



**IISCO – A LARGE STEEL  
MANUFACTURING CO. IN INDIA**

**Highlights**

**Customer**

Indian Iron & Steel Co. Ltd.  
Burnpur,  
Asansol,  
INDIA.

**Source Platform**

ICL Series 39 Level 35 /  
TME\*/ Flat Files / Cobol /  
CL / Find2 / GAMP.

**Application**

Payroll, Financial Accounting,  
& Costing.

**Size**

COBOL-Batch progs. - 300  
LOC- 150,000 approx  
Flat Files - 30  
CL – No of progs. – 120  
Find2- No. of progs. – 100

Archive data – 800 Streamer  
tapes.

**Target Platform**

SUN / SOLARIS /  
ORACLE 8 /  
Oracle Pro\*COBOL /  
MF COBOL / Solaris Shell  
Scripts / Oracle D2K

**Team size**

1 project manager with  
3 team members and  
1 Quality reviewer

**Introduction**

The client is a large steel manufacturing company in India.

The enterprise platform was ICL Series 39 Level 35 mainframe that needed urgent replacement as it was obsolete and there was lack of proper support. As a strategy, it was decided not to retire the applications, as they were functionally up to date and served the business process well. It was instead decided to migrate them and move them to an open systems platforms and re-host the data on a robust RDBMS.

**Challenges**

Other than the program migration and providing a GUI for the Forms, the major challenges were in re-modeling the file layout to fit a relational database and the migration of huge archived data. This required to be completed in a tight time frame, as the system was due for retirement. The other challenge lay in doing Y2K compliance.

**Solution Approach**

Automated, tool assisted migration of COBOL programs to MF COBOL and remodeling of flat files to Oracle RDBMS with selective graphical interface for the Forms, PL/SQL for GAMP utility and Solaris shell scripts for CLs. Data migration utilities were generated through the tool for downloading data from the ICL based flat files and uploading them on to the Oracle database.

The solution achieved 80% automation.

**Status**

The project along with archived data migration was completed in 6 months time.

The migrated applications are running live since beginning of 2000.