**Research Plan Submission Form**

**(Read carefully all the instructions before starting filling this form)**

**(**Applicants will prepare a brief statement of the work to be undertaken. In general, the following format may be prepared. Please avoid plagiarism. Authentic software may be used to check it, and if any type of plagiarism will be found it may lead to rejection of your proposal without any information to proposer. Information may be sent to your Head/Registrar of the Institution for necessary action. Please don’t copy and paste other’s research review, methodology and results or idea etc.**)**

**Title of research project (Ph.D. Topic):**

**Name of the candidate:**

**Organization/Institute:**

**Name of the PhD Guide with Email ID:**

**Registration Year of PhD:**

**Attended Advanced Training Program from to till (DD/MM/YYYY):**

A) **Objectives of your proposed work:** State concisely what the research described in the application is intended to accomplish or what hypothesis is to be tested.

B) **The significance of your research:** Briefly sketch the background of the present proposal, evaluate existing knowledge in this area, and identify the gaps which this project intends to fill. State the importance of this research by relating its aims to longer term objectives. Present related projects and demonstrate this effort does not repeat previous studies nor infringe on intellectual property rights granted to other workers and firms.

C) **Preliminary research done related to proposal:** Describe prior research by the investigator that led to formulating the proposal, as well as any other information that will assist reviewers in assessing the competence of the investigator who is to perform and complete the proposed project.

* Simulation (briefly explain the outcome of the simulated work):
* Fabrication - (e.g.: Thin film optimization, design optimization etc.)

D) **Cross sectional and top view of the proposed device: (clearly indicating dimensions and required layers)**

E) **Detailed Process Flow of the proposed Device: (with dimensions and required layers)**

F) **Results obtained from your research work (Modeling/Experimental) till date:** Describe prior research done by you for your research topic and results obtained.

G) **Research methodology and time table.** Detail the research design, specific parameters (for fabrication and characterizations) and the procedures to accomplish the objectives of this research. Describe the sequence of the investigation within a calendar framework. Describe the means by which the data will be analyzed and interpreted. Discuss the methodologies and any potential limitations of the proposed procedures and alternative approaches that may be used to reach the objectives of this proposal. Note: any procedures that may be dangerous to personnel and the precautions that will be used in these situations.

H) **Collaborative relationships:** If there is more than one investigator, include the work statements or research obligations of each investigator.

I) **Facilities and instrumentation:** Describe the available facilities and instrumentation that will be utilized in this project (specify the name of equipment’s with purpose of use).

**(i) At Parent Institute:**

**(ii) Required from CeNSE:** (visit the website for infrastructure details: http://www.cense.iisc.ac.in/content/infrastructure)

J) **Expected outcomes:**

K) **Bibliography**: Include a bibliography of the pertinent literature referenced in the proposal.

L) **Bio-data of researchers with list of publications:**