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प्राचीन एवं आधुनिक भारतीय ज्ञान पद्धति के
परिपेक्ष में सतत विकास
विज्ञान अभियांत्रिकी एवं प्रौद्योगिकी
की भूमिका पर राष्ट्रीय संगोष्ठी
कार्तिक मास, कृष्ण पक्ष, विक्रम संवत् 2080



NATIONAL CONFERENCE

on

**Sustainable Development in Context of
Ancient & Modern Indian Knowledge System -
Role of Science Engineering and Technology**

(Bilingual: Hindi & English)

November 3, 2023

Venue

Teerthanker Mahaveer University, Moradabad, UP

Organisers:

Swadeshi Science Movement of India, Delhi

www.swadeshisciences.org

Teerthanker Mahaveer University

www.tmu.ac.in

AIMS - PREAMBLE

To adopt and develop Bharatiya languages as media of Science, Engineering & Technology (SET) at all levels, especially in taking SET to the masses and to spread the splendid contributions of ancient SET, Bharatiya civilization, culture and art amongst students / youth for laying the foundation of modern sciences towards establishing that modern science is not all a western product.

To undertake the challenge to connect a vast reservoir of innovations by the invisible informal sector viz. artisans, craftsmen, farmers and tribal to the visible established institutions through nurturing a culture of seamlessness in all facets of life and inputs of modern SET integrated with the traditional knowledge towards a major drive of an integrated outreach of targeted R & D for successfully replicating the technology as a sustainable & viable unit towards Rural development using Make in India drive of the Govt.



Keeping in mind that the gap between the supply & demand in housing is bound to increase every year due to population explosion, rapid industrialization and urbanization, migration of rural people to urban centres, breakup of joint families, general lack of housing standards throughout the country, etc., one could bring the gap within limits by improving existing villages, adopting appropriate and cost effective technologies in construction, optimum utilization of limited resources of land, finance & building materials, adopting modular co-ordination leading to standardization of building components & adopting coconut husk, vegetable reinforced concrete, Bamboo Mat Board, Banana leaves & stalks plastics, etc. as the reinforcing materials be considered for the meaningful prosperity of the targeted innovations. Mother earth as a raw building material satisfies all the criteria for a technology to be called appropriate to counter the seemingly.

ABOUT THE INSTITUTION

unmanageable shelter problem in both rural and urban (slum) areas that is severely limited by the shortage of supply of basic materials, mainly fired bricks, cement & steel and more so increased dependence on industrial materials & man power, their rising cost being a major hurdle of the poor to adequate shelter which again hardly contribute to the local economy and are



generally polluting in nature. At the same time, traditional earth buildings suffer from several limitations including water penetration, erosion of walls, and attack by termites and pests, high maintenance requirements, etc. Use of compressed Earth Blocks though already developed in place of traditional raw earth (mud) bricks, has overcome the limitations by increasing block density & stability and possess the benefit of being manufactured locally with its contribution to the local economy as well due abundance in rural areas that followed the use to the local availability of the Raw material in of Roofs made of prefabricated rafters (wooden), MCR tiles and Guna Vault Roof tiles, etc. by meeting the drinking water necessity of the rural households. Congress 1999, SSM'D contributed in the area of societal obligations e.g. a technology in construction, optimum utilization of communities/ tribal (Resource: DST Technology models for rural applications 2001); the need of the hour still remains to augment the supply of affordable and energy-efficient building materials, which in turn calls for technological interventions to demonstrate it as an economically viable technology in the enterprise mode. With the National capital and its adjoining areas precariously placed in a seismically active zone & the tremors of the seismic shock elsewhere yet to die down and also there is no way that we can stop quakes from striking anywhere in the world, what we can do, however, is to reduce the damage inflicted by seismic shocks wherein deliberations on indigenous economically viable, durable and low energy option

type innovation is the need of the hour for the development of sustainable construction material as an alternative to cement based construction.

Among the most serious problems in water resources is the degradation of ground water or water pollution which comes from industrial effluents, pesticides used in agriculture and waste disposal. Fearsome truth is that ground water pollution, once effected, is often irreversible which requires protection and careful management of the water resources. The water crisis in our country is more due to water mismanagement than actual water scarcity. India has had a great tradition in harvesting water efficiently where outstanding examples of successful management of water by communities need exposure and planning for rural housing definitely needs effective planning of water, energy and wastewater management with component of Integrated Water Resources Management in the region for accomplishing 'National Water Mission' and 'Namami Gange' type of noble endeavours of the Govt. towards a Rural - Urban connect eg. low-cost materials from say Bio-wastes could be used for water purification to meet the drinking water necessity of the rural households.

SET should not have devil objective. SET shouldn't strive to commercialization against ethics/morals. SET shouldn't be above society. SET not contributing towards the welfare of people, should be considered useless.

To cooperate, collaborate and coordinate with other societies or organizations pursuing allied aims.

AREA TO BE COVERED

Sub Theme: Broadly (But not limited to) sub themes of the conference will be as under-

- Climate change
- Sciences and Humanities
- Engineering & Technology
- Management and Finance
- Indian Knowledge System
- Governance and policies.
- Natural Resources management.
- Sustainable mobility.
- Waste management.

FEW SUCCESS STORIES OF THE SSM'D

- CSIR-Bharatiya Vaigyanik Evam Audhyogik Anusandhan Patrika: Vol. 12 (1), 2004, p. 1-180; Vol. 12(2), 2004, p. 181-348; Vol. 15(1), 2007, p.1-108;

Vol. 15 (2), 2007, p. 109-196; Vol. 18(1), 2010, p.1-108; Vol. 19(2), 2011, p. 105-222; Vol. 21(1) 2013, p. 1-96.

- A Special commemorative issue in the Journal of Environmental Nanotechnology Vol. 2, 2013; Vignyan Bharati Pradeepika (Joint Special Issue), Vol. 6 (1 & 2), 2000, p. 1-204 and a Book on Electroplating & Metal Finishing "Bilingual", 1997, Shipra Publications, Delhi, p. 1-309.
- National Conference on Innovations in Indian SET - 2006, 2009 & 2013, National Science Congress in Indian languages- 2010, 3rd Akhil Bharatiya Vignyan Sammelan - 2004, National Symposium on Ancient SET Interfaced with Modern Knowledge - 2001, National Conference on Swadeshi Vignyan- 2000 and Swadeshi Vignyan Mela- 2000.
- Bestowed with the International felicitation in the capital through Dr. A R Kidwai, His Excellency then Hon'ble Governor, Haryana during the 6th World Environment Congress 1999.
- SSM'D contributed in the area of societal obligations eg. Godly support to the 2 families of 2 villages in the Guptakashi Dist. affected due to the Uttarakhand National Tragedy 2013.
- SSM (the parent organization grown up under the Leadership of Prof. K I Vasu, Formerly Director, CSIR-CECRI) has developed a model village in Tamilnadu by establishing small & microenterprises in Kundrakkudi and adjoining villages in the Block Panchayat level through a voluntary S & Tservice modus-operandi.
- SRTM University, Nanded gave SSM'D an opportunity to attend the 11th Inter- University Science Festival "AVISKAR" 2017 - An unique programme initiated by the Hon'ble Governor, Maharashtra in which Dr. D P Bhatt, President had the Honor of inaugurating the festival as the Chief-Guest (2017)
- Navati Felicitation & Tribute to Prof. K I Vasu : Workshop on "The Interface of Science & Society 2018", NPL - SSM'D MEMOIR 2018.
- To commemorate the occasion of 150 years celebration of Mahatma Gandhi Jayanti, organized Nukkad Road Shows jointly with NIET, Greater Noida on cleanliness drive in G.B. Nagar, U.P. (November 2019).
- During the Covid-19 time, released the E-Swadeshi Vignyan Patrika 2020 inaugural issue through Prof. Praveen Kumar, IIT Roorkee (then Director, NIT Delhi) in the presence of Invited Guest, Dr. Anjan Ray, Director, CSIR-IIP Dehradun.

ABOUT THE INSTITUTION

Teerthanker Mahaveer University, the Best Private University in UP, established by an 'Act' (No. 30) of 2008 of the Government of Uttar Pradesh, approved by the University Grants Commission (UGC) in 2008, vide letter No. F. 9-31/2008 (CPP-1) dated October 2008. n National Highway 9, 144 Km from New Delhi, TMU stands committed to the ideals of Lord Mahaveer - Right Philosophy, Right Knowledge and Right Conduct in all spheres of activity and aspires to be the ultimate destination for world-class education. As a multi-disciplinary varsity, we offer career-oriented programmes at all levels, i.e., UG, PG, and Doctoral degrees across diverse streams Medical, Dental, Pharmacy, Nursing, Paramedical Sciences, Physiotherapy, Hospital Administration, Physical Education, Management, Engineering, Polytechnic, Law, Fine Arts, Agriculture and Jain Studies to meet rising aspirations of the youth. Education at TMU is not just about books and classrooms, but also about personality development and honing special skills. We provide an environment conducive to teaching and learning supported by innovative practices.

FACULTY OF ENGINEERING

An AICTE-approved institute with academic Excellence in Engineering, Technology, and Sciences is a unique place for competent engineers. The faculty of engineering has nine academic departments with around a hundred full-time faculty members. It offers programmes at Bachelor, Post-Graduate and Doctoral levels, covering major branches of engineering and sciences.

DEPARTMENT OF CIVIL ENGINEERING

Bachelor of Technology (B.Tech.) in Civil Engineering is undergraduate engineering of four years' duration. Department has well qualified faculty members, well established laboratory facilities. In 2023 department has establish "Centre for Excellence" in collaboration with Ultra-Tech Cement (An Aditya Brila Group) so that students get updated with technology and construction material used as per current market scenario.

SPONSORSHIPS AND PARTICIPATION

Lunch sponsorship fee: Rs. 50,000/- (Min.) (includes free pass for 2 delegates and projection of the sponsor's background through Banners during the Conference).

*High Tea sponsorship fee: Rs. 20,000/-

Advertisement Tariff for the Bilingual Souvenir, to be released at the time of the Conference:
 Back page 4 (Multi colour): Rs.20000/- Inside page 2-front (Multi colour): Rs.15000/- Inside page 3-back (Multi colour): Rs.12000/- Inside Full page (B & W): Rs.10000/- Inside Half page (B&W): Rs.6000/-; Inside Quarter page (B&W): Rs.4000/-
 Registration Fee:
 Rs.1000/- (Institutional)
 Rs.500/- (Individual)
 Rs.400/ (SSMD Members/ TMU Faculty)
 Rs.250/- (Students)
 Life Membership subscription of SSM'D (Optional): Rs.2000/-
 (For new members, registration fee will be waived)

FACULTY OF ENGINEERING Number of invited discourses (30 minutes each) plus oral (12 minutes each) and poster (space allotted: 1.2 m x 1 m) has been planned on first come first served basis. Registration fee includes the provision for the delegate to receive the publication & complimentary materials of the conference, Food, etc. All kinds of payments must be made as DD/Local cheque in favour of Swadeshi Science Movement of India, Delhi.

Alternatively, online payment in the S/B account may also be possible on request. It is proposed to publish the selected papers in the Swadeshi Vigyan Patrika (ISSN 2582-9440) and Journal of Environmental Nanotechnology (ISSN 2319-5541). General Body Meeting of SSM'D is also scheduled after Conference.
 Registration Link:
<https://forms.gle/iVgBTGcaTj3MUGLH9>
 Bank Account Details:
 Account Name: Swadeshi Science Movement of India
 Account No. SB/10964472430
 IFSC Code: SBIN0001282
 Bank Name: State Bank of India
 Branch Name: East Patel Nagar, New Delhi-110008

PURASKARS

Continuing with our tradition to organize a public function on this occasion, different awards will be bestowed for the tenth time eg. Swadeshi Vigyan Puraskar will be given to those Nationalistic persons/institutions who have contributed significantly in SET, Social and Skill Education of the nation. Arya Bhatt Puraskar will be given to the selected Science writers/ Journalists who have had the distinction of reaching out to the common man through their scientific

skill at the popular level. The selection committee will also decide "on the spot" for the Arya Bhatt Samman to be bestowed to those 5 innovators/ tribal/ artisans/ craftsmen/ farmers who present the best paper/ product demo in the conference.

NATIONAL ORGANIZING COMMITTEE

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Prof. K I Vasu, Formerly Director, CSIR-CECRI, Founder President, Vigyan Bharati
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 Mr. Manish Jain, Hon'ble Group Vice Chairman TMU, Moradabad, U.P.
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 Mr. Manoj Kumar Tripathi, AAO, DAD, Jhansi

SPECIAL DATES OF SUBMISSION

Two copies of abstracts Bilingual (250 words) Extended date for abstract submission	Sept. 30th, 2023 Oct. 05th, 2023
Two copies of full papers (max. 5000 words) along with CD/ softcopy, after the acceptance of abstracts from the organisers	Oct. 15th, 2023
Registration and Other Payments	Oct. 31st, 2023

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REGISTRATION FORM

(More copies can be made on photo copier)

Name:

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Title of the paper and authors:

Abstract of the paper submitted in Hindi & English in duplicate (250 words) for Bilingual Souvenir: Yes/No

(Soft copy of the abstract using MS word (preferable Kruti Dev or Narad fonts for Hindi Typing) could also be sent)

Advertisement matter is enclosed for publication along with the draft: Yes/No

Accommodation required: Yes/No

Stall size of sq. m. is booked for display & demo: Yes/No

Payment Details

DD/Local Cheque No/ Online Detail.....

Last date of submission 31 Oct. 2023

Date

Signature

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*Kindly intimate mode of participation (Physical / Virtual)

**Link of virtual participation will be shared after registration