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IIT MADRAS

Indian Institute of Technology Madras

Technology Transfer Office
TTO - IPM Cell



Industrial Consultancy & Sponsored Research (IC&SR)

TEST RIG FOR MEASURING LEAKAGE AND DYNAMIC CHARACTERISTICS OF LABYRINTH SEAL

IITM Technology Available for Licensing

Intellectual Property (Design)

IITM IDF Ref. - 3051

Registered Design No.: 426873-001

Class: 15-19

TECHNOLOGY CATEGORY/ MARKET

Technology Category: Applied Mechanics
& Mechanical Engineering

Application: Aerospace & defense
technology, Power generation, Oil & Gas
Industries.

Market: The Leak Test Equipment Industry
is expected to grow from 5.63 (USD Billion)
in 2023 to 11.5 (USD Billion) by 2032.

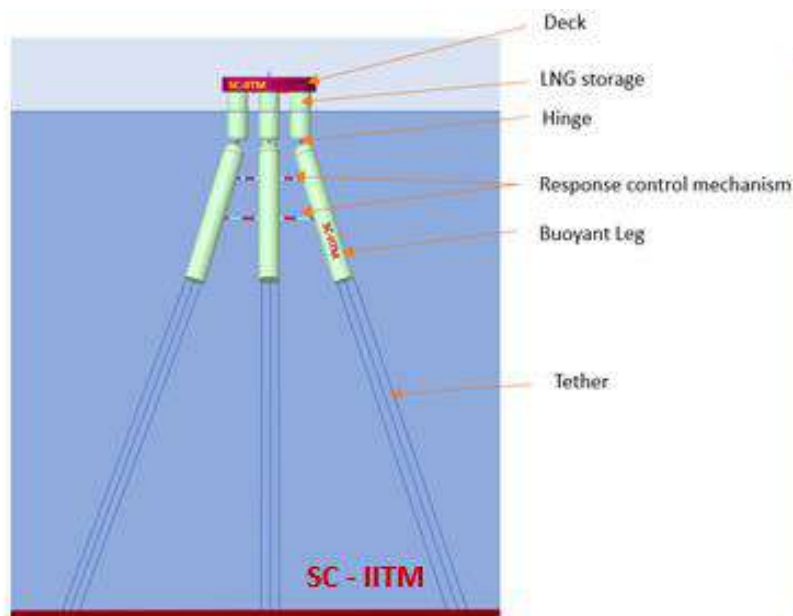
Research Lab

Prof. Srinivasan Chandrasekaran
and Shyba Arakkan, Department of
Ocean Engineering

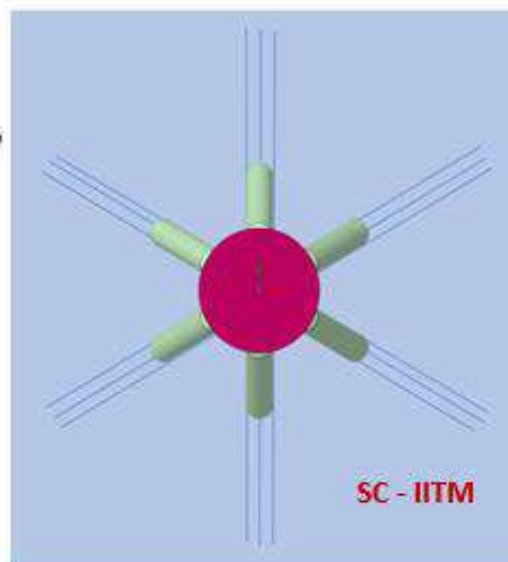
DESIGN

The present Design is a Test setup/rig
that can be used for testing a Tooth-
on-Rotor type Labyrinth seal subjected
to the variations in, Supply Pressure,
spin speed and eccentricity of the seal,
during the test. Mild steel and
Aluminum are used in fabricating the
rig.

IMAGES



(a) Front view



(b) Top view

BLSRP with buoyant leg storage

CONTACT US

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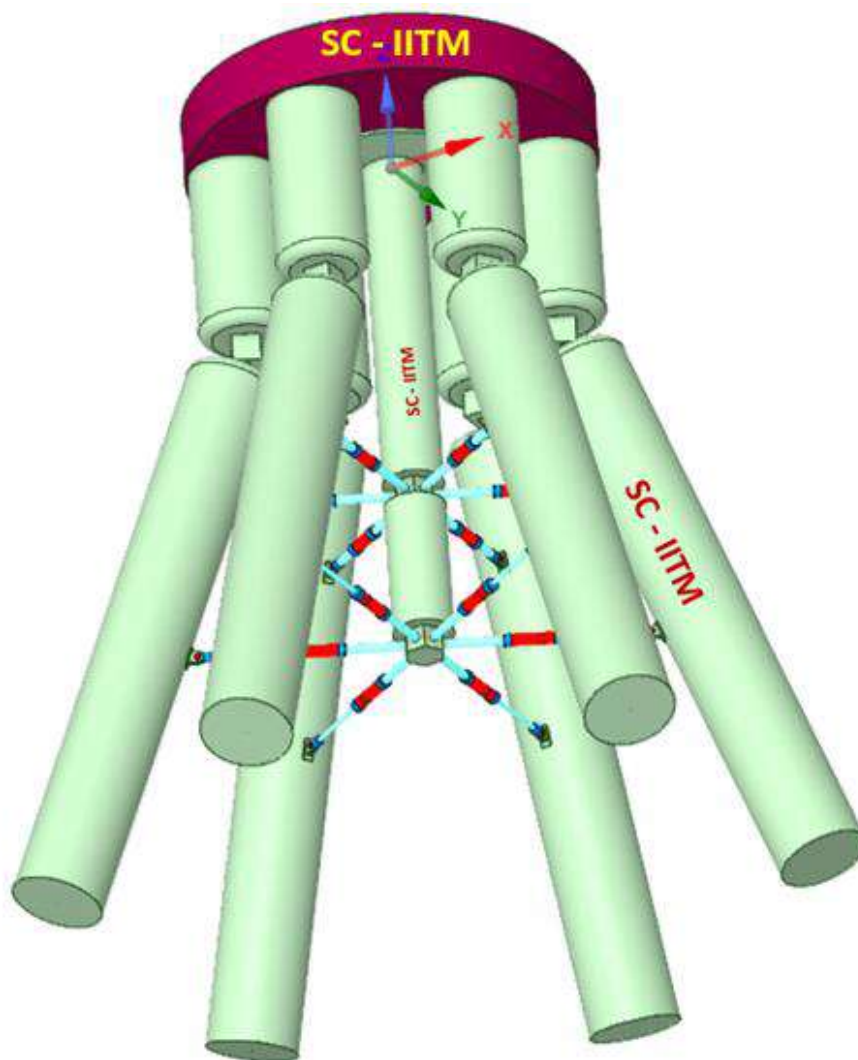
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DESIGN



Perspective view of BLSRP with storage and response control mechanism

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