# Entrepreneurship And Innovation Cell, SAKEC

Proof of Concept Form

## PART A: Idea/PoC (Product/Service/Process)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Team Details | **Team Lead:**   |  |  |  | | --- | --- | --- | | Name | Email | Contact no. | |  |  |  |   **Team Members Details:**   |  |  |  |  | | --- | --- | --- | --- | | Sr. No. | Name | Email | Contact no. | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |   **Company Name and Address:** |

|  |  |
| --- | --- |
| **Name of the Idea/Proof of Concept (PoC)** |  |
| **Theme** | …………………………………………………………………………………………………………………  *Chose the most appropriate theme (max 2) from* ***Annexure 1*** |
| **Define the problem & relevance to today’s market/society/industry need (***Max 100 words***)** |  |
| **Propose the solution to Problem Identified (***Max 100 words***)** |  |
| **Describe the product/process/ service and write how it is innovative/unique. (***Max 100 words***)** |  |
| **How is your proposed product/ process/service different/ better from a similar product/ process/ service, if any, in the market (***Max 100 words***)** |  |
| **If your Idea is technology based, then specify the TRL Level (Technology Readiness Level) and Expecting the features of Idea/PoC?**  ***Note:***  *For the Idea level, TRL 0 – 2 is expected.*  *For the PoC level, TRL 3 is expected.*  *(Max 100 words) Chose most appropriate TRL level from* ***Annexure 1*** |  |
| **Feasibility of Idea/PoC solution (SMART)**  *(Check the appropriateness of the Idea/PoC)*  *(Max 50 words for each from a-e)* | |
| **(a) Specific-** Specify the features of Innovative Idea/PoC. |  |
| **(b) Measurable-** Mention the approach to convert idea/PoC to Prototype/Innovation with milestones. |  |
| **(c) Attainable-** Explain how you are going to achieve the prototype development objective with the available resources at your disposal. |  |
| **(d) Realistic-** what kind of skillset of team and resources are required to achieve the goal in specific time period? |  |
| **(e) Timeline-** Develop a timeline against the milestones for taking Idea/PoC to Prototype Development and (or) Commercial level/start-up stage. |  |
| **Applicability of Solution**  (Max 50 words for each from a-e) | |
| **(a) Usability:** what is the usability of your innovation. (Level of acceptance of innovation and its Features among target group) |  |
| **(b) Scalability:** how your innovation will be scalable at market level. |  |
| **(c) Economic sustainability:** Explain the potential of innovation to become profitable or financially viable. |  |
| **(d) Environment Sustainability:** How your innovation is environment friendly or address environmental problems. |  |
| **(e)** Is there any Intellectual Property (IP) Component associated with innovation? if yes, explain. |  |
|  | |
| Define the potential market size (in terms of INR) and target customers.  *(Max 100 words)* |  |

## Annexure 1

**Themes:**

1. Healthcare & Biomedical devices
2. Agriculture & Rural Development
3. Smart Vehicles/ Electric vehicle/ Electric vehicle motor and battery technology.
4. Food Processing.
5. Robotics and Drones.
6. Waste management.
7. Clean & Potable water.
8. Renewable and Affordable Energy.
9. IoT-based technologies (e.g. Security & Surveillance systems etc)
10. ICT, cyber-physical systems, Blockchain, Cognitive computing, Cloud computing, AI & ML

**9 stages of TRL:**

* TRL 0: Idea. Unproven concept, no testing has been performed.
* TRL 1: Basic research. Principles postulated observed but no experimental proof is available.
* TRL 2: Technology formulation. The concept and application have been formulated.
* TRL 3: Applied research. First laboratory tests completed; proof of concept.
* TRL 4: Small-scale prototype built in a laboratory environment ("ugly" prototype).
* TRL 5: Large-scale prototype tested in the intended environment.
* TRL 6: Prototype system tested in an intended environment close to expected performance.
* TRL 7: Demonstration system operating in the operational environment at a pre-commercial scale.
* TRL 8: First of a kind commercial system. Manufacturing issues solved.
* TRL 9: Full commercial application, the technology available for consumers.

For any Query:

Write us at email: [info@ecellsakec.in](mailto:info@ecellsakec.in) with email subject line: “***Project Pillar 2022 Query***”