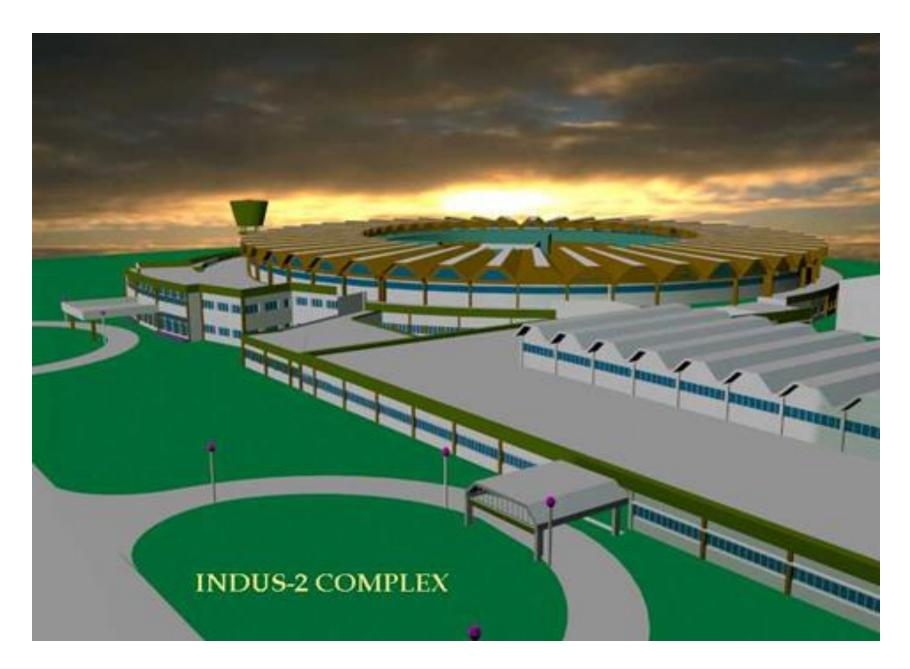
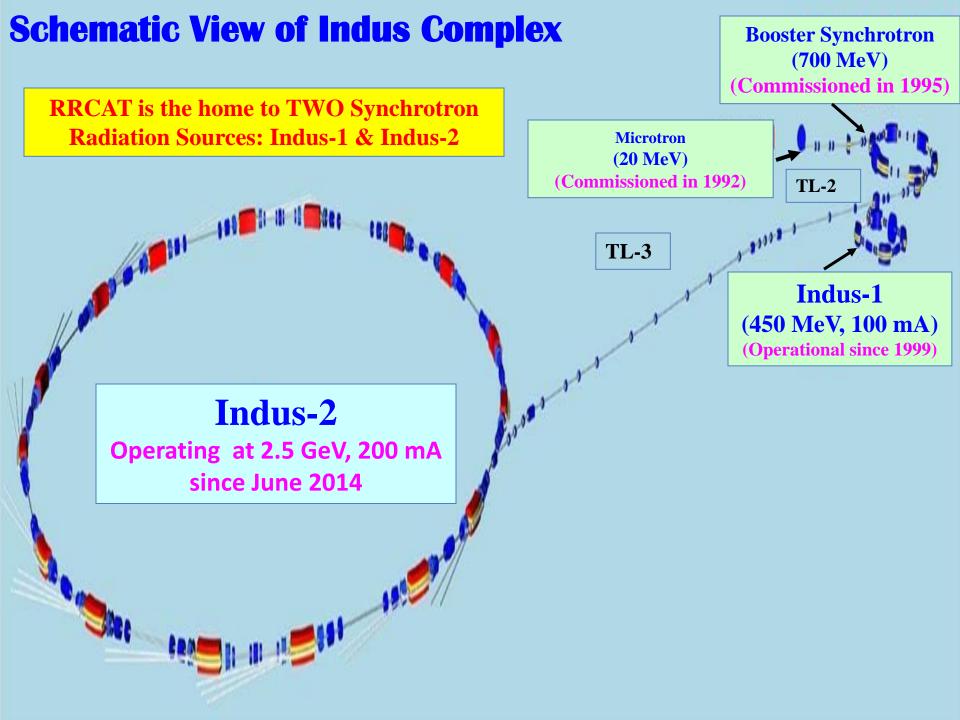
Eplanner Software for Machine Activities Management

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Raja Ramanna Centre for Advanced Technology (RRCAT) Indore, INDIA





The Need

The need was felt for a system for easily managing various related activities for avoiding communication gaps among the crew members and clearly bringing out the important communications for machine operation.

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What is *ePlanner*? *ePlanner* is a web based software package for online management and dissemination of information related to machine operation of Indus-2.

Functions of *ePlanner*



Work Plan Management

- \checkmark Edit and log each day's plan of next one week in one go
- ✓ Read only View of old date work plans
- \checkmark Storing each entries with timestamp and user name
- ✓ Searching of historical work plans in chronological order
- ✓ Quick View of Current Work Plans
- ✓ Auto assign one day old plan as Today's Work Plan
- ✓ Auto refreshed 'Today's Work Plan' formatted for Large Size Displays

Beamline Booking Management

- ✓ Multiple beamline booking in one go
- ✓ Option for beamline under commissioning
- ✓Unlimited days booking in steps of two weeks
- ✓ Undo option
- ✓ Booking Disabled for Shutdown days
- ✓ Booking Search in chronological order
- ✓ Quick View of Current Bookings

Machine Shutdown Management

- ✓ Two week shutdown booking in one go
- ✓ User Friendly User Interface (Checkboxes)
- ✓ Unlimited days shutdown bookings
- ✓ Undo option
- ✓ Activity Search in chronological order

Standing Instructions Management

- ✓ Standing Instruction for each group
- ✓ Online Rich Text Formatting
- ✓ Search in chronological order
- ✓ Quick View of Current Standing Instructions

Electronic Noticeboard (eNoticeboard)

✓ Standing Instruction for Today

✓ Reminder

- ✓ Important Note
- ✓ Search facility

Information Display

- ✓ Auto refreshed pre scheduled work plan display on Large Size Display Panel in Indus Control Room
- ✓ Auto refreshed Today's Standing Instruction display on Large Size Display Panel in Indus Control Room
- ✓ Auto refreshed Scrolling Message (Important Note) display on Large Size Display Panels installed at various locations of Indus premises
- ✓ Current Work Plans, Beamline Bookings, Shutdown details, Notices, Standing Instructions, etc. on IndusOnLine (SRS) website

Indus Fault Logbook (FLogbook)

This application was developed before ePlanner for tracking the faults occurring during round the clock operations of Indus-1 & Indus-2.

Now it is felt to merge the functionality of Flogbook with ePlanner so that all the information could be managed from a single software package.

Salient Features of FLogbook

- Authenticated Service
- Snapshot Grabbing & Logging
- Comments from System Experts
- Editing Lock & Fault Deletion
- Email with Attachment
- Searching option with 'Text String'
- Report Generation in Microsoft Word Format

ePlanner's Building Blocks



JavaServer Pages (JSP)

JSP technology enables rapid development of Web-based applications that are platform independent.

JSP technology separates the user interface from content generation, enabling designers to change the overall page layout without altering the underlying dynamic content.



JavaBeans components (beans) are reusable software programs that we can develop and assemble easily to create sophisticated applications. These web resources reside in middle tier.

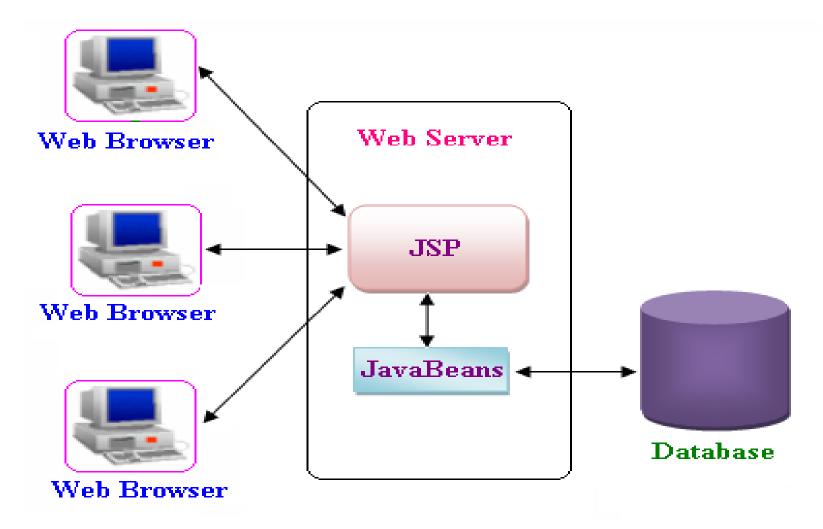
SQL Database

Microsoft SQL Server based relational database is designed to implement the data tier of ePlanner, which stores the complete information in related tables.

Web Server

Apache Tomcat We have used Apache Tomcat web server for executing & serving web components of ePlanner. Apache Tomcat is an open source web server developed by the Apache Software Foundation (ASF).

Software Architecture

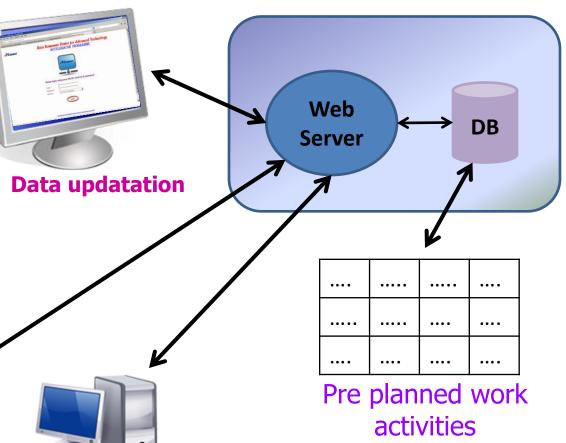


Information Flow

Information Display

- Auto refreshed and formatted for Large size Displays.
- Multiple data in a single scrolling page
- Work Plan, Standing Instructions, Beamline Bookings

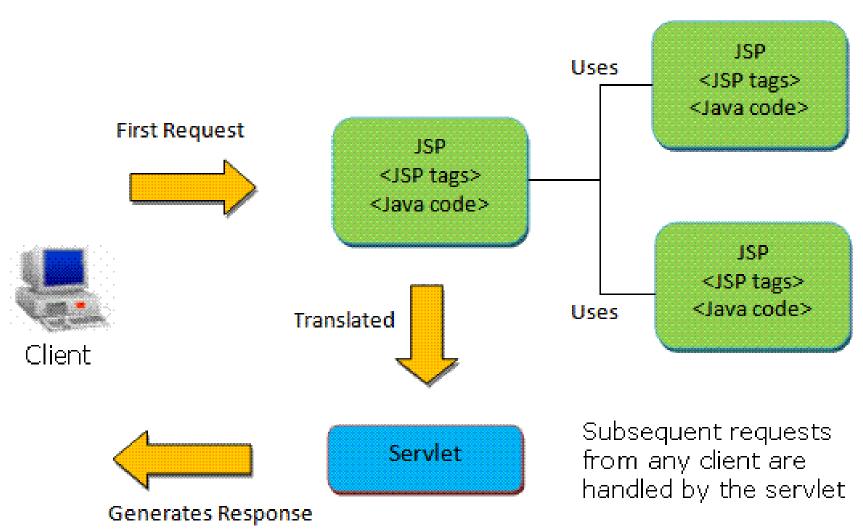




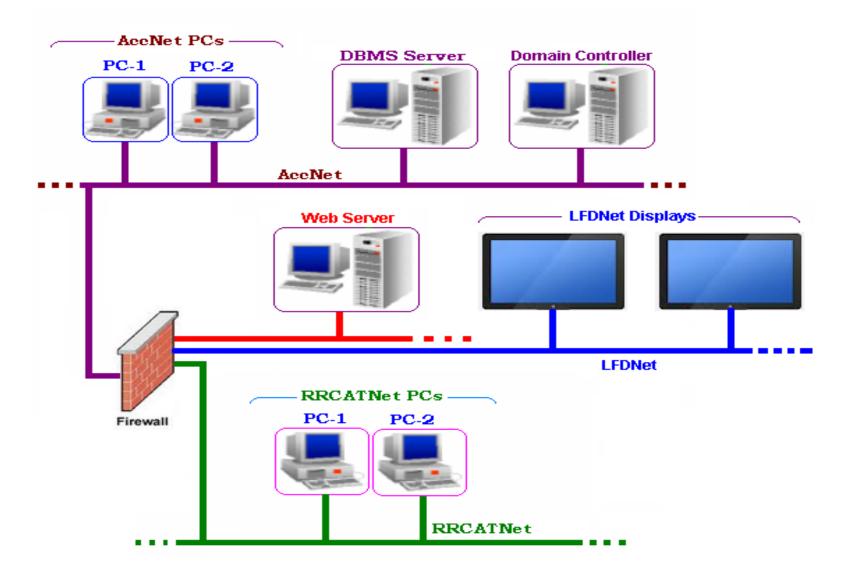
View Clients

- Any user through our **IndusOnLine** website.
- view and search: beam line bookings, operation plan, standing instructions, etc.

Execution of a JSP



Software Accessibility Over LAN



Users' Machine's Requirement? To access this software users' machine must be connected with Campus Network (RRCATNet) or Accelerator Network (AccNet) and must have a Web browser installed.

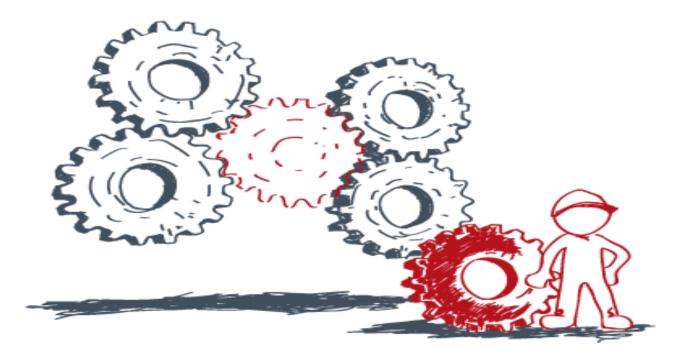
How to reach? http://srs.cat.ernet.in/ePlanner

ePlanner Authentication

- User's credentials are verified from RRCAT email server.
- This was done to avoid storing duplicate credentials on AccNet Server.

Each module has different user group.

ePlanner in Action (Screenshots)



Authentication Page



Raja Ramanna Centre for Advanced Technology ACCELERATOR PROGRAMME



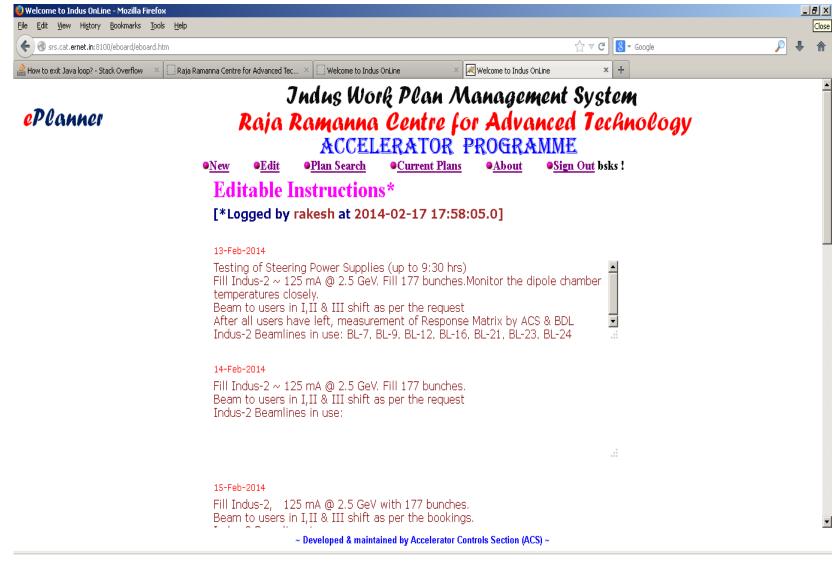
Please login using your RRCAT email id & password:

Login:	bsks	
Password:		
Activity:	Work Plan Management	¥



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Work Plan Editing Page



eNoticeBoard

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Standing Instructions Editing Page

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<mark>e</mark> Planner	Jndus Standing Instructions Management System Raja Ramanna Centre for Advanced Technology ACCELERATOR PROGRAMME	
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	Re-Ramp Facility: For ramping the beam energy the re-ramp feature is updated to cater the difference in the current injection settings from the injection settings of Ramp data generation. Now operators are advised to use Re-ramp for beam energy ramping regularly. In case of any problem please contact R. K. Agrawal (8055) or Smt. Bhavna Merh (2197).	
	PVSS Panel Launching: For launching of PVSS panels on any PC other than Indus 2 Power supply follow this procedure From ~Developed & maintained by Accelerator Controls Section (ACS)~	

Beamline Booking Page

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Current Work Plans

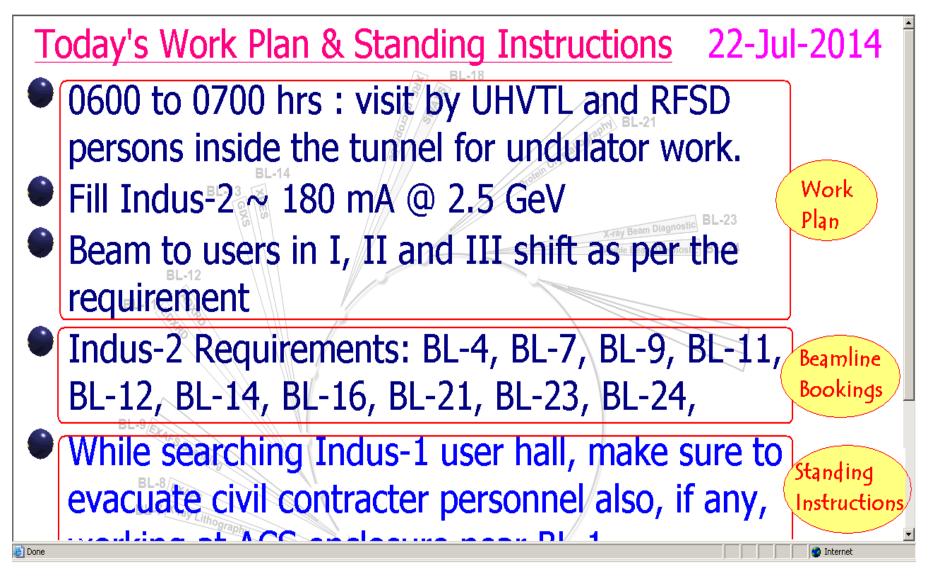
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Raja Ramanna Centre for Advanced Technology Accelerator Programme Indus Complex	
	-
Today's Work Plan	
 Fill Indus-2 ~ 125 mA @ 2.5 GeV with 177 bunches. Beam to users in I,II & III shift as per the request. Indus-2 Beamlines in use: 	
Tomorrow's Work Plan	
 Fill Indus-2 ~ 125 mA @ 2.5 GeV with 177 bunches. Beam to users in I,II & III shift as per the request. Indus-2 Beamlines in use: 	
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~ Developed & maintained by Accelerator Controls Section (ACS) ~	

Beamline Booking at a Glance

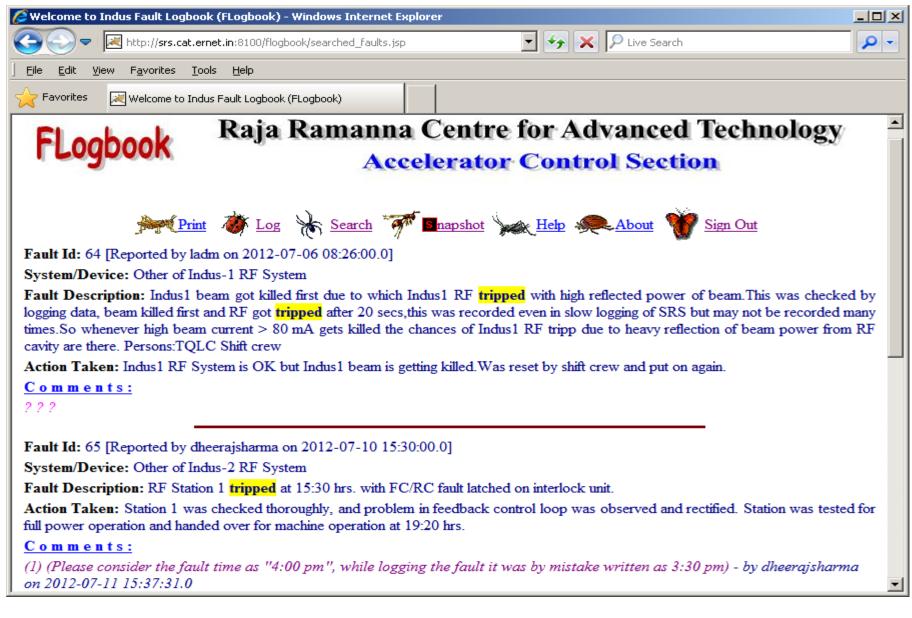
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~ Developed & maintained by Accelerator Controls Section (ACS) ~

Today's Work Plan & Standing Instructions



Data Search using FLogbook



16 October 2014

Email message generated from FLogbook

🕙 Printer Friendly - Mozilla Firefox
webmail1.cat.ernet.in/newmail/src/printer_friendly_main.php?passed_ent_id=0&mailbox=INBOX&passed_id=4898&view_unsafe_images=1
Print Close
From: flogbook Subject: Controls Hardware: Date: Mon, August 13, 2012 10:32 pm To: thakurta@rrcat.gov.in,hannurka@rrcat.gov.in,fatnani@rrcat.gov.in,kirti@rrcat.gov.in,sheth@rrcat.gov.in,ragrawal@rrcat.gov.in,tgp@rrcat.gov.in,tgp@rrcat.gov.in,sheth@rrcat.gov.in,ragrawal@rrcat.gov.in,tgp@rr
FLogbook Raja Ramanna Centre for Advanced Technology Accelerator Control Section
Fault Time: 2012-08-13 18:30
System Name: Indus-1 MPS System
Device Name: Controls Hardware
Fault Description: Arround 1830hrs it was alarmed for tripping of TL2 PS11.On diagnosting it was found that GUI of MPS system hung. After reset and rerunning GU MPS I-1 beam got killed, it was observed that after reseting the GUI values of SRS DP power supply were at abnormal(770A SET) (439A R/B). A GUI reseted and rerun but during cycling was not responding.
Action Taken: Shri Janardhan was contected as per his suggestion several command were tried on GUI but could not resoved the problem. Finally as per his suggestion memory chip was pressed on AUTOWRITE card.Finally problem solved.
Logged by: tgp
For current status of the fault please contact to 2191-4 or logon to http://srs.cat.ernet.in/flogbook

Developed JavaBeans for ePlanner

Sr. No.	Name	Functions
1	EboardQueryFormBean	Form's components
2	EboardMailBean	Authentication
3	EboardDatabaseBean	Database interactions
4	FlogMultipartBean	File uploading
5	FlogWordBean	Word document
6	FlogMailBean	Emails

Programming Languages Used

HTML (User Interface)
 Java (JSP, JavaBeans, JDBC, JavaMail)
 SQL (data logging & retrieving)
 JavaScript (Form validation)

