

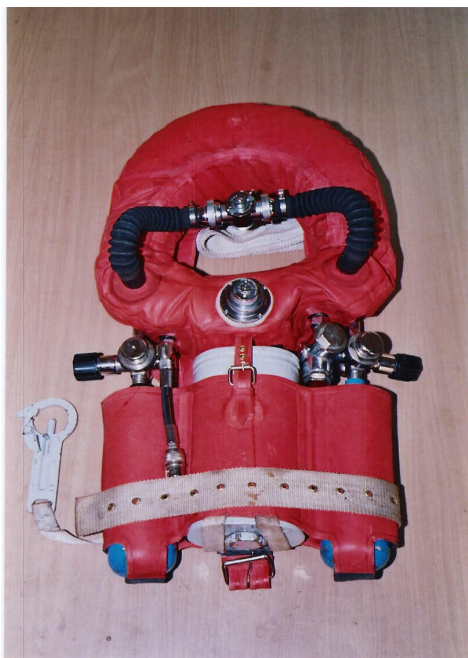
SUBMARINE ESCAPE SET (Breathing Set)

Sub marine Escape set (SES) is used to rescue the sunken submarine inmates. This set is closed loop breathing equipment which can support the breathing requirements of escapee for duration of 2.5 hours.

SES consists of two important sub systems namely i) Hydro suit and ii) Breathing apparatus. Breathing apparatus caters for the breathing needs of the wearer with changing gas compositions as per the corresponding depths. Breathing apparatus consists of Oxygen cylinder reducer, Trimix cylinder, demand valve, Pressure release safety valve (PRSV) and Canister. The oxygen cylinder is charged to 180 to 200 bar and the reducer with feeder supplies different flows of oxygen into the breathing bag for different depths of sea. Automatic Demand valve supplies mixture of gases into the bag on demand. PRSV releases the excess pressure from the bag. Regenerative canister generates oxygen from the exhaled CO₂. The item has been accepted by user for introduction into service.



Breathing set



Submariner
with SES 100 m