



C-DAC Building, Pune

Established in March 1988, as a Scientific Society of the Ministry of Communications and Information Technology, Government of India, the Centre for Development of Advanced Computing (C-DAC), is primarily an R&D institution involved in the design, development and deployment of electronics and advanced Information Technology products and solutions. C-DAC has developed a range high performance parallel computers, know as the PARAM series of supercomputers.

The technologies that C-DAC has dealt with are High Performance Computing, Natural Language Processing, Artificial Intelligence, e-Learning, Multilingual multimedia computing, Geomatics, Cyber security, Real time systems & software, Data warehousing, Data mining, Digital/Broadband wireless networks, Scientific modelling & visualization, and Embedded systems. The key sectors addressed by C-DAC are Finance, Healthcare, Power, Steel, Defence, Telecom, Agriculture, Industrial Controls, Broadcasting, Education and e-Governance.

G E O M A T I C S . . .



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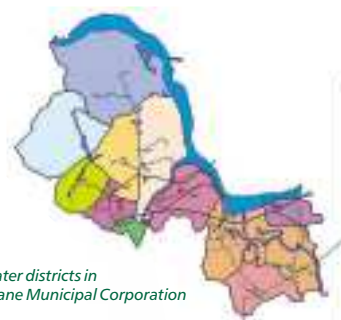
...THAT LINKS THE WORLD

Geomatics Solutions Development Group

C-DAC is engaged in geomatics activities for over a decade. The Geomatics Solutions Development Group (GSDG) offers technology solutions in areas like Thematic Mapping, Spatial Database Development, Terrain Visualisation, Spatial Decision Support System and Web GIS.

The mission of the Group is to strive for excellence in offering geo-intelligence solutions for effective planning, management and governance.

The Group's activities can be broadly categorised into Geomatics Projects & Consultancy, Products Marketing, and Training.



Water districts in Thane Municipal Corporation



Geomatics Projects & Consultancy

The Group offers services in the fields of remote sensing, image processing, photogrammetry, spatial analysis and modelling, content based image retrieval, web GIS application development, software customisation and others. Development of 'Decision Support Systems using geographic information' is the niche area. The Group is engaged in the implementation of geomatics projects on a 'Turnkey' basis in the application areas of e-Governance, natural resources management, environment, health, infrastructure and land management, disaster management and defence.

Geomatics Products

C-DAC has a strategic tie-up with PCI Geomatics, Canada for the promotion of Geomatics software solutions running under Windows, LINUX and UNIX platforms. The Geomatics product suite includes Geomatica (Complete Geomatics Solution), Ortho Engine (Digital Photogrammetry), WebServer (Web-based Geomatics Solution), Fly! (Terrain Visualisation), Geocomp (Automatic Geocoding & Compositing), eCognition (Objects Oriented Image Analysis), APP (Advanced Precision Processor), InSAR (Interferometric SAR), RemoteView (Electronic Light Table) and ILWIS (Raster GIS). It has successfully installed over 500 copies of these software products in more than sixty institutions in India.

C-DAC has also tied up with Able Software Corp., U.S.A. for promoting the raster to vector conversion software, R2V. C-DAC has been identified as a Solution Provider by RADARSAT International, Canada.

Geomatics Training

C-DAC conducts training courses in geoinformatics, which aim to provide conceptual knowledge and hands-on training on GIS, remote sensing, photogrammetry, image processing, cartography, GPS and the advanced techniques in GIS through lectures, lab work, case studies and project work.

C-DAC offers 10 weeks Diploma in Geoinformatics and 4 weeks Certificate Course at regular intervals. It also conducts customised training programmes of short duration for government organisations and corporate sector.



Geoinformatics or Geomatics is the synergy of multiple disciplines, namely, GIS, remote sensing, photogrammetry, cartography, GPS and geodesy. It is fundamental to all the disciplines which use data identified by their locations. Geomatics deals with spatial and non-spatial data, their methods of acquisition, management, analysis, display, and dissemination. Applications of geomatics are mainly oriented to real world management problems pertaining to natural and man-made environments.

