



Creating an Enterprise-level Process Knowledge Repository and Reusability with Intelligent CADISON® P&ID Solution

SRF Limited is a chemicals based multi-business entity engaged in the manufacturing of industrial and specialty intermediates. Winner of two Deming prizes for operational excellence, equipped with state-of-the-art R&D and technology scale-up capabilities; SRF has filed 114 patents for R&D and Technology.

SRF Specialty Chemicals business caters to organic intermediates for Agrochemicals & Pharmaceuticals through its flexible & dedicated manufacturing facilities. For commercial campaigns, flexible manufacturing facilities are reconfigured at very high speed. For large quantity production, dedicated new facilities are created in a very short span of time. Shorter product time to market with quality is the key success factor in SRF's growth & sustainability.

Earlier SRF was using basic CAD tools for creating their BFD/PFD and P&IDs for basic engineering. However, the CAD tools lacked specification/library creation abilities. Moreover, modifying and

maintaining P&IDs was a tedious and time-consuming task. Extracting reports was a nightmare!

To overcome some of these challenges, SRF evaluated few P&ID solutions. After evaluating many smart tools available in the marketplace, we reached to a conclusion that merely having a high-end tool with smart functionalities is not going to meet our objectives. We needed a solution, which apart from giving intelligent features enables organization-level standardization in a cost-effective way. It was important to consider an existing engineering environment, available skill sets, and do an optimum math between new investment(s) (tool, hardware, supporting IT infrastructure, manpower, training, etc.) and returns vis-à-vis organizational goals. Also, investing in a few high-end tools require drastic changes in the existing engineering environment, a move away from our existing CAD platform (AutoCAD), re-training of existing manpower,

acquiring new talent to reach productivity, etc. Also, our core business and focus is to do R&D of new materials, perform basic engineering and create assets in the form of intelligent P&IDs for comparison of results, future reference's, reuse, training, etc.

Altogether - CADISON® Fits the Bill!

After looking at CADISON® Solution, we realized that; this is one tool, which has a perfect balance of (key) intelligent features, engineering workflows and alignment to our existing engineering environment. Its object-based technology with easier specs creation capabilities that too based on AutoCAD platform tempted our engineers to go deeper and evaluate CADISON® further. Moreover, automatic change management capabilities, uniform tagging, data consistency across P&ID drawings, faster turnaround of P&IDs for review and approval with excellent report generation capabilities convinced us about this solution. Our objective of embracing a new P&ID solution for building organization-level knowledge repository, enhancing our existing skill sets with an intelligent tool (without changing our base platform) and getting value for money is reality with CADISON®. 'We could relate to CADISON® immediately and got

a confidence that this is the RIGHT solution that fits the bill'.

'We could achieve 10% improvement in overall engineering efficiency in our first project itself!'

Just after CADISON® rollout, our team has done a dedicated commercial plant (commissioning in a short span of time) where the CADISON® software contribution was commendable.

Following are some of the key benefits:

- Significant reduction in time for report generation. Line list, Instrument Process Data Sheet (IPDS), Special Material Data Sheet (SMDS), Equipment Lists are prepared automatically
- Reduction in 'check & validation' of drawing objects; faster review and approval process (> 5% time saving)
- Avoiding massive re-work on drawings
- Reusability of drawings
- Repository of drawings managed systematically via built-in PDM and central database.

CADISON® made engineer's life simpler to focus on high-value jobs.



Chander Shekhar Devra
AVP – IT & CIO, SRF Ltd.
Chemicals Technology Group

“CADISON® has changed our way of working over engineering drawings. Now we are able to respond faster on drawing changes & reviews. The comprehensive P&ID functionality, catalog & spec creation tool (MATPIPE), hassle-free report generation and pre-defined quality checks provided by CADISON® P&ID-Designer played an important role in our decision to acquire the software; however, we particularly like the value for money the solution represents, and the support provided by Neilsoft during the evaluation and implementation phase.”