



**Institution's Innovation Council**  
**MoE's Innovation Cell**  
**YUKTI National Innovation Repository**  
**Innovation / Prototype Submission Form**

S.No	Field Name	Description
1	<b>*Title</b>	20 Words Maximum
2	<b>*Developed as part of</b>	<b>Select appropriate option from the dropdown:</b>  -Academic Requirement/Study Project -Academic Research Assignment/Industry Sponsored Project -Independent Assignment/Non-academic Study Project
3	<b>*Choose the Financial Year, during the Idea-PoC/Innovation Developed</b>	<b>Select appropriate option from the dropdown:</b>  -2019-20 -2020-21 -2021-22
4	<b>*Sector / Domain</b>	<b>Select one or more appropriate option from the dropdown:</b> -Healthcare & Biomedical devices. -Agriculture & Rural Development. -Smart Vehicles/ Electric vehicle/ Electric vehicle motor and battery technology. -Food Processing/Nutrition/Biotech -Robotics and Drones. -Waste Management/Waste to Wealth Creation -Clean & Potable water. -Renewable and affordable Energy. -IoT based technologies (e.g. Security & Surveillance systems etc.) -ICT, cyber-physical systems, Blockchain, Cognitive computing, Cloud computing, AI & ML. -Other Emerging Areas Innovation for Start-up -Software - Mobile App Development -Software - Web App Development -Travel & Tourism -Finance Life Sciences -Smart Education -Smart Cities -Sports & Fitness -Smart Textiles -Sustainable Environment -Infrastructure -Manufacturing -Defence & Security -Mining, Metals, Materials -Consumer Goods and Retail -Fashion and Textiles -Education



5	*Innovation Type	<p><b>Select appropriate option from the dropdown:</b></p> <ul style="list-style-type: none"> <li>-Product</li> <li>-Process</li> <li>-Service</li> <li>-Market Place</li> <li>-Business/Management Innovation</li> </ul>
6	*Development Stage - Technology Maturity of the Solution/Innovation in terms of Technology Readiness Level TRL	<p><b>Select appropriate option from the dropdown:</b></p> <p><b>TRL 4:</b> Small scale prototype built in a laboratory environment ("ugly" prototype)  <b>TRL 5:</b> Large scale prototype tested in intended environment  <b>TRL 6:</b> Prototype system tested in intended environment close to expected performance  <b>TRL 7:</b> Demonstration system operating in operational environment at pre-commercial scale  <b>TRL 8:</b> First of a kind commercial system. Manufacturing issues solved  <b>TRL 9:</b> Full commercial application, technology available for consumers</p>
7	Development Stage - Manufacturing Maturity of the Solution/Innovation in terms of Manufacturing Readiness Level	<p><b>Select appropriate option from the dropdown:</b></p> <p><b>MRL 1:</b> Basic manufacturing implications identified  <b>MRL 2:</b> Manufacturing concepts identified  <b>MRL 3:</b> Manufacturing proof of concept developed  <b>MRL 4:</b> Capability to produce the technology in a laboratory environment  <b>MRL 5:</b> Capability to produce prototype components in a production relevant environment  <b>MRL 6:</b> Capability to produce a prototype system or subsystem in a production relevant environment  <b>MRL 7:</b> Capability to produce systems, subsystems or components in a production representative environment.  <b>MRL 8:</b> Pilot line capability demonstrated. Ready to begin low rate production.  <b>MRL 9:</b> Low rate production demonstrated. Capability in place to begin Full Rate Production.  <b>MRL 10:</b> Full rate production demonstrated and lean production practices in place.</p>
8	Development Stage: Investment Readiness Level of the Solution/Innovation (IRL)	<p><b>Select one from the dropdown:</b></p> <p><b>IRL 1:</b> Basic Research (Need Identification &amp; Peer Review Publications) &amp; Completed First-Pass Business Model Canvas (BMC)  <b>IRL 2:</b> Applied Research (Market Size and Competitive Analysis) &amp; Business Plan – Value Proposition &amp; IP Identification  <b>IRL 3:</b> Validate Problem - Solution Fit (Confirmed Value Proposition &amp; Techno-Economic Analysis) &amp; Minimum Product Cost (Maturity of Core Technology)  <b>IRL 4:</b> Prototype Low-Fidelity Minimum Viable Product (MVP): "Low-fidelity" - A representative of the component or system that has limited ability to provide anything but initial information about the end product.  <b>IRL 5:</b> Validate Product-Market Fit (Integrated Validation of the Minimum Viable Process and Process Engineering). "High-fidelity" - A high-fidelity laboratory environment would involve testing with</p>



		<p>equipment that can simulate and validate all system specifications within a laboratory setting.</p> <p><b>IRL 6:</b> Validate Business/Revenue Model: Integrated Pilot Development– understanding operational nuances</p> <p><b>IRL 7:</b> Prototype High Fidelity MVP: Integrated Pilot Continuous Operation</p> <p><b>IRL 8:</b> Pre-Commercial Demonstration – Operating Conditions and quality stabilized</p> <p><b>IRL 9:</b> Full Commercial Development – A full time process engineering staff.....</p>
9	<b>*Define the problem and its relevance to today's market / society / industry need.</b>	Max: 100 Words
10	<b>Describe the Solution / Proposed / Developed</b>	Max: 100 Words
11	<b>*Explain the uniqueness and distinctive features of the (product / process / service) solution.</b>	Max: 100 Words
12	<b>*How your proposed / developed (product / process / service) solution is different from similar kind of product by the competitors if any</b>	Max: 100 Words
13	<b>*Is there any IP or Patentable Component associated with the Solution?</b>	<p>YES / NO</p> <p>If YES, *Upload the Copy of IP/Patent Applied or Obtained: (JPG, PNG max 2 MB)</p>
14	<b>*Has the Solution Received any Innovation Grant/Seed fund Support?</b>	<p>YES / NO</p> <p>If YES</p> <p>*Mention the total grant fund amount (Rs.) Received from various sources</p> <p>*Mention the grant fund amount (Rs.) Received from Institute/Incubation Unit</p>
15	<b>*Are there any Recognitions (National/International) Obtained by the Solution?</b>	<p>YES / NO</p> <p>If YES, Upload the Copy of Latest Achievement: (JPG, PNG max 2 MB)</p>
16	<b>*Is the Solution Commercialized either through Technology Transfer or Enterprise Development/Start-up?</b>	<p>YES / NO</p> <p>If YES, *Upload the Registration Copy of Start-up / Enterprise Upload Photograph: (JPG, PNG max 2 MB)</p>
17	<b>*Had the Solution Received any Pre-Incubation/Incubation Support?</b>	<p>YES / NO</p> <p>If YES, *Mention the Pre-Incubation / Incubation Unit Name</p>
18	<b>Video</b>	URL
19	<b>Upload Photograph:</b>	(JPG / PNG : max 2 MB)



20	<b>*Utility: Highlight the utility/value proposition (key benefits) aspects of the solution/innovation*</b>	Max: 100 Words
21	<b>*Scalability: Highlight the market potential aspects of the Solution/Innovation (Potential Market Size, segmentation and Target users/customers etc.)</b>	Max: 100 Words
22	<b>*Economic Sustainability: Highlight commercialisation/business application aspects of the solution (how it is going to economic profitable and viable)</b>	Max: 100 Words
23	<b>*Environmental Sustainability: Highlight environmental friendliness aspects and related benefit of the solution/innovation</b>	Max: 100 Words

**NOTE:**

Once your Idea/Poc is submitted, then Team leader can add the Team Members and Mentor details.

**Evaluation Criteria for Innovation/Prototype Submission**

S.No	Evaluation Parameter	Maximum Marks
1	Achieving Fit: Problem – Solution Fit (Appropriate and adequacy of the solution to meet the problem)?	20
2	Quality Features and Uniqueness of the Solution/Innovation (Intellectual Property/Distinctive Features of the Solution)?	20
3	Achieving Fit: Product - Market Fit (Technology Readiness level (TRL) and Manufacturing Readiness Level (MRL) of the innovative solution)?	20
4	Feasibility of the Solution/Innovation (SMART: Specific, Measurable, Attainable, Realistic, Timeline)?	20
5	Applicability of the Solution/Innovation (Usability, Scalability, Economic and Environment Sustainability)?	20