INDIAN SOCIETY OF GEOMATICS

NATIONAL GEOMATICS AWARD – APPLICATIONS FOR THE YEAR 2008

CITATION

Dr Vandana Sharma, received her Master degree in Physics from Bhopal University, and Doctorate in Physics and Astrophysics from Delhi University. She joined at National Remote Sensing Centre (NRSC), a unit of Indian Space Research Organisation in 1981 and worked till 1986. Then she joined in National Informatics Centre (NIC) and currently she is working in the capacity of Deputy Director General at NIC.

She has set up the first Image Processing and GIS facility at NIC to provide technology boost to e-governance programs with use of spatial data for various government Ministries and Departments. She has initiated the work on the installation of PARAM 9000 and soon promoted to Spatial Data Infrastructure (SDI) concepts. The National GIS vision forwarded was supported by Planning Commission and this emerged as largest framework for delivery of Web based GIS models to users of technology in various Ministries, Department and various Govt. set up.

The SDI developed at NIC provided a sound framework for delivery of GIS services over the web thru the map server concepts. It has created a vista of new era for a way forward in the direction of integration of services (MIS and GIS) for e-governance through NICNET. Web-based geographic information system (Web GIS) process designed to present spatial information with friendly interface. She has developed Map Server based applications, with proprietary and Open Source based solutions, for a number of sectors viz. the village level delivery of data for Census 2001 a G2C application from India Portal. Update of data being worked out through the state level programs of NIC which includes Samanya Mahiti for Karnataka, e-Darpan for Rajasthan etc. A number of G2G applications are operational with this concept.

She has played a pivotal role in the development of National Agricultural Marketing Atlas which is useful to know arrivals and prices of commodities in the markets under AGMARKNET project through NIC. This input interfaces with spatial data and converts the output in the map form on the fly. GIS here presents information along with mapping of different parameters related to the markets surveyed by NIAM, Jaipur, in variety of ways which is gaining a considerable attention from public at large.

She has initiated the implementation of Raster server providing access to images which is similar to Google Earth environment. An application developed named as "India" has been released within NIC to serve over 3000 employees. This incorporates serving of over 200 GB data with all India mosaic of 5.8m PAN data from IRS and integrated with essential toponomy. This model is under implementation for a few sectors that include Election GIS and forthcoming Commonwealth Games.

She has provided a leadership role to promote the use of Information Technology in the Ministry of Communications. Major focus was the implementation of Management Systems through systematic Analysis, Design and development process. Few areas where systems emerged as the National Program for the Ministry include Postal Life Insurance, on line Savings Bank transaction processing, Postal Accounting etc.

In recognizing her outstanding contributions in promoting the use of web based information technology to various user organisations in the country, Indian Society of Geomatics confers the '*National Geomatics Award – Applications*' for the year **2008** on '**Dr. Vandana Sharma**'.

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<tr><td>(S.K. Pathan)</td><td></td><td>(R.R. Navalgund)</td></tr>
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