



I.2: Development of Information Systems at RRCAT

A) Enhancements to OASIS - Project Monitoring Software:

Web based software OASIS (On-line Access to project Information System) for comprehensive project monitoring is being used by project coordinators to monitor their XI plan projects. The software has reduced the manual work done by project coordinators for preparing various reports. This software has been enhanced further for maintaining the details of sub-projects within a project. To facilitate access to sub-coordinators, authentication mechanism of the software has been re-designed and implemented. Re-engineering of the data related to indents of sub-projects of various XI plan projects was done in the databases of Integrated Accounting Software and Integrated Purchase-Stores-Audit Software. All the programs related to Budget Monitoring reports were modified to facilitate access at sub-coordinator level. Report for 'Procurement Calendar' was modified for viewing financial year wise data. A new feature for uploading and viewing documents was also added to the software, so that all the information related to XI plan projects can be accessed from a single point.

B) Modifications in Payroll Software as per Sixth Pay Commission:

Programs were developed for Establishment Section to help in carrying out Pay Fixation of employees and due care was taken for promotion cases. Various programs were developed for generating 'Drawn and due statement' (as per sixth pay commission orders) and 'Arrears calculation sheet'. Based on due statement, income tax was calculated. Leave recoveries were taken care of in arrear calculation. This exercise helped Administration and Accounts for speedy disbursement of sixth Pay Commission arrears. Payroll software is also modified for processing of monthly salary as per sixth Pay Commission recommendations.

C) Migration of client/ server based Training School Software to web based architecture:

Software for BARC Training School at RRCAT is developed and maintained by Computer Centre. Earlier this software was working on client/ server (two-tier) architecture, but now it is migrated to web based platform using n-tier architecture.

The data was migrated from Oracle 9i to Oracle 10g database and Oracle Internet Directory was configured for authentication. Migration of forms and reports, application deployment and unified login was completed with single sign-on functionality. Comprehensive training was provided to the users and now the software is successfully running on Oracle 10g platform.

D) Deployment of InPAC-09 Website:

A website for Indian Particle Accelerator Conference - InPAC-2009 has been developed and deployed on <http://www.inpac2009.rrcat.gov.in>. This site contains information related to the conference.

*Reported by:
Alpana Rajan (alpana@rrcat.gov.in) and Anil Rawat*

I.3: Development in Networking and Communication at RRCAT

A) RRCATNet Planning, Expansion and Upgradation:

Phase IV of RRCATNet high speed OFC backbone network expansion, was completed. This phase of the network expansion facilitates physical media redundancy and high speed network (1 Gbps backbone) connectivity to Fire Station, Guest House, Training School, H-Block and Guard House buildings. It also includes extension of the high speed OFC backbone to Residential Area Exchange, Medical Centre, AECS (both new and old computer labs) buildings and 100 Mbps Copper backbone connectivity to New Chemical and CAP buildings. In all, 200 nodes were added to RRCATNet.

B) Enhancements to RRCAT Data Centre:

Necessary configuration changes were done to extend "Z Drive" access to various committees and groups namely AGB, LGB, SCR, ARPF and PSS, for better and easy collaboration among members. "Z Drive" is a shared storage with authenticated access over RRCATNet. Approximately 100 users have benefited with these configurations.

C) Email and Internet Access Setup Enhancements:

The domain name of RRCAT was changed from "cat.ernet.in" to "rrcat.gov.in". Necessary configuration changes were carried out in the Domain Name Service, mail and web servers to accept requests for both the domains. It