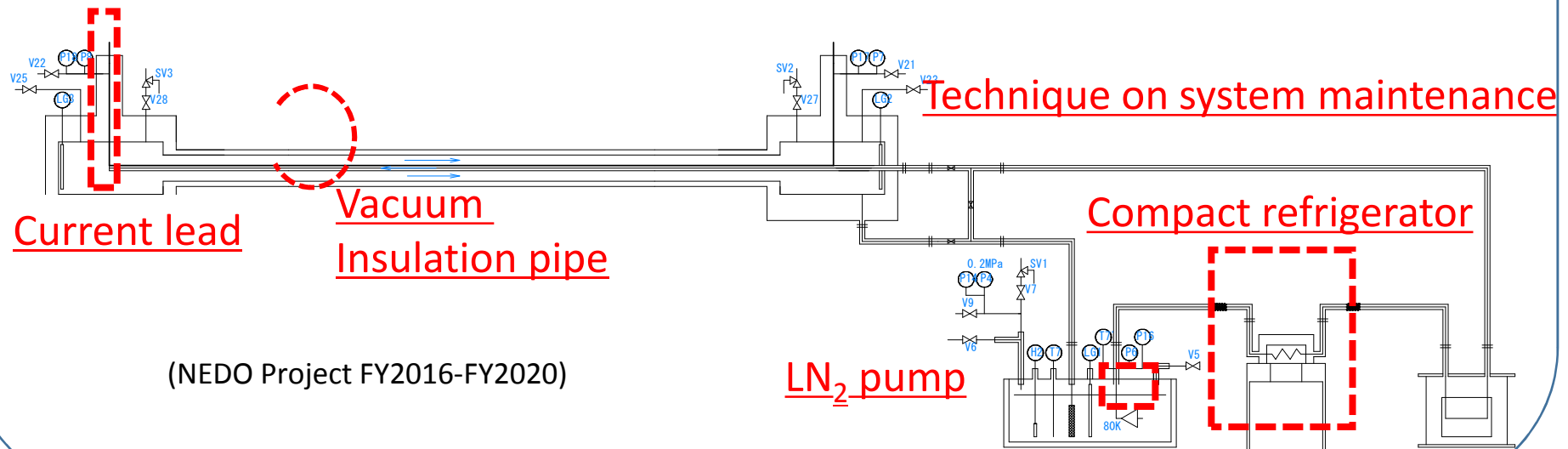


Task for HTS cable commercialization:  
Question. What is the issue from Railway Technical Research Institute ?

Answer. Our important task is

“Development of The Cooling Technique of Long Distance for HTS Cable”.

- ① Development of the Main Devices of the Cooling System (Intermediate Target)
  - (1) Compact refrigerator (Dimensions : 2m<sup>3</sup>/kW)
  - (2) Liquid nitrogen circulation pump (Head : 0.6MPa, Flow rate:50 L/min)
  - (3) Vacuum insulation pipes (Heat loss : 2 W/m, Vacuum maintaining : 1 year)
- ② Construction and Evaluation of Long Distance Cooling System
  - (1) Evaluation assuming the actual environment
  - (2) Development of technique on system maintenance



Development of The Cooling Technique of Long Distance for HTS Feeder Cable in Railway