

# **IANC-2025 DESIGN-A-THON**



# Idea-thon / Technical Challenge

- **Problem statement:**

- Develop a condensate pumping method against a back pressure by using motive force of high pressure steam without cavitation or water hammer.
- Design Conditions:
  - Steam & Condensate in Phase Equilibrium
  - Motive Steam Pressure = 10 bar(g)
  - Back pressure for Condensate = 2 bar(g)
- An estimate of Specific Steam Consumption (kg/hr of steam per kl condensate) will be an added advantage

