



Pipeline Asset Management System (PAMS)

Provides Total Solution from Start to Commissioning of a pipeline

<http://www.secon.in>

About SECON

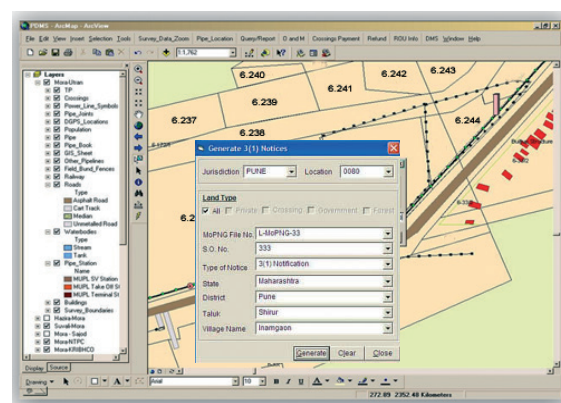
SECON is an ISO 9001:2015, NABL Accredited and CMMI Level 3 Certified Multidiscipline Engineering and Mapping Firm, established in 1981. SECON provides end-to-end services on Geospatial & Engineering including Data Capture, Processing, Design & Drafting, GIS Based Customization and Application Development.

SECON's practice areas include:

- Comprehensive Engineering and Mapping solutions for Highways, Irrigation, Cross Country Pipelines, Infrastructure, Public Health Engineering etc. on Onshore - Offshore model
- Web-enabled Enterprise GIS and Software Development
- Photogrammetry, LiDAR and Satellite Image Processing
- GIS/ CADD Data Development and Maintenance
- Engineering Design Solutions

Introduction

Pipeline is the heart-line of Oil and Gas transportation. There is an increasing demand for sophisticated and advanced tools to cater to the pipeline project Implementation, Asset Management, Operation and Maintenance. Pipeline Asset Management System (PAMS) comes as a one-stop solution, for the cross country Pipeline. PAMS database is designed to handle complete data corresponding to the Pipeline, which also makes it a powerful tool for Disaster Management.



User Interface

Salient Features:

- GIS database capable of storing integrated Geographic data like Base maps, Cadastral maps, Corridor maps, etc.
- Efficient Document / Asset Management System for easy retrieval of design, legal & quality documents
- Disaster Management System
- User friendly map Navigation Tools
- Web-based Pipeline Maintenance, Data Capturing and Monitoring System
- On-the-fly management of Right-of-Use data



GIS is our Passion. Quality is our Commitment.

This application is robust enough to add new feature codes as and when required

PAMS Modules:

- Pre-Engineering
- Engineering
- Construction
- Health, Safety & Environment
- Operation & Maintenance

General benefits:

- Maintaining master database of entire Pipeline information for ease of use
- Accessibility through LAN/ WAN/ WEB
- Customized report generation
- Faster & efficient data access with better decision making platform

Pipeline Project Execution - Stage wise benefits:

Pre construction:

- Monitoring Survey Process
- Monitoring Land Acquisition Process

During Construction:

- Project Monitoring

Post construction:

- Easy accessibility to all relevant information/ documents
- Supports Operation and Maintenance
- Supports Disaster Management
- Ready data for planning & using in future parallel pipelines

Case Study

Client : Gujarat State Petronet Limited (GSPL)

Earlier constraint : Challenge to efficiently manage 850 km of existing pipeline network and 840 km of proposed pipeline network across India. With limited resource availability, it was an uphill task for GSPL to manage.

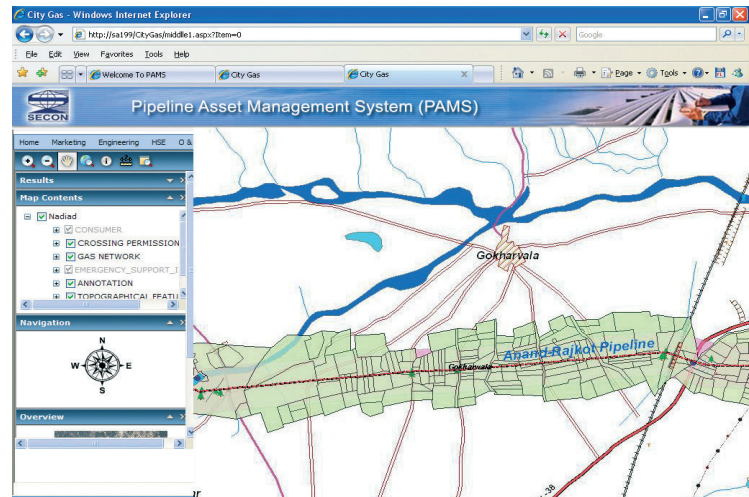
SECON's role : Being prime GIS solution providers and having associated for the past three decades in the area of Consultation, Survey and Engineering activities, SECON customized its state-of-the-art Pipeline Asset Management System (PAMS) for day-to-day easy management of pipelines from inception to commissioning.

Implementation : Inter-connecting of all zonal offices using applications for project monitoring & acquisition management. The PAMS database was centralized to connect all station offices for O&M purpose. Disaster Management tools & web enabled maintenance system were also installed.

Result : Reduction in manpower requirement for land acquisition process by 55% and time saved by 48%. Efficient and accurate data management was achieved. Web enabled system provided efficient processing and management of O&M details.

“SECON's Pipeline Asset Management System (PAMS) implementation is very useful for our day-to-day pipeline management. It is serving as an efficient tool for our Land information system, Disaster management, Operation and Maintenance. We are pleased to place on record our appreciation for the excellent GIS-MIS application implemented to us”

Mr. Y.S. Navathe, Senior Manager – O&M, Gujarat State Petronet Limited (GSPL), Gujarat, INDIA.



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