

**Name of equipment:** Liquid Nitrogen Plant

**Make:** Stirling

**Model:** StirLIN-1 Economy

**Working Principal:** Liquid Nitrogen Plant (LNP) extracts Nitrogen gas from the atmospheric air and then liquefies it with the help of Stirling Cryocooler. It includes an air compressor, an air separation unit, an integrated chiller (no cooling water needed), a Stirling Process Cryogenerator (SPC-1) and a 300-liter storage vessel. Air compressor produces nitrogen gas from air which is liquefied by stirling cryogenerator and stored in storage vessel having valve and flex hose to tap the liquid nitrogen.

**Application of Equipment:** Used for production of Liquid nitrogen which is used for

1. Storage of biological samples like plasma,
2. Preservation of filed isolates.
3. Transportation of samples in nitrogen container.

**Instruction for Use:**

**Fees for Use:** (Please put tentative fees for use we may have to approach ICMR for approval)



**Figure: Liquid nitrogen plant.**