

SOFTWARE AIDED TRAIN SCHEDULING AND NETWORK GOVERNANCE

A BRIEF

Train Scheduling is a complex exercise on Indian Railways. Caught in a happy situation where there is a constant demand for more passenger train services, the Railways are often constrained in offering additional services because of the capacity limitations imposed by freight trains sharing the same infrastructure. The current method of manual planning is finding it increasingly difficult to evaluate the tradeoffs and identify available capacity. The search for a software tool to help solve the problem led to the idea of CRIS developing an application specific to the needs of Indian Railways in July 2010.

TIME LINE

Proposal to Rly Bd	Sanction of Abstract Estimate	Detailed estimate to Rly Bd	Tender Floated	Tender Opened	Project Sanction from Rly Bd	Tender Discharged & MOU Executed	In-house development initiated	First Version deployed in NR	Data Entry for Infrastructure Data Enabled
2007	2008-09			2010			2011	2012	

ARCHITECTURE

Centralized multi-tier architecture has been envisaged for this application. This will be hosted at the CRIS data Centre in New Delhi. Access will be enabled form all Zonal and Divisional Offices.

ASSISTANCE

Since the core success and reliability of this software depends on both the extent & quality of Infrastructure Information, it is essential that the user feeds the required details quickly so that tangible results can be utilized for planning purposes.

BENEFITS

The application has features that will enable creation of conflict free paths for train services and conflict free allocation of resources. The acronym SATSaNG means the collective search for truth, in Sanskrit. Planners at the Zonal level can use this application to refine their solutions and find newer ones with greater ease.

THE SEARCH FOR HIGHER TRUTH BEGINS NOW. SATSANG JAYATE!



August 2011



November 2011



March 2012



July 2012



2 October 2012