

# Informatics

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# Happenings

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## Best Stall Award to NIC

A Krishi Vigyan Mela was recently organized by the Raja Dinesh Singh Krishi Vigyan Kendra, Pratapgarh along with ICAR at Pratapgarh in Uttar Pradesh. The objective of the fair was to showcase the development work carried out by the Central and State Government in the rural sector using the new technologies. NIC UP State Unit made its presence felt at the event through its stall showcasing web based “Sankhyakiya Patrika Databases” covering dissemination of computerized information related to Agriculture, Rural Development and allied sectors. Scientists from Ministry of Information Technology also demonstrated their schemes related to the Agriculture sector. The Stall of NIC- Ministry of Information Technology was adjudged first among the Government Stalls and for the same, a memento and an award certificate were presented.

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## Land Records Computerization Inaugurated

■ **Junagadh** : The Hon’ble Chief Minister of Gujarat Sh Keshubhai Patel recently inaugurated the Taluka level Land Records Computerisation carried out by NIC in Bhesan Taluka of Junagadh District. The Land record data of all the villages in the Taluka have been verified and loaded on the server. The Record of Right (ROR) can now be provided at Taluka level and mutation entries can also be made to ensure that the latest records are available. The software has been developed using Visual Basic with SQL server database. The data entry of one taluka is already complete in eighteen districts and verification is in progress. The District Administration thanked NIC Gujarat State Unit for the tremendous support in the Project and especially lauded the efforts of Sh. Atul Khunti, DIO Junagadh.



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## Training on RuralSoft-2000

■ **Chandigarh** : A Training on Ruralsoft 2000 for participants from 19 District Rural Development Agencies [DRDAs] and Directorate of Rural Development was recently conducted at Secretariat for Information Technology [SIT], Haryana. RuralSoft-2000, developed by National Informatics Centre, primarily aims at monitoring of poverty alleviation schemes being implemented through District Rural Development Agencies [DRDAs]. Speaking on the inaugural session, Sh S Parasad, Special Secretary and Director, Rural Development stressed on the application of IT in better monitoring of schemes so that poorest of the poor can be benefited effectively. Sh G S Bansal, State Informatics Officer stressed on the IT enabled applications for the rural people. Sh Sunil Kumar, Technical Director & Project Leader in Haryana, explained the technology and methodology of implementation at DRDA level.

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## **Video Conferencing Update From our Local Correspondent**

■ **Delhi** : Video Conferencing is one of the popular and highly used services provided by NIC to its user organizations. A one day technical workshop to provide hands on training on working with VC systems and to discuss “Emerging Video Conferencing Trends & Its Applications” was recently organized at NIC Headquarters. The discussion was followed by a live demonstration of Video Conferencing services & hands on session on different videoconferencing systems being provided by NIC. Also some important video conferencing sessions were held recently where NIC provided the service. They include the following :-

■ **Inauguration of TECHSAT** : NIC provided the video conferencing services for the inauguration of “Techsat “ Project in Gujarat on May 11, 2001 celebrated as the ‘Technology Day’. Inauguration was done by Shri Keshubhai Patel, Hon’ble Chief Minister of Gujarat and Shri Bachi Singh Rawat, Hon’ble Minister of State for Science & Technology, Govt. of India. Shri Bachi Singh Rawat participated in the inaugural function at Gujarat through video conferencing from NIC Headquarters.

■ **Telemedicine** : A Conference titled “International Symposium & Workshop on Changing Face of Cardiac Surgery“, organized by Safdurjung Hospital was recently held at India Habitat Center. During this conference Five Heart operations were shown live through Video Conferencing from Safdurjang Hospital, New Delhi to a group of around 100 doctors representing various parts of the country as well as abroad. NIC provided the network connectivity for the event using NICNET’s high speed satellite network, Portable VSAT and VC Equipment. The conference was conducted at a very high speed of 768 Kbps for better video clarity. All the delegates appreciated the minute details of the operation and were able to interact with the doctor conducting the operation too.

### ■ **Video Conferencing Facility at Andaman & Nicobar Islands and Pondicherry**

Andaman & Nicobar Islands and Pondicherry became the latest in the list of Union Territories to have NIC’s Video Conferencing facility. At a special function held recently at Port Blair, the Hon’ble Lt. Governor of Andaman & Nicobar Islands inaugurated the VC Facility in the Island. The function was attended by DG (NIC) from New Delhi through Video Conferencing. The Lt Governor praised NIC for its efforts and support towards providing this facility. With this, the total number of VC studios set up by NIC has gone upto 28 which are located in various parts of the Country. This is one of the largest VC networks of its kind in India.

## E - Governance : Success story

### Exam Results on the Net

“Exams”, the very word is known to cause anxiety and stress in a student’s mind. All of us have suffered from examination fever at one stage or the other in our lives. However, in the tough competitive age of today, what causes more jitters in the hearts of students and parents than examinations is the anticipation of “Exam Results”. Be it Results of School Board or of any Entrance Exam, anxious students have always thronged the Notice Boards keenly looking for their Roll Number. In view of all this anxiety, nothing can be better than the facility to check out one’s result in the safety of one’s own home even before it hits the School Notice Boards. That is exactly what NIC’s endeavour to “Publish Exam Results on the Net” aimed to accomplish and has successfully been able to achieve. Like the previous years, this year again saw millions of students accessing NIC’s special website for Examination Results <http://results.nic.in>. With its unflinching record of successfully providing various important results through the net, this website has proved extremely popular with a wide range of audiences including students, parents, school authorities and even cyber café owners.

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### The Set-Up

With the aim of providing fast and smooth access to Exam Results clear in mind, it was imperative for the concerned team of NIC to ensure that the requisite infrastructure was well in place. Dedicated state-of-the-art servers were set up exclusively for publishing the Results. These servers were a combination of Web Servers (at the front end) and Database servers (at the back end). The front end web servers were powered with Windows 2000 and IIS 5.0, while the database servers were set up using SQL Servers. The technologies of 'Load Balancing', 'Multicasting' and 'DNS Round Robin' were used to take care of the peak load on the servers, immediately after the announcement of any result. In addition, staging servers were also set up to enable NIC State Centres to upload and test the results before passing on for final publishing.

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### Academic, Entrance or Recruitment – we published them all !!

The Service of providing Exam Results was not limited to School Board Results or other Academic Results but also covered various Entrance Examinations and Recruitment Exams.

#### Academic Results on NIC's Web Servers

Academic Results on NIC's Web Servers	
CBSE Exam Results ( Class X and Class XII) :	<a href="http://cbse.nic.in">http://cbse.nic.in</a>
CISCE Exam Results (Class X and Class XII)	<a href="http://cisce.nic.in">http://cisce.nic.in</a>
Mizoram School (MBSE) Results	<a href="http://mizoram.nic.in/mbse">http://mizoram.nic.in/mbse</a>
Andhra Pradesh SSC Exam Results	<a href="http://ssc.ap.nic.in">http://ssc.ap.nic.in</a>
Nagaland Board of School Education Results	<a href="http://nbse.nic.in">http://nbse.nic.in</a>

Goa Board of Secondary and Higher Sec Education	<a href="http://goareresults.nic.in">http://goareresults.nic.in</a>
MP Board of Secondary Education :	<a href="http://mpboard.nic.in">http://mpboard.nic.in</a>
Manipur Board of School Education Results :	<a href="http://manresults.nic.in">http://manresults.nic.in</a>
Meghalaya Board of School Education	<a href="http://results.nic.in/meghalaya">http://results.nic.in/meghalaya</a>
Tamil Nadu State Board Results	<a href="http://tnresults.nic.in">http://tnresults.nic.in</a>
Maharashtra State Board Results	<a href="http://mahresult.nic.in">http://mahresult.nic.in</a>
Rajasthan State Board Results	<a href="http://rajresults.nic.in">http://rajresults.nic.in</a>
Himachal Pradesh Board of School Education	<a href="http://hpreresults.nic.in">http://hpreresults.nic.in</a>
West Bengal Examination Results	<a href="http://wbresults.nic.in">http://wbresults.nic.in</a>
CA Final and Foundation Exam Results	<a href="http://caresults.nic.in">http://caresults.nic.in</a>

## The Challenges

Publishing results on the Internet is a daunting task involving challenges of all kinds. Due to the large number of students and other interested parties keen to access their results at the earliest, very high traffic has to be anticipated on the website and accordingly the set up has to be made robust and strong. The Results of the Central Board of Secondary Education (CBSE) alone fetched a record hit rate of Thirteen Million in a matter of a few hours. (see the table on the next page for details) Most of the Results were launched at quite odd hours such as midnight or early morning and it took an immense co-ordination effort to ensure that the concerned team was always available. And their job didn't end even after the results were declared as they had to monitor the functioning of the servers for many hours after that. Also, the Result data usually arrives at very short notice and the NIC team generally had very little time to work-out everything and ensure that the results are declared well in time.

Another big challenge lies in ensuring the validity and accuracy of the Results Data. Though the responsibility of the same lies with the concerned Board, considering the fact that the issue of Exam results is sensitive and has a lot of binding on the students' morale, NIC gives full technical support to facilitate them in ensuring that the results are free from any errors.

## The Highlights

The preparations for the entire exercise of Publishing Results online began sometime in April and by the time this issue went to Press, many new Results were still being launched from various States. Some of the highlights of this year's service of Publishing Exam Results online include the following : - It was heartening to see the North Eastern States such as Mizoram, Nagaland and Meghalaya take keen initiative in publishing their Exam results on the website. Despite all odds due to the connectivity problems in these States, the results were launched in a smooth manner and students benefitted immensely. -The exercise of publishing and disseminating results online was supported by the various District Centres of NIC who consolidated the results Distt/Block/School wise and passed them on to the concerned authorities. - Apart from putting the Results on the website, NIC developed a software for individually sending out the Results through email to schools/students. For instance, the school wise consolidated results of CBSE were sent to the schools who requested for the same. Also, the results for the Exams conducted by the Institute of Chartered Accountants of India were sent individually to all those students through email who had pre-registered for this service.

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## **A Collaborative Effort...**

The endeavour of publishing Exam Results online proved successful only because it was a joint effort of all those involved. Since many of the Results came from outside Delhi, NIC State Centres played a valuable role in interacting with the State Board Authorities and carrying out the necessary ground work for the concerned team at NIC Headquarters . Credit is also due to the respective Education Boards without whose initiative and support, such a challenging task could not have been carried out.

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## **Useful Tips and Guidelines**

In order to make sure that the Exam Results are published online in a fast and hassle free manner, it is extremely important to receive the data in the proper format. NIC has designed special guidelines giving clear instructions regarding the procedures involved such as those relating to the setting up of databases and writing of requisite ASPs etc. For the benefit of the users, these guidelines have been put up on the WWW at

<http://webservices.nic.in/results2001>

The mammoth exercise of publishing so many exam results successfully on the net goes on to show NIC's total commitment towards providing effective e-governance services to all sections of the society. NIC's future plans include using the latest and the most advanced technologies to provide even faster and better service to the students in the coming years.

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**For more information, please contact:**  
**Web Services and Multimedia Applications Division NIC Headquarters**  
**Email : [wsmad@hub.nic.in](mailto:wsmad@hub.nic.in)**

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### Haryana - On the Path to Progress

It was here that Lord Krishna preached Bhagwad Gita 3000 years ago, it was here that Rishi Ved Vyas wrote the Epic Mahabharata...the land is a glorious epitome of ancient culture, spiritual values and Vedic References. The year 1966 witnessed the formation of a new State on this very land, the State we all know as 'Haryana'. Comprising nineteen districts and eighty one towns / cities, the State borders the National Capital Delhi and shares its capital Chandigarh with the other neighbouring State of Punjab.

**In a span of 35 years, the State has come a long way in terms of development and growth. And a major contributing factor to this growth is the progress made in the field of Information Technology.**

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### NIC in Haryana

The Haryana State Unit of NIC was set up in the year 1988 and ever since, it has been providing unstinted IT support to the State Government. During the formulation of the recent IT Action Plan, it has been decided by the State Government to accord the highest priority to the IT sector and this has given a big opportunity to NIC-Haryana in implementing its e-governance policies effectively in the State. As an important step, a 'Secretariat for Information Technology' has been set up at the Haryana Civil Secretariat and the Chief Minister has dedicated a special "Centre for e-governance". The NIC Cell in Haryana Secretariat is functioning as a Centre for Network Control and Management, Application Development & Management, Internet/E-mail and Web servers Management and Data Management.

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### Infrastructure Support & Network Services

- **State Level Network:** NIC has established Local Area Networks (LAN) based on structured cabling in Haryana Civil and New Secretariat, CM Office, Secretariat for IT and Finance Department. The networks are Heterogeneous and the external gateways are based on high-speed FTDMA & SCPC VSATs and Wireless RF link to provide dedicated Internet/E-mail services. The Network Management Centre (NMC) for the State Intranet at Civil Secretariat and Wireless RF Hub management centre at Haryana New Secretariat have also been set up. The Infrastructure management support is also being provided to the centres at Land Records, Rural Development, and Directorate of Industries.
- **District Level Network:** NIC IT centres at the District HQ.s are acting as the nodal centres for computerization in the district administration at local level. The centres have been connected to the NICNET via VSAT network. The Internet access has been provided as a central facility at all the

19 districts of Haryana. IT Centres have also been established at offices like DRDAs, DICs, Employment Exchanges, District Courts, ICAR institutes, FCI etc

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## Software Development to facilitate e-governance

In its efforts to promote and implement Electronic Governance in the true sense, the NIC Haryana State Unit has developed various Application Software which are proving extremely useful to the State Authorities. Some of the key Applications and Projects along with their salient features are mentioned below :

- **Haryana Registration Information System (HARIS):** The HARIS provide registration of documents with various security checks, on-line capturing and storing of photos of buyer, seller and witnesses, information of registration fee and maintenance of database and query system. The system is being implemented at 25 Tehsils/Sub-Tehsils.
- **Land Records Computerization Project (LRCP):** The Land Records computerization system involves different sub-systems like Jamabandi creation, Mutation, Khasra Girdavari, Generation of New Jamabandi, On-line query on Land Records Information, Nakal generation and distribution services to public. The project is being implemented in all the districts of the State. The Land Records Query System [LRQS] has also been developed with the objective of providing a Query Service to Farmers, Revenue Officials, and Town Planners.
- **Sarkar Apke Dwar Programme Monitoring System:** This software is helping the CM Office in closely monitoring the prestigious programme of Hon'ble Chief Minister of Haryana. The database has over 25,000 live records. The programme is reviewed regularly by the State level Monitoring Committee headed by Principal Secretary to Chief Minister.
- **On-line Treasuries Information System (OTIS):** The system is a work flow automation application and provides computerization of payments, receipts, budget control with DDOs, linkage to respective bank branch, Information flow to Accountant General Haryana and Finance Department, On-line query as well as Information flow between sub-treasuries, District Treasuries and Directorate of Treasuries and Accounts.
- **House Tax Assessment and Collection System:** The Proforma for House Tax survey has been designed and software development, based on new House Tax Formula of Haryana Government has been initiated. The software for generating House Tax notices, House Tax bills for collection of tax and Issue of receipts, various forms, registers, reports and analysis has also been developed.









































