The Cryogenic Service Room is one of the common facilities in the Institute of Industrial Science and supplies liquid helium (−269 °C), liquid nitrogen (−196 °C), nitrogen gas (0.7 MPa) and primary pure water to the laboratories. Since helium is a scarce and expensive resource, we supply liquid helium through a recycling method in which evaporated helium gas is collected and re-liquefied.

**Main Equipment**
- Helium liquefier (LINDE-L140)
- Liquid helium storage tank (2,500L)
- Long helium gas cylinders (2,085m³)
- Compressor for helium gas recovery (50m³/h)
- Liquid nitrogen storage tank (11,000L)
- Automatic Liquid Nitrogen Supply System
- Primary pure water production unit (2.2m³/h)

**Main Activities**
- Production and supply of liquid helium
- Liquid nitrogen supply
- Nitrogen gas supply
- Supply of primary pure water
- Maintenance and management of each facility
- Accounting for the use of special fluids
- Compliance with the High Pressure Gas Safety Act

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