doing' would be the most effective education mechanism for the stake holders in such transformation. The efforts of the students, faculty and administrators of an institute may well turn out to be a game changer for other institutes through the networking model envisaged in the **Smart Campus Cloud Network (SCCN)**. Instituting an award on **'Clean & Smart Campus'** is, therefore, a unique initiative in the country to coalesce the efforts of the stake holders and incentivize the youth who are working towards the above objectives. The awards intend to cover the following aspects: -

(a) **Clean Campus.** This aspect will emphasize on three areas:

    (i) Cleanliness in and around the campus and waste minimization

    (ii) Environment-friendly activities adopted and practiced by the campus.

    (iii) Greenery within the campus to provide pollution free air and carbon-sink.

(b) **Smart Campus.** This will emphasize on the following aspects:

    (i) Impact of deployment of digital technology in order for the students, faculty and management in the campus to reduce consumption of natural resources (such as paper, gas, energy etc.).

    (ii) Alignment of the latest digital trends like IoT, Big Data and Cloud Networking to achieve various aspects of sustainability in the campus, specifically to contribute to United Nations SDGs.

    (iii) Create an ecosystem to 'smartly' connect and share the information with each other at campus, institute and national level. Any international level connect will provide a distinct advantage. The smart connect, though the cloud networking, so established should address concerns of environmental challenges including contribution to United Nations Sustainable Development Goals.

(c) **New Environment Policy** : The Award is also focused and aligned with the New Environment Policy of AICTE. Some of the questions have been incorporated to focus environmental issues. The AICTE Environment Policy in this aspect can be accessed at below link:-
https://www.aicte india.org/sites/default/files/Enviroment_Policy.pdf

(d) **Indian Knowledge System (IKS):** An IKS Division of Ministry of Education is functioning from AICTE. Hence,the AICTE approved institutes may focus on the areas of Indian traditional system to be adopted. Some part of the question has also been focused on the issue. Weightage will be given to those institutes who have worked in the field of Indian Knowledge System directly or indirectly subject to production of documentary evidence.

4 Broad Outline.

(c) An institute shall be allowed to send ~~only~~ **ONE nomination.** Once submitted no change in the application/ data/ options shall be permitted.

(d) A set of survey questionnaire shall be uploaded on ACITE portal for the same. This shall be objectively evaluated for the scores. The opening date for the same shall be announced later.

(e) Based on the objective evaluation criteria and initial screening, an expert committee will visit the shortlisted institute to verify the claims of the institute. **A wrongful, false and unverifiable submission shall debar the institute from further**

participation for next five years.

(f)   The institute shall produce all suitable documentation, showcase the work done, explain in detail the 'smart' component used in the campus etc in respect of the claims as made in the questionnaire. The cut-off date for such documentation shall be *30th September, 2020.*

(g)   The working model of the 'smart' component may be evaluated by the screening/ expert committee remotely by access through suitable mobile app/ login/ dashboard etc.

(h)   The expert committee shall also interact with the select student and faculty working/ involved with such activities. Endeavour shall be made to record such visit and showcase snippets of such effort at various events, in the form of visuals/short videos
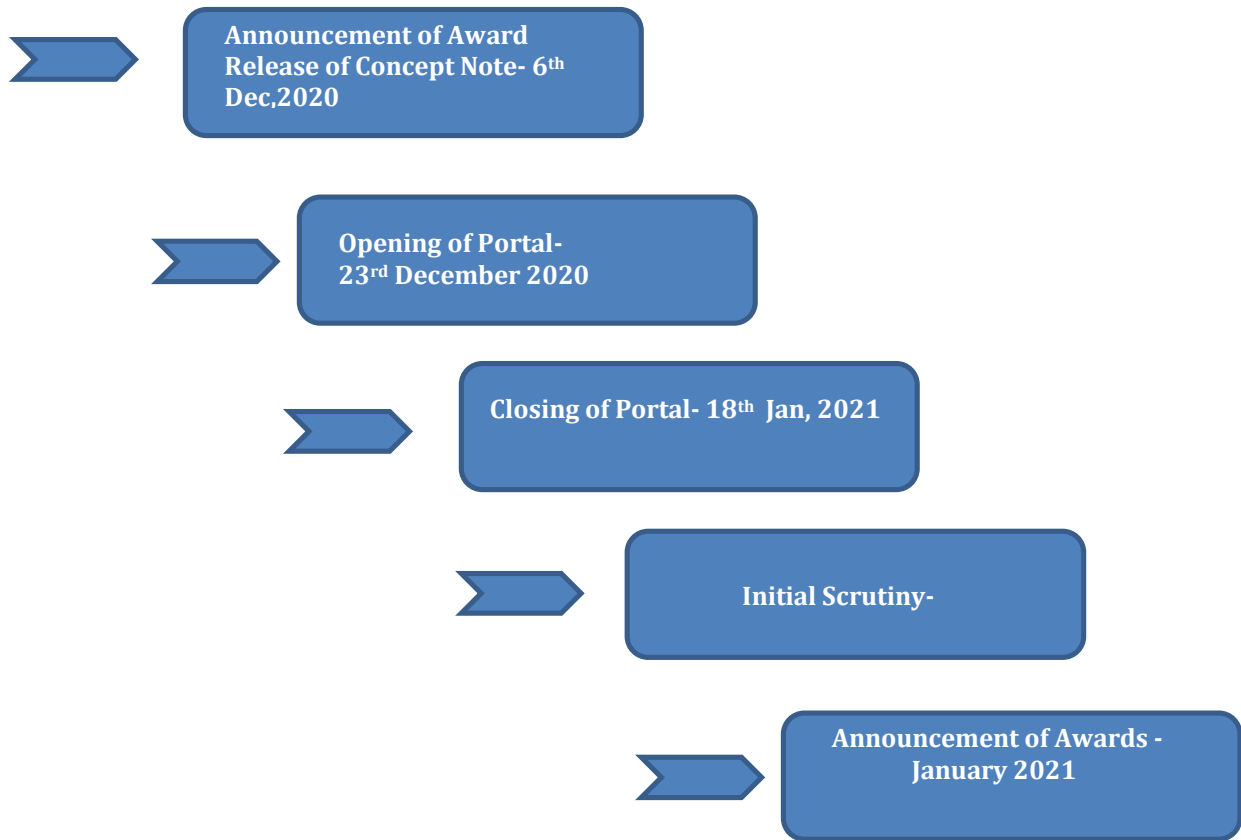
(i)   The reports and outcome of the visits shall be evaluated by the jury of experts and the results will be charted based on the merits of the case.

(j)   AICTE shall decide to confer/ restrict/ enhance the awards/ category as per the decision of the competent authority. Hence there shall be no claims to the contrary.

5   **About the Survey Questionnaire.** The Survey Questionnaire shall aim to elicit response of the institute on aspects of waste management, monitoring and controlling energy expenditure, use of renewable energy sources, waste minimization, sustainable mobility, participation of stake holders in Green events etc. The above topics are only illustrative in nature. While each question shall be self-explanatory, an explanation/annotation shall also be provided to clarify the context of the question. Such explanation shall be released along with the questionnaire. **Institute administrators/ faculty/ students are expected to comprehend and submit the response to the maximum questions**. However, separate explanations of the question to any institute shall not be provided.

6   **Time Lines.** The tentative timelines are as given under: -

Announcement of Award Release of Concept Note- 6th Dec,2020

Opening of Portal- 23rd December 2020

Closing of Portal- 18th Jan, 2021

Initial Scrutiny-

Announcement of Awards - January 2021

Sr.No.	Event	Date
1	Clean and Smart Campus Award-2020 notification on AICTE Portal	From: 6th Dec,2020
2.	Start of Submission of Online Proposal	From: 23rd Dec,2020
3.	Last date of Submission of Online Proposal	On 18th Jan,2021
4.	Initial Scrutiny of Proposals	To be intimated later
5.	Announcement of Awards	On January 2021

7   **Partners.** TERRE Policy Centre and International Institute of Waste Management have associated themselves with AICTE for contributing to the overall cause of the award. A small write-up about these organization is attached as Appendix A.

8   **Conclusion.** The objective of the award is to raise awareness of the students, faculty and institution towards the environmental sustainability issues, the potential of the digital technologies for the sustainable living and mainstreaming United Nations Sustainable Development Goals in our education systems. A small brief on SDG is also attached as Appendix B. Some of these issues including SDGs are not an end but are great engines of future growth with lateral avenues of economic and shared development in the country. New age digital technology if applied and practiced in the right direction can act as driver to the employment generation through inclusivity rather than seeking distinctiveness in isolation. In short, the award aims to incentivize and foresee the need to make human resource aware (and be ready!) of sustainable future and to embrace the smart city eco- system being created and be an effective contributor to SDGs so that ' no one is left behind'.

AICTE PARTNERS IN EXECUTION

1   **TERRE Policy Centre** (www.terrepolicycentre.com) is a **non-profit**, non-partisan and independent organization dedicated to sustainable solutions to our developmental imperatives. TERRE also is the abbreviation for 'Technology, Education, Research and Rehabilitation for the Environment.' TERRE strives to reach all strata of society, particularly the young generation and people at the bottom of the pyramid with capacity building tools on energy and food security. **SCCN** (www.sccnhub.com) is one of the flagship projects of TERRE Policy Centre that facilitates colleges and universities to mainstream the future policy-makers and policy-implementers in implementing the SDGs by promoting sharing of the information on transformative actions undertaken by students and faculties in the campus. It encourages to deploy the digital technologies like IoT (Internet of Thing), AI (Artificial Intelligence), Cloud-networking, Machine-to-machine learning & Block chain for optimum use of energy, water and catalyse effective waste management, sustainable transport, air pollution and nature conservation within the campus. While the formal MoU with AICTE is under consideration, **institutes are at liberty to seek advice with TERRE/SCCN on such matters.**

2.   **International Institute of Waste Management.** International Institute of Waste Management (IIWM) (www.iiwm.in) is a "**Not-for-Profit**" organization. The organization was founded in 2009, as Ministry of Science and Technology Project at Bhopal. In due course of time, with its humongous contribution in waste management, the project evolved into a full-fledged organization. Today, IIWM supports the Government in creating an impetus in the field of waste management activities. IIWM's focus area of work is in the field of solid and liquid waste management. The Green Campus Award was launched in 2017 by AICTE in collaboration with IIWM. The MoU in this aspect can be accessed at https://www.aicte-india.org/sites/default/files/AICTE-IIWM%20MoU.compressed.pdf

BRIEF

UNITED NATIONS DEVELOPMENT ROGRAMME SUSTAINABLE DEVELOPMENT GOALS

1.   Sustainable development has been defined as development that meets the needs of the present without compromising the ability of future generations to meet their own needs. The Sustainable Development Goals are the blueprint to achieve a better and more sustainable future for all. The Goals interconnect and in order to leave no one behind, it ís important that we achieve each Goal and target by 2030.

2.   On 1 January 2016, the 17 Sustainable Development Goals (SDGs) of the 2030 Agenda for Sustainable Development officially came into force. These Goals that universally apply to all, countries will mobilize efforts to end all forms of poverty, fight inequalities and tackle climate change, while ensuring that no one is left behind. The SDGs are unique in that they recognize that ending poverty must go hand-in-hand with strategies that build economic growth and addresses a range of social needs including education, health, social protection, and job opportunities, while tackling climate change and environmental protection. Sustainable development calls for concerted efforts towards building an inclusive, sustainable and resilient future for people and planet.

3.   For sustainable development to be achieved, it is crucial to harmonize three core elements: economic growth, social inclusion and environmental protection. These elements are interconnected and all are crucial for the well-being of individuals and societies.

4.   The 17 SDGs are as follows:-

1) No Poverty	2) Zero Hunger
3) Good Health and Well-being	4) Quality Education
5) Gender Equality	6) Clean Water and Sanitation
7) Affordable and Clean Energy	8) Decent Work and Economic Growth
9) Industry, Innovation, and Infrastructure	10) Reducing Inequality
11) Sustainable Cities and Communities	12) Responsible Consumption and Production
13) Climate Action	14) Life Below Water
15) Life On Land	16) Peace, Justice, and Strong Institutions
17) Partnerships for the Goals	

Indian Knowledge System (IKS)

- **Vision**:

To promote interdisciplinary research on all aspects of "Indian Knowledge Systems", preserve and disseminate "Indian Knowledge System" for further research and societal applications

- **Mission**:
1. Create a database of individuals and organizations who have contributed by way of Research, Teaching, Publication and Preservation of ancient and contemporary rich Indian knowledge systems ranging from art, music, dance, drama, to mathematics, astronomy, science, technology, life sciences, environment and natural sciences, health care, yoga, law, jurisprudence, economics, social sciences, psychology, philosophy, management, linguistics, oral traditions of India, knowledge hidden in Sanskrit, Prakrit,, Tamil, Pali, etc.
2. Create portal for archival and dissemination of this rich knowledge and also create an open portal and keep it dynamic and live like wiki, in a PPP mode.
3. Promote and enable further research to address the societal challenges faced today in several areas including holistic health, psychology, neuroscience, nature, environment, and sustainable development.
4. To identify scholars and institutions who have worked in various areas of IKS and their works and to categorize the major areas.
5. To get reports of work done by all people who have contributed to IKS and bring out regular publications.
6. To promote research in IKS for providing proof of concepts, new knowledge generation, effective interdisciplinary work useful for society.
7. To create research fellowships or fellowships of visiting Professors/ Scientists/ Scholars: Sanskrit Professors in IITs/ IISERs/IIMs/ Universities and Professors of Science and Technology in Sanskrit universities.
8. To provide financial assistance to research activities, workshops, seminars and publications for furthering the cause of IKS.
9. To suggest measures to integrate IKS in text books and reference books of modern disciplines of knowledge offered at school and higher education.
10. To establish IKS cells in General universities, Sanskrit Universities, and other institutions under MoE.
11. To initiate collaboration/ coordination between institutions under MoE, other ministries, departments, independent scholars, NGOs and private institutions working in the field of IKS to promote interdisciplinary research involving modern streams and ancient Shastras.
12. To explore and adopt a PPP model, wherever feasible (e.g. creating a wiki type platform and comprehensive IKS portal)

13. To constitute Expert Groups and committees to plan, execute and oversee the objectives of IKS division.
14. To take up any step, work, project or activity to further the cause of IKS.

⊕ **Functions of IKS division**:

1) Its primary function is to facilitate, coordinate the interdisciplinary work done by various institutions in India and abroad including Universities, institutions of national importance, R&D lab and different ministries.
2) Establish, guide and monitor Subject wise interdisciplinary research groups comprising of researchers from institutes and centers and individuals.
3) Create and promote popularization schemes.
4) Facilitate funding of various projects and develop mechanisms to undertake research.

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