TECHNICAL ACTIVITY CARRIED OUT BY CENTRES / OVERSEAS CHAPTERS

Name of Centre / Overseas Chapter:	**Meerut Local Centre**

Title of Activity:	**World Engineering Day for Sustainable Development**		
Activity under Divisional Board (delete which are not applicable):	**Statutory Day**		
Date:	04-03-2024	Venue:	**Online on Google Meet**

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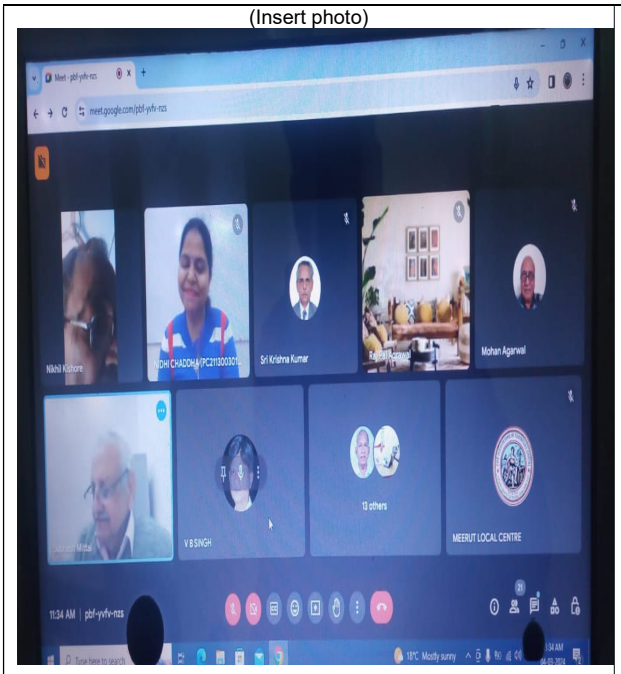	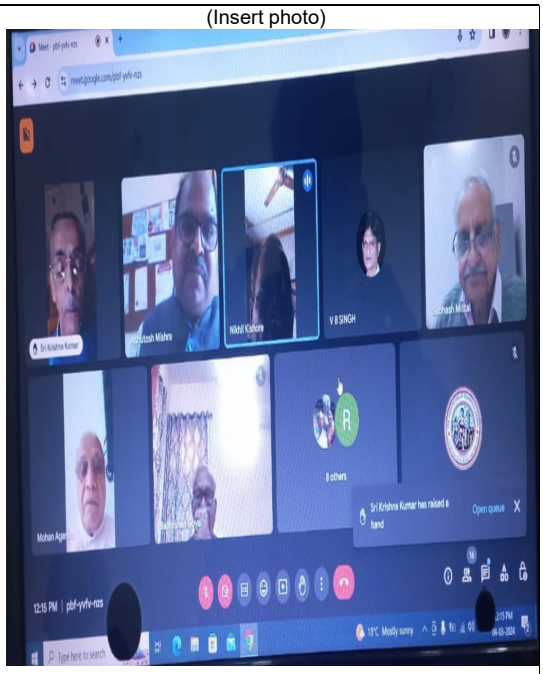
Title of photo : Screenshot of the Webinar	**Title of photo : Screenshot of the Webinar**

Brief Report (**not exceeding 4000 characters**)

On March 4th 2024, A webinar was held to celebrate World Engineering Day, chaired by Er. R.P. Agrawal, Chairman, and co- chaired by Honorary Secretary Er. S.C. Mittal. The online event was convened by Er. Nikhil Kishore Joint, Secretary with three keynote speakers: Ms. Nidhi Bhatia, Asstt. Professor, Er. Ashutosh Mishra Asstt. Professor at SCRIET Meerut; and Er. S.C. Mittal himself.

The event commenced with Er. Nikhil Kishore providing insights into the significance of World Engineering Day emphasizing its role to highlight engineering contributions to sustainable development. He elaborated on UNESCO's proclamation of this day during its 40th General Conference in 2019, marking it as an international celebration of engineers and engineering since 2020. The theme for this year, as set by UNESCO, was "Engineering Solutions for a Sustainable World."

Ms. Nidhi Bhatia delivered a keynote address focusing on the essence and necessity of sustainable development. She discussed various measures required to build a sustainable world, including the promotion of renewable energy, waste

reduction, water conservation, sustainable agriculture, and eco-friendly transportation. Highlighting state-of-the –art engineering solutions such as solar panels, green buildings, wind turbines, LED lighting, electric vehicles, and desalination technologies. She also outlined policies of Indian government towards sustainable development.

Er. S.C. Mittal, in his address, elaborated on energy conservation methods, illustrating them through anecdotes. He emphasized that engineers can leverage emerging technologies such as artificial intelligence, machine learning, and the Internet of Things to optimize resource utilization, improve environmental monitoring, and enhance the efficiency of our infrastructure systems. By harnessing the power of data and analytics, we can make informed decisions, identify areas for improvement, and optimize the performance of our systems in real-time, Er. Mittal stated.

In conclusion, Er. Mittal said, the pursuit of a sustainable world requires a concerted effort from all sectors of society, with engineers playing a central role in driving innovation, implementing solutions, and shaping the future of our planet. By harnessing the power of renewable energy, embracing principles of sustainable design, and leveraging technology to address environmental challenges, with it. Together, let us embark on this transformative journey towards a moré sustainable and equitable future for all. The importance of adopting engineering solutions of energy conservation and sustainable development, concluding with suggestions for future endeavors.

Er. Ashutosh Mishra, an expert in Agricultural Engineering, discussed the necessity of transitioning from traditional energy sources to non-conventional ones like solar, wind and biogas. He proposed the development of systems promoting the use of these energies and suggested innovative measures such as Artificial Intelligence-based irrigation systems and solar-operated agricultural equipment.

The webinar concluded with Er. Nikhil Kishore expressing gratitude to all speakers and attendees. Suggestions for future engineering solutions, including drone-operated agricultural systems, were also discussed. Er. S.C. Mittal on behalf of all engineers of Local Centre of Institution of Engineers Meerut extended thanks to all participants, making the end of the event.