

INTRODUCTION

Welcome to atelier, the pioneers of Digital Archival and e-Doc solutions in Trivandrum. We also impart web-enabled solutions in CAD/CAE whereby real time interactive designing of mechanical components, electrical circuit designs etc are undertaken. Solutions in CAD plotting and scanning are also provided. We also assist in projects' planning and GIS

SERVICES @ atelier

CAD/Digitization

- Conversion of existing manual/CAD drawings to AutoCAD (.dwg formats) with excellent accuracy levels and at highly competitive speeds.
- Rescue digitization of old/damaged drawings.
- Fresh drafting from pencil sketches to AutoCAD(and other CAD packages)

e-Library/Digital Archival

- Producing soft copies of technical documents with textual data and diagrams (assembly diagrams, detailed diagrams, graphs etc.). The textual data will be recognized with an OCR package and diagrams will be vectorized using an R to V package.
- Providing user friendly web browser (HTML or PDF) e-journals and e-manuals with hyperlinks, cross references and search capabilities.
- Cataloging and metadata creation for implementing an e-library
- Generating Digital Facsimiles from microforms, palm leaves canvas etc.

Document & Fileflow Management

- Designing a system for electronic document archival and retrieval
- Sorting, organizing and electronic facsimile generation of important documents
- Assistance in weeding out unnecessary documents
- Redesigning file flow to minimize usage of paper documents

CAE/3D Modeling & Analysis

- Producing 3D models from 2D drafting, which can be further used for prototyping (for interference checking, visualization, walkthroughs, analysis etc.)
- Virtual-Reality Engineering with simulation models for training or entertainment.

Project Planning & Management

- We provide assistance in planning projects like pipe line fabrication, mechanical/electrical installations, building constructions, event managements etc. using **PrimaVera** and **MS-Project**

GIS

- Map digitization
- Database cleanup and integration with maps
- Spatial data analysis for inventory and property management

CASE STUDY - 1

National Thermal Power Corporation Limited (NTPC), the largest thermal power generating company in India has a commissioned capacity of 19,435 MW with 12 coal stations and 7 gas / liquid - fuel combined cycle power plants.

The digitization work undertaken at NTPC, Kayamkulam, Kerala involved around 2000 sheets of documents and drawings (upto A0 Size) of the following:

- Assembly Drawings of Various machinery installed at site.
- Plant Layout Drawings
- Electrical Circuit Designs

Contact Person: Mr. C. Sridhar
Sr. Manager – ME; Ph. No. – (0479)2474009

CASE STUDY - 2

Indian Space Research Organization (ISRO) was set up by Government of India in 1969 to develop space technology and its application to various national tasks like telecommunication, television broadcasting and meteorological services.

The first phase of digital library implementation project at ISRO Trivandrum (VSSC) comprised of about a lakh documents comprising of –

- technical reports,
- technical drawings,
- articles, newspaper clippings, manuscripts etc

The second phase comprises of digitization of Microforms and re-training of the staff for handling a digital repository

Contact Person: Dr. Rajendran
Head Librarian; Ph. No. – (0471)2564012

CASE STUDY - 3

Apollo Tyres Ltd. is one of the leaders in tyre manufacturing in India. The “total design department digitization” work involved

- CAD conversion of manual component and production drawings (upto A0 size and dating as back as 1969)
- PDF conversion of paper documents

Contact Person: Mr. R. Venkatesh
Manager – Design; Ph. No.- (0480)2725901

CASE STUDY - 4

Under took CAD works from Public Works Department (Govt. Of Kerala) and Central Public Works Department (Govt. Of India) The spectrum of work ranged from CADrafting from free hand sketches to assistance in designing bridges, multistoried buildings etc. Also undertook 3D-Modeling works for Architectural Division of PWD.

Apart from Drafting and Designing solutions, Training programs in AutoCAD and Architectural Desktop were also organized at many of these departments.

Contact Person: Mr. P.I James
Joint Director DRIQ; Ph. No. – (0471)2550808

CASE STUDY - 5

“Trivandrum City Road Improvement Project – Land Acquisition” has been successfully completed which involved the following tasks

1. Digitization of revenue survey maps
2. Superimposition of the alignment plans

Contact Person: Mr. Anil kumar,
MD; Greentech Consultants
Ph. No. – (0471)2438869

CASE STUDY - 6

Digitization of technical diagrams at Kerala Automobiles Ltd. Around 300 diagrams of varying sizes – from A0 to A4 were converted into AutoCAD formats. Rescue digitization was carried out on some of the diagrams dating as back as 1987.

Contact Person: Mr. Madhavan Nair
Manager R&D; Ph. No. (0471)-2555612

CASE STUDY - 7

Provided at site solutions for English India Clays Ltd. In design documentation of and remodeling of several units. The work involved digitizing existing plans and making necessary modifications to the layout.

Contact Person: Dr. I Balakrishnan
Manager R&D; Ph. No. (0471)-2741133

We have also provided solutions in CAD/e-Doc/Digital Archival to Hindustan Latex, C-DAC, Keltron, Kerala State Archives etc.