





Institution's Innovation Council MHRD's Innovation Cell, AICTE

Idea Submission Form

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

Team Details	Team Lea	d:							
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	Add more fields if required								
	Institute Name and Address: C K COLLEGE OF ENGINEERING AND						G AND		
	TECHNO				OVALIC				
					NIOH.				
Name of the Io		f	Vehicle management and routing						
Concept (PoC))		/h /!	•	- CUDD I				
			(Min	IST	ry of HRD In	Itia	tive)		
Theme			Conset Validad/Elastria and interference 11.1						
			 Smart Vehicles/ Electric vehicle / Electric vehicle motor and battery technology. 						
			• IoT based techno	logie	es (e.g. Security & Surv	eillan	ice systems etc)		
			Chose most appropriate th	eme ((max 2) from Annexure 1				
Define the problem &			Emergency vehicles like Ambulance. Fire engine needs fast access to the						
relevance to today's			destination. The increased number of vehicles causes delay to these vehicles.						
market/society/industry need (Max 100 words)			The normal vehicles also need assistance for proper driving and parking.						
Propose the solution to Problem Identified (Max 100 words)			By connecting all the vehicles in a system that manages the traffic and clears way						
			for emergency vehicles by instructing when to slow down and where to stop the other vehicles.						
			onto venicles.						
Describe the nr	oduct/proces	se/ W	Then the vehicle is started	the cr	rrent location of the vehi	cle is i	undated onto the server and		
Describe the product/process/ service and write how it is			When the vehicle is started the current location of the vehicle is updated onto the server and it asks for the destination.						
innovative / unique. (Max 100			After getting the destination it marks it into the map and calculates the path.						
words)			The server also considers the other vehicles which are on the same path and instructs each vehicle carefully.						
		If	any emergency vehicles n			all oth	ner vehicles to slow down		
			he speed and give way to the			othor	through Wifi or Divotooth		
			ne nearby venicies can exc	nang	e informations with each	outer	through Wifi or Bluetooth.		







How is your proposed product/ process/service being different/ better from a similar product/ process/ service, if any, in the market (Max 100 words)	By this concept each vehicle can share information about their destination. So the way can be managed efficiently.				
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	TRL 0 : Idea. Unproven concept, no testing has been performed.				
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.	Instruct every vehicle in the road. Calculate best possible way for reaching the destination.				
(b) Measurable- Mention the approach to convert idea/PoC to Prototype/Innovation with milestones.	Creating centralized server Create required number of clients program. Accessing GPS of the client and upload it to the server.				
(c) Attainable- Explain how you are going to achieve the prototype development objective with the available resources at your disposal.	Creating one main server and required number of clients programs. Clients have to import their location and other details into the server. The server calculates the way and returns it to the client.				
(d) Realistic- what kind of skillset of team and resources required to achieve the goal in specific time period?	Knowledge on IOT, Google maps API, Android Studio.				







(e) Timeline- Develop a	Two Months
timeline against the	
milestones for taking	
Idea/PoC to Prototype	
Development and (or)	
Commercial level/start-up	
stage.	
	Applicability of Solution 10 Marks (Max 50 words for each from a-e)
	In few years all vehicles can be Smart and capable of connecting with each other
(a) Usability: what is the	and the traffic management system.
	It can be used to provide fast access to the emergency vehicles.
usability of your innovation.	Management of traffic in large cities can be done easily with this method.
(Level of acceptance of innovation and its Features among target	ividing efficient of traffic in large cities can be done easily with this method.
0 0	
group)	
4) 6 1 1 24 1	
(b) Scalability: how your	The concept is largely depends on the software side. So it is easily scalable.
innovation will be scalable at	
market level.	
(c) Economic	It costs less compared to the other items used in the vehicles.
sustainability: Explain the	Almost all vehicles come with onboard processor and GPS and Wifi it is no more
¥ ±	need any other components. So it costs very less.
potential of innovation to	
become profitable or	INNOVATION
financially viable.	INITOVALION
(d) Environment	It not affects environment.
Sustainability: How your	t not uncers on monators.
innovation is environment	(Ministry of HRD Initiative)
	(Ministry of Fixe initiative)
friendly or address	
environmental problems.	
(e) Is there any Intellectual	No
Property (IP) Component	
associated with innovation? if	
yes, explain.	
Define the potential market	As the community needs better management for traffic and fast access to the
size (in terms of INR) and	emergency vehicles, the market is very huge.
target customers.	We can target all types of vehicles including cars, vans, buses, etc.
(Max 100 words)	The same and the same of the s
(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, Block chain, 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 available. TRL 2
- : Technology formulation. 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 intended environment.
- TRL 6: Prototype system tested in intended environment close to expected performance. TRL 7:

Demonstration system operating in operational environment at pre-commercial scale. TRL 8 : First of a kind commercial system. Manufacturing issues solved.

TRL 9: Full commercial application, technology available for consumers.

For any Query:

Write us at email: <u>iic.mhrd@aicte-india.org</u> with email subject line: "*Innovation Contest 2020 Query*"