

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** SHUBHAM SINGHLA
- **User Type:** [*] Ph.D. Scholar [] Postdoctoral Researcher [] Bachelor's [] Masters
- **Institution Name :** Motilal Nehru National Institute of Technology
- **Institutional Contact No:** 0532-2545404
- **Research Topic:** Computational modelling of sodium ion battery

Software Request Details

- **Software Name:** Comsol multiphysics software
- **Justification for Software Request:** The electrochemical multi-physics behaviour of a battery is computed to understand its real-world performance, including thermomechanical effects. Mathematically, this multi-physics problem is described using a set of partial differential equations. COMSOL Multiphysics is one of the most advanced and effective tools available for conducting such simulations and analyses.

Guide/Supervisor Approval

I, Dr. Vibhuti Bhushan Pandey (Guide/Supervisor Name),

- Confirm that the above-mentioned researcher is affiliated with our institution
- Have reviewed the software request and its relevance to the researcher's academic work
- Approve the software request for research purposes

Approval Confirmation

- I approve the software request
- The software aligns with the researcher's research objectives
- The request meets the institutional research guidelines

Guide/Supervisor Signature: _____

Date: 04 April 2025

Official Stamp/Seal: _____

Important Notes

1. This form must be signed and scanned
2. The scanned copy must be uploaded with the software request
3. Electronic signatures are acceptable if from an official institutional email

Vibhuti
04/04/25
[Signature]
04/04/25
Professor & Head
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