



Fig. I.3.5: Snapshot of the Network Access Control system main page.

### E) Expansion of communication Network

Mobile facilities were enabled on 15 extensions, 25 telephone connections were shifted, 21 new telephone connections were installed and 5 numbers of digital reflex phones were installed with voice mail facility in RRCAT campus.

### F) RRCATNet Planning, Expansion and Upgradation

Planning for installation of 100 number of network nodes, distributed across various existing building networks including LFL, ADL, Colony Exchange, Admin, PLAVT, LMD and AECS have been carried out and necessary minor fabrication job has been initiated. New network planning for 12 port network in CME Lab and 48 port network in TSH was also carried out.

The "Enhanced Phase-IV" of the network expansion plan, which includes replacement of the aging, unmanaged/managed network switches in various buildings with the new managed switches was completed. The old managed switches of LSL, HSL and Purchase building were replaced with new managed switches. The 24 port old aging hubs of LFL, A-Block, Purchase, Guard House and C1-Block were also replaced with new managed switches. Installation of a new 13 port network in Library extension building and 24 port network in new chemical treatment building was also carried out. Laser Work Centre building and Cryomodule Engineering Lab were connected to RRCATNet using the 10 Mbps DSL mode of connectivity. Networking for 5 number of nodes in LSL and 2 number of nodes in Central Complex building was also carried out. In all, five number of 24 port switches and four number of 48 port switch were installed. In all, 40 nodes were added to RRCATNet.

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## I.4: Construction and Services

### A) Construction of lab buildings for R&D programmes.

Construction of a number of lab buildings is in progress. The construction of pre engineered building for SCRF cavity development lab, Laser R&D block "G" extension and I.T. building extension are in advanced stage. The pre engineered building includes construction of high bay enclosure for having clean rooms for SCRF cavity development programme. The building for UHV & MFL is being constructed as combined building to optimize cost of construction for common utilities. Building for housing UHV labs and Magnet fabrication and measurement lab was taken up. Construction of various labs for R&D programmes is being undertaken for LBAID, LMDDD, SCLS, SSLD, Ferrite lab and Indus-II users are in progress. The buildings are being constructed near the existing set up of respective laboratories to enable use of available infrastructure.



Fig. I.5.1 View showing the erection work in SCRF laboratory

Further construction of Optical work shop and Hydrogen furnace laboratories was also started.

About 55 % work of construction of 18 number of "type IV D" houses has been completed. Numerous other infrastructure works are also in progress. About 85% work of construction of 'PG' hostel, security office at main gate along with related development works, extension of fire station, extension of C&S division office, construction of oil shed & other store units, drill tower, CI pipe line work for water line in colony and fire water line in plant area have been completed.

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