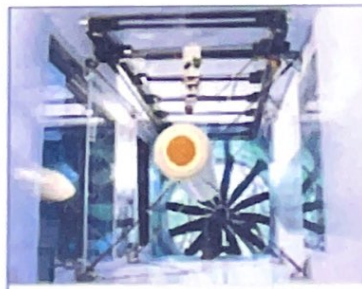
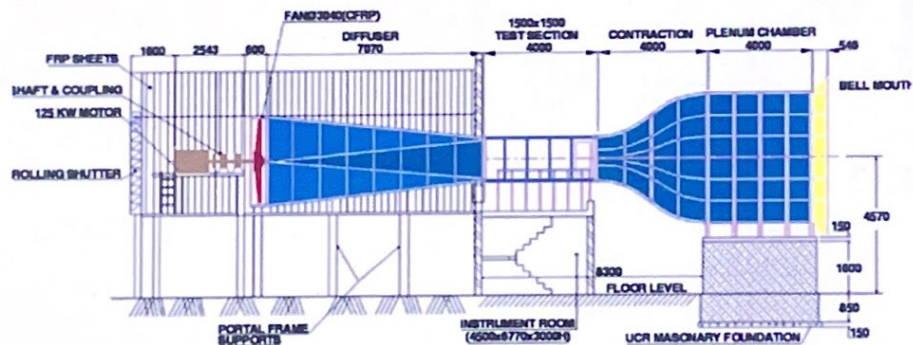


Name of Organization NAVAL SCIENCE AND TECHNOLOGICAL LABORATORY	Year of information updating 2023
Year Established 1969	Year of joining ITTC
Address Vigyan Nagar, NAD Kotha Road, Visakhapatnam - 530027	Status in ITTC Membership renewal due
Contact Details Tel: +91 891 2586170 Fax: +91 891 2559464 Email : manu.korulla.nstl@gov.in	Website www.drdo.gov.in
Type of facility Aerodynamic Testing Facility	Year constructed/ upgraded 2003
Name of Facility Low speed open circuit Wind Tunnel	Location Same as above

Main Characteristics

Test section is 4 m long and 1.5 m X 1.5 m in cross-section. Maximum wind speed at test section is 55 m/s.

Drawings of Facility



Detailed Characteristics

- Test Section : 1.5 m X 1.5 m X 4.0 m
- Plenum Chamber : 4.3 m X 4.3 m X 4.0 m
- Maximum Speed at Test Section: 55 m/sec
- Instrumentation : Differential pressure transducers, multi port electronic pressure sensors, hot wire anemometer, 3D velocity probes, shear stress sensors, 2D wake traverse, 3D boundary layer traverse

Applications

- Drag and vehicle-propulsor interaction studies for underwater bodies
- Optimization of hull form and appendage
- Optimization studies for foil configuration for high-speed marine crafts
- Estimation of boundary layer characteristics

Published Description (Publications on this facility)

None