



## Study of Flow Behaviour Around Water Submerged Tidal Sails

### Objective

- ❑ Exploration of new environmental friendly, simple & cost effective renewable energy sources.

### Methodology

- ❑ This Project was firmly based upon a new concept of underwater tidal power extraction mechanism, '*Harmonica Model*', in which huge tidal sails are affix to long cables in a manner resembling a ski lift, which will be pulled by tidal stream and feed a generator, which in turn will produce electricity.
- ❑ Study of fluid flow behaviour across three dimensional models of tidal sail using advance CFD & experimental techniques.

### Outcome

- ❑ Provided a good understanding of the flow behaviour across different design configurations of the tidal sail, which helped in selecting the optimum design configuration

