

## **Category II**

### **Format for pre-proposal Technical Document:**

#### **1. Use-Inspired Context & Problem Relevance**

Describe the practical or societal challenge motivating the proposed work. Highlight current limitations and of existing approaches. Explain why addressing this problem requires advancement in fundamental understanding.

#### **2. Scientific Merit, Novelty & Advancement Beyond Current Baselines**

What is fundamentally new in the proposed idea, concept, or approach? Highlight current baselines and expected improvements relative to the same (e.g., efficiency, reliability, cost, precision, scalability, sustainability, performance).

How does the proposed work advance (a) Foundational knowledge, and (b) Potential application?

#### **3. Research Approach & Feasibility**

Methodological approach / High-level execution logic or phases; How the application awareness is embedded into the research approach and its expected impact?

#### **4. Figures / diagrams, if any**