

INAUGURATION OF 43<sup>rd</sup> JAWAHARLAL NEHRU NATIONAL SCIENCE  
MATHEMATICS ENVIRONMENT EXHIBITION 2016

Hon'ble Chief Minister's Speech

13-12-2016 / 10-30 A M / Bangalore International Exhibition Centre,  
Tumakuru Road, Bengaluru

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Shri S. R. Vishwanath,  
M L A, Yelahanka,

Shri H. N. Ananth Kumar,  
Union Minister for Parliamentary Affairs,  
Chemicals and Fertilizers ,

Shri D. V. Sadananda Gowda,  
Union Minister for Stastics and  
Programme Implementation,

Smt Nirmala Sitharaman,  
Union Minister of State for  
Commerce and Industry,

Shri K. J. George,  
Minister for Bengaluru Development  
and Town Planning,

Shri Ramalinga Reddy,  
Minister for Transport ,

Shri Tanveer Sait,  
Minister for Primary and Secondary Education,  
Miniority Welfare and Wakf,

Media Friends,

Ladies and Gentlemen, Dear Children,

1. It is my pleasure and privilege to welcome you all to the 43<sup>rd</sup> Jawaharlal Nehru National Science Mathematics Environment Exhibition-2016, conducted by the Government of Karnataka in partnership with National Council of Educational Research and Training ( N C E R T ). This exhibition is for the benefit of secondary and senior secondary school children.

2. I am happy to note that it is the second such mega event being held in Karnataka this year.
3. The 103<sup>rd</sup> Indian Science Congress was held at Mysuru in January this year. This event is quite distinct as children from all over the country are participating with zeal and zest.
4. This exhibition is organized every year by NCERT to encourage, popularize and inculcate scientific temper among the children. Such events provide a forum for the children to showcase their talent and creativity, too !
5. Children with scientific temper will never stop questioning, observing physical reality, testing, analyzing and communicating. It is our duty to create such platforms. It also makes learning a better and fun experience for children.
6. The study of science should begin early in life. The first step is to inculcate the habit of observation among children. They are always interested in trees, in flowers, in birds, in insects, in all the things they see around them. Their curiosity should be fostered and developed. Practice, demonstration, actual experiments should always precede theory.
7. There is a need to enable school science education reforms by improving teaching reforms, science curricula, motivating science teachers and schemes for early attraction of talent to science.

8. One of the greatest scientists of all times and a teacher, our beloved former President Dr A P J Abdul Kalam very rightly said, *All of us do not have equal talent. But all of us have an equal opportunity to develop our talent !*
9. Many distinguished and eminent scientists like Sir C V Raman, Sir M. Visvesvaraya, Dr Raja Ramanna, Dr A P J Abdul Kalam, Prof. C N R Rao, Dr U R Rao, mathematicians like Aryabhata, Bhaskaracharya, Srinivasa Ramanujam, and environmentalists like Dr K Shivarama Karanth, Sundarlal Bahuguna, Medha Patkar, Vandana Shiva, Baba Amte have contributed immensely to innovation, research and sustainable development.
10. Astronauts like Kalpana Chawla, Sunita Williams, Rakesh Sharma, Ravish Malhotra continue to inspire and motivate millions of children to seek adventurous careers in the pursuit of space sciences.
11. With a vision to accelerate the pace of discovery and delivery of science-led solutions for faster, sustainable and inclusive growth, our country has developed the ***Science Innovation and Technology Policy-2013.***
12. Innovation and research both in basic and applied sciences can be fostered and developed to its full potential with the academia, industry and Government working in tandem.
13. I urge the academia and industry to step forward and collaborate with Government for research, for continuing education and develop a strong producer-consumer interaction between the academia and industry.

14. There is a need to create a robust national innovation system. Innovation has become increasingly resource intensive which requires the participation of international consortia, evolving various Public Private Partnership (PPP) Models, facilitating private sector investment, permitting multi-stakeholder participation, modifying the **Intellectual Property Rights (IPR) Policy** by providing marching rights for social good and knowledge commons, that is, co-sharing of IPRs generated under PPP and open source approaches.
15. Science should not remain within the confines of a laboratory. It should be brought to the people and help in making their daily life better and efficient with affordable technology.
16. Public understanding of science is an important dimension for introducing and reaching the benefits of modern science and technology to the people.
17. Our Global Innovation Index (GII) is 66 among the 128 countries ranked. Going forward, our global competitiveness depends up on our ability to create, develop and make practical use of new scientific discoveries.
18. Our country is blessed with a huge talent pool. Hence, it is imperative to develop the requisite knowledge, competence and capacity to innovate among children.

19. Karnataka is home to many reputed research and development institutes such as IISc, ISRO, DRDO, HAL, BEL, NAL, NIFT, NID, NIMHANS among others.
20. Our Government is committed to give a boost to learning of science and mathematics in schools using technology. We are funding many research projects to encourage innovation and creativity, which helps foster, promote and sustain cultivation of science and scientific research.
21. Many Science Centres have been established for the benefit of school children in our State. These Centers established in the PPP Mode have working models to demonstrate the fundamental concepts of science.
22. When the children learn these concepts 'by doing' i.e., hands on, they seldom forget. Some of you here have gone ahead of mere inquisitiveness and created your own models. I appreciate your efforts and congratulate you. Wish you all the best !
23. It is essential to teach our children to appreciate the role of science in meeting the challenges of life such as climate change, opening new avenues in the area of agriculture, fertilizer, food processing, biotechnology, green energy, disaster management, information and communication technology, astronomy, transport, games and sports etc.,
24. I would like to quote Albert Einstein here, *'I never teach my pupils, I only provide the conditions in which they can learn'*.

25. We need teachers who will be able to do it. To meet the challenges of the present world, it is important we build the capacity of our children and nurture their inquisitiveness and creativity by providing the best possible age appropriate quality education.
26. Children, technology has brought the world to your finger tips ! You can study, socialize, shop and entertain yourselves with the click of a button.
27. Children, you are here to make a beginning in paving your path towards becoming scientists, mathematicians and environmentalists of the future.
28. You will be meeting with many likeminded friends from all over the country. I urge you to make the best use of this opportunity to learn from each other. You will certainly carry with you memories that last a lifetime with you.
29. I hope you will enjoy your stay in Bengaluru and find comfort in our hospitality. Let us all endeavour towards positioning our country among the top five global scientific powers.
30. I wish the Jawaharlal Nehru National Science Mathematics Environment Exhibition-2016, a grand success !

Thank you one and all !

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