Radio-metallurgy Laboratory (RML) hot cell facility:
- Dismantling of subassemblies irradiated in FBTR,
- Post Irradiation Examination (PIE) of irradiated fuel & structural materials,
- Dispatch fuel to other laboratories for reprocessing & chemical analysis,
- Dispatch of the structural materials to CWMF for disposal

The objectives of RML hot cell ventilation are:
- Supply of high purity low moisture nitrogen gas to the hot cells,
- Removal of heat generated inside hot cells during PIE,
- Maintenance of lower pressure inside than the surrounding areas,
- Prevention of radio-activity build up inside the hot cells

Salient features of Hot cell ventilation system
- Closed loop type ventilation- Inert gas (N₂) recirculation loop (IGRS loop),
- Hot cells are maintained the pressure of -20mm to -30mm WC less than operating area.
- Can support once through air ventilation when required,
- Nitrogen with Moisture < 100ppm & Oxygen < 1%,
- 100% standby systems in Power & Dynamic pressure balancing.

Maintenance and upgradation of RML hot cell ventilation system
- Breakdown maintenance of venti-blower of IGRS loop.
- Introduction of a fast vent line to the hot cells and an additional safety set-up by implementing an emergency backup evacuation system.