

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Dr. Wajid Ahmed, B.E(E&E), M.Sc. (Engg.), Ph.D (Electrical)

On 14/02/2025, I have attended Industry-Academia Synergy Workshop at IISc, Bengaluru, organised BeST Cluster and met Dr. Harilal Bhaskar, COO/National Coordinator (I-STEM), and Ms. Zeenath Afreen, had briefed about my software requirement and research and placed my request before them. Thank you

- **User Type:** [Ph.D. Scholar [Yes] Post doctoral Researcher [] Bachelor's [] Masters

- **Institution Name** Govt, Polytechnic, Immadihalli, Bengaluru,
Dept. of Collegiate and Technical Education, Govt. of Karnataka

- **Institutional Contact No:** 9844475699

Research Topic: Transient Analysis and Protection of Multi-terminal VSC-HVDC Systems with the application of Superconducting Fault Current Limiter (SCFCL)

- **Software Request Details:**

- **Software Name:** Need

1. MATLAB Educational version and
2. COMSOL software

- **Justification for Software Request:**

Presently I am working on the research area of DC protection of multi-terminal VSC-HVDC transmission systems which are important components and proven technology to transmit Renewable Energy sources like Wind power and Solar to AC grids over longer distances and higher power levels to meet ever growing power demands and to reduce fossil fuels and emission of CO₂. These systems lack inherent capability to protect from temporary DC and AC faults which presently leads to shutdown of entire link. I am having original IEEE, CIGRE, and international publications and contributions in this area of research. I need MATLAB and COMSOL software to create the detailed and complicated system model required for the purpose of carrying out Transient and Simulation analysis. My papers have IEEE/ international citations of about 150+. I need the above softwares in order to produce high quality publications. I assure to acknowledge I-STEM in future publications.

Guide/Supervisor Approval

I, Dr. Wajid Ahmed, self, working in state Govt. run by Dept. of Collegiate and Technical Education Govt. Polytechnic, situated in Bengaluru city

- Confirm that the above-mentioned researcher is affiliated with our institution- yes, self
- Have reviewed the software request and its relevance to the researcher's academic work- yes, self
- Approve the software request for research purposes- yes, will help to carryout high-quality research

Approval Confirmation

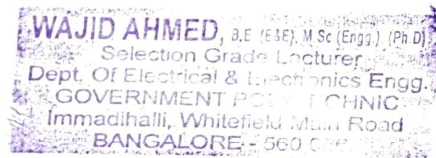
- I approve the software request- yes, self
- The software aligns with the researcher's research objectives- yes, self
- The request meets the institutional research guidelines-yes, self,

Guide/Supervisor Signature: NA

Date: 9th April 2025

Wajid Ahmed 9/4/2025

Dr. Wajid Ahmed, B.E(E&E), M.Sc. (Engg.), Ph.D (Electrical)
Sel. Gr. Lecturer, Dept. of E&E Engg.
Government Polytechnic, Immadihalli,
Bengaluru-560066



Official Stamp/Seal: [Space for Institutional Stamp]

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