Ref No: ABESIT/IIC/2023-24/SIH23/02   **Date: 11-09-2023**

Smart India Hackathon 2023

Idea Submission & Internal Hackathon@ABESIT

All the students are hereby informed the following process of **Idea Submission & Internal Hackathon@ABESIT of Smart India Hackathon 2023.**

1. **Team leader** (only) are required to send idea (3-Page format) on sih2023@abesit.edu.in **till 15/09/2023.**

2. Students are suggested to work on their Idea and discuss with undersigned**.**

3. Each team can participate on **only ONE Problem statement** in **Internal Hackathon @ABESIT scheduled on 22-23 Sep-2023**.

4. Evaluation criteria will include **novelty** of the idea, **complexity**, clarity and details in the prescribed format, **feasibility, practicability**, **sustainability**, **scale of impact, user experience and potential for future work progression**.

5. Total **top 30 teams (additionally 5 waiting teams),** selected from the Internal hackathon@ABESIT, will participate in **SIH2023**.

Note - All interested teams are required to submit team details through following Google form till 15/09/2023.   https://forms.gle/x7bJ6FRk4nihGaaM9
For more information visit: https://www.sih.gov.in
Watch this link: https://www.youtube.com/watch?v=OCLDvyCAB3g

Dr. Kaushal Kishor
SPOC--SIH2023
Convener, Institution Innovation Council (IIC)

cc:
- Honorable Chairman (Email)
- Director Sir (Email)
- Dean Academics (Email)
- Dean Incubation & Startup (Email)
- Prof.(Dr.) Anurag Rai (Email)
- All HOD's (Email)
- Prof.(Dr.) Manjul Singh (Email)
- Faculty (Email)
- Registrar ABESIT (Email)
- Record Room (Ref. No.: IIC-1.0)
- All notice boards

Problem Statements (PSs) of SIH 2023

S.No	Organization	Problem Statement Title	Category	PS Number		Domain bucket
1	Ministry of Chemicals and Fertilizers	International Comparative System to Launch Integrated Real-Time Data Management System (IDMS) for Chemical and Petrochemicals Sector.	Software	SIH1278	0	Miscellaneous
2	Ministry of Law and Justice	Development of software for streamlining the listing of cases through Differentiated Case Flow Management	Software	SIH1279	0	Miscellaneous
3	Ministry of Law and Justice	Development of e-Portal for facilitating Case Management Hearing of various types of cases	Software	SIH1280	0	Miscellaneous
4	Ministry of Law and Justice	Development of gamified platform on Children's Rights to increase legal literacy and awareness among children in India	Software	SIH1281	0	Smart Education
5	Ministry of Law and Justice	Tech-Driven Solutions for Under trial Prisoners in India	Software	SIH1282	0	Miscellaneous
6	Ministry of Law and Justice	Digital Assistant for Legal Awareness and Designing a KYC framework in India	Software	SIH1283	0	Smart Education
7	Ministry of Law and Justice	Developing a Blockchain-Based eVault for Legal Records	Software	SIH1284	0	Blockchain & Cybersecurity
8	Ministry of Law and Justice	AI-powered Legal Documentation Assistant	Software	SIH1285	0	Miscellaneous
9	Ministry of Law and Justice	Incentives based Design for on boarding Legal Service Providers such as Advocates, Arbitrators, Mediators, Notaries, Document Writers, etc on eMarket Place for extending Legal Services to Citizens in India	Software	SIH1286	0	Miscellaneous
10	Ministry of Jal Shakti	Use of Digital Technology to calculate water footprints for different daily use items.	Software	SIH1287	0	Clean & Green Technology
11	Ministry of Jal Shakti	Use of Digital Technology in addressing Non-Revenue Water (NRW)	Software	SIH1288	0	Clean & Green Technology
12	Ministry of Jal Shakti	Projection of the extent of inundation corresponding to the forecasts of flood levels in a river.	Software	SIH1289	0	Disaster Management
13	Ministry of Jal Shakti	Development of AI, ML and Chat boat-powered Interactive Robot Mascot (Chacha Chaudhary) and digital avatar to strengthen the river people connect component of Namami Gange.	Software	SIH1290	0	Smart Education
14	Ministry of Jal Shakti	A mobile app that crowd sources water-related problems from around a community, open sources data, etc. and display them on a map.	Software	SIH1291	0	Disaster Management
15	Ministry of Jal Shakti	AI-enabled water well predictor	Software	SIH1292	0	Clean & Green Technology

16	Ministry of Jal Shakti	Automatic regulation of valves for release of water based upon soil moisture availability in the root zone of the crop, using artificial intelligence, in a piped and micro irrigation network of irrigation system.	Hardware	SIH1293	0	Agriculture, FoodTech & Rural Development
17	Ministry of Jal Shakti	Estimation of inflow to a reservoir from the rainfall considering soil moisture in its catchment and releases from upstream reservoirs and automatically opening of reservoir gates for moderately releasing the water to avoid the flooding in a basin.	Hardware	SIH1294	0	Disaster Management
18	Ministry of power	Dashboard for real-time monitoring of construction projects.	Software	SIH1295	0	Transportation & Logistics
19	Ministry of power	Al-based Generative design of Hydro power plants.	Software	SIH1296	0	Renewable / Sustainable Energy
20	Ministry of power	Al Based Drone Application	Software	SIH1297	0	Robotics and Drones
21	Ministry of power	Monitoring through Al Based Remote Access Vehicle	Hardware	SIH1298	0	Smart Vehicles
22	Ministry of power	Developing an AI-powered energy management system for industrial commercial facilities to optimize energy consumption.	Hardware	SIH1299	0	Smart Automation
23	Ministry of power	Automated Public Lighting	Hardware	SIH1300	0	Smart Automation
24	Ministry of power	Language translator tool to convert English to Hindi (official Language) which can be used by all the government organizations websites officially.	Software	SIH1301	0	Smart Automation
25	Ministry of Power	Design of CYBER-SECURITY ENABLED SMART CONTROLLER for grid-connected Microgrid	Software	SIH1302	0	Blockchain & Cybersecurity
26	Government of Punjab	PGRKAM web application (www.pgrkam.com) and the PGRKAM Android application of the Punjab Government provides employment data to the prospective candidates.	Software	SIH1303	0	Miscellaneous
27	Government of Punjab	PGRKAM web application (www.pgrkam.com) and the PGRKAM Android application of the Punjab Government provides employment data to the prospective candidates. The platform has a sizeable number of user base but it lacks integrated analytics tools to understand how the users are consuming the information.	Software	SIH1304	0	Miscellaneous

28	Government of Punjab	The Employment Department at present has a digital platform www.pgrkam.com and its mobile application to provide almost all services offered to job seekers and employers through digital means. The portal has multiple modules like private sector jobs, government jobs, self-employment avenues, foreign jobs, foreign study, counseling, guidance, induction into armed forces, job melas, etc. Currently, when a user visits the portal/app, there is no hand-holding mechanism to help the user get to the part of the digital platform which will resolve his queries. The user is required to navigate across multiple modules on the portal/ app to search for answers.	Software	SIH1305	0	Smart Automation
29	Ministry of Social Justice and Empowerment	Active Prosthetic ankle and adaptive equipment for bike riding in lower limb amputees	Hardware	SIH1306	0	MedTech / BioTech / HealthTech
30	Ministry of Social Justice and Empowerment	Computerized cognitive Retraining Program for Home training of Children with Disabilities.	Software	SIH1307	0	MedTech / BioTech / HealthTech
31	Ministry of Home Affairs	Threat zone of an explosion particularly in oil and gas handling industries or refineries	Software	SIH1308	0	Disaster Management
32	Ministry of Textiles	Application Development for monitoring of wool from Farm to fabric	Software	SIH1309	0	Transportation & Logistics
33	Ministry of Ports, Shipping and Waterways	Drone-based surveillance system for the vessels plying in port areas and encroachments	Hardware	SIH1310	0	Robotics and Drones
34	Ministry of Ports, Shipping and Waterways	Dredging Analysis and Decision Support System.	Software	SIH1311	0	Transportation & Logistics
35	Ministry of coal	Chatbot to respond to text queries pertaining to various Acts, Rules, and Regulations applicable to Mining industries	Software	SIH1312	0	Smart Automation
36	Ministry of coal	A system of IoT Devices to prevent under-loading / overloading of Railway wagons.	Hardware	SIH1313	0	Transportation & Logistics
37	Ministry of coal	Real-time visibility of Dumper load status to Shovel operator	Software	SIH1314	0	Smart Automation
38	Ministry of coal	Development of a Telematic control unit for capturing vital data of a vehicle without using company fitted telemetry data port.	Hardware	SIH1315	0	Smart Vehicles
39	Ministry of coal	Application of Image Analytics for Tree enumeration for diversion of Forest Land.	Software	SIH1316	0	Miscellaneous
40	Ministry of coal	Development of a Digital Platform for multi-modal visibility of coal transportation	Software	SIH1317	0	Smart Automation

41	Ministry of coal	Analytics based on Govt. Land Information System(GLIS) Data	Software	SIH1318	0	Agriculture, FoodTech & Rural Development
42	Ministry of coal	Forecasting and scheduling of railway rakes.	Software	SIH1319	0	Smart Automation
43	Ministry of coal	In-cab smart guidance and support system for Dragline Operator	Software	SIH1320	0	Smart Vehicles
44	Ministry of Chemicals and Fertilizers	Compilation and Collection of optimum Level (variable) of data set from the Chemical and Petrochemical Industries in the country, aiming to smoothen the decision-making and insight generation in the strategic initiative.	Software	SIH1321	0	Smart Automation
45	Government of Kerala	Domestic Waste Management	Software	SIH1322	0	Clean & Green Technology
46	Government of Kerala	Development of Smart Toilet	Hardware	SIH1323	0	MedTech / BioTech / HealthTech
47	Government of Kerala	Air and water quality index and environment monitoring	Software	SIH1324	0	Agriculture, FoodTech & Rural Development
48	Government of Kerala	AI Assisted Tele-medicine KIOSK for Rural India	Software	SIH1325	0	Agriculture, FoodTech & Rural Development
49	Government of Kerala	Ideate and implement a system to enhance the quality of education in rural areas.	Software	SIH1326	0	Smart Education
50	Government of Kerala	Developing a system for Patient Care in the Health Sector	Hardware	SIH1327	0	Robotics and Drones
51	Ministry of Jal Shakti	Call for cost-effective ways of making water source for piped drinking water supply sustainable in Rural areas	Hardware	SIH1328	0	Renewable / Sustainable Energy
52	Ministry of Information and Broadcasting	360-degree feedback software for the Government of India related News Stories in Regional Media using Artificial Intelligence / Machine Learning	Software	SIH1329	0	Smart Automation
53	Ministry of Information and Broadcasting	Text to Video of various PIB Press Releases using Artificial Intelligence / Machine Learning / Generative Adversarial Networks in English and 13 Regional Languages viz. Hindi, Urdu, Punjabi, Gujarati, Marathi, Telugu, Kannada, Malayalam, Tamil, Odia, Bengali, Assamese and Manipuri.	Software	SIH1330	0	Smart Automation

54	Ministry of Information and Broadcasting	A complete Digital Marketing solution for visible increase in online sale of DPDÃƒÂ¢Ã¢â€šÂ¬Ã¢â€žÂ¢s journals and Employment News issues through various available/new online sale channels (like website, apps , amazon, social media) by optimising various available or new digital marketing tools like email marketing, SEO, analytics, etc., subject to suitability, sustainability and cost-effectiveness.	Software	SIH1331	0	Miscellaneous
55	Rashtriya Ispat Nigam Limited, Visakhapatnam Steel Plant	Hot metal, Steel Ladle, and Scrap pot Tracking by auto-capturing the Ladle number and locations at SMS-1 and SMS-2.	Software	SIH1332	0	Transportation & Logistics
56	Ministry of Social Justice and Empowerment	Udyog Saarthi App - (Progressive Web-based Application) for Adults undergoing Job coaching for opportunities under 4% reservation in NIEPMD and other Institutions.	Software	SIH1333	0	Smart Automation
57	Ministry of Social Justice and Empowerment	Software for intervention of speech sound disorders in Hindi and English.	Software	SIH1334	0	Smart Education
58	Ministry of Mines	Dificulty in operating Heavy earth moving machineries during rainy season (4-5 months due to extremely poor visibility conditions leading to significant loss of excavation and production	Hardware	SIH1335	0	Transportation & Logistics
59	Ministry of Mines	Mines operation specially haulage of dumphers done through operators extended even in the absense in adequacy of operators.	Hardware	SIH1336	0	Miscellaneous
60	Ministry of Mines	unpredictable wear and tear of cable belt conveyor Rope and belt leading to frequent stoppage of single line Mine production system causing significant loss of production	Hardware	SIH1337	0	Miscellaneous
61	Ministry of Mines	Unpredictable failure of poly pulleys along cable belt conveyor system for pulley changing	Software	SIH1338	0	Transportation & Logistics
62	Ministry of Mines	Automation of drill core rock sample lithology logging.	Software	SIH1339	0	Transportation & Logistics
63	Ministry of AYUSH	Application for Assessment of Quality of Textbook/ Reference Books/ E- Book	Software	SIH1340	0	Smart Education
64	Ministry of AYUSH	PG dissertation Management System Description.	Software	SIH1341	0	Smart Education
65	Ministry of AYUSH	Development of a prototype instrument (sensor based) for assessment and quantification of rasas (taste) in crude herbs.	Software	SIH1342	0	MedTech / BioTech / HealthTech
66	Ministry of AYUSH	Identification of Different Medicinal Plants/Raw materials through Image Processing Using Machine Learning Algorithms	Software	SIH1343	0	MedTech / BioTech / HealthTech

67	Ministry of AYUSH	Al-based tool for preliminary diagnosis of Dermatological manifestations	Software	SIH1344	0	MedTech / BioTech / HealthTech
68	Ministry of AYUSH	Startup-AYUSH Portal	Software	SIH1345	0	MedTech / BioTech / HealthTech
69	Ministry of AYUSH	Chatbot to Known Individual Prakriti (Phenotype)	Software	SIH1346	0	MedTech / BioTech / HealthTech
70	Ministry of AYUSH	A Software that suggests drugs and formulations for a disease/pharmacological property based on the Ayurvedic classical books/Repositories.	Software	SIH1347	0	MedTech / BioTech / HealthTech
71	Ministry of Railways	Natural language translation engine for announcements and information dissemination at stations	Software	SIH1348	0	Smart Automation
72	Ministry of Railways	Using existing CCTV network for crowd management, crime prevention, and work monitoring using AIiML	Software	SIH1349	0	Smart Automation
73	Government of Jammu and Kashmir	Artificial Intelligence Driven Digitization of Cadastral Maps	Software	SIH1350	0	Smart Automation
74	Government of Jammu and Kashmir	Digital Generator Monitoring Diesel generators are widely used as backup power sources in industries, homes, and remote locations	Software	SIH1351	0	Smart Automation
75	Government of Jammu and Kashmir	Traditional agriculture practices lack real-time monitoring and efficient operation on fields This leads to inefficiencies and low production levels.	Software	SIH1352	0	Agriculture, FoodTech & Rural Development
76	Government of Jammu and Kashmir	Innovative Solution for Reducing ATandC Losses due to Power Pilferage in Electrical Sector	Hardware	SIH1353	0	Smart Automation
77	Government of Jammu and Kashmir	Using technology to develop a moving/mobile education system/software or equipment so that the children of nomadic communities such as Bakarwals /Gujjars can have proper education at least till primary.	Software	SIH1354	0	Smart Education
78	Government of Jammu and Kashmir	Developing solutions to effective market linkage and promotion of One District One Product.	Software	SIH1355	0	Heritage & Culture
79	Ministry of Commerce and Industries	Sentiment Analysis of Incoming calls on helpdesk	Software	SIH1356	0	Miscellaneous
80	Ministry of Commerce and Industries	Sentiment analysis of Social Media presence	Software	SIH1357	0	Miscellaneous
81	Ministry of Commerce and Industries	Image correctness for a product on marketplace	Software	SIH1358	0	Miscellaneous
82	Ministry of Commerce and Industries	Contact center knowledge management tool with decision tree	Software	SIH1359	0	Smart Automation

83	Ministry of Commerce and Industries	Price comparison of GeM products with other e-marketplaces	Software	SIH1360	0	Smart Automation
84	Government of Gujarat	Development of Small Scale Wind energy device	Hardware	SIH1361	0	Renewable / Sustainable Energy
85	Government of Gujarat	Student dropout analysis for school education	Software	SIH1362	0	Smart Education
86	Government of Gujarat	Self-identifying the mental health status and get guidance for support.	Software	SIH1363	0	Fitness & Sports
87	Government of Gujarat	Fake Social Media Profile detection and reporting	Software	SIH1364	0	Blockchain & Cybersecurity
88	Government of Gujarat	Online Blockchain based certificate generation and validation system for government organization.	Software	SIH1365	0	Blockchain & Cybersecurity
89	Ministry of Social Justice and Empowerment	Centralised Nasha Mukti Database	Software	SIH1366	0	Miscellaneous
90	Ministry of Social Justice and Empowerment	To develop a technical solution for enabling Institution level verification of students of one State studying in other State/s, who are at present generally denied benefits under the Scholarship scheme as the Institutions in which they are studying are not registered on the portal/s of their home State.	Software	SIH1367	0	Smart Education
91	Ministry of Social Justice and Empowerment	Despite prohibition of hazardous cleaning of sewers and septic tanks (manual cleaningof sewers and septic tanks without safety kits, safety devices and without adherence tosafety precautions) it is still being resorted to in many parts of the country.	Hardware	SIH1368	0	Smart Automation
92	Government of Jharkhand	Online integrated platform for projects taken up by the students of various universities/colleges	Software	SIH1369	0	Smart Education
93	Government of Jharkhand	Real time monitoring of infrastructure development	Software	SIH1370	0	Smart Automation
94	Government of Jharkhand	Community Based Reporting and Monitoring Tool for Women's Safety in Colleges/Universities.	Software	SIH1371	0	Miscellaneous
95	Government of Jharkhand	development of systems for effective Environmental, Social and Governance (ESG) Intervention in Higher Education	Software	SIH1372	0	Renewable / Sustainable Energy
96	Ministry of Fisheries, Animal Husbandry and Dairying	One-stop solution for monitoring dairy plant energy consumption, hygiene and packaging waste collection from consumers.	Hardware	SIH1373	0	Agriculture, FoodTech & Rural Development
97	Ministry of Power	Cloudburst prediction system	Software	SIH1374	0	Disaster Management
98	Ministry of Power	Geo tagging of plantation in the catchment area of hydro project	Hardware	SIH1375	0	Agriculture, FoodTech & Rural Development

99	Ministry of Power	Robotics for inspection of abrasion / corrosion of underwater equipment / parts and further repair and maintainance	Hardware	SIH1376	0	Robotics and Drones
100	Ministry of Power	Creation of Live Digital Twins for the power Projects and integration with all existing monitoring and database system which will give a holistic real time approach to the project and plant from all aspect of construction, operation and maintenance.	Software	SIH1377	0	Smart Automation
101	Ministry of Power	Segregating and information on regulatory / Gofi. PolicieVGuidelines/Office Memorauda etc. related to Contract and Procurement issues for proper compliance and reporting of the same.	Software	SIH1378	0	Miscellaneous
102	Ministry of Power	Vegetation measurement along the line corridor using satellite imagery	Software	SIH1379	0	Agriculture, FoodTech & Rural Development
103	Ministry of Power	lntelligent chatbot to answer queries pertaining to various Maintenance Processes within Substation	Software	SIH1380	0	Smart Education
104	Ministry of Power	Analysis and identification of malicious mobile applications	Software	SIH1381	0	Blockchain & Cybersecurity
105	Govt of Himachal Pradesh	Real-Time Vehicle Tracking system.	Software	SIH1382	0	Smart Vehicles
106	Govt of Himachal Pradesh	Optimizing Doctor Availability and Appointment Allocation in Hospitals through Digital Technology and Al Integration.	Software	SIH1383	0	MedTech / BioTech / HealthTech
107	Ministry of Commerce and Industries	Developing an interactive gaming software / mobile application on Inteliectual Property Awareness for school students	Software	SIH1384	0	Smart Education
108	Ministry of Commerce and Industries	Developing a software that can translate resource material and other texts from English to other Indian regional languages.	Software	SIH1385	0	Smart Education
109	Ministry of Commerce and Industries	Developing a software for dubbing of videos from English to other Indian regional languages.	Software	SIH1386	0	Smart Education
110	Ministry of power	Detection of embedded Malware/ Trojan in hardware devices used in Power Sector.	Hardware	SIH1387	0	Blockchain & Cybersecurity
111	Ministry of power	Detection of Malwarei Trojan in softwares used in Power Sector.	Software	SIH1388	0	Blockchain & Cybersecurity
112	Ministry of power	To develop centralised information security .Log-collection facility' or 'security operation centre (soc)' in the power sector, considering cEA cybersecurity (Power sector) Guidelines, 2021to keep lr and or networking System isolated and air-gapped.	Software	SIH1389	0	Blockchain & Cybersecurity

113	Ministry of Environment	Pro Planet Person App	Software	SIH1390	0	Clean & Green Technology
114	Ministry of Environment	Behavioural change monitoring software	Software	SIH1391	0	Smart Automation
115	Ministry of Environment	E-Waste Facility Locator	Software	SIH1392	0	Smart Automation
116	Ministry of Environment	Water and Electricity Tracking App	Software	SIH1393	0	Smart Automation
117	Ministry of Environment	Virtual Zoo	Software	SIH1394	0	Smart Education
118	Ministry of Micro, Small and Medium Enterprises	IoT based sensors can be used to determine the Machine Runtime	Software	SIH1395	0	Agriculture, FoodTech & Rural Development
119	Ministry of Micro, Small and Medium Enterprises	Developing Virtual Reality based solutions	Software	SIH1396	0	Disaster Management
120	Ministry of Micro, Small and Medium Enterprises	Development of business models for collection and utilization of single usc plastics and various other industrial wastes	Software	SIH1397	0	MedTech / BioTech / HealthTech
121	Ministry of Micro, Small and Medium Enterprises	lntegration and Utilization of data-based being maintained by various Ministries/Departments for better utilization of raw materials and production capacity.	Software	SIH1398	0	Agriculture, FoodTech & Rural Development
122	Ministry of Micro, Small and Medium Enterprises	Development of Technology for manufacturing of mind control BIONIC hand with a sense of touch	Hardware	SIH1399	0	MedTech / BioTech / HealthTech
123	Ministry of Micro, Small and Medium Enterprises	Uncontrolled growth of water Hyacinth in lakes	Hardware	SIH1400	0	Agriculture, FoodTech & Rural Development
124	Ministry of Micro, Small and Medium Enterprises	App-Based Solution to identify and solve disease in plants/crops	Software	SIH1401	0	Agriculture, FoodTech & Rural Development
125	Ministry of Social Justice and Empowerment	Ear Electronic Device for Tinnitus Frequency Finding and Adjusting to Provide Relief to Tinnitus Suffering Patient	Software	SIH1402	0	MedTech / BioTech / HealthTech
126	Ministry of Social Justice and Empowerment	APP Based Digital Audiometer	Software	SIH1403	0	MedTech / BioTech / HealthTech
127	Ministry of Social Justice and Empowerment	Low-cost Myoelectric Prosthetic Arm	Hardware	SIH1404	0	MedTech / BioTech / HealthTech
128	Ministry of Social Justice and Empowerment	Develop therapy materials in Hindi for misarticulation children	Software	SIH1405	0	MedTech / BioTech / HealthTech
129	Ministry of Social Justice and Empowerment	Development of Augmentative and Alternative Communication (AAC) in Indian context	Hardware	SIH1406	0	MedTech / BioTech / HealthTech
130	Ministry of Home Affairs	Chatbot based helpdesk for govt employees and departments	Software	SIH1407	0	Smart Automation
131	Ministry of Home Affairs	IT System log analyzer	Software	SIH1408	0	Blockchain & Cybersecurity
132	Ministry of Home Affairs	AI based IT training system	Software	SIH1409	0	Smart Education

133	Ministry of Home Affairs	Augmented/ Virtual reality system for the live training of troops	Software	SIH1410	0	Smart Automation
134	Ministry of Home Affairs	Simulator system for counter Hijack and sky Marshalling operations	Software	SIH1411	0	Blockchain & Cybersecurity
135	Ministry of Home Affairs	Data Compression for backbone network	Software	SIH1412	0	Blockchain & Cybersecurity
136	Ministry of Communications	Dak Ghar Niryat Kendra	Software	SIH1413	0	Transportation & Logistics
137	Ministry of Defence	Drone based Intelligent Magnetic sensing system and Metallic anomaly detection system	Hardware	SIH1414	0	Miscellaneous
138	Ministry of Defence	Development of motion amplification video techniques for vibration analysis	Software	SIH1415	0	Smart Automation
139	Ministry of Defence	AI based Automatic alarm generation and dropping of payload at a particular object through a Drone.	Software	SIH1416	0	Disaster Management
140	Ministry of Defence	AI-ML based intelligent de-smoking/de-hazing algorithm	Software	SIH1417	0	Disaster Management
141	Ministry of Defence	Deep learning for terrain recognition	Software	SIH1418	0	Miscellaneous
142	Ministry of Defence	Robust human target detection and acquisition	Software	SIH1419	0	Miscellaneous
143	Ministry of Defence	Lean module for reasoning about computational complexity in GPTs.	Software	SIH1420	0	Miscellaneous
144	Ministry of Defence	Novel Technologies for Early Detection and Mitigation of Avalanches	Software	SIH1421	0	Disaster Management
145	Ministry of Defence	Devise the method for identification of victims buried under avalanches.	Software	SIH1422	0	Disaster Management
146	Ministry of Jal Shakti	Web /Mobile based tool for mapping of Water supply network	Software	SIH1423	0	Miscellaneous
147	Ministry of Jal Shakti	Call for low-cost desalination technology for Lakshadweep and Inland saline water sources.	Hardware	SIH1424	0	Miscellaneous
148	Ministry of Jal Shakti	Technological solutions for Early decomposition of fecal matter	Hardware	SIH1425	0	Miscellaneous
149	Ministry of Jal Shakti	Technological solutions for safe disposal of menstrual waste	Hardware	SIH1426	0	Miscellaneous
150	Ministry of Jal Shakti	Call for Toilet technology	Hardware	SIH1427	0	Miscellaneous
151	Ministry of Rural Development	AR/VR based application which helps visualize the complete house virtually at an early stage, which can help in cost estimation, planning and completion of the house in time'	Software	SIH1428	0	Smart Automation
152	Ministry of Rural Development	Develop a solution to identifo discrepancies in Quality Monitoring Data on OMMAS and generate reports that highlight areas where corrective action is Required.	Software	SIH1429	0	Smart Automation
153	Ministry of Education	Lowest Cost Smart Board - A Seamless Teaching Experience.	Hardware	SIH1430	0	Smart Education

154	Ministry of Education	Online personalized learning remediation/tutoring tool. Search for best teacher for specific topics.	Software	SIH1431	0	Smart Education
155	Ministry of Education	Identify slow learners for remedial teaching and capacity building for innovative methods.	Software	SIH1432	0	Smart Education
156	Ministry of Education	Mental health and well-being surveillance, assessment and tracking solution among children.	Software	SIH1433	0	Smart Education
157	Ministry of Education	Making career choices and AI based counselling accessible to every child at secondary level along with aptitude tests and detailed career paths.	Software	SIH1434	0	Smart Education
158	Ministry of Rural Development	Developing an algotithim / programme to measure increase in income of FPOs on account of project interventions under WDC 2.0.	Software	SIH1435	0	Agriculture, FoodTech & Rural Development
159	Ministry of Rural Development	Number of persons benefitted from using the Water Harvesting Structures (WHS) created / rejuvenated in the project areas under WDC 2.0 for economic activities like fisheries etc for alternate source of income generation.	Software	SIH1436	0	Agriculture, FoodTech & Rural Development
160	Ministry of Rural Development	Development of suitable Software and Hardware components/sensors for springshed mapping, monitoring and management.	Software	SIH1437	0	Agriculture, FoodTech & Rural Development
161	Ministry of Home Affairs	Virtual Reality-Based Training for CBRN Disaster Response	Software	SIH1438	0	Disaster Management
162	Ministry of Home Affairs	Robotics Device for Borewell Rescue Operation	Hardware	SIH1439	0	Disaster Management
163	Ministry of Home Affairs	An application under which all rescue agencies are registered and which can display the location of other rescue relief agencies during natural/ man made calamities	Software	SIH1440	0	Disaster Management
164	Bajaj Finserv Health Ltd.	Similar Document Template Matching Algorithm	Software	SIH1441	0	Miscellaneous
165	Autodesk	Students to use Autodesk Fusion 360 to research and redesign a conventional automotive component commonly found in vehicles and utilize generative design to reimagine its design. For additional information and detailed problem statement, please visit: https://damassets.autodesk.net/content/dam/autodesk/www/pdfs/sih-2023-hardware-edition-additive-manufacturing.pdf	Hardware	SIH1442	0	Smart Vehicles

166	Autodesk	Students to use Autodesk Fusion 360 to research and to generate NC code with machine details & tool library for any industrial component. For additional information and detailed problem statement, please visit: https://damassets.autodesk.net/content/dam/autodesk/www/pdfs/sih-2023-hardware-edition-cnc.pdf	Hardware	SIH1443	0	Smart Automation
167	Autodesk	Students to use Autodesk Fusion 360 to research and develop a design on "Smart Glass Cleaning Robot", which can climb, clean, and carry liquid cleaners. For additional information and detailed problem statement, please visit: https://damassets.autodesk.net/content/dam/autodesk/www/pdfs/sih-2023-software-edition.pdf	Software	SIH1444	0	Robotics and Drones
168	National Technical Research Organisation,(NTRO)	De-anonymisation for monitoring and tracking of illegal activities performed using cryptocurrency transaction technology	Software	SIH1445	0	Blockchain & Cybersecurity
169	National Technical Research Organisation,(NTRO)	Developing a GUI based hardening script for Ubuntu operating system with flexibility to cater for organisational security policies	Software	SIH1446	0	Miscellaneous
170	National Technical Research Organisation,(NTRO)	Identification and Extraction of Forward Error Correction (FEC) schemes of unknown demodulated signals	Software	SIH1447	1	Miscellaneous
171	National Technical Research Organisation,(NTRO)	Design of RF Up/Down-converter for signals using GNU Radio and SDRs.	Hardware	SIH1448	0	Miscellaneous
172	National Technical Research Organisation,(NTRO)	Design, develop and implement a software bill of materials (SBOM) generation tool that can generate the complete SBOM of custom-developed software (including in-house developments by organisations)	Software	SIH1449	0	Smart Automation
173	National Technical Research Organisation,(NTRO)	Develop and deploy a Large Language Model (LLM) based tool for generating human like responses to natural language inputs for network not connected over internet	Software	SIH1450	0	Smart Automation
174	National Technical Research Organisation,(NTRO)	Develop a AI/ML tool to detect whether a system / firewall /router / network is compromised. The technique should not rely only on IoCs (Indicators of Compromises) detection.	Software	SIH1451	0	Blockchain & Cybersecurity

175	National Technical Research Organisation,(NTRO)	Develop Ransomware Readiness Assessment tool.	Software	SIH1452	0	Blockchain & Cybersecurity
176	National Technical Research Organisation,(NTRO)	Investigation of vulnerabilities in implementation of crypto library used by OpenVPN for Internet Protocol Security (IPsec), IPV6 deployment.	Software	SIH1453	0	Blockchain & Cybersecurity
177	National Technical Research Organisation,(NTRO)	Create an intelligent system using AI/ML to detect phishing domains which imitate look and feel of genuine domains	Software	SIH1454	0	Blockchain & Cybersecurity
178	National Technical Research Organisation,(NTRO)	Efficient enumeration of URLs of active hidden servers over anonymous channel (TOR)	Software	SIH1455	0	Blockchain & Cybersecurity
179	National Technical Research Organisation,(NTRO)	Speech to text transcription for Indian languages. The problem entails transcription in the native script and then translation to English. The languages of interest are Hindi, Indian English, Urdu, Bengali, Punjabi.	Software	SIH1456	0	Miscellaneous
180	MathWorks India Private Limited	Get Fit Faster with a High-Tech Tracker: Analyze Human Activity and GPS Data for Improved Results	Software	SIH1457	0	Smart Automation
181	AICTE	AI Based - Designing of Assistive portal for Stakeholders in Approval Process	Software	SIH1458	0	Miscellaneous
182	AICTE	Integration of Multiple Data-bases of AICTE in order to fetch Coherent Information	Software	SIH1459	0	Miscellaneous
183	AICTE	Integration of AI for Adaptive Learning for MCQ Selection in PARAKH	Software	SIH1460	0	Smart Automation
184	AICTE	Cybersecurity Portal for Effective Management of Servers and Firewalls	Software	SIH1461	0	Blockchain & Cybersecurity
185	Ministry of Home Affairs	Awareness and Preparedness Towards Disaster Management	Software	SIH1462	0	Disaster Management
186	AICTE	Establishing a Server log system for E-governance with appropriate notification and content based classification of log AICTE	Software	SIH1463	0	Miscellaneous
187	AICTE	Design and Developed a personalized online meeting system for AICTE	Software	SIH1464	0	Blockchain & Cybersecurity
188	AICTE	A unified portal for developing a model Curriculum for all the AICTE Approved Institutes	Software	SIH1465	0	Miscellaneous
189	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1466	0	Smart Education

190	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1467	0	Smart Education
191	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1468	0	Disaster Management
192	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1469	0	Disaster Management
193	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1470	0	Miscellaneous
194	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1471	0	Blockchain & Cybersecurity
195	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1472	0	Renewable / Sustainable Energy
196	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1473	0	Travel & Tourism
197	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1474	0	Clean & Green Technology
198	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1475	0	Robotics and Drones
199	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1476	0	Transportation & Logistics
200	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1477	0	Smart Vehicles
201	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1478	0	Agriculture, FoodTech & Rural Development
202	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1479	0	MedTech / BioTech / HealthTech
203	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1480	0	Heritage & Culture
204	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1481	0	Fitness & Sports
205	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1482	0	Smart Automation
206	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1483	0	Miscellaneous
207	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1484	0	Blockchain & Cybersecurity
208	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1485	0	Renewable / Sustainable Energy

209	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1486	0	Travel & Tourism
210	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1487	0	Clean & Green Technology
211	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1488	0	Robotics and Drones
212	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1489	0	Transportation & Logistics
213	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1490	0	Smart Vehicles
214	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1491	0	Agriculture, FoodTech & Rural Development
215	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1492	0	MedTech / BioTech / HealthTech
216	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1493	1	Heritage & Culture
217	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1494	0	Fitness & Sports
218	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1495	0	Smart Automation
219	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1496	0	Toys & Games
220	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1497	0	Toys & Games
221	AICTE, MIC	Develop a Proctored exam tool for shortlisting the candidates for the national and international level hackathons.	Software	SIH1498	0	Smart Automation
222	Ministry of Fisheries, Animal Husbandry and Dairying	Green options for milk packaging (Low cost, environment-friendly, and extended shelf life packaging for milk)	Hardware	SIH1499	0	Renewable / Sustainable Energy
223	Government of Jharkhand	Education ecosystem for specially abled student need provision and improvement to take care of compliance, governance and conduct.	Software	SIH1500	0	Smart Education
224	Ministry of AYUSH	Development of Virtual Reality (VR) technology for Dhatuposhana Nyaya	Software	SIH1501	0	MedTech / BioTech / HealthTech
225	Government of Jharkhand	Blended Learning to overcome inadequate infrastructure	Software	SIH1502	0	Smart Education
226	Ministry of AYUSH	Automatic Drug Dispenser	Hardware	SIH1503	0	MedTech / BioTech / HealthTech

227	Government of Jharkhand	Capacity building, performance assessment and motivation driven tool for faculty upgradation	Software	SIH1504	0	Smart Education
228	Ministry of Home Affairs	Aerial Location of Hazardous Atmosphere in Industries	Software	SIH1505	0	Disaster Management
229	Ministry of Ports, Shipping and Waterways	Leveraging the power of deep learning to overcome the challenges of marine engineering and improve vessel operations:	Software	SIH1506	0	Smart Automation
230	Ministry of Mines	Frequent dislodgement of belt conveyor along hilly terrain for various reasons	Hardware	SIH1507	0	Transportation & Logistics
231	Ministry of Power	Creation of dedicated real time 'Procurement Data Portal'as well as 'Vendor Payment Data portal'to capture all related data in respect of NEEPCO,S Procurements and Payments' including Procurement from MSE Sector and procurement in GeM Portal	Software	SIH1508	0	Miscellaneous
232	Ministry of Micro, Small and Medium Enterprises	App-Based Solution to provide market access to micro and small enterprises	Software	SIH1509	0	Miscellaneous
233	Ministry of Rural Development	Land profiling of Asset Creation process	Software	SIH1510	0	Miscellaneous
234	Ministry of Mines	Real time Knowledge of ore body being mined out	Hardware	SIH1511	0	Miscellaneous
235	Ministry of Housing and Urban Affairs	Centralized Monitoring System for Street Light Fault Detection and Location Tracking	Hardware	SIH1512	0	Smart Automation
236	Ministry of Housing and Urban Affairs	Effective management of construction and demolition (C&D) waste	Hardware	SIH1513	0	Clean & Green Technology
237	Ministry of Housing and Urban Affairs	Comprehensive Inspection and Analysis of Water Supply Distribution Lines	Software	SIH1514	0	Clean & Green Technology
238	Ministry of Housing and Urban Affairs	Smart and Effective realtime Management of street parking	Software	SIH1515	0	Smart Automation
239	Ministry of Housing and Urban Affairs	Suggest an Al-based solution to enable ease of grievance lodging and tracking for citizens across multiple departments	Software	SIH1516	0	Smart Automation