Indian Institute of Technolgy, Madras
Department of Ocean Engineering

OE5020- Design Project – Zeroth Review

15/02/2021
Roll No: OE20M012

Title of the Project: Design of Fluidic Diode for an OWC.

Project Guide: Prof. Dr. Abdus Samad

Problem Statement: Design a Fluidic Diode to produce a renewable power output in Ennore port.

Objectives:

1. Understand working principle of fluidic diode.
2. Understanding the design parameters of fluidic diode.
3. Finding suitable dimension of fluidic diode for optimum power output from the turbine unit.
4. Modelling of the fluidic diode using CAD software.

Methodology:

1. Literature Review.
    a) Understanding different wave energy converters
    b) Understanding different turbine units for wave energy applications
    c) Understand working principle of fluidic diode.
2. Analytical Calculation.
    a) Analytically finding optimum fluidic diode dimensions for turbine unit.
3. CAD Modelling.
4. Make Report

Time Schedule:

	February	March	April	May	June	July
Literature Review						
Analytical Calculations						
CAD Modelling						
Report						