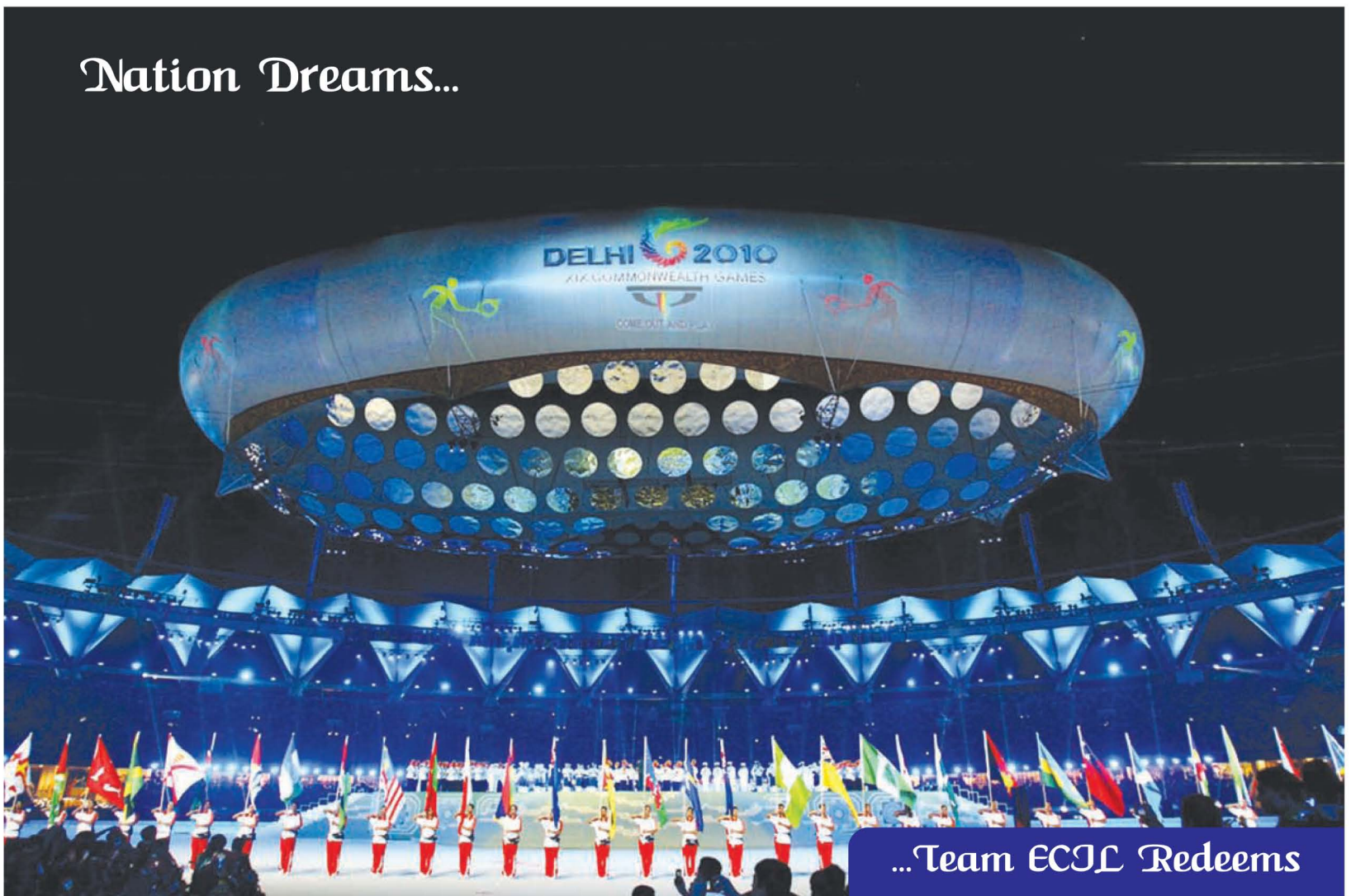


ECIL News

House Magazine of Electronics Corporation of India Limited, Hyderabad (for internal circulation only)
October 2010

Integrated Security System For Commonwealth Games 2010

Nation Dreams...



...Team ECIL Redeems

ECIL News

*Conveys Season's Greetings
To All Employees
And Their Families*

INSIDE

- ▶ C&MD's Message
- ▶ Focus on ISS for CWG
- ▶ Homage to Dr. Sethna
- ▶ Independence Day at ECIL

C&MD Message

Dear Colleagues,



This edition of EC News highlights the remarkable feat of successfully delivering the Integrated Security System for CWG-2010, once again reinforcing ECIL's reputation as nation's premier security system integrator and solution architect. Completed in record time under very adverse circumstances, this achievement stands testimony to our resilience, professionalism and collective strength. It is a reminder of our innate potential and underutilized capacity. This accomplishment also shows the way to the future- key to success lies in meticulous planning, due diligence in our dealings, self-reliance, knowledge of technology, motivated employees, appropriate training, adherence to timeliness in delivery, quality built upfront, multi-disciplinary competency, synergy and perseverance.

There are other equally challenging projects underway at ECIL- in the hoary tradition of delivering "firsts". Some of these are - MACE telescope at Hanle, C&I systems for nation's first large breeder reactor, C&I systems for propulsion apparatus, power converters for ITER & FAIR, C⁴I systems for missile ground support and large COMINT systems. These involve cutting edge technologies requiring competency and commitment reinforcing ECIL's position as India's leading technology house.

ECIL's edifice in Nuclear C&I, Defence, Aerospace, Security and IT technologies rests on the firm foundations of Indigenous R &D- this is a never ending task and our plans and programs are laid-out to strengthen these foundations and widen the edifice. In addition to being a strategic imperative, enlarging our product/ technology base makes eminent business sense in terms of better bottom line and increased value addition. There have been significant new products introduced this year - Criticality Alarm System, Drum Monitor, Instrumented Pipeline Inspection Gauge (IPIG), Next Generation Bulk Encryptor, M7 Radio, Stabilized Airborne SATCOM terminal- to name a few. Our early foray into Multi-purpose National Identity Card Project (MNIC), EW systems and C⁴I systems has helped us to establish a technology base and track record which should stand us in good stead as these enter into large scale deployment phase. We are committed to continue on this path absorbing and assimilating technologies from our national R&D centres, designing new products, creating new IP & markets. The rapid growth of Indian economy and expanding domestic market gives us an unprecedented opportunity to grow both in commercial and technological terms. In order to reach these long term goals we have launched projects to upgrade physical and technical infrastructure, human resource development, collaborations, business tie-ups and integrated R&D programs.

The company has set an ambitious target of ₹ 1415 Crores turn-over for 2010-11. Even though some of the anticipated orders may not materialize, the company is attempting to fill the gaps by additional efforts to convert existing orders and to acquire new orders.

As we enter the year 2011 with renewed vigour and hope, I wish one and all a happy, peaceful and prosperous New year.

(YS Mayya)
Chairman & Managing Director

National Population Register (NPR)

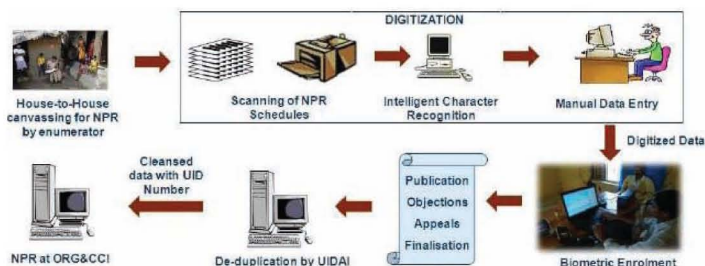


The Government of India has initiated the creation of National Population Register (NPR) by collecting specific information of all usual residents in the country during the Houselisting and Housing Census phase of Census 2011 during April 2010 to September 2010. The NPR is a comprehensive identity database to be maintained by the Registrar General and Census Commissioner of India (RG&CCI), Ministry of Home Affairs, Government of India. The objective of creation of the NPR is to help in better targeting of the benefits and services under the government schemes, improve planning, improve security and prevent identity fraud.

NPR Process

In the NPR process, following details are being gathered by designated enumerators by visiting each and every household:

- (i) Name of the person (ii) Name of the person as should appear in National Population Register (iii) Relationship to Head (iv) Sex etc.....



The data thus collected will then be digitized in the local language of the State as well as in English. This digitization involves the scanning of the forms (NPR Schedules) and validating the data using an Intelligent Character Recognition Software (ICR). For this purpose, RGI has established a number of scanning centres across the country. The data thus scanned in the form of scanned images will then be manually digitized. ECIL, BEL and ITI have taken up this job for Bulk data digitization for all the Coastal States and UTs. ECIL, being a member of CPSU consortium is specifically entrusted with the digitization job in Andhra Pradesh, West Bengal, Orissa, Andaman & Nicobar. Estimated population to be covered by ECIL is approx. 19 crore. For this, ECIL is going to set up 20 Bulk Data Entry Centres.

Once this demographic database has been created, then the biometrics enrolment (capture of 1 Photograph, 10 Finger

Prints and Iris scan of both eyes) will be carried out for all persons aged 5 years and above by arranging enrolment camps in every village and at the ward level in every town. The collected data will be printed in the form of LRUR (Local Register of Usual Residents) and displayed at prominent places within the village and ward for inviting claims/



objections from the public. Each of these claims/ objections will then be enquired into by the Local Registrar (Local Revenue Official) and disposed off through a set process as per instructions of the Office of RGI. Once this process is over, the list will be placed before the Gram Sabha in villages and ward committee in towns for vetting the list of usual residents. Once the list cleared, the same would be authenticated by the District Collector / Magistrate. Corrections/ modifications in the LRUR would then be carried out.



The information thus authenticated will then be sent to the UIDAI for de-duplication and issue of Unique Identification (UID) Numbers. The cleaned database along with the UID Number will then be sent back to the Office of the Registrar General and Census Commissioner of India (RG & CCI) and would form the National Population Register

The NPR data with Unique ID number will be used by ECIL in its Tirupati Personalization Centre to create cards for the Residents with age of 18 years and above. The Application software for digitization & Biometric enrollment has been developed by ECIL NPR Software team.

Prior to this NPR National Project, ECIL took part in NPR phase I Pilot project to collect primary data and enroll biometric data in Coastal villages of Andhra Pradesh, West Bengal, Orissa, Andaman & Nicobar. ECIL also successfully personalized and manufactured cards for selected districts of West Bengal, Tripura and U.P in Kolkata Perso Centre.

Protecting your information - Part I

Dr. P.V. Ananda Mohan, Fellow IEEE, FNAE, Fellow IETE

Every day, we are hearing about the importance of Information security latest news being the Government thinking of Banning Blackberry services. This is because of the reason that there are very sophisticated ways of sending information on the public networks without others being able to know it. Cryptography or the art of hiding messages is very ancient art. It originated originally from the military needs of nations but it has now encompassed every other area such as banking, e-commerce, protection of Intellectual property, Secure Storage etc. The advent of internet, wireless devices, wireless networks of various types e.g. GSM, CDMA, 3G, Blue tooth, Wi-fi, MANETs (mobile Adhoc Networks) have spurred the growth of the area. Protection of software, design information, personal secrets etc has led to organizational as well as individual privacy needs. In addition to protecting information, you need to prove yourself to somebody. This is called Authentication. We need to convince the ATM that we are the actual users. Some times, we need to sign the messages in an electronic manner so that the recipient can verify that it is signed by the actual person. Let us see briefly how this is done in practice.

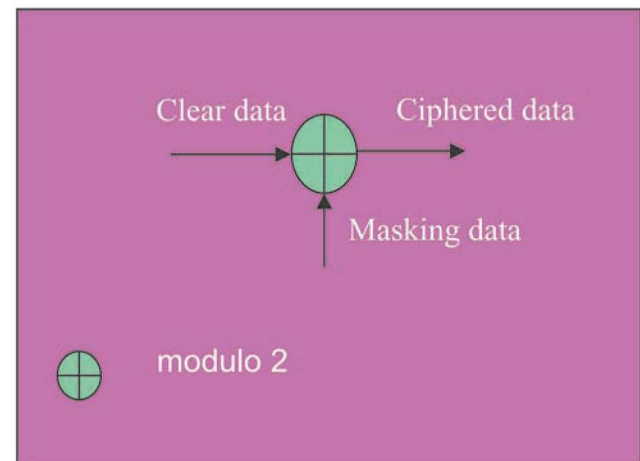
Encryption

Today voice travels on the media in digital form. For example, in our cell phone there is a CODEC (coder and decoder). In our PC, there is a speech card. Picture or Video signals are also digitally transmitted. The encryption of these can be handled in two ways. One method is known as **Stream Ciphering** (see Fig. 1), wherein a random binary sequence is generated at the same bit rate as the coded speech or video and used to mask (bit by bit exclusive-ORing) with the original bit stream to obtain the stream which will be transmitted on the medium. This is similar to masking the signal by noise. In your GSM phone or CDMA phone Bluetooth, this is what is done. A "key" is used to generate the masking sequence which is used by both the sender and the receiver. The receiver also generates same sequence and masks it with what he is receiving. He gets back the original speech or video.

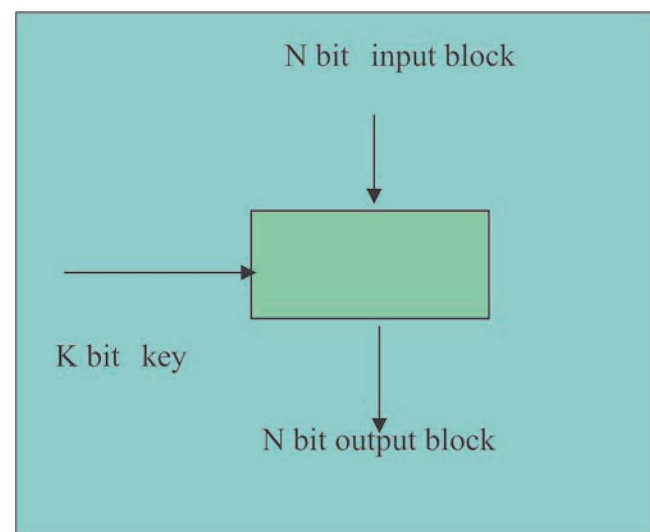
In another method known as **Block Ciphering** (see Fig.2), the input bit stream (say your MS word file) is considered as blocks of fixed length for example 128 bits. These blocks are mapped into new blocks under the control of a "key".

The key length today is minimum 128 bits. This means that the interceptor needs to search by Brute force all the 2^{128} keys to get to know the information. On the other hand, the intended partner can just like that decrypt since he/she knows the key. This method is used now in all banking transactions. It is important to keep the key safely. There are several standards available today such as AES, DES, Triple-DES, Blow Fish, IDEA and many more. Your router has some or all of these coded and uses IPSec standard.

We will see in the next part how authentication is done.



Stream Ciphering by masking



Block Ciphering

The author is with ECIL, Bangalore
as Senior Technical Expert.

Visits Galore



July 3
SPD
Maj. Gen. Anil Sharma, Major General Artillery, Eastern Command, being briefed by Maj.Gen.(Retd.) Sanjeev Loomba, Director (Personnel).



July 3
CND
Dr. V.K. Saraswat, Scientific Adviser to Raksha Mantri, being briefed by Shri N.S.S.Prasada Rao, Director (Technical).



July 9
TCD
Air Vice Marshall N.B.Singh, VSM, ACAS Signals & IT from IAF visiting the Encryption facility.



July 20
AP&SD
Dr. K. Sekhar Outstanding Scientist, CC R&D (MS & LIC) & (I) seen interacting with Director (Technical) and GM, AP&SD, during his visit to ECIL



July 24
SSD
Maj. Gen. Ravi Khetarpal, VSM (Retd.), C& MD, BDL, being briefed on Pipeline Inspection Gauge (PIG) by C&MD, Shri Y.S. Mayya.



July 29
Board Room
Dr. V. Venugopal, Director, Radiochemistry & Isotope Group, BARC, Mumbai, being welcomed by Director (Technical).



July 30
Board Room
Shri R.C. Agarwal, Director, DEAL, Dehradun, being presented a bouquet by our C&MD, Shri Y.S. Mayya.



August 6
CAD
Dr. C.B.S. Venkataramana, Joint Secretary (I & M), DAE, visiting the PCB assembly line.

HR News

Programme on Right To Information Act (RTI)



A Programme on RTI was conducted from 21st to 23rd June, 2010 in association with Administrative Training Institute of DAE. Shri Achleswar Singh, faculty from ATI conducted the sessions. The programme covered the main features of the Act and dwelt on the topics on which the information is sought by the citizens. 42 executives participated in the programme. The programme was inaugurated by Head, PG.

Quality Assurance Programme



An intensive four weeks training programme on Quality Assurance was conducted with a view to strengthen the Quality function in the company. The participants were required to attend the class room sessions during the forenoon and do the assignments given by the faculty in the afternoon.

Materials Management Programme



With a view to strengthen the materials management function and also to develop Materials Management professionals, a four weeks intensive programme on Material Management was conducted in association with Hyderabad Management Association. The participants were given theoretical inputs in the forenoon and in the afternoons they were given assignments on the subject.

Lectures By Eminent Persons



As a part of a lecture series by eminent persons, a lecture on Battlefield Management Systems was conducted by Shri.K. Ramesh, Sr. Scientist from Centre for Artificial Intelligence and Robotics (CAIR) of Ministry of Defence. While explaining the work being done at CAIR, Shri Ramesh has elaborated on the need for indigenization and also touched upon various areas where ECIL and CAIR can work together for developing critical software and hardware required by armed forces.

Orientation Programme For Personnel Executives

To comply with Vigilance guidelines BSD has developed a package to enable the executives to submit their property returns on-line. The objective is to ensure 100% compliance in submission of property returns and as well as to ensure that the returns submitted are properly stored and retrieved whenever Personnel Executives were given hands-on training on this package. This programme was conducted by Shri Kalidas, DGM, BSD / IT & TG.

CWG Training For Trainers

As a part of the contract relating to security systems for Commonwealth Games, a large number of Security personnel were required to be trained by ECIL on the security gadgets. To meet this requirement, an intensive Training of Trainers programme was conducted for selected internal executives. They were given training on the functioning of the security gadgets as well as the techniques of training.

Integrated Security System (ISS) For Commonwealth Games (CWG 2010).

Introduction

Team ECIL redeemed the trust reposed in it by the Government of India by successfully providing the Integrated Security System (ISS) for the recently concluded Commonwealth Games (CWG 2010). The acquisition, execution and overall project implementation posed unique challenges unheard of in the history of ECIL. The complexity of the project lay not merely in the number of security gadgets to be provided but also in the co-ordination with the number of agencies involved. The date for the inauguration of the Games being fixed, there was no scope for slippages of any kind. In the end, the company met the requirements successfully and came out with flying colours. This has also brought to the fore, the inherent capabilities of ECIL employees and their ability to deliver under trying circumstances.

The Ministry of Home Affairs (MHA) had decided that the CCTV systems at all venues would be established by ECIL. The Apex Committee, under the Chairmanship of the Hon. Lt. Governor of Delhi, directed ECIL to install CCTV systems and Control Rooms at all the Games venue as well as the Police Headquarters. During the Games, round-the-clock operations were conducted at our Delhi office. A call centre was established at the (Main) Control Room to attend to the issues as they came up and provide support to the team leaders by providing spares and escalating issues to higher management whenever required.

The total project implementation was guided by the Steering Committee chaired by the Special Advisor (CWG) and the Joint Committee comprising of representatives from Delhi Police, Intelligence Bureau, Venue Owners, Organising Committee and ECIL. The specifications of the system were frozen by a Committee constituted by the Delhi Police. The past experience of successfully implementing and maintaining projects of national importance like the ISS for the Parliament House in 2004, the security system for the Prime Minister's office and residence through SPG and the IP based CCTV system and ISS for the Prime Minister's residence in 2008 gave enough confidence to ECIL to offer a solution for the security of the CWG 2010 and successfully implement the same within the available time.

Details of the ISS System offered by ECIL



Closed Circuit (CC) TV System



Personnel Access System



Vehicular Access System



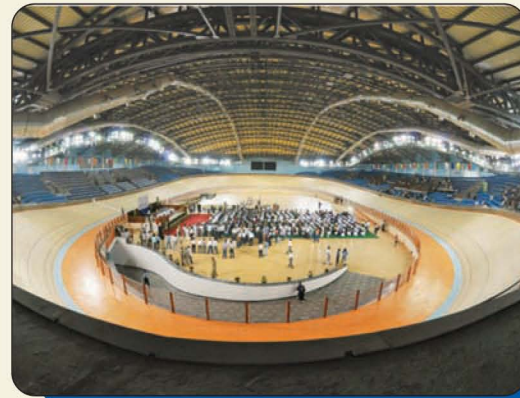
Venue Security Command Centre

The Scope Of The Project

ECIL was awarded the ISS for CWG worth ₹ 345 Crore to cover Security Systems for a total of 33 venues (13 competitive venues, 14 training venues and 4 parking venues)



Jawahar Lal Nehru Stadium



Indira Gandhi Indoor Stadium



Talkatora Stadium



Thygaraja Stadium



Major Dhyhan Chand Stadium



Dr. Karni Singh Stadium



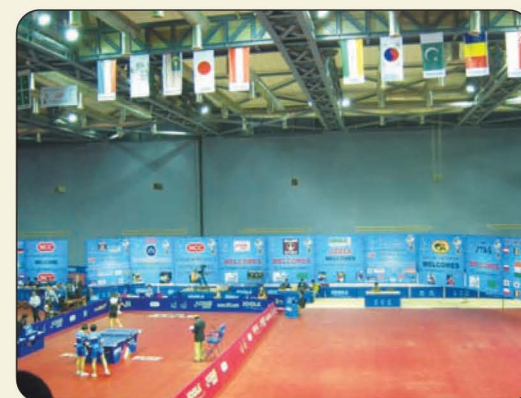
CRPF Stadium Kaderpur



Siri Fort Sports Complex



Dr. S P Mukherjee Stadium



Yamuna Sports Complex



R K Khanna Stadium



Noida Express Highway



Delhi University Stadium

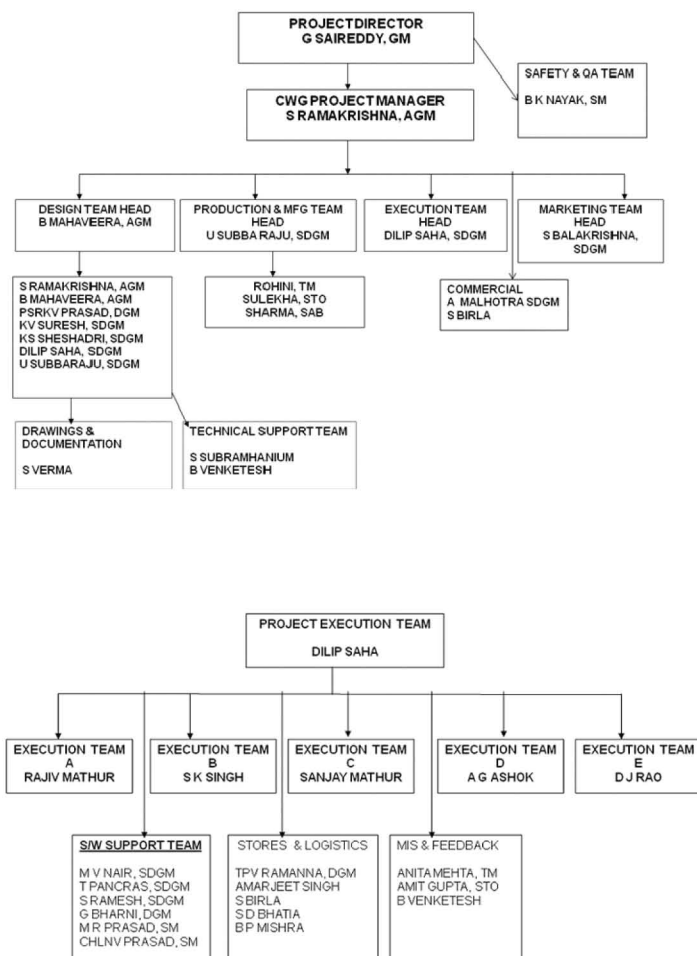
Training Venues: (14)

- Du Colleges (8 Nos)
- Saket
- Delhi Public School
- Chattrasal Stadium
- Ludlow Stadium
- Jamia Milia
- Shivaji (Not Ready)

Parking Venues: (4)

- IP Power
- IP Ashpond
- IP Cargo
- Safderjung

The Team Behind Success



Section of "Team ECIL" with C&MD and Director (Technical)

Secretary DAE Congratulates Team ECIL



डॉ. श्रीकुमार बॅनर्जी
Dr. Srikumar Banerjee



अध्यक्ष, परमाणु ऊर्जा आयोग
सचिव, परमाणु ऊर्जा विभाग
Chairman, Atomic Energy Commission
&
Secretary, Department of Atomic Energy

No. 479-2010

November 2, 2010.

Dear Shri Mayya,

I am very happy to receive your note giving a summary of the ECIL activities which led to the successful delivery of Integrated Security System to Commonwealth Games – 2010 in Delhi. This was a job done against many odds and particularly against time. ECIL had also to interface with several agencies and successfully bring out the system just before the game started. I take this opportunity to convey my congratulations and appreciation to all your colleagues who were involved in this work. I am sure the contribution of ECIL towards the success of Commonwealth Games will be remembered forever.

With best regards,

Yours sincerely,

Srikumar Banerjee

(Srikumar Banerjee)

Shri Y.S. Mayya
Chairman & Managing Director,
Electronics Corporation of India Limited
ECIL P.O.
HYDERABAD – 500 062.

Fax: 040 - 27122535

अ. एवं प. नि. का कार्यालय
C & MD's Office
सं./No. दि./Date: 02/11/10



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Anushand Bhavan, Chhatrapati Shivaji Maharaj Marg, Mumbai - 400 001, India
Phone: +91 (22) 2202 2543 • Fax: +91 (22) 2204 8476 / 2284 3888 • Grams: ATOMERG
E-mail: chm@dae.gov.in

CWG WORKSHOP

A Workshop was held on 20th November 2010 to elicit feedback on unique experiences and suggestions for organizing such mega events in future. Details in the next issue of EC News.

ECIL Hands Over ₹14.7 Cr. Dividend to DAE



Shri Y.S. Mayya, Chairman and Managing Director along with other functional Directors handed over the cheque for ₹ 14.7 Crores (35 % of Profit After Tax) as dividend for the financial year 2009-10 to Dr. Srikumar Banerjee, Chairman, Atomic Energy Commission and Secretary, Department of Atomic Energy, Government of India, Hyderabad. The Company achieved a record turnover of ₹1187 Crores for the year.

From The Archives of EC News - JULY / AUG 1975

SITE – A BEAMING SUCCESS



Date: August 1, 1975. Time 6.20 p.m Event: Inauguration of the Satellite Instructional Television Experiment (SITE). A momentous experiment in mass communication. Crowds of people in 2400 villages in six states watch in awe as the Prime Minister, Smt. Indira Gandhi addresses them through this new medium.

The Satellite - ATS-6-loaned to India for one year by National Aeronautics and Space Administration (NASA) is positioned 36000 kms. above the earth.

ECIL has made the entire equipment for the Direct Reception System which, at each of the 2400 villages consists of a 3 metre diameter chicken-mesh antenna, front – end converter and specially - built TV receiver set.

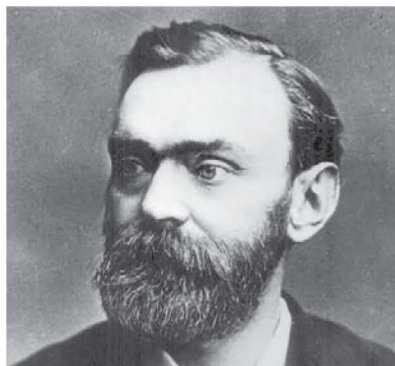
The antenna directly picks up the ultra – high frequency signals which are transmitted by the satellite. The front – end converter's head – end which is attached to the antennae converts these signals to intermediate frequency signals which are then conveyed by cable to the converter's tail end which is inside the TV set. The tail-end processes and amplifies these signals which are then converted into visual display on the TV receiver set. The TV set is completely transistorized, with modular construction. Some of the sets are specially made to be battery-operated, so that TV can reach even unelectrified areas.

The excellent picture clarity of the image received on the TV set indicates the successful working of our equipment and has proved the competence of the personnel engaged in its manufacture – the Antenna System Group (ASG) Micro-wave Division (MWD), and Television Division (TVD)

Know About Nobel Prizes

The Nobel Prizes are annual international awards bestowed by Scandinavian committees in recognition of the cultural and scientific advances. The will of the Swedish chemist Alfred Nobel, the inventor of dynamite, established the prizes in 1895. The prizes in Physics, Chemistry, Physiology / Medicine, Literature, and Peace were first awarded in 1901. The Sveriges Riksbank Prize in Economic Sciences in memory of Alfred Nobel was instituted by Sveriges Riksbank in 1968 and was first awarded in 1969. Although technically not a Nobel Prize, its announcement and presentation is made along with the other prizes, with the exception of the Peace Prize which is awarded in Oslo, Norway. Each Nobel Prize is regarded as the most prestigious award in its field.

The Royal Swedish Academy of Sciences Chemistry, and the Nobel Memorial Prize Assembly at Karolinska Institute awards the Swedish Academy grants the Nobel Prize awarded by a Swedish organization but by Each recipient is presented with a gold which depends on the Nobel Foundation's worth 10 million SEK (US\$1.4 million). The unless the winner of the prize has passed can a prize be shared among more than



Alfred Nobel

awards the Nobel Prize in Physics, and in Economic Sciences. The Nobel Prize in Physiology / Medicine. The in Literature. The Nobel Peace Prize is not the Norwegian Nobel Committee. medal, a diploma, and a sum of money income that year. In 2009, each prize was prize cannot be awarded posthumously, away after the prize's announcement. Nor three people.

Noble Prizes : 2010

Medicine



Robert G. Edwards from Britain for his pioneering work in developing in vitro fertilization (IVF), India's first test tube baby; Kanupriya Didwania is celebrating her 32nd birthday. She is an MBA and working as a brand manager for Perfetti India.

Physics



Andre Geim



Konstantin Novoselov

Russians Andre Geim and Konstantin Novoselov, both of the University of Manchester, "for groundbreaking experiments regarding the two dimensional material Graphene." Graphene is a form of carbon. It is the thinnest and strongest material ever having wide applications in electrical and electronics discipline.

Chemistry



Richard F. Heck



Ei-Ichi Negishi



Akira Suzuki

American citizen Richard F. Heck, 79, of the University of Delaware in Newark, Delaware, Japanese citizens Akira Suzuki, 80, of Hokkaido University in Sapporo, Japan, and Ei-Ichi Negishi, 75, of Purdue University in West Lafayette, Indiana, for developing new ways of bonding carbon atoms that has allowed scientists to make medicines and better electronics.

Literature



Peruvian Mario Vargas Llosa "for his cartography of structures of power and his trenchant images of the individual's resistance, revolt, and defeat". He is a citizen of Spain.

Peace



Liu Xiabo from China, who is currently serving an 11-year jail sentence in his country for his 'long and non-violent struggle for fundamental human rights in China'.

Economic Sciences



Peter Diamond



Dale Mortensen



Christopher Pissarides

Americans Peter Diamond and Dale Mortensen and Christopher Pissarides, a British and Cypriot citizen for the development of 'Search Theory'. The theory gives answers to common questions like "Why are so many people unemployed at a time when there are a large number of job openings?"

For a detailed information log on to the official website of Noble Foundation

<http://www.nobleprize.org>

Compiled by : Pawan Kumar Sharma, Technical Officer/CPPM

Homi Sethna: The Doyen of India's Nuclear Programme

Homi Nusserwanji Sethna, the former Chairman of Atomic Energy Commission and an important figure in India's Nuclear Programme, passed away at his home in Mumbai on September 5.

Dr. Sethna played a key role in the country's first peaceful nuclear explosion of May 18, 1974, called the smiling Buddha, or Pokhran-I.

Dr. Sethna, who was Chairman AEC from 1972 to 1983, had the second longest tenure, next to Homi Bhabha, and was a pioneer in several areas of India's Atomic Energy programme. He made a critical contribution to nuclear materials development and production over the entire nuclear fuel cycle.



Dr.Sethna at ECIL's 1st Board Meeting

Dr. Sethna pioneered the spent fuel reprocessing technology in India and played a crucial role in designing and setting up of the first plutonium separation plant at BARC.

Dr. Sethna was on the Research Advisory Committee of the Planning Commission in 1998. He was conferred the Padma Shri, the Padma Bhushan and the Padma Vibhushan and has won a number of other awards and honours.

Dr. Sethna was a close associate of our founding father Dr. A.S. Rao both personally and professionally. He evinced keen interest in the activities of ECIL and visited us on two or more occasions. Below is a photo feature of Dr. Sethna at ECIL.



Dr.Sethna moving around various divisions with our founding father Dr.A.S.Rao and Shri M.A.Hadi, the then Additional Secretary, DAE and others.

In Memorium



KOTIYA NAIK
Tr Mate 'D' (R&D)
Birth : 26-6-1965
Death : 1-7-2010



K.RAMULU
Cleaner, BSD / IT&TG
Birth : 17-7-1954
Death : 19-7-2010



Md ABDUL RAZAK
Artisan 'C', SSD
Birth : 15-12-1953
Death : 26-7-2010



M.YADAGIRI
Sr.Supt. (P&A), ICD
Birth : 7-8-1957
Death : 30-07-2010



G.SATYANARAYANA
Sweeper, Canteen / PG
Birth : 20-5-1966
Death : 18-8-2010



SYED JABBAR
LVD, Transport / PG
Birth : 15-07-1959
Death : 15-10-2010

Disclaimer

Every effort has been made to ensure accuracy of the information contained in this Newsletter. We however, accept no responsibility for errors, if any, which may have crept in inadvertently.

Dr. A.S. Rao Memorial Lecture

On the occasion of Dr.A.S.Rao's Birthday, a memorial lecture was organized. Dr. E.V.R.Rao, Ex-Director of ECIL and Dr. M. Lakshminarayana, Sr. Scientist, DRDO have lectured on this occasion. Dr. Rao spoke at length on the life of Dr.A.S.Rao, associated with creation of ECIL and the subsequent developmental efforts lead by Dr.A.S.Rao. He recalled several incidents in the life of Dr.A.S. Rao associated with creation of ECIL and the subsequent development efforts lead by Dr.A.S.Rao. Dr. Lakshminarayana spoke on the indigenous efforts at DRDO and the challenges of indigenization.



Dr. E.V.R.Rao

Dr. M. Lakshminarayana

స్మరణాంజలి

ఒక కిరణం... ఒక జ్యోతి కలగలసిన మానవత్వై
ఒక తత్వం... ఒకే దృక్పథం ఒక నిరంతర సాధనయై
నిష్ఠలత్వం.. నిర్మలత్వం నిరాడంబరతకు దర్శనమై
వెలుగొందిన మహా మహాడు మహోన్నతుడు
డా॥ ఏ.ఎస్.రావు

నిరంతరం స్మృతిపథాన మెదిలే మానవ మూర్తి
అణుశక్తికి సంధానకర్త అష్టర సాకారద్రవ్య...
వైజ్ఞానిక యుగానికి మరియొక నూతన తేజం...

పద్మపత్ర ప్రశంసతో పద్మభూషణలంకృతం..!
ఎలక్ట్రాను ప్రోటానుల వలయాన్ని పరిభ్రమణ
శక్తి జనిత పరికరాల శ్రామిక కర్మాగారపు
అపర బ్రహ్మ-సృష్టికర్త

ఎన్నో మూర్తల దీపిక ఎన్నో కాంతుల వీచిక
అనునిత్యం పూజించే అనవరత స్మరణ కర్త...!!

రచన

యస్.టి. వేణుగోపాలాచారి, TO/SQAG

(డా॥ ఎ.ఎస్. రావు గారి జయంతి సందర్భంగా)

In Brief

Programme on FPGA Processors

FPGAs are being used in almost all the electronic instruments and systems being manufactured by us. In order to provide the latest developments in this field, a four day programme was organized for all design engineers. The application engineers from four major FPGA manufactures viz., Xilinx, Altera, Actel and Lattice have conducted the sessions. Practical sessions were conducted on the latest chips and the participants were provided rich course material on the subject by each of the manufacturer.

Programme On Digital Signal Processing

An intensive 3-day Programme on Digital Signal Processing was conducted in association with Prof. Mrithyunjay Chakraborty of IIT, Kharagpur. The programme was designed by Dr. P.V. Ananda Mohan. In the programme in-depth inputs were given on the subject and practical sessions were also conducted on MATLAB. The participants were also given advanced assignments. Based on the performance in the assignments further tutorials on the subject will be conducted by Dr. Ananda Mohan.

Roll of Honour

Shri A.A. Hussain, Head (PG) distributed cheques to 31 children of our workmen who were awarded merit scholarships by the A.P. Labour Welfare Fund Board for the excellent academic performance for the year 2008-09 on July 6. The scholarship amount of ₹500/- for 10th class & ITI, and ₹1000/- for Professional course students each.

Students	Class	Students	Class
C.Archana	X	G.V.S.Anusha	ENGG
R.Shailaja	X	Nafees Fatima	ENGG
P.Anantha Laxmi Dharani	X	Tasneem Fatima	ENGG
I. Steffi Lavinia	X	D.Sirisha	ENGG
G.Sushma	X	R.Himaja	ENGG
G.Vikas Raj	X	D.Sai Sudha	ENGG
V.Deepak Kumar Reddy	X	G.S.Kiran	ENGG
Syed Mohd. Yasir	X	G.Chaithanya Sagar	ENGG
S. Rohit	X	D.Venu Madhav	ENGG
S.Sai Kiran Reddy	X	B.Harika	ENGG
CH.Arun Kumar	X	T.Sai Rahul	ENGG
B.Shravan Kumar	X	Shameem Unnisa Shaik	MEDICINE
K.Chandra Shekhar	X	M.Madhuri	MEDICINE
K.Bhargav	X	G.Nageswara rao	M.C.A
J.R.Anand Raj	I.T.I	R.Shruthi	MBBS
B.Naveen Kumar	I.T.C		

Congratulations

राजभाषा सप्ताह

दिनांक 14 सितंबर, 2010 को सुबह 10 बजे ईसीआईएल के व्याख्यान हॉल नंबर 1 में “राजभाषा सप्ताह” का उद्घाटन सम्पन्न हुआ। श्री शिवकुमार नोरी, निदेशक (वित्त) मुख्य अतिथि के रूप में दीप प्रज्वलित कर कार्यक्रम का शुभारम्भ किया।



श्री सुनील कुमार शर्मा ने प्रार्थना गीत प्रस्तुत किया। श्री बु. भास्कर राव, प्रधान, सीपीपीएम एवं अध्यक्ष, राजभाषा कार्यान्वयन समिति ने कार्यक्रम की अध्यक्षता की। श्री प्रदीप देशपांडे, वरिष्ठ उप महा प्रबन्धक (भर्ती) एवं प्रभारी : हिन्दी अनुभाग ने सभी उपस्थित अधिकारियों एवं कर्मचारियों का हार्दिक स्वागत किया।



श्री यू. भारत भूषण, वरिष्ठ हिन्दी अधिकारी ने श्री पी. चिदम्बरम, माननीय गृह मंत्री, भारत सरकार तथा डॉ. श्रीकुमार वेंनर्जी, अध्यक्ष, परमाणु ऊर्जा आयोग एवं सचिव, परमाणु ऊर्जा विभाग के संदेशों को पढ़कर सुनाया। श्री प्रभुदास, उप महा प्रबन्धक ने हिन्दी के बारे में कविता पाठ सुनाया।

सोमवार, दिनांक 20 सितंबर, 2010 को मध्याह्न 2 बजे राजभाषा सप्ताह का समापन समारोह सम्पन्न हुआ। इस कार्यक्रम में प्रोफेसर

प्रदीप कुमार, निदेशक, भक्ति साहित्य अध्ययन एवं शोध संस्थान, उस्मानिया विश्वविद्यालय, हैदराबाद मुख्य अतिथि के रूप में भाग लेकर कर्मचारियों को सम्बोधित करते हुए विभिन्न माध्यमों (नाटक एवं दूरदर्शन) द्वारा हिन्दी का व्यापक प्रचार करने पर जोर दिये।



सप्ताह के अंतर्गत आयोजित विभिन्न हिन्दी प्रतियोगिताओं के विजेताओं को पुरस्कार मुख्य अतिथि द्वारा प्रदान किये गये।

डॉ.एच.के. वंदना, हिन्दी प्राध्यापिका, सरकारी महाविद्यालय, मलकाजगिरी ने भारतीय भाषाओं की महानता पर अपने विचार व्यक्त किये।

श्री ए.ए. हुसैन, प्रधान, कार्मिक वर्ग ने सम्माननीय अतिथि के रूप में भाग लिया और मुख्य अतिथि को ईसीआईएल की ओर से स्मृति चिह्न प्रदान किया।

श्री देवीदास, वरिष्ठ हिन्दी अधिकारी ने धन्यवाद ज्ञापित किया।

श्री एन नागेश्वर राव, वरिष्ठ प्रबन्धक (राजभाषा) ने पूरे कार्यक्रम का संचालन किया।

हिन्दी कार्य

ईसीआईएल के पूर्वांचल कार्यालय, कोलकाता में राजभाषा हिन्दी के प्रभावात्मक कार्यान्वयन के लिए दिनांक 18-06-2010 (शुक्रवार) को प्रातः 11.00 बजे हिन्दी कार्यशाला का आयोजन किया गया था। सभा का उद्घाटन अध्यक्ष रा.भा.का. उपसमिति ने किया। आयोजन में मंच पर अधिष्ठित सभी अधिकारियों ने हिन्दी की प्रगति व प्रसार के लिए अपना मूल्यवान सुझाव दिया है। श्री हिमाद्री शेखर मण्डल, सचिव, रा.भा.का. उपसमिति ने सभा का संचालन किया।



इस बार चर्चा के लिए तीन विषय दिये गये जिनमें से प्रतियोगी अपनी पसन्द के अनुसार कोई एक विषय चुनकर उस पर अपना विचार रखा। इस प्रतियोगिता के सटीक निर्णय लेने के लिए निर्णायक के दायित्व श्री एस.एस.मुखर्जी एवं श्री बी.के.एम. को सौंपा गया।

इस प्रतियोगिता में प्रथम, द्वितीय एवं तृतीय स्थानाधिकारियों का नाम निम्नलिखित प्रकार है :-

1. श्री एस.डी.सरकार, प्रथम पुरस्कार
2. श्री दीपक सरकार, द्वितीय पुरस्कार
3. श्री सुवीर चक्रवर्ती, वरिष्ठ प्रबंधक, तृतीय पुरस्कार

श्री एस.एस.मजुमदार, उप महाप्रबंधक, श्री वी.के.मजुमदार एवं श्री पी.के.पाल, उप महाप्रबंधक ने इसमें सक्रिय भूमिका लिये एवं अनुष्ठान को सफलता प्रदान किया। उपस्थित सभी को धन्यवाद ज्ञापन करते हुए अध्यक्ष महोदय ने सभा की समाप्ति की घोषणा की।

Our Independence Day Celebrations

August 15 ECIL celebrated India's 64th Independence Day. Shri Y.S. Mayya, C&MD, hoisted the national flag at the ceremonial function at the factory and inspected a Guard of Honour presented by a CISF contingent. Among the other dignitaries participated in the function were Shri N.S.S. Prasada Rao, Director (Technical), Shri Shiv Kumar Nori, Director (Finance), Dr. P. Venu Babu, Secretary, ECIL Officers' Association and Shri N.S. Kumaran, Gen. Secretary, ECIL Employees' Union.



**Shri Y.S. Mayya,
C&MD,
saluting the
National Flag**



Inspecting the Guard of Honour



C&MD delivering Independence Day message



General Secretary
ECEU

Secretary
ECOA



Cultural Programme by AEC School Children



Shri R. Mahendran, Head, SSD receiving the Best House Keeping Award

CALENDAR 2011

CALENDAR 2011

January							February							March							April						
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
						1			1	2	3	4	5			1	2	3	4	5						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28						27	28	29	30	31			24	25	26	27	28	29	30
30	31																										
15 Sankranti 26 R.Day																					4 Ugadi 14 Dr.Ambedkar's B'day 22 Good Friday						
May							June							July							August						
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7				1	2	3	4						1	2		1	2	3	4	5	6
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
														31							15 Independence day 31 Ramzan						
September							October							November							December						
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3						1			1	2	3	4	5					1	2	3	
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
1 Vinayaka Chaviti							6 Vijaya Dasami 26 Deepavali							7 Bakrid													