



IETSC NEWSLETTER

Vol. IV

Number – 04

28, April 2021

Price Rs. 0.25 Ps.



From the Chairman's Desk

Dear Fellow fraternity,

We all know that the earth is the most beautiful and a blue planet in the Universe. The Earth is our only home. We have nowhere else to go. According to a famous Hindi song, "Jeena yaha, Marna yaha, Iske bina (siva) jana kahan?" Unfortunately, there is no Planet B for us.

It provides us with food, water, shelter, air and most of our daily necessities. But we, humans, are being very cruel to our Earth. Gandhi ji has said "Earth provides enough to satisfy every man's need but not for every man's greed". Earth is now in peril.

Every day we produce umpteen number of tons of non-degradable plastic waste and throw it into sea ultimately. We are disposing off dirty sewage and industrial effluents recklessly. We are polluting water resources endlessly.

We are destroying forests for mining and agriculture. We are building factories beyond earth's carrying capacity. Water and air pollution are increasing the risk of water-borne diseases and lung diseases and impacting our mental ability. Deforestation is leading to floods, droughts and changing rainfall patterns.

Temperature increase due to global warming is melting polar ice caps. Overfishing is depleting our fish resources. Wildlife trade is resulting into zoonotic diseases like corona virus which is engulfing the entire mankind today. Together we can save the earth by halting this loss of nature. Technologies are available. Remote sensing technologies are able to monitor the state of the natural resources existing on our planet.

Renewable energy technologies are able to provide alternatives to fossil fuels. Business and industrial sectors will have to adopt newer technologies for sustainable development. The developed nations have to transfer such technologies to developing nations. The international community has to implement Sustainable Development Goals and Paris agreement.

Apart from actions by nations and organizations, we as individuals also can contribute to saving our Earth. We can reduce our own carbon footprint by reducing unsustainable consumption. We can raise awareness among our friends, neighbours and community conducting workshops and seminars. We can organize sanitation programs and afforestation programs by planting more trees. We can also appeal to the government to bring eco-friendly development policies.

We have to repay our debt to Mother Nature and protect our planet. This is the time to act. Every day is an Earth Day for all of us.

So, it becomes our sacred duty to preserve and protect our Planet Earth for our sake and for the sake of the future generations. If we are reckless, there won't be this Planet and there will be no future generations either.

Covid-19 is an astounding global disaster. The world has not witnessed such a huge calamity before. In scale and magnitude, it's like World War III. The entire world is shaken. The human activity around the globe is disrupted. Economies are badly destroyed. Jobs are lost. GDPs are eroded. This pandemic is like a hundred epidemics attacking the human life on the earth and the livelihoods of people.

The SARS CoV-2 pandemic continues to hit many states hard and India in particular. In India the situation has worsened dramatically during the past few days with new daily infection and fatality records being set, oxygen shortages and the spread of new mutations, etc. Our sympathy goes to the families of the victims of these tragic developments.

The danger is still lurking around. We are already witnessing and experiencing the second wave of the dreaded Corona virus. Staying healthy and staying safe has become the biggest challenge today.

It is the collective responsibility of the governments, local bodies, corporates, NGOs, and the citizens to join the fight against Covid-19 and eradicate the pandemic and its after-effects. This pandemic has left behind a trail of death and destruction and innumerable problems. We still have to come to terms with the aftermath of Covid-19.

First and foremost, we have to restore the livelihoods. The economy should be brought back on to the rails. We have to slowly and steadily regain the speed. We should get back on the path of growth.

Secondly, we must strengthen our healthcare infrastructure. Public health system needs to be revamped in a big way. Hygiene deserves to occupy a position of higher importance. The immunity of the people needs to be enhanced through better and improved nutrition. People should be encouraged to consume organic foods. R&D in the pharma sector and particularly in the area of nutraceuticals must get greater attention and higher allocations.

We must pay greater attention to sanitation. Programs like Swachh Bharat must be implemented with greater vigour. Pollution levels must be brought under control. Food adulteration must be strictly prevented. Adulteration in all other fields also must be stopped. Corruption is a cousin of Corona. We must put an end to it. More importantly, we must ensure the regular supply of pure drinking water.

Forests must be conserved and protected. Environmental degradation must be prevented. Biodiversity must be preserved. Natural resources must be used judiciously. Wastage of every kind must be eliminated. We must be immune to disasters and build robust and sustainable systems.

The UNO and all its organs must energetically strive to achieve Millennium Development Goals and Sustainable Development Goals. The nations of the world must implement Kyoto Protocol and all international conventions to safeguard the interests of the peoples of the world and make our world a better place to live.


Together, we can prevent the coming disasters of climate change and environmental destruction. Together, we can restore our Earth liveable.

As the world returns to normal, we can't go back to business as usual. Now is the time to consider what sort of world we intend to build. Luckily, there are several opportunities, both in-person and virtual, for all of us to craft a brighter, greener world on Earth and beyond.

Let's lead and live a healthy life. And envision a healthy planet.

God bless us!

With regards,


(Dr G RAMESHWAR RAO, FIE)
Chairman

Chairman
Dr G Rameshwar Rao, FIE

Hon. Secretary
Er T Anjaiah, FIE

Jt. Hon. Secretaries

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Prof. G Radhakrishna, FIE

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VENUE FOR PROGRAMMES

"Visvesvaraya Bhavan" Khairatabad, Hyderabad - 500 004. Ph : 040-2331 4969

E-mail : telanganasc@ieindia.org | ietelanganasc@gmail.com | Website : www.ietsc.org.in



The Institution of Engineers (India)
TELANGANA STATE CENTRE

A Century of Service to the Nation



From the Hon. Secretary's Desk

Dear Fellow Fraternity,

DEVELOPMENT OF TECHNOLOGY

The republic of India has undergone phenomenal growth in science and technology over the past few decades. There has also been incredible growth in applied science and technology which is evidenced by the establishment of a host of industries, research organisations and other agencies engaged in a plethora of related work.

To-day among others, India is successfully exploring the space research and ranked as one of the best scientifically developing countries.

The technological changes have been gradual but very perceptible and used practically for the welfare of the humanity in general and development of our country in particular. Some of the reputed organisations instrumental in carrying forward the benefits of the research, to mention a few, included ICMR, DRDO, DRDL, ISRO, Government agencies like Jalasakti Ministry, ONGC, R&B, Construction and also reputed corporate houses. Of late, use of unmanned drone both for civil, medical and defence utilities have been gaining momentum. Development of technical textiles & production of medical textiles like masks, PPES, Ventilators etc. has revolutionised the use of technology.

The development of digital technology and their use are mind blowing. Some of the emerging sectors which are now predominantly gaining momentum are to mention a few -

Artificial Intelligence (AI), Internet of things (IoT), Cloud computing, Block Chain, 3D Printing, Robotic Process automation, Big data Analysis and others.

These subjects are mostly taught to qualified engineers for skilling and reskilling them to avail of their services in these emerging areas.

With an enviable record pool of scientific and technical manpower, I feel India, in the future, will be one of the most advanced technological powers in every field conceivable by humanity.

And, to conclude, I would like to profusely thank all the engineers, scientists and technologists for their immense contribution and spectacular role for the technological development in every field of activity. And to celebrate the success and to carry forward further "Technology Day" has been regularly observed on 11th May every year. This year we are observing the day on 11th May 2021 through a webinar.

Hence, I would appeal all of you to kindly participate in the webinar and contribute to the success of the event.

Meanwhile, take great care of yourself and your family in these worst pandemic days.

Thanking you,


(Er T ANJAIH, FIE)
Hon. Secretary

National Survey Day Theme: "Surveying Using Drone Imagery"

April 10, 2021: IEI, Telangana State Centre and GeoMap Society (GEMS) jointly organized National Survey Day on the theme "Surveying Using Drone Imagery" held on 10th April, 2021 at 17.00hrs through ZOOM Cloud Meeting. **Er T CH Hanuman Rao**, FIE, Sr Transmission Engineer graced the occasion as Chief Guest and Speaker. During occasion the chief Guest gave presentation with case

studies of using drones for survey. A presentation on auditing of existing old transmission line was given. Mr. Hanuman Rao, as a part of imparting training for 21 unemployed youth on behalf of KEATS, at Vande mathram foundation at Thorroor, Mahaboobad district Telangana, has used drone for capturing field data. Using softwares, the ortho-mosaic image, the DTM were generated and contours too were prepared. This data would be used by Thorroor municipality for infrastructure planning including roads, drainage, sewage etc.



Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC welcomed the gathering and presided over the function. **Er G S Kumar**, President, GeoMap Society (GEMS) explained about importance of National Survey Day; **Prof. G Radhakrishna**, FIE, Jt. Hon. Secretary, IEI, TSC introduced the Chief Guest and **Er T Anjaiah**, FIE, Hon. Secretary, IEI, TSC proposed vote of thanks.

Engineers Memorial Day 2021 (on the occasion of SIR Mokshagundam Visvesvaraya Vardanthi)

April 14, 2021: The Institution of Engineers (India), Telangana State Centre Organized Engineers Memorial Day on 14th April, 2021 on the occasion of SIR Mokshagundam Visvesvaraya Vardhanthi at Visvesvaraya Bhavan, Khairatabad, Hyderabad at 11.30 am to pay homage to Sir Mokshagundam Visvesvaraya and garlanded the portrait.

Sir MV made several contributions to the society and in particular to the Engineering Profession for nation building. Sir MV Stands as a living monument for his genius as a nation builder, a dreamer, a thinker and a man of action.



On the Engineers Memorial Day Corporate Members of IEI who passed away, during 01st April, 2020 to 31st March, 2021 were remembered and paid homage to demised corporate members.

Dr. G Rameshwar Rao, FIE Chairman, IEI Telangana State Centre, **Er. T Anjaiah**, FIE Hon. Secretary, IEI TSC, **Prof. G Radhakrishna**, FIE Joint Hon. Secretary, IEI TSC, Er. P Rama Rao and staff members of IEI TSC participated and paid homage to SIR MV.

Dr B R Ambedkar 130th Birthday Celebrations

April 14, 2021: The Institution of Engineers (India), Telangana State Centre Organized 130th Birthday Celebration of Dr. B R Ambedkar on 14th April, 2021 at Visvesvaraya Bhavan, Khairatabad, Hyderabad at 12.00 Noon and garlanded the portrait.



Dr. G Rameshwar Rao, FIE Chairman, IEI Telangana State Centre, **Er. T Anjaiah**, FIE Hon. Secretary, IEI TSC, **Prof. G Radhakrishna**, FIE Joint Hon. Secretary, IEI TSC, Er. P Rama Rao and staff members of IEI TSC participated.



WORLD EARTH DAY

Theme: "Restore Our Earth"

April 22, 2021: The Institution of Engineers (India), Telangana State Centre and Chhattisgarh State Centre organized World Earth Day on the theme "Restore our Earth" held on 22nd April, 2021 at 18.15hrs through Google Meet Platform. **Dr Velan M**, FIE Chairman, Environmental Division Board, The Institution of Engineers (India) graced the occasion as Chief Guest.

Dr RAMAN SARAVANANE, FIE, Chairman, IEI, Puducherry State Centre graced the occasion as keynote speaker. He explained about "Environment Start-ups for Rejuvenation of Water Resilience to Restore Sustainable Earth Resource".



During the occasion **Dr G Rameshwar Rao**, FIE, Chairman, IEI, TSC said about importance of "Earth Day"; **Er E SRINIVASA CHARY**, FIE, Chairman, ECM; **Er T Anjaiah**, FIE, Hon. Secretary, IEI, TSC participated.

Er ANIL KUMAR SHARMA, FIE, Chairman, IEI, Chhattisgarh State Center welcomed the gathering. **Dr SANJAY KUMAR**, FIE Hon. Secretary, IEI Chhattisgarh State Center proposed vote of thanks.

Er Koka Krishna Mohan Rao 31st Endowment Lecture on "Comprehensive Transportation Plan for Hyderabad Metropolitan Area-2041"

April 23, 2021: The Institution of Engineers (India), Telangana State Centre organized Er Koka Krishna Mohan Rao 31st Endowment Lecture on "Comprehensive Transportation Plan for Hyderabad Metropolitan Area - 2041" held on 23rd April, 2021 at 18.00 hrs through ZOOM Cloud Meeting App. **Dr T S Reddy**, FIE, Principal Consultant, LEA Associates South Asia Pvt Ltd. graced the occasion as Chief Guest. During occasion the chief Guest gave presentation on "Comprehensive Transportation Plan for Hyderabad Metropolitan Area – 2041". Dr Reddy said that Hyderabad Metropolitan Area (HMA) is identified under HMDA Act 2007 by including the areas in GHMC, Secunderabad, Cyberabad Development Area, Hyderabad Airport Authority Area extending over about 7200 Sq.Kms. In order to equip HMA with robust Transport System, Comprehensive Transportation Studies have been conducted in HMA and based on the expected growth of HMA over next 25 years the Transportation Systems requirements are assessed and Comprehensive Transportation System consisting of Metro Rail, Light Rail Transit, Bus Rapid Transit System, Buses, Hierarchical Road Network is identified and recommended for implementation. The proposed transport system would include: Metro/Metrolite Rail/ LRT Transit System of 341 km, Multi-Modal Transport System of 264 km, Bus Priority System/ Metro Neo of 435 Km, Expansion of Bus Route Operations from 2,400 km to 3,500 km, Hierarchical Road Network of 7,300 km. The proposed transport system would necessitate a total investment of about 170 lakh crores of rupees spread over next 20 years. The proposed transport system will encourage travel by public transport system.



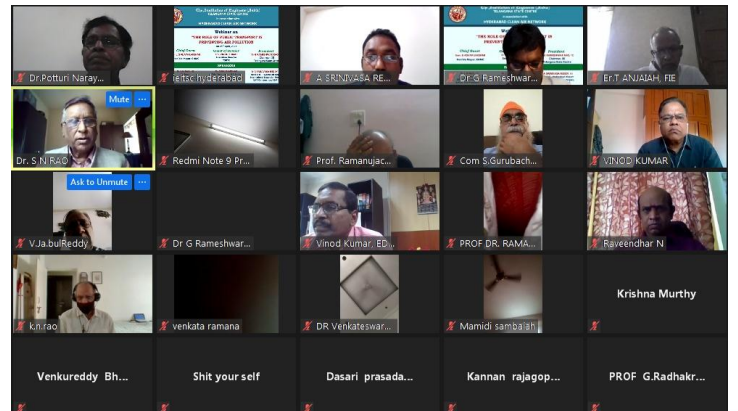
Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC welcomed the gathering and presided over the function. **Er V Jambul Reddy**, FIE, Member, IEI, TSCC introduced the Chief Guest and **Er T Anjaiah**, FIE, Hon. Secretary, IEI, TSC proposed vote of thanks.

Webinar on "THE ROLE OF PUBLIC TRANSPORT IN PREVENTING AIR POLLUTION"

April 23, 2021: The Institution of Engineers (India), Telangana State Centre in association with Hyderabad Clean Air network organized a webinar on "The Role of Public Transport in Preventing Air Pollution" held on 25th April, 2021 at 11.00 hrs through ZOOM Cloud Meeting App.

Er C VINOD KUMAR, Executive Director, TSRTC graced the occasion as Chief Guest. During occasion the chief Guest said that the Transport is the second largest sector contributing to global carbon dioxide (CO₂) emissions from fossil fuel combustion. As part of the social responsibility, TSRTC has taken an initiative for reducing emission levels by using alternate fuels viz., CNG & Biodiesel. By using CNG in 132 buses, Corporation is able to mitigate the CO₂ emissions by around 2111 tonnes per annum. Similarly by using of bio-diesel of around 72.31 lakh liters, Corporation is able mitigate the CO₂ emissions around 1257 tonnes per annum. TSRTC is the pioneer STU in introduction of 40 Electric Buses in Hyderabad City on GCM model with subsidy assistance from the GOI. Under FAME-I scheme. Introduction of 40 numbers of electric buses has yielded in reduce of CO₂ emission by 4839 tonnes per annum. TSRTC plans to convert some of the existing diesel vehicles into CNG by retro fitment of CNG kits and it would be better option to increase the zero emission vehicles and improve the air quality utilizing the existing resources.

During the occasion Speakers **Dr S N RAO**, FIE, Chairman, ESCI Governing Council & Past Vice President, IEI; **Dr N RAVEENDHAR**, Chief Environmental Scientist Environment Protection Training & Research Institute (EPTRI); **Er A SRINIVASA REDDY**, FIE, Head EHS - Hyderabad Airport International Expansion Project, L&T Construction, B&F IC presented their views on the theme.





Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC welcomed the gathering and presided over the function. Dr P Narayana Rao, MIE, Convener of the Event introduced the Chief Guest & Speaker and Er T Anjaiah, FIE, Hon. Secretary, IEI, TSC proposed vote of thanks.

ANNUAL GENERAL MEETING

April 24, 2021: The Institution of Engineers (India), Telangana State Centre conducted its 6th Annual General Meeting held on 24th April, 2021 at 17.00 hrs through Zoom Cloud Meeting App. Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC Welcomed the gathering, Er T Anjaiah, FIE, Hon. Secretary presented the Annual Report.



During the occasion past presidents, past chairmen, past hon.secretary, committee members and corporate members participated.

Renovation of Guest House of IEI, TSC DONORS

The Telangana State Centre Committee of the Institution of Engineers (India) acknowledges with thanks the following Senior Corporate Members of IEI for their spontaneous contribution to the IEI, TSC for the above good cause.



Er B JAYARAMA GUPTHA, FIE
Retd. Director (Personal), APSEB
Rs. 1,00,116/-



Er C HANUMANTHA RAO, MIE
Retd. Chief Engineer,
APTRANSCO
Rs. 30,000/-

FUTURE PROGRAMMES : MAY 2021

Date & Time	Event	Chief Guest/Speaker
11.05.2021 at 17.00 hrs	NATIONAL TECHNOLOGY DAY Theme: "Information for Students"	Chief Guest: Prof. (Dr.) G H S PRASAD, FIE Ex-Chairperson – FMS National Institute of Fashion Technology Ministry of Textiles, GOI Guest of Honour: Prof. MURTHY TATAVARTHY Associate Professor Department of Fashion Technology, National Institute of Fashion Technology
15.05.2021	219th BIRTHDAY CELEBRATIONS OF GENERAL SIR ARTHUR THOMAS COTTON	
17.05.2021	WORLD TELECOMMUNICATION & INFORMATION SOCIETY DAY Theme: "Accelerating Digital Transformation in challenging times"	

Published by Er T Anjaiah, FIE, Honorary Secretary, The Institution of Engineers (India), Telangana State Centre, Khairatabad, Hyderabad. Printed by Er T Anjaiah, FIE Honorary Secretary, The Institution of Engineers (India), Telangana State Centre, Khairatabad, Hyderabad on behalf of The Institution of Engineers (India), Telangana State Centre. Printed at M/s Atlas Stationery and Printing Industries, Ashok Nagar, Hyderabad. Published from The Institution of Engineers (India), Telangana State Centre, # 6- 2-910, Visvesvaraya Bhavan, Khairatabad, Hyderabad - 500 004, Telangana. Editor Er T Anjaiah, FIE, Honorary Secretary, The Institution of Engineers (India), Telangana State Centre, Khairatabad, Hyderabad - 500 004. Telangana.

PRINTED MATTER | BOOK-POST

If undelivered please return to :
The Institution of Engineers (India)
Telangana State Centre, Visvesvaraya
Bhavan, Khairatabad, Hyderabad-500004.

To

Date of Publication :
25th April, 2021
Date of Posting
28th April, 2021

RNI. No. APBIL/2009/33477
Regd.No.D/RNP/HD/245/2021-23
for the years 2021-23