



**Ministry of  
Education**  
Government of India



**MoE's  
INNOVATION CELL**  
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(Ministry of Education Initiative)



**A**  
**REPORT on**  
**Prelim Round of “MSME Ideathon 2.0-2022”**  
**19<sup>th</sup> November, 2022**



**MSME**  
MICRO, SMALL & MEDIUM ENTERPRISES  
सूक्ष्म, लघु एवं मध्यम उद्यम  
OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India

**Organized by**  
**SKIT Incubation Cell “SRIJAN”**  
**Swami Keshvanand Institute of Technology,**  
**Management & Gramothan, Jaipur**

**Submitted by**  
**Mr. Ajay Kumar Dhanopia**  
**Coordinator – Incubation Cell**



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**Approval Letter of Event**

## REQUEST NOTE

To,  
The Director (Academics),  
SKIT, Jaipur

17<sup>th</sup> Nov. 2022

Subject: Approval for organizing MSME Idea Hackathon 2.0 **Internal Evaluation Round-2022**

Respected Sir,

Ministry of MSME has launched "MSME Idea Hackathon 2.0" (Theme based) under MSME Innovative Scheme (Incubation component) on 2<sup>nd</sup> October, 2022 by Hon'ble Minister of MSME and Minister of State (MSME) on the occasion of Gandhi Jayanthi. Our institute is recognized as a Host Institute under the MSME Innovative Scheme of Ministry of MSME. It's a non-stop product development process, where certain problem statements are given to the students for finding innovative solutions. We are pleased to inform you that a total number of sixty-two idea proposals have been received in the software & hardware category at Rajasthan Level as per annexure-1. In order to evaluate the teams for MSME Idea Hackathon 2.0, SKIT Incubation Cell organizes an internal evaluation round in offline mode on 19<sup>th</sup> Nov, 2022 as per annexure - 2.

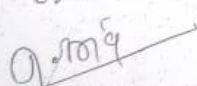
Sir, we are looking for approval of Rs. 8000/- for Judge's food facility & Remuneration by the following details:

S. No.	Beneficiary Name	Designation	Organization	Amount (Rs.)
1	Krishan Kumar	R&D Manager	NESSCO India Ltd.	4000/-
2	Atul Kumar	Manager-Operations	NESSCO India Ltd.	4000/-

Kindly provide us permission for organizing this event.

Department Coordinators: Dr. Neelam Choudhary – Assoc. Prof. (CSE Deptt.)  
Dr. Amit Jhalani – Asst. Prof. (ME Deptt.)

Thanking you

  
Mr. Ajay Kumar Dhanopia  
Coordinator – Incubation Cell

Copy to : Dean

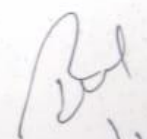
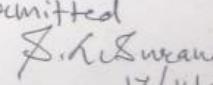
Head OFA

Head OSA

Shri Pradeep Sihag, Hostel Manager

Shri Jagdish Ji, House Manager

Shri Mukesh Kumar Ji, Mess Manager

  
30/11/2022  
Permitted  
  
17/11/22

**Event Poster**



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GOVERNMENT OF INDIA  
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

## Ministry of Micro, Small & Medium Enterprises invites you to join

# MSME IDEA HACKATHON 2.0

**From: 02.10.2022 to 14.11.2022**

### Features

-  Submit Ideas/Innovations
-  Get Validation at Proposal Under Consideration Stage
-  Receive Financial assistance upto Rs 15 Lakh per approved idea

### Themes for submission of Ideas/Innovations

- Digital Agriculture
- Potable Water Solutions
- Organic Composting
- Disaster Management
- E-Festival
- E- Vehicles
- Cloud Computing
- Sustainable Fashion
- Supply Chain Management Solutions
- Eco-friendly & Sustainable furniture
- Safety in Transportation & Industry
- Alternative Material for Single Use Plastic
- Low-cost Indigenous Digital Healthcare System
- AVGC (Animation, Visual, Gaming & Comics)
- Waste to Wealth Creation, Circular Solutions & Waste Management

**To participate and know more, Scan the QR Code  
or  
Visit the website: [innovative.msme.gov.in](http://innovative.msme.gov.in)**



**Event Coordinators : Dr.Nilam Choudhary – Deptt. of CSE**

**Dr.Amit Jhalani – Deptt. of ME**



## Schedule of the Event

### MSME IDEA HACKATHON 2.0 PROJECT SUBMISSION DETAILS

**Category :Software Session 2 (Venue Incubation Cell)**

**Time: 9:00 Am onwards**

S.No.	Name of Faculty/Student	Reference No.	Faculty/Student	Deptt.	Institute Name	Idea Theme
1	Suman Sharma	INC22BRJ005341	Faculty	EE	SKIT, Jaipur	E-vehicles
2	Dr. Sanwta Ram Dogiwal	INC22BRJ005387	Faculty	IT	SKIT, Jaipur	Low-cost Indigenous Digital Healthcare System
3	Deveshwar Singh Rajawat	INC22BRJ005427	Student	CSE	SKIT, Jaipur	Supply Chain Management Solutions
4	Dr. Pankaj Dadheech	INC22BRJ005440	Faculty	CSE	SKIT, Jaipur	Low-cost Indigenous Digital Healthcare System
5	Ankit Agarwal	INC22BRJ005512	Faculty	ECE	SKIT, Jaipur	Low-cost Indigenous Digital Healthcare System
6	Pooja Choudhary	INC22BRJ005513	Faculty	ECE	SKIT, Jaipur	Digital Agriculture
7	Vaibhav Bairathi	INC22BRJ005694	Faculty	CSE	SKIT, Jaipur	AVGC (Animation, Visual, Gaming, Comics)
8	Manav Manna	INC22BRJ005899	Student	AI V Sem.	SKIT, Jaipur	AVGC (Animation, Visual, Gaming, Comics)
9	Vinay Kanungo	INC22BRJ006501	Faculty	CSE	SKIT, Jaipur	Low-cost Indigenous Digital Healthcare System
10	Yogendra Kumar Gupta	INC22BRJ006736	Faculty	CSE	SKIT, Jaipur	Digital Agriculture
11	Abhishek Gupta	INC22BRJ007192	External	Sr.Consultant	Start-up Oasis	Low-cost Indigenous Digital Healthcare System
12	Rajnish kumar	INC22BRJ007326	Student	EE	SKIT, Jaipur	Cloud Computing
13	Achin Srivastav	INC22BRJ007385	Faculty	ME	SKIT, Jaipur	Supply Chain Management Solutions
14	Pooja Roy	INC22BRJ008018	External	Sr.Consultant	Root Logistics	Supply Chain Management Solutions
15	Rajat Goyal	INC22BRJ007998	Faculty	CSE	SKIT, Jaipur	Supply Chain Management Solutions
16	Manan Singh Jain	INC22BRJ008417	Student	CSE III Sem	SKIT, Jaipur	AVGC (Animation, Visual, Gaming, Comics)
17	Bhavya Goyal	INC22BRJ008654	Student		SKIT, Jaipur	E-Festival
18	Pooja Roy	INC22BRJ007733	External	Sr.Consultant	Root Logistics	Safety in Transportation & Industry
19	Ankit Sharma	INC22BRJ009067	Student	IT V Sem.	SKIT, Jaipur	Disaster Management
20	Richa Rawal	INC22BRJ009159	Faculty	IT	SKIT, Jaipur	Safety in Transportation & Industry
21	Priyanka Sharma	INC22BRJ010186	Faculty	CSE	SKIT, Jaipur	Digital Agriculture

22	Abhishek Sharma	INC22BRJ013440	Student	CSE III Sem	SKIT, Jaipur	Supply Chain Management Solutions
23	Praveen Yadav	INC22BRJ009988	Faculty	CSE III Sem	SKIT, Jaipur	Cloud Computing
24	Surbhi Sharma	INC22BRJ009949	Faculty	IT	SKIT, Jaipur	Cloud Computing
25	Shobhit Khandelwal	INC22BRJ013146	Student	CSE	SKIT, Jaipur	E-Festival
26	Akshat Khandelwal	INC22BRJ013467	Student	CSE	SKIT, Jaipur	Cloud Computing
27	Sanju Choudhary	INC22BRJ009568	Faculty	CSE	SKIT, Jaipur	Safety in Transportation & Industry
28	Nikhar Bhatnagar	INC22BRJ009898	Faculty	IT	SKIT, Jaipur	Safety in Transportation & Industry
29	Jitesh Meghwanshi	INC22BRJ011730				Supply Chain Management Solutions
30	Tanistha Sharma	INC22BRJ012039	Student	IT III Sem	SKIT, Jaipur	Cloud Computing
31	Ishaan Khandelwal	INC22BRJ010479	Student		SKIT, Jaipur	Supply Chain Management Solutions
32	MANOJ DIXIT	INC22BRJ015224				Digital Agriculture
33	Kanak Singhal	INC22BRJ013750	Student	ECE V Sem.	SKIT, Jaipur	Eco-friendly & Sustainable furniture

**Category : Hardware Session 2 (Venue : Seminar Hall ME Block)Time: 9:00 Am onwards**

S.No.	Name of Faculty/Student	Reference No.	Faculty/Student	Deptt.	Institute Name	Idea Theme
1	Ankit Vijayvargiya	INC22BRJ005286	Faculty	EE	SKIT, Jaipur	Low-cost Indigenous Digital Healthcare System
2	Dinesh Kumar	INC22BRJ005358	Faculty	ECE	SKIT, Jaipur	E-vehicles
3	Puneet Dadhich	INC22BRJ005679	Student	CE	SKIT, Jaipur	Safety in Transportation & Industry
4	Pawan Patidar	INC22BRJ006356	Faculty	CE	SKIT, Jaipur	Waste to Wealth creation, Circular solutions & waste management
5	Abhijeet Agarwal	INC22BRJ006361	Student	ECE	SKIT, Jaipur	E-vehicles
6	Aditya Rawat	INC22BRJ006393	Student	ECE	SKIT, Jaipur	E-Festival



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7	Manoj Kumar Sain	INC22BRJ006498	Faculty	ME	SKIT, Jaipur	Safety in Transportation & Industry
8	Dr. Vikash Gautam	INC22BRJ006507	Faculty	ME	SKIT, Jaipur	Waste to Wealth creation, Circular solutions & waste management
9	Ajay Dhanopia	INC22BRJ007299	Faculty	ME	SKIT, Jaipur	Waste to Wealth creation, Circular solutions & waste management
10	Dinesh Kumar Sharma	INC22BRJ007501	Faculty	ME	SKIT, Jaipur	Digital Agriculture
11	Pooja Roy	INC22BRJ007891	External	Sr.Consultant	Root Logistics	Low-cost Indigenous Digital Healthcare System
12	Rahul jangir	INC22BRJ008475	External	Founder	RJ Motors	E-vehicles
13	Dilip Singh Rawat	INC22BRJ009239	Student	MBA 3rd Sem	SKIT, Jaipur	E-vehicles
14	Babu Lal Gena	INC22BRJ009261	MSME	Industry	Raghav Renewavale Energy	Supply Chain Management Solutions
15	Mohit Soni	INC22BRJ009825	Student	EE V Sem.	SKIT, Jaipur	Portable Water Solutions
16	Tanistha Sharma	INC22BRJ011971	Student	IT III Sem.	SKIT, Jaipur	Safety in Transportation & Industry
17	Kanak Singhal	INC22BRJ011290	Student	ECE V Sem.	SKIT, Jaipur	Waste to Wealth creation, Circular solutions & waste management
18	Pramod Jain	INC22BRJ013700	Faculty	ME	SKIT, Jaipur	Digital Agriculture
19	Baibhav Bishal	INC22BRJ011550	Faculty	EE	SKIT, Jaipur	Safety in Transportation & Industry
20	Sarfaraz Nawaz	INC22BRJ009993	Faculty	EE	SKIT, Jaipur	Cloud Computing
21	Pankaj Nagar	INC22BRJ011267	Student	Alumni EE	SKIT, Jaipur	Waste to Wealth creation, Circular solutions & waste management
22	Abraham David Solomon	INC22BRJ012200				E-vehicles
23	Ashish Nayyar	INC22BRJ010638	Faculty	ME	SKIT, Jaipur	Eco-friendly & Sustainable furniture



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24	Praveen Saraswat	INC22BRJ009997	Faculty	ME	SKIT, Jaipur	Waste to Wealth creation, Circular solutions & waste management
25	Saurabh Singh Jat	INC22BRJ013286	Student	ECE	SKIT, Jaipur	Digital Agriculture
26	Pramod Jain	INC22BRJ013046	Faculty	ME	SKIT, Jaipur	Disaster Management
27	Naveen Kumar Sain	INC22BRJ015490	Faculty	ME	SKIT, Jaipur	Sustainable fashion
28	Vikash Kumar	INC22BRJ016690	External		Kota, Rajasthan	Eco-friendly & Sustainable furniture

**Judges Invitation Letters**





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SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & GRAMOTHAN, JAGATPURA, JAIPUR



Incubation Cell "SRIJAN", SKIT, Jaipur

Internal Prelim Round  
For  
MSME IDEA Hackathan 2.0 -2022  
On  
12<sup>th</sup> October 2022 from 10:00 am onwards

**INVITATION**

Shri Avindra Laddha Ji,  
(Director)  
Kamtech Associates Private Limited  
Jaipur, Raj.

Sir,

We acknowledged that SKIT has been approved as a Host Institute for incubation activities and next, are expected more than **30 ideas** for funding under "**MSME Ideathon 2022**". We need to evaluate good **ideas** at the Institute Level for further process in consultation with the team of Industry Experts, Startups Experts, and Finance experts. A virtual mode presentation session is schedule evaluate all ideas submitted on **Wednesday 12<sup>th</sup> October, 2022 from 10:00 am onwards**. Noting your expertise on the said contest, we are pleased to invite you to as one of the JUDGES. We hope to see you at the **MSME IDEATHON 2.0 2022**.

Thank you very much as we anticipate for your support.

Mr. Ajay Dhanopia  
Coordinator Incubation Cell  
MSME IDEA HACKATHON 2022



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**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & GRAMOTHAN, JAGATPURA, JAIPUR**



**Incubation Cell "SRIJAN", SKIT, Jaipur**

**Internal Prelim Round**

**For**

**MSME IDEA Hackathan 2.0 -2022**

**On**

**12<sup>th</sup> October 2022 from 10:00 am onwards**

**INVITATION**

Shri Sudhir Gupta Ji,  
Consultant,  
Ex. Scientist, BARC Mumbai

Sir,

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Thank you very much as we anticipate for your support.

Mr. Ajay Dhanopia  
Coordinator Incubation Cell  
MSME IDEA HACKATHON 2022

📍: RAMNAGARIA (JAGATPURA), JAIPUR-302017 (RAJASTHAN), INDIA 📞:

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✉️info@skit.ac.in | : www.skit.ac.in



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SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,  
MANAGEMENT & GRAMOTHAN, JAGATPURA, JAIPUR



Incubation Cell "SRIJAN", SKIT, Jaipur

Internal Prelim Round

For

MSME IDEA Hackathan 2.0 -2022

On

12<sup>th</sup> October 2022 from 10:00 am onwards

**INVITATION**

Shri Umesh Agarwal Ji,  
Director-CIIES,

Sir,

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Mr. Ajay Dhanopia  
Coordinator Incubation Cell  
MSME IDEA HACKATHON 2022

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+91-141-5160400, 2752165, 2759609 | 📠 : 0141-2759555  
✉️: info@skit.ac.in | 🌐 : www.skit.ac.in





# Swami Keshvanand Institute of Technology, Management & Gramothan

(Accredited by NAAC with 'A++' Grade)

Approved by AICTE, Ministry of Education, Government of India  
Recognized by UGC under Section 2 (f) of the UGC Act, 1956  
Affiliated to Rajasthan Technical University, Kota

Letter/File No. SKIT/2022/361 A

Date: 19/11/2022

## MSME Idea Hackathon 2.0

### **Constitution of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Screening & Evaluation Committee**

A committee comprising of the following members from different expert areas is constituted to evaluate and shortlist the potential ideas received in MSME Idea Hackathon 2.0 (as per the guidelines of MSME Innovative Scheme and guidelines for participation in MSME Idea Hackathon 2.0 & mandate) organized between 2<sup>nd</sup> October 2022 – 14<sup>th</sup> November 2022 by Ministry of MSME for further uploading on the MSME Innovative MIS Portal.

S. No.	Expert Category (Entrepreneur, Academician, Sector Expert, Tech. Expert....)	Name, Designation & Organization
1.	Tech Expert	Krishan Kumar, R&D Manager, NEESCO India Ltd.
2.	Tech Expert	Atul Kumar, Manager-Operations, NEESCO India Ltd.
3.	Entrepreneur	Gaurav Sharma, Chief Executive Officer, Atal Community & Innovation Centre, VGU, Jaipur
4.	Sector Expert	Rakesh Rao, Mentor & Consultant, i-start, Deptt. of ICT Raj.Govt.
5.	Academician	Vinay Singh Marwal, Associate Professor, Deptt. of ME, SKIT, Jaipur
6	Academician	Dinesh Kumar, Asst. Professor, Department of ECE, SKIT, Jaipur

(Dr. Ramesh Kumar Pachar)

Principal

(Signature of the Head of the Institute)

PRINCIPAL

Swami Keshvanand Institute of Technology,  
Management and Gramothan  
Ramnagar (Jagatpura), Jaipur-302017



## Judges Details



# Swami Keshvanand Institute of Technology, Management & Gramothan

(Accredited by NAAC with 'A++' Grade)

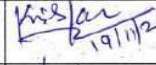
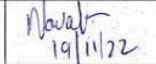
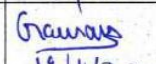
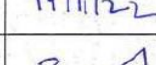

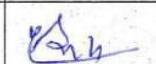
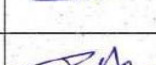
Approved by AICTE, Ministry of Education, Government of India

Recognized by UGC under Section 2 (f) of the UGC Act, 1956

Affiliated to Rajasthan Technical University, Kota

**Subject: Minutes of the Meeting of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Screening & Evaluation Committee for shortlisting of Ideas received under MSME Idea Hackathon 2.0**

A meeting was held on 19 Nov. 2022 at 9:00 a.m. onwards at SKIT Incubation Cell with the following members constituting the Screening & Evaluation Committee at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur for shortlisting of Ideas received under MSME Idea Hackathon 2.0.

S. No.	Expert Category (Entrepreneur, Academician, Sector Expert, Tech. Expert, etc.) & Representative from Host Institute (Head, BI Incharge, etc.)	Name, Designation Organization	& Signature
1.	Tech Expert - Hardware	Krishan Kumar, R&D Manager, NEESCO India Ltd.	
2.	Tech Expert - Software	Atul Kumar, Manager-Operations, NEESCO India Ltd.	
3.	Entrepreneur	Gaurav Sharma, Chief Executive Officer, Atal Community & Innovation Centre, VGU, Jaipur	
4.	Sector Expert	Rakesh Rao, Mentor & Consultant, i-start, Deptt. of ICT Raj. Govt.	
5.	Academician	Vinay Singh Marwal, Associate Professor, Deptt. of ME, SKIT, Jaipur	
6.	Academician	Dinesh Kumar, Asst. Professor, Department of ECE, SKIT, Jaipur	
7.	Business Incubator	Ajay Kumar Dhanopia, Associate Prof., Deptt. of ME, SKIT, Jaipur Host Institute MSME New Delhi	

Signature of Head of the Institute

&

Signature of Business Incubator

Swami Keshvanand Institute of  
Technology Management & Gramothan

Stamp  
Business Incubator

Stamp  
PRINCIPAL

Swami Keshvanand Institute of Technology  
Management and Gramothan  
Ramnagar (Jagatpura), Jaipur-302017



**Participants List: Details of all ideas received at HI Level in MSME Idea Hackathon 2.0 as per the following Format.**

S.No.	Reference No.	Title of Idea
1	INC22BRJ005286	Lower Limb Movement Recognition utilizing EEG and EMG signals for Rehabilitative Robotics
2	INC22BRJ005341	Visualizing to Design Zero Net Energy (ZNE) SKIT Campus
3	INC22BRJ005358	IoT-Based impertinent Electric vehicles battery management system to avoid battery explosion
4	INC22BRJ005387	Data Augmentation strategies for Cancer Detection with a Deep Convolutional Neural Network
5	INC22BRJ005427	Offerrush
6	INC22BRJ005440	IoT enabled Smart Cradle for Child Healthcare
7	INC22BRJ005512	AI-IoT Based Portable Health Monitoring Device
8	INC22BRJ005513	CARE AI-IoT enabled Cattle Health and Wellness Monitoring System
9	INC22BRJ005679	3D Concrete Printing
10	INC22BRJ005694	Augmented Classroom using Mixed Reality
11	INC22BRJ005899	Smart Library Management System
12	INC22BRJ006356	Design and Development of Kota stone based Advanced Geopolymeric Materials for Construction
13	INC22BRJ006361	Petrol - Electric Hybrid Two-wheeler
14	INC22BRJ006393	Bi-Directional high frequency inverter and charger

15	INC22BRJ006498	Ergonomic solution for hand arm vibration among handicraft industry workers
16	INC22BRJ006501	Modeling and Numerical Investigation of Plasmonic nano structured devices for SERS based detection of biomolecules
17	INC22BRJ006507	Utilization of Industrial Waste of Stone Industries for Fabrication of Grinding Wheel and its Wear, Mechanical Behavior Analysis
18	INC22BRJ006736	An IoT Empowered Smart Greenhouse for Sustainable Agriculture
19	INC22BRJ007192	GOMEDICX- Virtual Integrated Healthcare Partner
20	INC22BRJ007299	Plastic Pyrolysis Machine
21	INC22BRJ007326	Cloud Based Automation system for control Home Appliances
22	INC22BRJ007385	Design and Development of Expert System for Inventory Classification and Management for small and medium-sized enterprises experiencing Supply Chain disruptions
23	INC22BRJ008018	Global Market(wholesalers and retailers) Quality Control at the highest level Fast Delivery of material Premium Class Packaging
24	INC22BRJ007998	Ghar Prabandh
25	INC22BRJ008417	The New Age Cassino
26	INC22BRJ007501	Ksheer Digital Milk Adulteration Test Kit
27	INC22BRJ008654	An innovative get together for technical knowledge and skills

28	INC22BRJ007891	Scientifically Pest Control Management
29	INC22BRJ008475	Multipurpose Electric vehicle
30	INC22BRJ007733	ROOT LOGISTICS
31	INC22BRJ009067	Smart and cost-effective system to communicate affected people in disasters.
32	INC22BRJ009239	FUTURE OF E VEHICLE
33	INC22BRJ009159	Smart Cab Driver Helping Application
34	INC22BRJ009261	Raghav Renewavale Energy
35	INC22BRJ009825	Solar Water Desalinators and Purifier Machine
36	INC22BRJ011971	Elecsa(Energy harvesting from noise)
37	INC22BRJ011290	Biodegradable Plastic
38	INC22BRJ013700	Design and development of low cost smart harvester for different crops
39	INC22BRJ011550	Weather friendly Helmet
40	INC22BRJ009993	Smart Ignition and Surveillance Device for Motor Vehicles
41	INC22BRJ011267	Eco-friendly, Smart and Renewable Power Solution in Solar Energy
42	INC22BRJ012200	Regenerative Dampener
43	INC22BRJ010186	An innovative method for estimating crop yields before harvesting

44	INC22BRJ013440	MOMS KITCHEN
45	INC22BRJ009988	IoT VR enabled e-Learning System for Higher Education
46	INC22BRJ010638	Smart Eco-friendly and Sustainable furniture materials
47	INC22BRJ009997	Development of Smart Bin with Self-Sealing and Self-Changing
48	INC22BRJ013286	BioBot Vertical Farming AI Robot
49	INC22BRJ013046	Design and Fabrication of optimum escape system during natural and man made disaster
50	INC22BRJ009949	AI based Personalized Electronic Gadgets Recommendation System using IOT
51	INC22BRJ013146	Event planner and management
52	INC22BRJ013467	Tech Vector Volume
53	INC22BRJ009568	Analabour-Enhancing Indian labouring system
54	INC22BRJ009898	Automated Traffic Monitoring system based on Artificial Intelligence
55	INC22BRJ011730	Hyper Local Courier Aggregator
56	INC22BRJ012039	MARE(Parent child platform)
57	INC22BRJ010479	HORECA Supply Chain Solution
58	INC22BRJ015490	Design of Collapsible Perambulator Cum Grocery Cart
59	INC22BRJ016690	ENVIRONMENT RELATED
60	INC22BRJ015224	URMIDWAR Livestock Care System



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61	INC22BRJ013750	Smart Dustbins and smart managaement system
62	INC22BRJ017568	Smart drone management for surveillance during disaster
63	INC22BRJ018677	Unmanned Resupply Hovercraft Drone (3 in 1) for Disaster Rescue Management



**Recommended/Not Recommended Ideas : Details of the final recommended & not recommended Ideas at HI Level in MSME Idea Hackathon 2.0 as per the following Format.**

S.No.	Reference No.	Title of Idea	Final Decision (Recommended/Not Recommended)	Proper Justification for final decision
1.	INC22BRJ005341	Visualizing to Design Zero Net Energy (ZNE) SKIT Campus	Recommended	Good Innovation, Renewable Energy focused social impact, Team members need to more study on terminologies,
2.	INC22BRJ005358	IoT-Based impertinent Electric vehicles battery management system to avoid battery explosion	Recommended	Good Idea for EV Safety for battery life & maintenance check list and cost effective, Need to do more market Research, Commercialization is missing, Go getter mindset is needed Viable solution for Electric Vehicle Technology & safety issues in Electric Vehicle"
3.	INC22BRJ005387	Data Augmentation strategies for Cancer Detection with a Deep Convolutional Neural Network	Recommended	Combination of Medical Science & Neural Network, Good Idea along with Engineering, Medical Sciences study is required.
4.	INC22BRJ005427	Offerrush	Not Recommended	Not applicable due to bootstrapped business model, only business applicability no innovations
5.	INC22BRJ005440	IoT enabled Smart Cradle for Child Healthcare	Recommended	Good idea having business potential, having good social impact

6.	INC22BRJ005512	AI-IoT Based Portable Health Monitoring Device	Recommended	Good Innovative Idea, Business Potential, Social Impact
7.	INC22BRJ005513	CARE AI-IoT enabled Cattle Health and Wellness Monitoring System	Recommended	Good idea having business potential, having good social impact
8	INC22BRJ005679	3D Concrete Printing	Recommended	Great Innovations in Construction Industry, Need more clarification for project & development in Indian Condition Need more study on the project Feasibility and business plan
9.	INC22BRJ006356	Design and Development of Kota stone based Advanced Geopolymeric Materials for Construction	Recommended	Prototype is ready, Need to plan to initiate fund, Goeliminatione elemintation, Has potential to pitch market
10.	INC22BRJ006393	Bi-Directional high frequency inverter and charger	Recommended	Good Innovative idea, uniqueness in the project existing, Still on ground surface, Need more studies about the concept, competitive technologies exists
11.	INC22BRJ006498	Ergonomic solution for hand arm vibration among handicraft industry workers	Not Recommended	Existing solutions are available with tools, not sure for users, Not ready to be tested, required further Research & Development
12.	INC22BRJ006507	Utilization of Industrial Waste of Stone Industries for Fabrication of Grinding Wheel and its Wear, Mechanical Behavior Analysis	Recommended	Good Solution, Yet to conduct more survey, Quality issues for product, study about utilisation of stone waste as grinding media not presented.

13.	INC22BRJ007326	Cloud Based Automation system for control Home Appliances	Not Recommended	Focus on UI stable function with Hardware in online & offline mode, Industrial Home automation, Flexible Manufacturing System
14.	INC22BRJ007385	Design and Development of Expert System for Inventory Classification and Management for small and medium-sized enterprises experiencing Supply Chain disruptions	Recommended	Innovative Idea, Based on available solution in Indian Market, Requirement of SME's, Competitors Zohobooks, Tranzact, Advanced Excel and Absolute ERP.
15.	INC22BRJ009067	Smart and cost-effective system to communicate affected people in disasters.	Not Recommended	Data Base Management & communication with the team, Required more approach to collect data from public
16.	INC22BRJ009159	Smart Cab Driver Helping Application	Not Recommended	Only idea , Mobile app for cab drivers, Not cleared about how to get revenue.
17.	INC22BRJ009825	Solar Water Desalinators and Purifier Machine	Recommended	Unable to explain the product & profit to raise, not a innovative Idea, Unable to explain the product & profit to raise
18.	INC22BRJ013700	Design and development of low cost smart harvester for different crops	Recommended	Prototype is ready, Need improvement at development stage, some design improvement is required.
19.	INC22BRJ011550	Weather friendly Helmet	Not Recommended	Helmet is safety device so need other uses, just the

				idea, product is already exist
20.	INC22BRJ011267	Eco-friendly, Smart and Renewable Power Solution in Solar Energy	Not Recommended	Product market is unclear, unorganized idea, just a idea, statement is not cleared by presenter
21.	INC22BRJ010186	An innovative method for estimating crop yields before harvesting	Not Recommended	Need more focus on data collection and sampling, To be more specific about technology implementation, drone sensor based technology
22.	INC22BRJ013286	BioBot Vertical Farming AI Robot	Recommended	Competitor is already exist, do not required, good idea need to be developed, common use for farmers,
23.	INC22BRJ013046	Design and Fabrication of optimum escape system during natural and man made disaster	Not Recommended	Idea is good but feasibility is question mark,
24.	INC22BRJ009949	AI based Personalized Electronic Gadgets Recommendation System using IOT	Recommended	Good Idea & to be implemented as soon as possible
25.	INC22BRJ013467	Tech Vector Volume	Not Recommended	Edtech, Good presentations skills, study similar industry, companies for comparison,
26.	INC22BRJ009568	Analabour-Enhancing Indian labouring system	Recommended	Design Hardware, Awareness of Industry Embedded Systems, embedded Linux, Custom PCB, Labour Security and

				Safety, Pure Social Impact and innovations
27.	INC22BRJ011730	Hyper Local Courier Aggregator	Not Recommended	Working on hypothesis, local market, Need to accommodate about registrations, Payments, Product like Artisons, Initiate with finding customers to desired products
28.	INC22BRJ010479	HORECA Supply Chain Solution	Recommended	Only market study, no innovations
29.	INC22BRJ015490	Design of Collapsible Perambulator Cum Grocery Cart	Recommended	Good Idea & to be implemented as soon as possible, Good innovative idea
30.	INC22BRJ017568	Smart drone management for surveillance during disaster	Not Recommended	Initial phase, Not sure for probability, required lot of research & development, prototype testing before proving the idea



## Photographs of Event



## Report

### SKIT MSME Idea Hackathon 2.0 – 2022

In line with the vision of the Hon'ble Prime Minister, “Atmanirbhar Bharat”, Entrepreneurs are the basis of social change that India aspires for, and their efforts will lay the foundation for a New India, fill in the gaps in solutions required by the people, and help build the base for constructing the economic structure of a powerful India.

It's the endeavor of the Ministry of Micro, Small, and Medium Enterprises to enable MSMEs and citizens of India to put on their thinking caps and create innovative solutions while looking out for local solutions to the local problems, that could be the generation leap India needs, to transform its social, cultural and economic ecosystem into a world leader.

Theme based Ideas in “MSME Idea Hackathon 2.0” are being invited from Students, Innovators, and MSMEs from all over India under the scheme of the Office of Development Commissioner – Incubation Component of MSME Innovative Scheme under the umbrella of MSME Champions Scheme.

**The applicants shall submit their ideas based on the following themes:**

S. No.	Sector	Themes
1.	Agriculture...	Digital Agriculture
2.	Agriculture...	Organic composting
3.	Health...	Low-cost Indigenous Digital Healthcare System
4.	Health...	Potable Water Solutions
5.	Power/IT...	E-Festival
6.	Power/IT...	E-vehicles
7.	Power/IT...	AVGC (Animation, Visual, Gaming& Comics)
8.	Power/IT...	Cloud Computing
9.	Service...	Supply Chain Management Solutions
10.	Service...	Eco-friendly & Sustainable furniture
11.	Service...	Safety in Transportation & Industry
12.	Service...	Disaster Management
13.	Misc....	Alternative Material for Single Use Plastic (SUP)
14.	Misc....	Sustainable fashion
15.	Misc....	Waste to Wealth creation, Circular solutions & waste management



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## Instructions for Applicants

1. Applicants shall submit each of their idea(s) to only one HI. If applicants submit the same idea to more than one HI, then the idea will be rejected by the Ministry without assigning any reason.
2. In the Application Form, the applicant has the option to choose the Host Institutes (HI) in their respective States/UTs, so that they can make use of facilities available in HI for the development of the idea. In case there is no HI in their State/UT, the applicant may choose the HI of their choice from any other nearby State/UT. This will form the basis of segregating the applications regionally for evaluation and later providing incubation support.
3. The ideas already submitted in the earlier Hackathons should not be submitted again. Such ideas will be rejected.
4. The ideas approved in the earlier Hackathons should not be submitted, such ideas will not be considered.
5. The ideas based on the above-mentioned themes, only have to be submitted.
6. The applicants who are selecting the student category should upload valid current student ID which is valid during the year 2022-23.
7. The applicants are instructed to read MSME Innovative Scheme guidelines at [https://innovative.msme.gov.in/Documents/FinalGuidelines\\_MSME\\_Innovative.pdf](https://innovative.msme.gov.in/Documents/FinalGuidelines_MSME_Innovative.pdf) and the FAQs at [https://innovative.msme.gov.in/Documents/MSME\\_InnovativeFAQ.pdf](https://innovative.msme.gov.in/Documents/MSME_InnovativeFAQ.pdf) thoroughly before submitting the idea.
8. The incubatees of the selected ideas shall develop the idea in the premises of HI chosen by them under the mentorship appointed by HI.
9. No permission shall be given for developing the idea outside the premises of the HI.
10. The incubatees falling under MSME & Other category have to pay 15% of the development cost for the project costs up to Rs. 15 lakhs (and the entire amount over and above Rs. 15 Lakhs of the project cost submitted by them) to HI upfront before receiving the GoI Grant.
11. The Ministry has the right to prune / reduce the project cost as per the decision of the PMAC

The ideas shared by the applicants will undergo two stages of rigorous evaluation at the Host Institute & MoMSME level and one stage of final selection by PMAC, MoMSME.

### 1st Stage: Evaluation by the Host Institutes

Ideas will be automatically sent to the HI, selected by the applicant. (MoMSME through its HIs all across the country will shortlist meritorious ideas.)





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For evaluation, each HI will identify and create a pool of experts from different domains/areas of expertise, e.g., entrepreneur, technical expert, financial expert, sector expert, etc.

From this pool of experts, a panel of a minimum of 3 and a maximum of 5 experts will be selected by the HI to evaluate each idea.

After evaluation, each HI will shortlist applicants on <https://innovative.msme.gov.in/> and will upload the scores & details of shortlisted applicants' sector-wise along with proper justification for selecting the idea in the Minutes of their evaluation Meeting. During the evaluation, HIs shall adhere to the mandate & themes for the ideas decided by the Ministry of MSME.

HIs shall ensure that the ideas submitted in MSME Idea Hackathon 2022 and the ideas which were approved in the previous Hackathons by this

Ministry shall not be uploaded in MSME Hackathon 2.0. If HIs do this, then the idea will not be considered by MoMSME.

HIs shall interview each applicant and submit the ideas with suitable Title and details of the ideas including the financial details and upload only the correct details. The finance required for each idea should be scrutinized thoroughly. All the fields in the portal are kept editable for the HIs while forwarding the selected ideas by them. The HIs shall do the due diligence and edit the details appropriately in consultation with the applicants before forwarding them to the Ministry. Only the exact amount required by the ideas shall be uploaded. MoMSME reserves rights to prune/reduce the project cost as per the decision of the PMAC. HIs have to ensure that no similar ideas supported already in earlier Hackathons are uploaded in this Hackathon.

### **Mandate for Ideas**

All ideas should contain, inter-alia, the following basic types of Innovation Processes:

- ☐ Ideation: Innovation related to the product idea & concept.
- ☐ Technology: Innovation related to product functionality.
- ☐ Co-creation: Innovation related to customer involvement.
- ☐ Social Innovation: Innovation related to the corporate culture.
- ☐ Entrepreneurship: Innovation related to entrepreneurial thinking.
- ☐ Marketing & Branding: Innovation related to the customer experience
- ☐ Open Innovation: Innovation related to stakeholders.
- ☐ Business Model Innovation: Innovation related to the purpose and strategy



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The Host Institutions (HI) approved for the scheme will be supported by the Office of DC-MSME. The selected ideas will be provided funding support for nurturing and development of the idea up to Rs. 15 lakhs per approved idea, through the Host Institutes chosen by them. There were two categories in MSME Idea Hackathon 2.0, Hardware and Software. The software edition of the hackathon is digital product development competition. The hardware edition is a good mix of Mechanical Engineers, Electronic Engineers, Product Designers and Programmers, etc. Total 63 teams from different branches have participated in the event. There were 28 entries for hardware section and 33 entries were from software section. Judges evaluated results incorporating the critical points as like idea/innovation, uniqueness/newness of idea, Technology/Methodology, Potential Areas of Application in Industry/Market and social impact. The event was started to facilitate the Mementos to the judges. The event was conducted at SKIT Incubation Cell and Meghnad Saha Seminar Hall, SKIT Jaipur. The coordinators of the event, Mr. Ajay Kumar Dhanopia-Incubation Cell delivered the vote of thanks.

Write up Expressing Objective and Outcome of the Event

## Objective

Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving.

## Outcome

Around 63 applicants had applied their creative skills to test to find solutions to the pressing problems of Government Departments and Private Sectors at Internal Hackathon Prelim Round for MSME Idea Thon 2.0.

This is proved to be extremely successful in promoting innovation out-of-the-box thinking in young minds, especially engineering students from across India.

There were two categories in MSME Idea Thon 2.0, Hardware and Software. The software edition of the hackathon is digital product development competition. The hardware edition is a good mix of Mechanical Engineers, Electronic Engineers, Product Designers and Programmers, etc. Total 63 teams from different branches have participated in

the event. There were 28 entries for hardware section and 33 entries were from software section. Judges evaluated results incorporating the critical points as like idea/innovation, uniqueness/newness of idea, Technology/Methodology, Potential Areas of Application in Industry/Market and social impact.





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