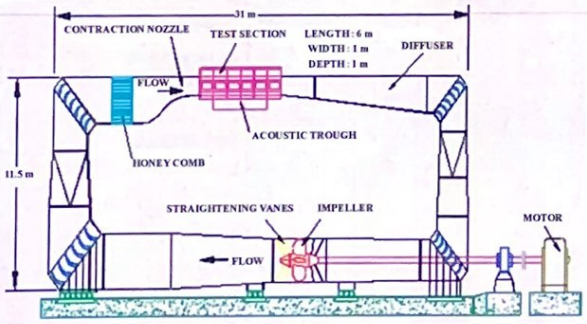
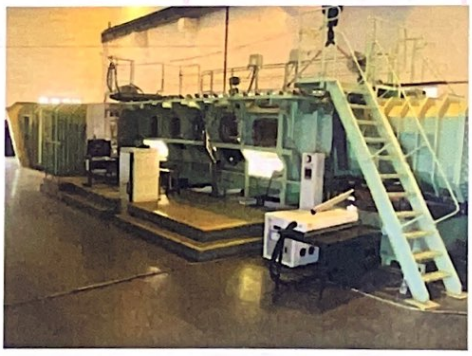
Name of Organization NAVAL SCIENCE AND TECHNOLOGICAL LABORATORY	**Year of information updating** 2023
Year Established 1969	**Year of joining ITTC**
Address Vigyan Nagar, NAD Kotha Road, Visakhapatnam - 530027	**Status in ITTC** Membership renewal due
Contact Details Tel: +91 891 2586170 Fax: +91 891 2559464 Email : manu.korulla.nstl@gov.in	**Website** www.drdo.gov.in
Type of facility Hydrodynamic Testing Facility	**Year constructed/ upgraded** 2000
Name of Facility Cavitation Tunnel	**Location** Same as above

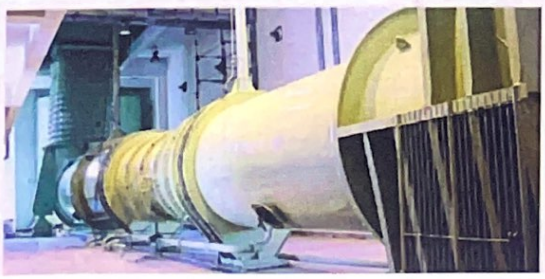
Main Characteristics

Closed circuit variable speed variable pressure tunnel, Test section length 6m, cross section 1 m X 1m , and Flow speed 15 m/s.

Drawings of Facility







Detailed Characteristics		
Test Section	:	1.0 m X 1.0 m X 6.0 m
Flow speed	:	15 m/sec
Pressure Range	:	0.1 – 3.0 kg/ cm^2
Instrumentation	:	Dynamometers like multi-component propulsion dynamometer, single and contra-rotating open water dynamometer mounted on removable test section covers, multi-component wake rake, acoustic sensors, acoustic trough of 5.2 m length, aeration and de-aeration, fine filtering, stroboscopes and videography

Applications

- Cavitation studies on hull and propeller in open water & behind condition
- Acoustic studies at both cavitating and non-cavitating condition
- Wake measurement
- Propeller open water and behind condition performance characteristics measurement
- Measurement of forces and moments on submerged bodies (6 components) and surface bodies (3 components) at specified angle of attack

Published Description (Publications on this facility)

- None