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LETTER



PRESIDENT'S COLUMN

SOCIO-TECHNICAL SCENARIO IN COMING DECADES



In our country, an overall target to invest in education and training had been put at 6 per cent of GNP. However, education and training cannot alone address the challenges that countries face in the wake of globalization and the move towards knowledge and skills based society. Although fundamental, they are by themselves insufficient to ensure sustainable economic and social development. or resolve the

aggregate employment challenge. They should be coherent and form an integrated part of comprehensive economic, labor market and social policies and programmes that promote economic and employment growth. Policies that expand aggregate demand in the economy such as macroeconomic and other measures must be combined with supply side policies, e.g. science and technology, education and training, and industrial and enterprise policies. Appropriate fiscal policies, social security and collective bargaining are among the means to distribute these economic gains on a fair and equitable basis, and constitute basic incentives to invest in training.

The experience of many countries shows that new approaches to human resources development and training must be based on sound institutions, without which learning and training investments run the risk of being ineffective and lacking impact. Ultimately, the task of these institutions is to develop a common culture of learning and training between all the parties concerned - government, social partners, enterprises, individuals and civil society. Essential elements of an institutional framework for human resources development and training are the following:

- A framework and institutions for dialogue between employers and workers, and others representing civil society, on policymaking and resource mobilization for human resources development and training, and for defining the respective responsibilities of various stakeholders
- A diversified system of public and private training institutions and providers, including systems for supervising the quality and relevance of their programmes

- 3. A decentralized structure for decision-making regarding identification of training needs, content and curricula of education and training, and mobilization and use of resources
- 4. An integration of the concept and practice of lifelong learning into the institutional framework and the establishment of a qualifications framework and systems of skills recognition and certification in support of lifelong learning
- Institutions for collecting, analyzing and disseminating labor market information, for job brokering and job search assistance.

Labor market information is an important resource to guide collective and individual investment in building up individuals' employability and a competitive, flexible workforce. Quality, timeliness and careful targeting on client groups are hallmarks effective labor market information systems. Career of quidance and counselling is becoming an essential element of the learning process. Openness to lifelong learning, increased personal responsibility, flexibility and adaptability, are important at every stage of a career. They are now essential attributes for graduates and entry level workers. New labor market entrants, seasoned workers, the unemployed, etc., need assistance in making informed decisions about ways and means to gain and maintain skills and employment. They can also be helped with skills assessments. There is an unprecedented demand for career development services to assist in managing change effectively.

Knowledge and skills are increasingly important as the source of competitiveness in markets characterized by rapid change due to globalization and technological advances. Those with low skill levels, outdated skills or no employable skills are more and more likely to be excluded from the labor market. Disadvantaged groups are also excluded from opportunities that are central to participation in the social, political and cultural life of society, as a result of their limited access to education, skills training, health care and employment. Their exclusion incurs high costs on social security systems and society in general. Also, the opportunity cost to national economies of having so many inactive people is substantial. This deflationary effect is estimated at billions of dollars globally.

Prof. Pratapsinh K. Desai President, ISTE

ISTE NEWSLETTER

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Read INDIAN JOURNAL

QUOTE FOR THE MONTH

Never say you don't have enough time. You have exactly the same number of hours that were given to the World's Greatest People. Make Best of it.

— Anonymous

WIT AND WISDOM

- Most of the things we desire are expensive, but the truth is : the things that really satisfy us are free : love, joy, laughter and good relations.
- Gaps are created not by "what is said", but " how it is said". What is said reaches the mind, how it is said reaches the heart and you can not win the mind without winning the heart.
- Don't waste your time on people who do not value your feelings.
- Sea waves are really inspiring, not because they rise and fall, but because each time they fall, they never fall to rise...?
- Don't guess a person's character on his present situation. Because, time has the power to change an ordinary coal into a precious diamond.
- To worry is the worst way predicting what will happen next. It achieves nothing while consuming a lot of your time and energy. Let things unravel and trust in your ability to overcome whatever comes your way.
- Don't cry because it's over, smile because it happened.

- Dr. Seuss

• You will never be happy if you continue to search for what happiness consists of. You will never live if you are looking for the meaning of life.

Albert Camus

• Count your age by friends, not years. Count your life by smiles, not tears.

- John Lennon

 Constant kindness can accomplish much. As the sun makes ice melt, kindness causes misunderstanding, mistrust, and hostility to evaporate.

Albert Schweitzer

ACTIVITY FOR THE MONTH

TOPIC FOR DISCUSSION

Impact of Science and Technology in Today's World

All the Chapters/Student Chapters may conduct Seminars/Workshops on the above topic and send the recommendations to the Headquarters for the needful.

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ISTE NEW SLETTER

NEWS FROM ISTE FACULTY CHAPTERS

PUNJAB, CHANDIGARH, H.P. & J&K

• Gulzar Group of Institutes, Ludhiana conducted 5th Annual National Tech Fest ROBOMANIA-2016 On 12-13 February, 2016. The Chief Guest of the function was Prof. Pratapsinh K. Desai, President, ISTE. More than 50 teams from various colleges and universities across Punjab, Haryana and HP showcased their technical and management skills by displaying working models of cars, robots, programming besides in series of business management participating events. The other dignitaries were present on this occasion were Shri S. Gurcharan Singh, Chairman, GGI, Shri S. Gurkirat Singh, Executive Director, GGI; Dr. Yashwant Apparao Kolekar, ISTE Executive Council Member; Prof. D.S. Hira, Chairman, ISTE Punjab Section and Prof. S.K. Gandhi, Secretary, North Section. The Best Students, Best Faculty, Best Projects and Best Project Guides were honourned during the function.



President, ISTE Prof. Pratapsinh K. Desai delivering inaugural address.



Chief Guest Prof. Pratapsinh K. Desai, President, ISTE distributing the certificate to the students



Dignatires during the Annual National Tech Fest of Gulzar Group of Institutes.

MAHARASHTRA & GOA

Prof. Ram Meghe Institute of Technology and Research, Badnera, Amravati organised National Conference on Sustainable Computing and Communication for Development (NCSC2D-2016) on 12th-13th February, 2016. The conference was inaugurated by the Chief Guest Hon. Kiran Gitte, District Magistrate & Collector, Amravati and President of the function Dr. Nitin Dhande, Chairman, Vidarbha Youth Welfare Society, Amravati in the presence of Mangement team of VYWS. The convener of the conference was Dr. S.M. Deshmukh and he gave the brief idea and objective of the conference. Dr. N.W. Kale, Principal and Chairman of the Conference gave information about the institute and explained motive behind the conference.



Inauguration of Proceedings NCSC2D 2016



Hon. Er. Kiran Gitte, District Magistrate & Collector, Amravati addressing the participants



Felicitation of Padmavibhushan Hon. Dr. Anil Kakodkar, Chairman, Rajiv Gandhi Science & Technology Commission, Former Chairman, Atomic Energy Commission, Govt. of India during the Valedictory Function.

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NEWS FROM ISTE STUDENT CHAPTERS

MAHARASHTRA & GOA

 Dr. D.Y. Patel Polytechnic, Navi Mumbai organised Regional Level Project Exhibition & Technical Quiz Competition and State Level Paper presentation competition on 23-2-2016. Prof. V.D. Vaidya, Deputy Secretary, MSBTE and Executive Secretary, ISTE was the Chief Guest for the prize distribution function and gave away the prizes to the winners. Director RAES P.V. Bhagwat, Dr. V. Ramesh, Principal S.G. Pathak were also graced the function.

PUNJAB, CHANDIGARH, H.P. & J&K

Model Institute of Engineering and Technology, Jammu celebrated National Science Day on 29-2-2016 on the theme Make in India : Science & Technology Driven Innovations. Various technical programmes like oral presentation, poster presentation and painting competition were organised. Prof. Manoj K. Dhar, Director, School of Biotechnology, University of Jammu was the Chief Guest for the function. The programme was conceived by Prof. Ankur Gupta, Director, MIET.



The Chief Guest awarded the certificate to the students.

TAMIL NADU & PONDICHERRY

 Sethu Institute of Technology, Karaipatti organised workshop on How to improve Communicative English on 18-2-2016. Dr. S. Arul Prakash, Principal, Government Hr. Sec. School, Madurai conducted the various sessions.

WEST BENGAL

National Institute of Technology, Durgapur hosted the Twenty First All India Students' Engineering Congress (AISEC-16) on February 20-21, 2016. Dr. C.M. Narayanan, Chief Coordinator and Faculty Advisor, ISTE Students Chapter delivered the welcome address. Expert lectures were delivered by Mr. Subash Menen, Co-founder, Pelatro Solutions Pvt. Ltd., New Jersey; Mr. Raju Joseph, Managing Director, Aarding India Pvt. Ltd., Bangalore and Mr. Roshan Ali Ibabatali, Senior Chemical Engineer, Sid Richardson Carbon Black Ltd., New York, USA. The event included seminar contests, project contest, technical quiz, spot essay contests and technical crossword contests.



Faculty, Students and participants during the inauguration of AISEC-2016

HIGHLIGHTS OF THE PROCEEDINGS : ISTE NATIONAL SEMINARS

A Book authored by Dr. S. V. Vaishnav, Honorary Fellow ISTE.

Dr. S.V. Vaishnav is a former member of the ISTE National Executive Council (2003-05, 2006-08), Chairman of ISTE Gujarat Section (1999-2000, 2001-02) and the principal of A. D. Patel Institute of Technology (ADIT), New Vallabh Vidyanagar (Gujarat) (Retd. 2002).

The book contains foreword by Dr. P. K. Desai, President of ISTE, preface and the highlights of total of eleven proceedings of national seminars held during ISTE National Annual Conventions of 2014, 2013, 2012, 2011, 2010, 2008, 2007, 2003, 2002, 2000 and 1999.

The comprehensive compendium in the form of a book is a collection of what transpired during the pilgrimage for excellence of technical education. The book is a documentary recapitulation of the excerpts, observations and presentations elucidated at the mega events of ISTE. It provides an apt information needed for individuals connected with technical education and for institutional libraries.

The book is available at a price of Rs.100/- to the below mentioned address:

Dr. S. V. Vaishnav,

'Ishavasyam', B/H Raghuvir Chambers,Off University Road, Vallabh Vidyanagar - 388 120(Dist. Anand) (Gujarat).Contact : 02692 237 467, Mb. 09979001944

(Cheque @ par in favour of S. V. Vaishnav)

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ISTE NEW SLETTER

TECHNICAL EDUCATION IN THE ERA OF SUSTAINABLE DEVELOPMENT

Technology today is making rapid strides and growth with startling innovative development. Whereas it brings challenges on one hand for technical education, it does create opportunities also on the other hand.

The state, society and the industries have high expectations from the academic institutions. The industry, in particular looks for skill and competency from the output. College of Engineering and Technology at Amravati (Maharashtra) organized an International Conference on 'Challenges and Opportunities in Technical Education in the Era of Sustainable Development' from 09 to 11 January, 2016 during 45th ISTE Annual National Convention hosted by Hanuman Vyayam Prasarak Mandal (HVPM). The highlight of the proceedings is presented.

1. Preamble

Globalization of education and advent in technology have changed the scenario of Technical education compelling the system to reorganize and reinvent in tune with the expectations related with the skill and employable output. Innovative curriculum and transformation of teaching and learning process now need relook to meet with the challenges. Prominent of them are Quality Assurance, Digital India, Smart Cities, Clean India and Make-in-India. Employable graduates as well as diploma holders and availability of vocational output are matters of concern to be attended effectively. The papers presented at the International Conference were specifically grouped under themes (1) Expectations of State and Society from Engineering Education (2) The Role and Expectations of Industry in Shaping Engineering Education and (3) Employment Potential for Engineering Graduates in Sports... A brief review of some of them is summarized here as under.

(Courtesy : Souvenir of the Proceedings of International Conference)

2. Societal Challenges

It is affirmed that Engineering Education can play a paramount role for social and economic development. The need is to transform engineering education, curricula and teaching profile from time and again in tune with the social relevance and sustainability. Our programmes need to be organized and detailed such that engineers can contribute better to the development of society. The critical role of engineering in addressing the societal challenges like the health care, energy, transportation, climate change, clean water, disaster mitigation, resource management are well recognized to be incorporated in the agenda for adequate implementation. Needless to mention that mobilizing the engineering community to become more effective in delivering real products and services of benefit to society is a vital requirement and important responsibility of providers of the technical output.

3. Reinventing Excellence in Engineering Education

The companies recruiting the product of our academic system complain about the quality of our graduates. A survey has indicated that about 18 to 20 % of our graduates are only employable and can match with the requirements. The rest of them either remain unemployed or under employed. The challenge is therefore a need of paradigm shift to turnout engineers skillful and employable. It is therefore necessary

to reinvent excellence to improve the quality and employability of output. There is a strong opinion in favour of introducing industry internship as a part of curriculam. In addition linking academia with industry can also accelerate the process of reinventing excellence. The necessity to bridge the gap between the industry and the academics is much today than ever before. The domains in which industry interaction can help are (1) Supporting research activity to promote knowledge creation (2) Academic intervention with problems of industry (3) Utilization oflaboratories and equipments (4) Sponsoring continuing education programmes and (5) Faculty development programmes. These and other relevant measures can go a long way to reinvent excellence in engineering education.

4. Quality Assurance in the era of Sustainability : Need of the Hour

Technical education is facing new challenges continuously time and again from stake holders. The major challenge is that of quality. Quality is very important in any sector but the necessity of quality in technical education carries special reference in terms of the expectations of the society and the industry. The setting up of NBA for technical education under the initiative of AICTE is active for infusing and improving the quality of education.

The accreditation, faculty development, research activities and ambitious vision to attain international standards of quality education are the basic parameters and important priorities to establish creditability of any institution. Accreditation is one of the prerequisites of all of them. Quality assurance is a veritable strategic tool to face the global competition in the era of sustainability.

5. Challenges ahead for skill India

The challenges to be faced for effective implementation of skill India project in rural areas are (1) Adequate educational infrastructure (2) High speed internet connectivity (3) Quality education and (4) Promotion of entrepreneurship in rural sectors. The main goal for skill India is to create opportunities, space and scope for the development of the talents of the Indian youth along with creation of various sectors for skill development. Providing training support and guidance for various occupations need be taken up with priority to prepare skill India. Major thrust should be given for entrepreneurship and self - employment.

6. Digital India and Make-in-India

Digital India is a concept of transformation to a digitally empowered society. The goal is creation of employability and digital talents. Digitalization creates high speed internet system for grass root level in Indian society. Make-in-India concept is advanced to facilitate the foreign investors to come to India and invest in India. The Indian economy will get a strong boost for youth for desired employment. Labour intensive industry of manufacturing in India will be the outcome of Make-in-India. It will create an opportunity to attract foreign capital. Indian demography, democracy and demand will benefit the investors. Job creation and skill enhancement will be the conspicuous immediate result of Make-in-India. It is a step to increase GDP and to strength the economy. Digital India and Make-in-India will rejuvenate the role of technical education.

TECHNICAL EDUCATION IN THE ERA OF SUSTAINABLE DEVELOPMENT

7. Migration of Students

With rapid rise of the scenario of international education, there is a sizable increase in migration of students for higher education in foreign countries. In addition it is also observed that here is a trend towards settlement abroad. The countries having elevated earning possibilities become the magnets for migration. The phenomena of brain drain is experienced as well there is a detrimental impact on the economy also. The country loses individuals of technical skill and knowledge.

There are two reasons for students opting to go to foreign universities. The first is that they desire to pursue advanced studies in world class universities of foreign countries. The other important reasons is that it is not possible for many of them to secure admissions here for want of the courses of their choice in the country. Even as today no foreign university can set up campus in India, collaborative arrangement through the Memorandum of Understanding (MOU) can be availed for exchange of faculties and amenities with foreign institutions and universities.

8. Enhancing placement

Providing placement opportunity to a large number of engineering graduates is a major challenge faced by many technical institutes today. There are several factors which can help to enhance placement activity. Technical preparedness of the students in addition to communication skill play important role in getting selected for placement during selection process. Some of the measures which the institute need to take are (1) To establish adequate infrastructure as training and placement cell (2) To appoint and maintain a seperate post of placement officer and (3) To carry out skill identification, counseling and appropriate training of students. The reputation of the institute, the management, the academic performance, status of quality assurance and accreditation are important parameters to enhance the placement activity at the institute. The challenge is to be converted into an opportunity for employability.

9. Industry-Institute-Interaction

Industry is a major consumer of the product of the technical institution. Both sides need to understand the expectations of each other. The academic purview is to prepare the students for wide range of opportunities while the industry looks for technicians, engineers and human resources with specific skills. There is therefore an obvious discrepancy in their perspectives. The challenge is to create a platform where both can meet one to one and share ideas and interests. To bridge the gap, activities like (1) Joint research programmes (2) Curriculum development (3) Industry sponsored projects (4) Faculty and staff exchange and (5) Internship and implant training should be carried out by mutual coordination.

10. Role of industry in shaping engineering education

Our graduate engineers lack in skill to meet the expectations of the practical field. The need is to provide preemployment internship to graduates and PG students. There should be provision of compulsory practical training of at least one year after completion of academic courses. The industry should extend help to create such facilities. It is time that big industries should come forward to establish their own academic institutes along with the industry. This will help for exposure to practical work near to the industry. The industry and the big construction sectors should support PG and Doctoral projects and research activities. The research park concept can also benefit both industry and the institutes.

11. Smart City

Our cities are getting crowded, over populated and unmanageable for various essential services. The concept of smart city is based on bringing the technology for help to make the life of citizens more organized and less stressful. In a smart city, the infrastructure and amenities shall be integrated to be managed more efficiently.

Technical education can play a vital role by creating skilled manpower who can work for effective implementation with dedication. The challenge as well as opportunity for technical education is to equip itself to make the concept of smart cities successful.

12. Clean Technology

Fossil fuels are getting exhausted rapidly. Search for alternative sources is therefore imperative. Renewable energy is a hope for sustainable living. India has taken up the issue seriously. Actions for promotion of cleaner technologies, tools and techniques for pollution and prevention and formulation of sustainable strategies are initiated promptly in India. Lucrative opportunities for products and services of clean technologies are offered in the country. Wind, hydro, solar, biomass and waste-to-energy have huge potential opportunities.

13. Sports and Technology

Technological innovations have now entered the arena of sports effectively. Microelectronics and IT tools are rapidly becoming a necessity in sports and related administration. Because of the all-round advent in technology, the computers and the internet, the scenario of playing and viewing sports has become smart and popular.

"Sport is emerging as an important component of socioeconomic development of the country. The execution of mega sport events helps in developing infrastructure, generating employment, securing inflow of foreign capital with a significant contribution to the economic development. There is a remarkable change in national outlook towards sports.

It is learnt that there is a proposal to set up a National Institute of Sports, Sciences and Medicine (NISSM). It will be a leading institute in the country to promote high performance at sports and integrate sciences and medicine into the training for sports in the country as well as into teaching of curriculum of sports and coaching." (Ref. Presidential Address, Dr P K Desai : 45th ISTE National Annual Convention, 9th January, 2016).

> Dr. S. V. Vaishnav Honorary Fellow ISTE, Former Member of Executive Council, ISTE Former Principal, A D Patel Institute of Technology, New Vallabh Vidyanagar (Gujarat) e-mail : <u>svvaishnav@hotmail.com</u>

ISTE NEW SLETTER

NEWS FROM ISTE SECTION

11th ISTE STATE LEVEL STUDENT'S CONVENTION OF ISTE ANDHRA PRADESH & TELANGANA SECTION

11th ISTE State Level Student Convention was conducted at Brindavan Institute of Technology and Science, Kurnool on 20-2-2016 with a theme **Make in India - Opportunities for Technical Students**. Prof. Pratapsinh K. Desai, President, ISTE and Prof. M.M.M. Sarcar, Vice Chancellor, JNTU, Anantapur graced the occasion as Chief Guests. The dias have been shared by eminent dignitaries like Prof. K. Lal Kishore, Chairman, ISTE AP Section; Dr. T. Kishen Kumar Reddy, Chairman, ISTE Telangana Section and Rector, JNTUH; Dr. K. Hemachandra Reddy, Secretary, ISTE AP Section; Prof. Smt. Padma Sai, Secretary, ISTE Telangana Section and ISTE EC Members Prof. V. Rama Rao, Dr. T.S.S. Balaji and Dr. G. Venkata Subbaiah.



Inauguration of Student's Convention of ISTE Andhra Pradesh & Telangana Section on 20-2-2016.



Prof. Pratapsinh K. Desai, President, ISTE delivering the address during the inauguration of the Convention.



Eminent dignitaries during the Convention of ISTE AP & Telangana Section

Around 1600 students from all over India participated in the Convention. Paper presentation, poster presentation, quick minds and project expo were conducted during the Convention.



Dignitaries on the dias during the inauguration of ISTE AP & Telangana Section on 20-2-2016



Honorable Chairman Mr. Anantula Vinay Kumar Reddy, Secretary Mr. Chintala Ravindranath Yadav and CEO Mr. N. Sharath Reddy gave the DD of Rs.50,000/- on the behalf of Sreyas Institute of Engineering & Technology to ISTE-TS Section Chairman & Mentor Dr. T. Kishen Kumar Reddy for UG best Project.



Distribution of certificate to the students by the dignirarites on the dias.

Only sharp and well focussed photographs with ISTE Logo and Banner in the background shall be considered for publication.

ISTE NEWSLETTER

INAUGURATION OF ISTE CHAPTERS & STUDENT CHAPTERS

KARNATAKA

 GM Institute of Technology, Davangere ISTE Faculty Chapter and ISTE Institutional Membership were inaugurated on 29-2-2016. The function was inaugurated by Dr. C.K. Subbaraya, Chairman, ISTE Karnataka Section and Dr. T.S. Indumathi, Hon. Treasurer, ISTE, New Delhi. The event was presided over by Dr. P. Prakash, Principal, GMIT, Davangere. Dr. D.B. Ganesh, National Executive Council Member, ISTE has briefed about the vision and mission of ISTE. Dr. D.N. Chandrappa, ISTE Faculty Advisor proposed the vote of thanks.



Dignitaries on the dais during the inauguration of ISTE Faculty Chapter and ISTE Institutional Member.

TAMILNADU & PONDICHERRY

 SRM University, Vadapalani Campus, Chennai ISTE Faculty Chapter and Student Chapter were inaugurated on 24-2-2016. The Chapter was inaugurated by Dr. P. Ramachandran, Treasurer, ISTE, TN&P Section. Shri S, Ramasubhhu, Chief General Manager (Electrical). Chennai Metro Rail Ltd. was the Chief Guest of the function and delivered special address. Dr. C. Muthamizhchelvan, Director (ET), Faculty of Engineering & Technology delivered the presidential address. A technical talk on the topic Disaster Management was delivered by Dr. A. Prabakaran and vote of thanks was proposed by Dr. S. Karthikeyan, HOD, Mech.Engg. and Secretary, ISTE Faculty & Student Chapter, SRM University.



Dignitaries on the dais during the inaugural function of ISTE Faculty Chapter and Students Chapter Nandha College of Technology, Erode ISTE Faculty Chapter was inaugurated on 20-2-2016. The Chief Guest for this function was Mr. C. Sathyamurthy, Vice President, Foundry Divison, Aqua Sub Engineering, Coimbatore. The Office Bearers of ISTE Faculty Chapter were introduced during the inauguration.



Dignitaries on the dais during the inauguration of ISTE Faculty Chapter.

Proposals invited to host the ISTE National Annual Conventions for the year 2016

As a regular annual feature, forty five National and eighteen Students Annual Conventions Convention of ISTE have been held so far in the different States. The major impact of these Conventions are instrumental in providing an opportunity for the Teachers, Educational Planners Administrators, and all and Students other stakeholders who are involved in the field of technical education to get together and share their views and to contribute the development of technical education system.

In this regard, Institutions are welcome to send their proposals for hosting the 19th ISTE Annual Students Convention and 46th ISTE National Annual Convention, which will be organised during October and December 2016 respectively. Proposals received will be placed before the ISTE Executive Council in its meeting to be held during the Annual Convention of ISTE in November/December 2016 for consideration.

Institutions may kindly send their detailed profile alongwith the willingness letter for hosting the Convention to the following address:

The Executive Secretary

Indian Society for Technical Education Shaheed Jeet Singh Marg Katwaria Sarai, New Delhi - 110 016 Phone : 011-26513542, 26963431 Fax : 011-26852421 Email : istedhq@vsnl.net Website : www.isteonline.in

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