



**इलेक्ट्रॉनिक्स कॉर्पोरेशन ऑफ इंडिया लिमिटेड**

**Electronics Corporation of India Ltd**

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**PRESS RELEASE**

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**ECIL demonstrates High Tech Electronic Products**

**Bengaluru:** Electronics Corporation Of India Ltd., a Hyderabad based premier Public Sector Enterprise in the field of Control Systems, Instrumentation, Communication & Information Technology, demonstrated many High Technology products at an impressive function held at Bengaluru, today.

Speaking on the occasion, Chief Guest Sri V V R Sastry, Executive Director C-DOT & former C&MD of BEL, informed that India is in the third phase of technology development, where both liberalisation & self reliance is being addressed. The national manufacturing policy, which is in the pipeline, will be focusing on giving encouragement to Indian manufacturers. India must develop its own IP & technology, so that it can cater to Indian industry & concerns rather than depending on foreign suppliers.

Maj. Gen (Retd) Sanjeeva Loomba, Acting CMD, ECIL, informed that ECIL is expected to reach a turnover of Rs 1750 crores during the year 2012-13. Indian companies have to secure themselves from new threats. The seven indigenous products which were displayed during the product demo showcased ECIL's vision of self reliance and security for critical applications.

Dr Sharathchandra Babu, Executive Director, CDAC, stressed the need for supporting indigenous technologies and collaboration between CDAC, ECIL & other Indian R&D establishments. He also complemented ECIL for joining hands with R&D organisations like SETS, BARC and institutions like IIT Bombay to productionise state of the art innovations.

Dr P V Ananda Mohan, Sr. Technical Expert, ECIL, explained the array of encryption products being developed & manufactured at ECIL, which is catering to the needs of India's Defence forces. Sri P. Viswanath, General Manager, ECIL, explained the features of MPROGICON PLC & EC SCADA.

Senior Project leaders of all the seven products which were demonstrated, made presentations on their products. The participants from major Indian organizations & PSUs were impressed with the features & state of the art technologies being utilized by ECIL in these new products.

Live demonstrations of the following seven products were held in the afternoon sessions.

1. MProgicon 5000 Series Programmable Logic Controller
2. ECSCADA
3. Machinery Protection System
4. Secure Network access System (SNAS)
5. Integrated Threat Management Appliance (ITMA)

6. ECR1000 series High Speed Transport Routers
7. Next Generation Bulk Encryption Unit (NGBEU)

#### **About ECIL**

**Electronics Corporation of India Limited (ECIL)** was established in 1967 as a Public Sector Enterprise under the Department of Atomic Energy (DAE) to support the Instrumentation and Control requirements of India's Nuclear Power Programme. The early forays in to consumer electronics has made ECIL a house-hold name and resulted in introduction of many "firsts" in the country such as Digital Computers, TVs etc. ECIL is widely recognised as a torch-bearer of Electronics and IT revolution in the country.

Ranging from miniature components to complex systems and encompassing Instrumentation, Communication and Computer technologies, ECIL today is a multi-product, multi-disciplinary organization providing cutting-edge technology solutions to discerning users in strategic sectors such as Defence, Atomic Energy, Aerospace, Electronic Security, IT & e-Governance. ECIL recorded a turnover of Rs 1474 Crores in 2011-12.

#### **About MPROGICON 5000 Series of Programmable Logic Controllers & ECSCADA**

ECIL has developed the MPROGICON 5000 Series of Programmable Logic Controllers targeted to serve critical applications where safety & security is a concern. MPROGICON 5000 Series PLC systems are built on the ECIL's legacy of constructing automaton systems for Nuclear Power Plants. This is coupled with ECIL's philosophy of certainty of supply and support, protection against obsolescence and nation-wide service network. MPROGICON 5000 Series PLC uses industry standard & familiar programming interfaces, development environment and field engineering standards.

Recognizing the current trends in Industrial Automation, ECIL offers an indigenously developed HMI package named ECSCADA. Easy to install and configure, ECSCADA is ideal for a HMI that needs integrated logging and data processing functions, trending and reporting functions. By seamlessly supporting the MPROGICON 5000 Power Series PLC system of ECIL, the ECSCADA provides an open window to the operation of the control system based on ECIL's MPROGICON 5000 Power Series PLC system.

#### **About Machinery Protection System (MPS)**

The Digital Signal Processor (DSP) based **Machinery Protection System (MPS)** jointly developed by ECIL and BARC, monitors the various parameters of the turbine and annunciates/trips the turbine, whenever any parameter exceeds the specified limits. This system enables the operator to take corrective action to prevent damage to the TG set/rotating machines. MPS caters to any parameter requirements of the rotating machines.

#### **About ECIL'S CARRIER ETHERNET SWITCH (EC CES) ROUTER**

Built with a path-breaking technology EC CES router collapses the lower three layers of the Internet protocol stack into a single layer. This innovative and completely indigenous technology is poised for replacing not so efficient present version of the Internet hierarchy with IP as the dominant network protocol, Ethernet as the MAC protocol and WDM at the physical layer. In addition EC CES Router supports DWDM fabric at layer 1 – hence facilitates excellent fiber utilization and minimizes energy consumption.

#### **About Secure Network Access System (SNAS) and Integrated Threat Management Appliance (ITMA)**

Secure Network Access System (SNAS) and Integrated Threat Management Appliance (ITMA), the two indigenous network security products from ECIL, protect the enterprise network from internal

and external attacks and other threat vectors respectively. ITMA provides an integrated solution for the external threats by screening the traffic at the perimeter level, whereas SNAS verifies whether the end systems in a network are in line with an organisation's security policy and subsequently determines whether the end system is suitable to have access to the network. SNAS and ITMA make the network management simpler, ensure compliance with security policies tangible and ensure bandwidth of the network is controllable.



Fig 1 : ECIL's MPROGRICON 5000 Series PLCs being demonstrated to the VIPs



Fig 2 : Mr VVR Sastry,ED,C-DOT and\_Maj.Gen. (retd) Sanjeev\_Loomba,CMD- ECIL, witnessing the Product Demo of the ECR1000 series High Speed Transport Routers



Fig 3: Shri VVR Sastry, ED C-DOT, sharing his experiences with the delegates

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