



सत्यमेव जयते

GOVERNMENT OF INDIA
Department of Electronics
and Information Technology
Ministry of Communications
& Information Technology

ELECTRONICS

e-NEWSLETTER

... For Electronics System Design & Manufacturing (ESDM) Sector

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- Feasibility Study Report on India Microprocessor
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- State Level ESDM Workshop at Kolkata

From Chief Editor's Desk



Dear Readers,

It is official. The Department of Information Technology is now Department of Electronics and Information Technology (DeitY). The name announced close to Holi gives one more reason for all connected with electronics to celebrate and rejoice. The change reflects the renewed thrust and focus being given to electronics by the Government of India. It brings back electronics system design and manufacturing (ESDM) to centre stage of the Department. The decision comes in close heels to the decision to provide preference to domestically manufactured electronics goods. Both these assertions of the draft National Policy on Electronics stand fulfilled.

The increasing acceptance of electronics is reflected among the industry as well. News reports indicated Ericsson planning to make India their global manufacturing base. Many others have been talking about similar plans, which I am sure they would announce at a time of their choosing. The participation of industry in two major events over the last two months, the EFY event organized jointly with ELCINA in Delhi and the State Level ESDM workshop in Kolkata were reflection of this.

Skill development in ESDM cannot be over-emphasized. There is lack of adequate trained manpower and training capabilities. My own experience in finding people for the PMU in DeitY has been disappointing and only goes on to show that there are very few people who have expertise in the field. While DeitY is planning to start a programme in some of these areas, the need for the hour is for the private training institutions to come forward and fill the vacuum. The workshop organized on March 2 at New Delhi was a beginning in this regard. As Walt Disney said, all our dreams can come true, if we have the courage to pursue them. So keep trying.

Dr. Ajay Kumar

DIT renamed to 'Department of Electronics and Information Technology'

The Cabinet Secretariat, vide its notification no CD-116/2012 dated 26.2.2012 has amended the Government of India (Allocation of Business) rules 1961 and renamed the Department of Information Technology as Department of Electronics and Information Technology (Electroniki aur Soochana Praudyogiki Vibhag).

The Department is in the process of initiating several measures to renew the thrust to the Electronics System Design and Manufacturing (ESDM) in the country. A new National Policy on Electronics is under finalization and a draft of the same was released by Hon'ble MCIT in October 2011. The Policy outlines the rationale and road map for the development of ESDM sector in the country.

One of the declarations made in the draft National Policy on Electronics is that the Department would be renamed as Department of Electronics and Information Technology. Accordingly, a proposal for renaming the Department as Department of Electronics and Information Technology (DeitY) was taken up. This change is a result of that effort.

The Department of Information Technology was initially called the Department of Electronics. In October 1999, it was initially made Ministry of Information Technology and with the merger of Departments of Telecommunications and Posts in the Ministry, in December 2001, the Department acquired its current name of Department of Information Technology.

However, in recent years, there has been growing feeling that the electronics has not been given adequate importance by Government and therefore there has been a demand from various quarters of industry, academia and other stakeholders that the Department should provide increased focus to the electronics sector. The renaming of the Department is a symbolic move in that direction. It is expected that it will send a positive signal to domestic as well as foreign investment in the sector. Moreover, within Government and within the Department, it will help providing higher priority to policy initiatives relating to electronics. It is a fulfillment of one of the declarations of the draft National Policy on Electronics.

ISA Organized 'Vision Summit 2012'

ISA Vision Summit 2012 was organized by Indian Semiconductor Association (ISA) on February 06-07, 2012 at Bangalore. This was seventh edition of the summit and the theme of the ISA Vision Summit 2012 was 'Growth drivers for emerging markets: Semiconductors & Electronic Systems'.

More than 450 delegates and 42 spokespersons participated in the high-powered conclave to discuss the potential of the ESDM industry. The Chief Guest for the event was Shri Kapil Sibal, Hon'ble Minister of HRD and Communications & IT, Government of India. The inaugural address was delivered by Shri Sachin Pilot, Hon'ble Minister of State for Communications & IT, Government of India.

Shri Kapil Sibal, said "Today Electronics is the largest and fastest growing manufacturing industry in the world. On the domestic front, electronics driven industry has emerged as a contributor to national economy. India has intrinsic strength to become really global leader in this particular field. Though we do not make chips here, the fact is that our design industry is growing fast. We have the chip design services available here and enormous high quality human resource available. We should be able to leverage that to ensure that we can develop the semiconductor manufacturing sector in India and generate revenue up to about 15 Million USD from wafer manufacturing industry based on design alone."

Shri Pilot mentioned about the initiatives that Government is taking in the ESDM sector and called upon the Industry Associations, the private sector and the industry to participate, as this is going to benefit India in the long run. He said, "We want to create an ecosystem where Indian people, Indian scientist, Indian talent, young PhD students, qualified researchers, are able tocontd. on page 3

Feasibility Study Report on India Microprocessor

The need for India to possess indigenously designed and developed microprocessor architecture and platforms with zero encumbrances has stemmed from the fact of possible selective denial of technology, long-term technology sustenance and obsolescence, customization, security risks, secrecy and commercial aspect. Department of Electronics and IT, Government of India (GOI) initiated a feasibility study on this in Aug 2010. The terms of reference included preparing a status report on the microprocessor design and development in India and abroad and to study/ carry out an in-depth study of the requirement for Indian Microprocessors (IMP), particularly for Strategic Sectors i.e. Defence, Space, Atomic Energy, Telecom, Banking etc. The report was submitted recently and the main recommendations by the study team in various aspects of IMP initiative include:

1. *IMPS –Mission Critical Programme*: Development of indigenous microprocessors is important from strategic, commercial and security point of view and should be taken up as a mission critical program to establish technology leadership for India and sustenance.

2. *Design Considerations*: IMP is recommended to be a RISC based, multi-core, secured, 32/ 64-bit architecture, with virtualization support, meeting a spectrum of applications. It shall explore new design ideas such as re-configurability, asynchronous designs, and development of complete tool chain (Compiler, OS, Simulator, Debugger, etc) and a portfolio of peripherals IP cores.

3. *Architecture Approach*: The recommended approach is development of INDIA Microprocessor architecture, right from the scratch, which is very essential for India to gain technological leadership in hardware in the long term. Concurrently, as a short-term measure, it is recommended that the on-going processors design activities in the govt. labs be supported to enable them to address embedded market space, or strategic sectors needs. The core team will recommend the suitable choices of the processor cores and also the implementations approach.

The study also recommended deriving detailed technical requirement for India Microprocessor, to be carried out as part of Phase I by the IMPC core team.

The recommendations on organizational structure for executing the programme, technical approaches, organizations model, human resource requirements, and remuneration structure, funds requirements, time frames and deliverables have been made in broader perspectives and during phase I, a detailed analysis need to be carried out on all the options before finalizing the executions plan of the programme.

Import Restrictions to Boost Local Solar Power Manufacturing

Speaking at a conference organised by ASSOCHAM on February 29, 2012, Shri Farooq Abdullah, Hon'ble Minister for New and Renewable Energy said that India will encourage local manufacturers of solar power equipment and restrict imports to help domestic industry grow in the competitive environment. The approach would be reflected in the second phase of the Jawaharlal Nehru National Solar Mission (JNNSM). "Phase II of the mission would be 'Indianised' and we will put in all efforts to save the domestic industry. The government will limit imports and encourage domestic manufacturing to boost solar energy generation. We want our domestic solar industry to grow and survive in the competition," he said. He mentioned that the foreign companies must set up manufacturing facilities along with research and development centres if they want to enter India for solar power generation.

Source: The Economic Times, March 1, 2012

• EFY Expo 2012 co-organized by ELCINA

• ELCINA forms Joint Venture for EMC

ISA Organizedcontd. from page 2

..... create knowledge, hold it here, bring it on the drawing board and then on to the shop floor. The whole product cycle is what we are looking at as opposed to a few pieces in the value chain.”

Shri R Chandrashekhar, Secretary Dept. of Electronics and IT and Dept of Telecommunications, Ministry of Communication & IT, Government of India was the Guest of Honor at the Vision Summit and mentioned that this sector presents large employment opportunity. Dr. Ajay Kumar, Joint Secretary, Department of Electronics and IT, Government of India, said “Electronics is going to be the major vehicle of growth, both directly and indirectly in the coming decade for India.”

Mr. Ajai Chowdhry, Founder & Chairman, HCL Infosystems, Prof. S V Raghavan, Chief Architect & Chairman, TAC, NKN; Dr. Ajay Mathur, Director General, BEE, Dr. Ajay Kumar, Joint Secretary, DeitY, Shri. M N Vidyashankar, Principal Secretary, e-Governance Department, Govt. of Karnataka, Dr. Omkar Rai, Director General, STPI, Govt. of India, Mr. Howard Cheng, VP Asia Sales, Analog Devices Inc., Dr. Partho Mishra, VP & GM, Cisco Service Provider Access Business Unit (India), Mr. Pradeep N Dhoot, Group President, Videocon Ind. Ltd. and Dr. Zarabi, former CMD, Semiconductors Complex Ltd. also participated at the event.

IIIT Bangalore to have a Centre for Excellence in Embedded Systems

Indian Institute of Information Technology, Bangalore (IIIT-Bangalore), with support from the Government of Karnataka is setting set up a “Centre of Excellence in Embedded System (CEEMS)” with a vision to be a leading research lab in world providing consultancy and training through industry-specific research. The objective is to collaborate with public and private organizations to create a Centre of Excellence (COE) in the emerging areas of embedded system and to bridge the gap between academic output and industry requirements. CEEMS will focus on Embedded Computing, Wireless Communication, and Computer vision.

EFY Expo 2012 co-organized by ELCINA at New Delhi

EFY Expo 2012, the second edition of the Expo, was successfully held during 16-18 February 2012 at Pragati Maidan, New Delhi. The three-day Expo by EFY Group (Electronics for You) and ELCINA witnessed active participation from the industry, the government, academia, research institutions and other stakeholders. The event was supported by the Department of Electronics & Information Technology, Government of India.

EFY Expo 2012 was inaugurated by Shri Sachin Pilot, Hon’ble Minister of State for Communications and Information Technology. The Minister also released a study report on Electronic Components, Hardware Market Manufacturing Output Study including related Assemblies and Value Chain in India. The study entitled ‘ELCOMOS’ was supported by the Department of Electronics and Information Technology, Government of India. Addressing the CEO summit organized in conjunction with the event, Shri Sachin Pilot said, “We are at least a decade late in starting initiatives like setting up electronics manufacturing clusters in India. There is no reason why we cannot make India the electronics manufacturing hub of the world.” He added, “The Indian electronics industry should ensure that its components and the products meet quality standards globally, and they should not be exorbitantly priced. We have to move simultaneously on all fronts.”

Mr. Ajay Shanker, IAS, Member Secretary, NMCC, Govt. of India; Dr. Ajay Kumar, Joint Secretary, DeitY, Mr. Om Wadhwa, CMD, JV Electronics Pvt Ltd.; Mr. T Vasu, President ELCINA & Director, Tandon Group; Mr. Inderdeep Singh, CMD, Continental Device India Ltd.; Mr. Ramesh Chopra, Vice-Chairman, EFY Group and Founder-Editor, Electronics For You; Mr. Rajendra Bhanawat, Managing Director, RIICO; Mr. Vinod Sharma, MD, Deki Electronics Ltd.; Mr. Rajiv Mahajan, Sr. Vice President, Tejas Networks Ltd., also participated at the event.

A CEO Summit on “Creating A Globally Competitive Electronics Manufacturing Industry” on 16th February 2012 and a Conference on “Facilitating High Value Added Manufacturing of Electronic Components and EMS” on 17th February 2012 were also organized as a part of the event. The Expo also featured Buyer-Seller Meet which attracted participation from international as well as domestic buyers and sellers.

Some of the prominent companies which participated included, R.S Components, Rabyte, Millennium Semiconductor, Nidec, Dixon Technologies, CSIL, Amphenol Interconnect, SGS tekniks, Digital Circuits and Bergen Associates.

ELCINA & Vittal Innovation City to form JV for Electronics Manufacturing Clusters

ELCINA and Vittal Innovation City (VIC) have agreed to set-up a joint venture to promote clusters for electronics component and equipment manufacturing across the country. A MoU was signed by Mr. N. Vittal, Chairman, Vittal Innovation City and Mr. Pawan Sharma, Vice President, ELCINA in New Delhi on 3 February, 2012. The first cluster is expected to come up in North India, near National Capital Region of Delhi in one year.

ELCINA President Shri T. Vasu said “This is a very important initiative for the industry as Department of IT has advised us to establish the first such Model Cluster and prove that we have conceptualized the right Cluster Model for the country. The Draft National Electronics Policy 2011 envisages setting up 200 such Clusters in the country and we hope to contribute significantly to this initiative”. VIC already has an MOU with Institute of Information Technology (IIT), Taiwan to promote the cluster with the Taiwanese electronics companies, and with the Korean Government to promote the cluster for Hi-tech Korean companies.

• State Level ESDM Workshop at Kolkata

• Workshop on Skills Development in ESDM sector

Government of West Bengal to come out with State Policy on Electronics soon

A State Level ESDM Workshop on “Opportunities and Challenges in ESDM Sector in West Bengal” was organized jointly by FICCI and the Government of West Bengal on March, 6, 2012 at Kolkata with support from DeitY, Ministry, Government of India. The workshop is part of the DeitY’s, efforts to engage State Governments and industry in all parts of the country to participate in the opportunities offered by the ESDM sector.

The workshop was inaugurated by Shri Partha Chatterjee, Hon’ble Minister of Commerce and Industries and Information Technology, Government of West Bengal in the presence of Dr. Ajay Kumar, Joint Secretary, DeitY, Shri. Basudeb Banerjee, Principal Secretary, Department of Information Technology, Government of West Bengal, and leaders of various industry bodies including Mr. C. K. Dhanuka, Former Chairman, FICCI Eastern Region Council, Mr. S. Radhakrishnan, Chairman, ESC India, Mr. A. K. Mukherjee, Vice president, CEAMA, Shri Pankaj Mahindroo, President, Indian Cellular Association and Dr. Jaijit Bhattacharya, FICCI Executive Committee Member. Hon’ble Minister announced that Government of West Bengal is soon coming up with a focused policy to boost manufacturing in the ESDM sector.

Dr. Partha P. Chakroborty, Dean, SRIC (Sponsored Research and Industrial Consultancy), IIT Kharagpur informed the audience about the cutting edge research and industrial projects being done at Indian Institute of Technology, Kharagpur in the ESDM sector *cont. in right column*

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Workshop on Challenges and Solutions in bridging the gap of Skilled Human Resource (HR) in ESDM sector

A one day workshop was organized by Department of Electronics & Information Technology (DeitY) and National Institute of Electronics and Information Technology (NIELIT) on 2nd March 2012 at Scope Complex, New Delhi. The workshop was attended by experts and delegates including senior Government officials, Industry leaders from Electronics and Hardware Manufacturing, Industry associations, Training providers and Academia. The aim of the Workshop was to prepare a road map on bridging the gap of Skilled Human Resource (HR) in Electronics System Design Manufacturing (ESDM) sector with the active participation of the private sector

Shri N. Ravi Shanker, IAS, Addl. Secretary, Department of Telecommunications, Government of India was the Chief Guest at the Workshop. He mentioned that skill development in ESDM sector is a very urgent need to meet the target of 500 million skilled manpower by the year 2020 set under National Skill Development Initiative. Dr. Ajay Kumar, Joint Secretary, DeitY, Dr. Debashish Dutta, SD, DeitY, Dr. M.M. Tripathi from NIELIT and Shri JV Ramammurthy from HCL Infosystems participated in the inaugural function.

The thought leadership for the workshop was also provided by luminaries like, Mr. Basab Banerjee, NSDC, Mr. Rajiv Mahajan, Tejas Networks, Prof. N. J. Rao, IIT Bangalore, Mr. R. L. Singh, Director, DGE&T, Mr. J. Sreekanth, CEO, SEER Akadami, and Mr. Sanjay Shivnani, President & CEO, Career Launcher among others.

The Workshop recommended creating a forum for Skills Development in ESDM sector for a continuous dialogue on strategizing for human resource development across the value chain in the ESDM industry. The representatives from various ESDM Industry verticals, Industry Associations, Academia, Public Training Providers, Private Training Providers, Skills Domain Specialists from Policy Advisory, National and International Skills Development Models etc. and Government Representatives, DeitY, Ministry of Labour and Employment and Ministry of HRD may join this forum. The forum can meet regularly and/or on need basis. Further, the Workshop recommended that this forum may be mandated with following Terms of References:

1. Strategizing and implementing Competency Need Assessment study.
2. Developing Integrated Human Resource Development Program for the ESDM Industry.
3. Developing Research Manpower Development Scheme.
4. Suggesting various national and international skills development models applicable for the ESDM industry in India.

Government of West Bengal *contd. From left column*

..... and how local manufacturers could take benefit of it. He also highlighted the challenges relating to lack of trained manpower, particularly at operator level were also discussed. Shri Arun Sachdeva, Senior Director, DeitY spoke about the plans to mandate safety and health standard in the sector. Shri Akhilesh Saurikhia, Consultant ESDM, PMU elucidated the communication and brand building efforts being undertaken to develop a “Brand India” in the ESDM sector. Other important participants included Dr. S. Ray, West Bengal Electronics Industry Development Corporation, Ms. Swati Purakayastha, Optimal Power Solutions, Mr. Kali Krishna Bhattacharya, India Carbon Ltd., Mr. Bharat Gupta, IBM India Pvt. Ltd. and Mr. Arijit Sen, Hewlett-Packard India, besides others.