GSTIN : 33AOUPT8054PIZT

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80-B Kamadhenu Nagar, Avarampalayam, Coimbatore - 641 006

Date: October 7, 2019

To,
Dr. Milind Kulkarni, Prof. Ganesh Pokale, Manish Pandit
Faculty
School of Engineering,
Ajeenkya D Y Patil University
D Y Patil Knowledge City
Charholi Budruk, Via Lohegaon
Pune 412 105, Maharashtra, India

Subject: Approval of Research Project Titled "Pool Boiling Heat Transfer over SS 316 Substrate"

Dear Dr. Milind Kulkarni,

We are pleased to inform you that your research proposal titled **"Pool Boiling Heat Transfer over SS 316 Substrate"** has been thoroughly reviewed and approved by the research committee. This research project has been recognized for its potential to advance the understanding of heat transfer processes, with specific attention to the application of stainless steel substrates in pool boiling systems.

After a careful evaluation of your research plan, we are glad to approve a total project budget of **INR 26,00,000 (Twenty-Six Lakhs)** and a duration of **22 months** for the successful completion of the project.

Project Overview

The approved research aims to investigate the pool boiling heat transfer characteristics over **SS 316 Substrate**, a material known for its excellent corrosion resistance and mechanical strength. The project seeks to explore critical parameters such as:

- The enhancement of heat transfer efficiency,
- Surface treatment effects on boiling performance,
- Critical heat flux (CHF) behavior, and
- Boiling dynamics under varying environmental conditions.

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This research holds significant promise for applications in thermal management, energy efficiency, and industrial processes, where improved heat transfer methods can lead to more cost-effective and sustainable technologies.

Project Duration

The project duration has been approved for a total period of **22 months**, beginning from the project initiation date. This timeline has been established based on the complexity of the experiments and the expected challenges associated with testing boiling heat transfer performance over different surface conditions.
During this period, we request that you submit interim progress reports every **six months** to ensure that the project remains on track in terms of both technical milestones and budget utilization. Additionally, a final report outlining the research outcomes and key findings will be required at the conclusion of the project.

Expectations and Compliance

We trust that the funds provided will be utilized in accordance with the university's research funding guidelines. It is imperative that all expenses are documented, and any deviations from the approved budget allocation be communicated in advance for prior approval.

The university anticipates that the outcomes of this research will provide valuable insights into the role of surface properties and material characteristics in pool boiling heat transfer, which could potentially lead to advancements in thermal management and material design. If you require any further clarifications or assistance, the university's finance department and research coordination office remain at your service. You are encouraged to reach out with any administrative or technical questions to ensure smooth execution of the project.

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We look forward to the progress and success of your research and are confident that your contributions will be of great value to the scientific and industrial community.

Sincerely

Managing Director
Tiwari Pump Company