

## SMART INDIA HACKATHON (SIH) -2024 (LAST DATE OF IDEA SUBMISSION-12TH SEPTEMBER 2024)

1. IDEA TO BE SUBMITTED ONLY BY SELECTED 30 TEAMS (MAXIMUM) OF INTERNAL HACKATHON CONDUCTED BY THE INSTITUTIONS

3. INTERNAL HACKATHON WILL BE CONDUCTED BY THE SPOC ON 6TH & 7TH OF SEPTEMBER 2024

2. SPOC (SINGLE POINT OF CONTACTS) FOR THE SIH WILL BE NOMINATED BY THE INSTITUTIONS

4. ONLY SPOC SELECTED TEAMS ARE ELIGIBLE FOR SIH ONLINE REGISTRATION

S.No.	Organization	Problem Statement Title	Category	PS Number	Theme
236	Ministry of Jal Shakti	Personalized testing kits for testing Residual Silver ion level at delivery points	Hardware	SIH1771	Smart Automation
235	Ministry of Jal Shakti	Personalized testing kits for testing Bacteriological contamination at delivery points	Hardware	SIH1770	Smart Automation
234	Ministry of Jal Shakti	GOBARDhan - Low-cost enrichment models for F/L OM (Fermented / Liquefied Organic Manure)	Hardware	SIH1768	Clean & Green Technology
233	Ministry of Jal Shakti	GOBARDhan - Low-cost kits to measure nutrient content of F/L OM	Hardware	SIH1767	Clean & Green Technology
232	Ministry of Jal Shakti	Grey Water Management (GWM) - Mechanism for treating grey water and black water together in densely populated areas preferably having low land implication.	Hardware	SIH1765	Clean & Green Technology
231	Ministry of Jal Shakti	Grey Water Management (GWM)- Implementing low cost technical solutions to mitigate water contamination, especially removal of contaminants, before discharge into rivers and lakes.	Hardware	SIH1764	Clean & Green Technology
230	Ministry of Communication	Building a National Web Community of Philatelists "This is to overcome challenges faced by philatelists across India and to design a solution that enhances their experience and fills up gaps in access to information, raising demand and ensuring fulfillment as per interest for each Philatelic item and ancillaries released and made anywhere in the country through a web based community and a National Philately Deposit Account.	Software	SIH1762	Transportation & Logistics
229	Ministry of Communication	AI based Customized time slot Delivery of Articles/Parcels " To align with the needs of the modern lifestyles of customers and their expected time of availability at the home or office address where an item needs to be delivered, the time slot can be decided in consultation with the customer based on an AI Driven correspondence system as per demand/request of the Sender or Receiver"	Software	SIH1761	Transportation & Logistics
228	Ministry of Communication	AI based identification of Financial (Banking & Insurance) needs based on demography and economic / farming Cycle "While the Post Office Network serves everyone, everywhere, on all days, the need for various services including financial and insurance services has a seasonal variation to it. There is a need to time communication and support to customers at times they require it most based on their daily routines. A robust system to segment, target and focus on each customer based on their needs from time to time is needed for India Post to direct its service force to make efforts in response to such needs."	Software	SIH1760	Miscellaneous

227	Ministry of Communication	DYNAMIC MAIL TRANSMISSION SOLUTION USING BEST CONNECTIVITY ACROSS MODES "Serving a large country like India with the habitations across states, cities, towns, blocks and villages with geographic diversity as well is a complex task. The availability of multiple modes of transport for secure transmission of mail, parcels, cargo and people is a boon. Postal mail with its volume, value and weight profile has unique requirements for efficient and effective transmission to cover all delivery points around the sorting and transmission hubs that have been created over the years. With a focus on dynamic allocation and use of available transport within the structure of mail operations defined by the Department of Posts, we need a system to help choose the best mode across land, rail, air and water for fastest transmission of mail in each local context. "	Software	SIH1759	Transportation & Logistics
226	Ministry of Communication	AI-Powered Delivery Post Office Identification System " The wide, evolving delivery network of the Post Office makes it difficult for customers to write the correct pin code on the postal items for delivery. The Post Office also merges Pincodes together to mechanise and streamline delivery in the emerging volume and mix of mail handled at different stages, including the point of delivery. An intelligent solution, powered by AI is needed to meet the dynamic design of the supply chain both for customers as well as operators within India Post.	Software	SIH1758	Transportation & Logistics
225	Ministry of Communication	India Post A Bridge for Indian Diaspora to access things Indian " Building a community of Indian Diaspora for meeting their needs of Indian Products (traditional/ ethnic / handicrafts) through India Post by connecting PIOs with local sellers / MSME / Artisans"	Software	SIH1757	Transportation & Logistics
224	Ministry of Communication	Bridging the Measurability Gap - A Digital Solution for validated Citizens Charter norms' adherence across public interfaces and customer touchpoints of DoP	Software	SIH1756	Transportation & Logistics
223	Ministry of Communication	Data Insights and Strategic Unit (DISU) at the Divisional Level for DoP "The Divisional Office as the nerve centre of administration, governance and control over the widespread national postal network requires a robust monitoring, analytics, visualisation and feedback mechanism to take advantage of digitisation and data driven governance."	Hardware	SIH1755	Miscellaneous
222	Ministry of Communication	A Digital BRSR Platform for India Post Network "The Department of Posts (DoP) in India requires a cutting-edge, digital solution to implement a Business Responsibility & Sustainability Reporting (BRSR) framework. This platform aims to transform DoP into a leader in environmental and social sustainability while fostering transparency and accountability towards stakeholders."	Software	SIH1754	Clean & Green Technology
221	Ministry of Communication	Road Transport Network Telematics Develop a telematics solution to enable efficient trucking operations for the long haul to connect the country through route optimization, live tracking and monitoring, optimal capacity utilization analysis and to enable appropriate response.	Software	SIH1753	Transportation & Logistics

220	Ministry of Communication	Measurement and Monitoring of Counter Services "Develop a simple to use application for measurement and monitoring of counter services offered by Post Offices for their customers while providing ease of access to mail, parcel, financial, payment, insurance and citizen centric services from each Post Office. The solution suggested should integrate traditional and modern Industry 4.0 Technology based solution to this fundamental challenge faced by the DoP across its vast network. Integrating AI-powered image processing technology for effective monitoring of smooth, hassle free and efficient counter services based on live feed of customer service areas for a delightful customer experience are expected as a solution. Ease of application of the solution in the practical setting is key to the assessment criteria for this problem. The dashboard needs to be accessible at the Post Office and to its higher offices in the chain upto Divisional and Regional Office".	Software	SIH1752	Smart Automation
219	Ministry of Communication	Dashboard for Swachhta and LiFE. Develop a dashboard aimed at maintaining cleanliness and LiFE practices, integrating AI-powered image processing technology for effective monitoring of Swachhta and green practices adopted in post offices. The dashboard needs to be accessible from the Divisional Office offering surveillance capabilities and triggering alerts for deviation from prescribed Swachhta and Green Growth standards to prompt on ground intervention to guide the post office concerned to make necessary changes to conform to set expectations.	Software	SIH1751	Clean & Green Technology
218	National Critical Information Infrastructure Protection Center (NCIIPC)	Creating a Comprehensive Web Application Fuzzer	Software	SIH1750	Miscellaneous
217	National Critical Information Infrastructure Protection Center (NCIIPC)	Recovery of Deleted Data and Associated Metadata from XFS and Btrfs Filesystems	Software	SIH1749	Blockchain & Cybersecurity
216	National Critical Information Infrastructure Protection Center (NCIIPC)	Creating a Framework for Static Analysis of Vulnerabilities in Android Applications	Software	SIH1748	Miscellaneous
215	National Critical Information Infrastructure Protection Center (NCIIPC)	Improving Android security: Application security for mobile app on Android 14 or higher	Software	SIH1747	Miscellaneous
214	National Critical Information Infrastructure Protection Center (NCIIPC)	Improving open source software security using Fuzzing	Software	SIH1746	Blockchain & Cybersecurity
213	National Critical Information Infrastructure Protection Center (NCIIPC)	De-anonymizing of entities on the onion sites operating on TOR Network	Software	SIH1745	Blockchain & Cybersecurity
212	National Investigation Agency (NIA)	Creating a cyber triage tool to streamline digital forensic investigation	Software	SIH1744	Blockchain & Cybersecurity
211	National Investigation Agency (NIA)	Parsing of Social Media Feeds	Software	SIH1743	Miscellaneous

210	Ministry of Education	Standardizing Odd School Structures to Improve Educational Policy Implementation and Resource Allocation	Software	SIH1742	Smart Automation
209	Indian Space Research Organization (ISRO)	Centralized application-context aware firewall	Software	SIH1741	Blockchain & Cybersecurity
208	Indian Space Research Organization (ISRO)	Development of map-matching algorithm using AI-ML techniques to distinguish vehicular movement on highway and service road	Software	SIH1740	Smart Automation
207	Indian Space Research Organization (ISRO)	Building Integrated Photo-voltaic (BIPV) potential assessment and visualisation using LOD-1 3D City Model	Software	SIH1739	Renewable / Sustainable Energy
206	Indian Space Research Organization (ISRO)	Innovative applications of cloud-optimized geotiffs for INSAT satellite data	Software	SIH1738	Clean & Green Technology
205	Indian Space Research Organization (ISRO)	Automatic Modulation Recognition software for DVB -S2X waveforms	Software	SIH1737	Smart Automation
204	Indian Space Research Organization (ISRO)	AI based frame interpolation, video generation and display system for WMS services	Software	SIH1736	Smart Automation
203	Indian Space Research Organization (ISRO)	On-device semantic segmentation of WMS services with geospatial data export	Software	SIH1735	Smart Automation
202	Indian Space Research Organization (ISRO)	Downscaling of Satellite based air quality map using AI/ML	Software	SIH1734	Clean & Green Technology
201	Indian Space Research Organization (ISRO)	SAR Image Colorization for Comprehensive Insight using Deep Learning Model (h)	Software	SIH1733	Space Technology
200	Indian Space Research Organization (ISRO)	Enhancement of Permanently Shadowed Regions (PSR) of Lunar Craters Captured by OHRC of Chandrayaan-2	Software	SIH1732	Space Technology
199	MathWorks India Private Limited	SolarQuest: Innovate to Capture More Sunlight and Boost Energy	Software	SIH1731	Clean & Green Technology
198	AICTE	AI driven Inspection of Institutions	Software	SIH1730	Smart Automation
197	AICTE	AI supported AICTE Approval process portal	Software	SIH1729	Smart Automation
196	AICTE	Development of a Paperless Scholarship Disbursement System for PMSSS	Software	SIH1728	Miscellaneous
195	Ministry of Housing and Urban Affairs	Universal Switch Set with Data Encryption and Decryption for Legacy Applications without Cyber Safety Measures	Software	SIH1727	Blockchain & Cybersecurity
194	Ministry of Housing and Urban Affairs	Utilization of aerial/ drone-based images for monitoring of progress of construction activities for building construction projects	Software	SIH1726	Smart Automation
193	Ministry of Housing and Urban Affairs	Utilization of images for monitoring of progress of construction activities for building construction projects.	Software	SIH1725	Smart Automation

192	Ministry of Housing and Urban Affairs	Platform for Inter-departmental cooperation (at city level) in Indian Cities, for sharing data & resources, unified phasing, planning and implementation of projects.	Software	SIH1724	Miscellaneous
191	National Aluminium Company Limited (NALCO)	Prediction of Aluminium wire rod physical properties through AI, ML or any modern technique for better productivity and quality control.	Software	SIH1723	Miscellaneous
190	Ministry of Youth Affairs & Sports	Gamification of Anti-Doping Information	Software	SIH1722	Smart Education
189	Ministry of Youth Affairs & Sports	Intelligence and Investigations - Enhancing Anti-Doping Efforts	Software	SIH1721	Smart Automation
188	Ministry of Youth Affairs & Sports	Education & Awareness - Effective Use of Technology for Dissemination of Anti-Doping Information	Software	SIH1720	Smart Education
187	Ministry of Social Justice and Empowerment	Monitoring System for classroom session in skill training programme	Software	SIH1719	Smart Education
186	Ministry of Social Justice and Empowerment	Capturing Non-manual features of Indian Sign Language and converting it into text	Software	SIH1718	Miscellaneous
185	Ministry of Social Justice and Empowerment	Indian Version of Nagish App	Software	SIH1717	Miscellaneous
184	Ministry of Social Justice and Empowerment	Indian Sing Language to Text/Speech translation	Software	SIH1716	Miscellaneous
183	Ministry of Social Justice and Empowerment	AI tool/mobile app for Indian Sign language(ISL) generator from audio-visual content in English/Hindi to ISL content and vice-versa	Software	SIH1715	Miscellaneous
182	Ministry of Social Justice and Empowerment	Software for Speech Language Therapy Clinical Services	Software	SIH1714	MedTech / BioTech / HealthTech
181	Ministry of Social Justice and Empowerment	Interactive Skills Enhancer (ISE): A Virtual Reality-Based Learning Tool for Children with ASD and ID	Software	SIH1713	Smart Education
180	Ministry of Social Justice and Empowerment	Interactive Skills Enhancer (ISE): A Virtual Reality-Based Learning Tool for Children with ASD and ID	Software	SIH1712	Smart Education
179	Ministry of Railway	Enhancing Rail Madad with AI-powered Complaint Management	Software	SIH1711	Smart Automation
178	Ministry of Railway	Enhancing Navigation for Railway Station Facilities and Locations	Software	SIH1710	Transportation & Logistics
177	Ministry of Power	Comprehensive Automated Document Verification System for Official Documentation	Software	SIH1709	Smart Automation
176	GAIL, Ministry of Petroleum and Natural Gas	Tool for secure automatic network topology creation.	Software	SIH1708	Miscellaneous
175	GAIL, Ministry of Petroleum and Natural Gas	Development of a Geolocation-Based Attendance Tracking Mobile Application.	Software	SIH1707	Miscellaneous
174	GAIL, Ministry of Petroleum and Natural Gas	Intelligent Enterprise Assistant: Enhancing Organizational Efficiency through AI-driven Chatbot Integration	Software	SIH1706	Miscellaneous
173	Ministry of Panchayati Raj	Development and Optimization of AI model for Feature identification/Extraction from drone orthophotos.	Software	SIH1705	Robotics and Drones
172	Ministry of Panchayati Raj	Gamification for Rural Planning using Drone land survey maps and GIS data.	Software	SIH1704	Robotics and Drones
171	Ministry of Law & Justice	Let's Learn Constitution in a Simpler Manner-Citizen Perspective	Software	SIH1703	Smart Education
170	Ministry of Law & Justice	Bail Reckoner	Software	SIH1702	Smart Automation

169	Ministry of Law & Justice	AI-Driven Research Engine for Commercial Courts	Software	SIH1701	Smart Automation
168	Ministry of Law & Justice	Developing an AI based interactive Chatbot or virtual assistant for the Department of Justice's Website.	Software	SIH1700	Smart Automation
167	Ministry of Law & Justice	Let's Learn Constitution in a Simpler Manner-Institution Perspective	Software	SIH1699	Miscellaneous
166	Ministry of Jal Shakti	Development of an educational game (web-based and mobile- based) on groundwater conservation and management	Software	SIH1698	Smart Education
165	Ministry of Jal Shakti	AI based chatbot for collating and dissemination of information on groundwater.	Software	SIH1697	Smart Automation
164	Ministry of Jal Shakti	A software application - Ground Water Level Predictor	Software	SIH1696	Smart Automation
163	Ministry of Jal Shakti	A software application for analysis of DWLR data and raise alarms in respect of anomalous values, faulty DWLRs etc	Software	SIH1695	Smart Automation
162	Ministry of Jal Shakti	Real-time Ganga river water quality forecasting using AI- enabled DSS, satellite data, IoT, and dynamic models.	Software	SIH1694	Smart Automation
161	Ministry of Jal Shakti	Developing a Robust Hydraulic Transient Analysis Model for Hydro Power and Pumped Storage Schemes.	Software	SIH1693	Smart Automation
160	Ministry of Jal Shakti	Forecasting Future Water Requirements and Assessing Storage Capacities in Reservoirs	Software	SIH1692	Smart Education
159	Ministry of Jal Shakti	Adaption of 'Existing Command Area in Response to Shifting of Agricultural Practices	Software	SIH1691	Miscellaneous
158	Ministry of Jal Shakti	Use of Digital Knowledge Sharing Platform like Wikis on sharing of water efficient techniques and methods for minimizing water scarcity.	Software	SIH1690	Clean & Green Technology
157	Ministry of Jal Shakti	Use of Digital Technology to calculate Water Footprints for different Agricultural Products	Software	SIH1689	Clean & Green Technology
156	Ministry of Jal Shakti	Development of handheld device/Mobile based Operation & Maintenance tool for asset & consumables inventories and finance management in context of drinking water supply scheme.	Software	SIH1688	Smart Automation
155	Ministry of Home Affairs, The National Disaster Response Force (NDRF)	Real-Time Disaster Information Aggregation Software	Software	SIH1687	Disaster Management
154	National Technical Research Organisation (NTRO)	Tools and techniques for customisation of GPO as per CIS guidelines to deploy on offline / standalone windows.	Software	SIH1686	Smart Automation
153	National Technical Research Organisation (NTRO)	Building Offline Parallel AV Pipeline to cater multiple AVs for CII entities.	Software	SIH1685	Smart Automation
152	National Technical Research Organisation (NTRO)	Agent-less Windows System Vulnerability and Network Scanner	Software	SIH1684	Blockchain & Cybersecurity
151	National Technical Research Organisation (NTRO)	Development of AI/ML based solution for detection of face-swap based deep fake videos	Software	SIH1683	Miscellaneous
150	National Technical Research Organisation (NTRO)	Centralized Automated Solution for Price Estimation & Reasonability.	Software	SIH1682	Smart Automation

149	National Technical Research Organisation (NTRO)	Identification of algorithm from the given dataset using AI/ML Techniques.	Software	SIH1681	Blockchain & Cybersecurity
148	National Technical Research Organisation (NTRO)	Few Shot Language Agnostic Key Word Spotting system (FSLAKWS) for audio files.	Software	SIH1680	Smart Automation
147	National Technical Research Organisation (NTRO)	Development of Audit script for Windows 11 and Linux OS as per CIS (Centre for Internet Security) bench mark	Software	SIH1679	Blockchain & Cybersecurity
146	National Technical Research Organisation (NTRO)	RE-DACT	Software	SIH1678	Blockchain & Cybersecurity
145	National Technical Research Organisation (NTRO)	Developing a tool to provide for real time feeds of cyber incident pertaining to Indian Cyber Space.	Software	SIH1677	Blockchain & Cybersecurity
144	National Technical Research Organisation (NTRO)	Web-scrapping tool to be developed to search and report Critical and High Severity Vulnerabilities of OEM equipment (IT and OT) published at respective OEM websites and other relevant web platforms.	Software	SIH1676	Blockchain & Cybersecurity
143	Narcotics Control Bureau (NCB)	Software solution to identify the end receiver of a cryptocurrency transaction	Software	SIH1675	Blockchain & Cybersecurity
142	Narcotics Control Bureau (NCB)	Software solutions to identify users behind Telegram, WhatsApp and Instagram based drug trafficking.	Software	SIH1674	Blockchain & Cybersecurity
141	Ministry of Fisheries, Animal Husbandry and Dairying	Farmers Disease Diagnostic/Reporting Portal - Mobile Portal AI Based	Software	SIH1673	Agriculture, FoodTech & Rural Development
140	Ministry of Electronics and Information Technology	Develop a ML Model based solution to refine CAPTCHA.	Software	SIH1672	Smart Automation
139	Ministry of Electronics and Information Technology	Develop a functional solution that demonstrates the face liveness detection	Software	SIH1671	Smart Automation
138	Ministry of Electronics and Information Technology	Develop a functional solution that incorporates the security of the ML model.	Software	SIH1670	Smart Automation
137	Ministry of Electronics and Information Technology	Transformo Docs Application: Empowering Machine-Readable Document Management System.	Software	SIH1669	Smart Automation
136	Ministry of Electronics and Information Technology	Creating an application to identify the presence of government issued personally identifiable information (PII) embedded in documents and data, inadvertently or otherwise.	Software	SIH1668	Blockchain & Cybersecurity
135	Ministry of Education	Integrate Industry-Relevant Vocational Training into Elementary and Secondary Education Curriculum	Software	SIH1667	Smart Education



134	Ministry of Education	Develop Effective Career Counselling and Guidance Programs in Schools to Enhance Student Career Choices	Software	SIH1666	Smart Education
133	Ministry of Education	Develop Software Solutions to Enhance Educational Infrastructure and Connectivity in Rural Areas	Software	SIH1664	Miscellaneous
132	Ministry of Education	Implement Software Solutions to Reduce Student Dropout Rates at Various Educational Stages	Software	SIH1661	Smart Education
131	Ministry of Earth Sciences	Interactive gamified approach to Ocean Literacy	Software	SIH1660	Smart Automation
130	Ministry of Earth Sciences	Data download Duplication Alert System (DDAS)	Software	SIH1659	Miscellaneous
129	Ministry of Earth Sciences	Development of a versatile and fast algorithm for the optimal ship routing	Software	SIH1658	Transportation & Logistics
128	Ministry of Earth Sciences	Integrated Geo-Referenced Fish Catch Data Repository and Access System	Software	SIH1657	Smart Automation
127	Ministry of Earth Sciences	Development of a mobile application to provide recreational suitability information of beach locations across India.	Software	SIH1656	Travel & Tourism
126	Ministry of Earth Sciences	Detecting oil spills at marine environment using Automatic Identification System (AIS) and satellite datasets	Software	SIH1655	Smart Automation
125	Ministry of Defence	Determining expert relevance with respect to interview board subject and candidates' area of expertise	Software	SIH1654	Smart Automation
124	Ministry of Defence	Web based Selector-Applicant Simulation Software	Software	SIH1653	Smart Automation
123	Ministry of Defence	Extraction and Verification of Information from semi-categorised data.	Software	SIH1652	Smart Automation
122	Ministry of Defence	Microphone array-based direction of arrival for gunshot detection	Software	SIH1651	Miscellaneous
121	Ministry of Defence	Early Warning System for Glacial Lake Outburst Floods (GLOFs)	Software	SIH1650	Disaster Management
120	Ministry of Defence	DDoS Protection System for Cloud: Architecture and Tool	Software	SIH1649	Blockchain & Cybersecurity
119	Ministry of Culture	Online Chatbot based ticketing system	Software	SIH1648	Travel & Tourism
118	Ministry of Consumer Affairs, Food and Public Distribution	Development of AI-ML based models for predicting prices of agri-horticultural commodities such as pulses and vegetable (onion, potato, onion)	Software	SIH1647	Agriculture, FoodTech & Rural Development
117	Ministry of Coal	App based Project monitoring of S&T/ R&D Projects of Coal Sector	Software	SIH1646	Smart Automation
116	Ministry of Coal	An app and web based software for Productivity and safety management of coal mines.	Software	SIH1645	Smart Automation
115	Ministry of Coal	A web application specifically designed for Indian coal mines to quantify their carbon footprint and explore pathways to carbon neutrality.	Software	SIH1644	Renewable / Sustainable Energy
114	Ministry of AYUSH	Portal for innovation Excellence Indicators	Software	SIH1643	Smart Education
113	Ministry of AYUSH	A comprehensive AYUSH Startup Registration Portal to streamline the registration process for startups in the AYUSH sector, enhancing efficiency, transparency, and accessibility.	Software	SIH1642	MedTech / BioTech / HealthTech
112	Ministry of AYUSH	create an Annual Report Portal for institute where all the departmental reports can be integrated and customized	Software	SIH1641	Smart Education
111	Ministry of Agriculture and Farmers Welfare	Assured Contract Farming System for Stable Market Access	Software	SIH1640	Agriculture, FoodTech & Rural Development
110	Ministry of Agriculture and Farmers Welfare	Sustainable Fertilizer Usage Optimizer for Higher Yield	Software	SIH1639	Agriculture, FoodTech & Rural Development



109	Ministry of Agriculture and Farmers Welfare	AI-Driven Crop Disease Prediction and Management System	Software	SIH1638	Agriculture, FoodTech & Rural Development
108	Ministry of Agriculture and Farmers Welfare	Mobile App for Direct Market Access for Farmers	Software	SIH1637	Agriculture, FoodTech & Rural Development
107	Government of Rajasthan	Intelligent platform to Interconnect Alumni and Student for Technical Education Department, Govt. of Rajasthan	Software	SIH1633	Smart Education
106	Government of Rajasthan	An Interactive Job and Internship Platform for Technical Education Department, Govt. of Rajasthan	Software	SIH1632	Smart Education
105	Government of Rajasthan	AI-Powered Student Assistance Chatbot for Department of Technical Education, Government of Rajasthan.	Software	SIH1631	Smart Education
104	Government of Punjab	Mentor Connect	Software	SIH1630	Smart Education
103	Government of Punjab	Freelancing Platform	Software	SIH1629	Smart Education
102	Government of Punjab	Smart Competency Diagnostic and Candidate Profile Score Calculator	Software	SIH1628	Smart Education
101	Government of NCT of Delhi	Drug Inventory and supply chain Tracking system	Software	SIH1627	MedTech / BioTech / HealthTech
100	Government of NCT of Delhi	Health Data Information & Management System Mobile Application (HDIMS)	Software	SIH1626	MedTech / BioTech / HealthTech
99	Government of NCT of Delhi	Smart Classroom Management Software for Enhanced Learning Environments	Software	SIH1625	Smart Automation
98	Government of NCT of Delhi	To develop an Artificial Intelligence (AI) based model for electricity demand projection including peak demand projection for Delhi Power system	Software	SIH1624	Smart Automation
97	Government of NCT of Delhi	real-time monitoring and evaluation software for application received in Fire Department relating to inspections, follow-ups, issue of NOCs	Software	SIH1623	Smart Automation
96	Government of NCT of Delhi	Online issuance of Caste and other certificates by Revenue Department need real-time monitoring	Software	SIH1622	Smart Automation
95	Government of NCT of Delhi	Online testing and monitoring of quality of medicines and consumables	Software	SIH1621	MedTech / BioTech / HealthTech
94	Government of NCT of Delhi	Queuing models in OPDs/ availability of beds/ admission of patients. A hospital based solution is ideal which can be integrated with city wide module	Software	SIH1620	MedTech / BioTech / HealthTech
93	Government of NCT of Delhi	Online real-time survey and monitoring of water bodies in Delhi	Software	SIH1619	Miscellaneous
92	Government of NCT of Delhi	Online monitoring of Unauthorized construction across the city	Software	SIH1618	Robotics and Drones
91	Government of NCT of Delhi	Dynamic route rationalization model based on machine learning/AI would be required based on real-time traffic and road parameters.	Software	SIH1617	Smart Automation
90	Government of NCT of Delhi	The technological solutions for capturing AQI values through mobile and other forms of stations	Software	SIH1616	Clean & Green Technology
89	Government of NCT of Delhi	Learning path dashboard for enhancing skills	Software	SIH1615	Smart Education
88	Government of NCT of Delhi	Publications summary generator for faculty members profile building	Software	SIH1614	Smart Education
87	Government of NCT of Delhi	Automated System for Career Advancements of the Faculties of Higher Education	Software	SIH1613	Smart Education
86	Government of NCT of Delhi	Automated Bus Scheduling and Route Management System for Delhi Transport Corporation	Software	SIH1612	Smart Vehicles

85	Government of Himachal Pradesh	Drone-Based Intelligent System for Apple Orchard Management in Himachal Pradesh	Hardware	SIH1611	Agriculture, FoodTech & Rural Development
84	Government of Gujarat	Learning App for Deaf And Mute and sign language-English/Gujarati converter	Software	SIH1610	Smart Education
83	Government of Gujarat	Implementation of the Alumni Association platform for the University/Institute.	Software	SIH1609	Smart Education
82	Government of Gujarat	Enhancing Monitoring and Management of Research, IPR, Innovation, and Start-ups in Gujarat State	Software	SIH1608	Smart Education
81	Department of Science and Technology	A smart AI based solution for traffic management on routes with heavy traffic from different directions, with real-time monitoring and adaptation of traffic light timings	Software	SIH1607	Smart Automation
80	Bharat Electronics Limited (BEL)	Micro-Doppler based Target Classification	Software	SIH1606	Robotics and Drones
79	Bharat Electronics Limited (BEL)	Women Safety Analytics – Protecting Women from safety threats	Software	SIH1605	Miscellaneous
78	Bharat Electronics Limited (BEL)	Conversational Image Recognition Chatbot	Software	SIH1604	Smart Automation
77	Autodesk	Research and develop a design on “ autonomous water surface cleaning robot “	Software	SIH1603	Robotics and Drones
76	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1602	Space Technology
75	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1601	Toys & Games
74	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1600	Smart Automation
73	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1599	Fitness & Sports
72	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1598	Heritage & Culture
71	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1597	MedTech / BioTech / HealthTech
70	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1596	Agriculture, FoodTech & Rural Development
69	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1595	Smart Vehicles
68	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1594	Transportation & Logistics
67	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1593	Robotics and Drones
66	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1592	Clean & Green Technology
65	AICTE, MIC-Student Innovation	Student Innovation	Software	SIH1591	Transportation & Logistics

64	AICTE, MIC- Student Innovation	Student Innovation	Software	SIH1590	Renewable / Sustainable Energy
63	AICTE, MIC- Student Innovation	Student Innovation	Software	SIH1589	Blockchain & Cybersecurity
62	AICTE, MIC- Student Innovation	Student Innovation	Software	SIH1588	Miscellaneous
61	AICTE, MIC- Student Innovation	Student Innovation	Software	SIH1587	Disaster Management
60	AICTE, MIC- Student Innovation	Student Innovation	Software	SIH1586	Smart Education
59	Ministry of Housing and Urban Affairs	Development of Portable EMI/EMC, induction measurement Instruments.	Hardware	SIH1585	Miscellaneous
58	Ministry of Housing and Urban Affairs	AI based acoustic wave monitoring of rail defects like cracks, fracture and prediction for rail wear, quality along with other parameter.	Hardware	SIH1584	Transportation & Logistics
57	Ministry of Housing and Urban Affairs	Condition-based monitoring and maintenance system.	Hardware	SIH1583	Miscellaneous
56	Ministry of Housing and Urban Affairs	System to check the healthiness of earthing system and alert staff in case of any malfunction;	Hardware	SIH1582	Miscellaneous
55	Ministry of Social Justice and Empowerment	Development of cost-effective myoelectric prosthesis.	Hardware	SIH1581	MedTech / BioTech / HealthTech
54	Ministry of Social Justice and Empowerment	Wearable sensor with Artificial Intelligence for prevention of falls in elderly people	Hardware	SIH1580	MedTech / BioTech / HealthTech
53	Ministry of Social Justice and Empowerment	Developing writing pen and writing pad for children with Specific learning disability.	Hardware	SIH1579	Smart Education
52	Ministry of Social Justice and Empowerment	Video call intercom based on analog/IP system with vibration sensor	Hardware	SIH1578	Miscellaneous
51	Ministry of Power	Development of co-electrolyzer : which would synthesize organic chemicals like methanol and inorganic chemicals like ammonia in a single stage.	Hardware	SIH1577	Clean & Green Technology
50	Ministry of Power	Reducing the carbon emissions from thermal plants, developing ways of Carbon capture and utilisation through value added products	Hardware	SIH1576	Clean & Green Technology
49	Ministry of Power	Developing innovative solution for efficient management of waste and conversion to valuable products, Waste to Energy- waste recycling	Hardware	SIH1575	Clean & Green Technology
48	Ministry of Power	Build a detailed concept for an industrial scale green hydrogen (> 50 TPD) production facility, with a levelized cost of hydrogen (LCOH) below \$2 USD per kg.	Hardware	SIH1574	Clean & Green Technology
47	Ministry of Power	Sustainable Utilization of 100% of Ash from Coal based Thermal Power Plants.	Hardware	SIH1573	Renewable / Sustainable Energy
46	Ministry of Power	Design/Development of an efficient Energy Storage System (ESS) to integrate intermittent Renewable Energy sources and to support/stabilize the grid.	Hardware	SIH1572	Renewable / Sustainable Energy
45	Ministry of Jal Shakti	Drone-based Intelligent ET sensing system and irrigation water use accounting system for irrigation commands.	Hardware	SIH1571	Robotics and Drones

44	Ministry of Jal Shakti	Designing and development of a pressure transducer based equipment with a well cap for measurement of heads in autoflow wells	Hardware	SIH1570	Miscellaneous
43	Ministry of Jal Shakti	Personalized testing kits for testing Residual Chlorine level at delivery points	Hardware	SIH1569	Smart Automation
42	Ministry of Jal Shakti	GOBARDhan - Simple control systems and/or instrumentation for small biogas plants that will allow better process control leading to effective digestion and improved yield of biogas.	Hardware	SIH1568	Clean & Green Technology
41	Ministry of Jal Shakti	Grey Water Management (GWM) - Designing low-cost testing kits capable of detecting bacterial, faecal, and microbial contaminants in groundwater.	Hardware	SIH1567	Clean & Green Technology
40	Ministry of Home Affairs, The National Disaster Response Force (NDRF)	Enhancing body detection in CSSR Operations Using Advanced Technology	Hardware	SIH1566	Disaster Management
39	National Technical Research Organisation (NTRO)	Target detection by optimizing Anomaly Detection in Hyperspectral Image Processing using AI/ML	Hardware	SIH1565	Clean & Green Technology
38	National Technical Research Organisation (NTRO)	Automatic Road Extraction and alert generation for new roads	Hardware	SIH1564	Space Technology
37	National Technical Research Organisation (NTRO)	Automatic Change detection in Synthetic Aperture Radar satellite images	Hardware	SIH1563	Space Technology
36	Narcotics Control Bureau (NCB)	Solution for end-to-end tracking of dual use chemicals used in both legitimate industries and illicit drug production from point of manufacture to point of end use/export.	Hardware	SIH1562	Blockchain & Cybersecurity
35	Ministry of Fisheries, Animal Husbandry and Dairying	Affordable, Sustainable, and User-friendly Solutions for Semen Dose Storage and Distribution	Hardware	SIH1561	Agriculture, FoodTech & Rural Development
34	Ministry of Fisheries, Animal Husbandry and Dairying	Rapid colorimetric and artificial intelligence-based methods for determining the microbial quality of raw milk, processed milk, and milk products	Hardware	SIH1560	MedTech / BioTech / HealthTech
33	Ministry of Electronics and Information Technology	Develop a functional solution that demonstrates the hardware enabled root of trust.	Hardware	SIH1559	Smart Automation
32	Ministry of Culture	AI-based automated defective exhibit identification system placed in a gallery.	Hardware	SIH1558	Smart Automation
31	Ministry of Coal	Development of Tyre Maintenance and Operation App, including fitment of necessary IIoT related hardware in Dumpers	Hardware	SIH1557	Smart Automation
30	Ministry of AYUSH	Develop a Smart Yoga Mat integrated with Artificial Intelligence (AI) capabilities to support smart watch integration for tracking progress and provide curated yoga content by experts, while ensuring its affordability.	Hardware	SIH1556	MedTech / BioTech / HealthTech
29	Ministry of AYUSH	Create a Virtual Herbal Garden that provides an interactive, educational, and immersive experience to users, showcasing the diverse range of medicinal plants used in AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy).	Hardware	SIH1555	MedTech / BioTech / HealthTech

28	Ministry of Agriculture and Farmers Welfare	Smart Irrigation System for Precision Farming	Hardware	SIH1554	Agriculture, FoodTech & Rural Development
27	Department of Science and Technology	Development of portable device (non-contact device) for measurement of eye pressure in glaucoma patients for usage at home.	Hardware	SIH1550	MedTech / BioTech / HealthTech
26	Department of Science and Technology	Development of chemical strip (non-electronic) for identification of high temperature exposure in transportation of medicines/vaccines/FMCG goods, to ensure its usability.	Hardware	SIH1549	MedTech / BioTech / HealthTech
25	Department of Science and Technology	Development of a suction based low-cost flush (with less water usage) for deployment in rural areas.	Hardware	SIH1548	Miscellaneous
24	Department of Science and Technology	Development of an alternative technology to check blockage of blood vessels (an alternative to conventional angiography).	Hardware	SIH1547	MedTech / BioTech / HealthTech
23	Department of Science and Technology	Development of innovative design for flushing systems in western toilet sheets which can be used for deployment in public toilets.	Hardware	SIH1546	Miscellaneous
22	Department of Science and Technology	Development of a non-electrical device for tracking the movement of the sun for movement of the solar panels, increasing their efficiency.	Hardware	SIH1545	Renewable / Sustainable Energy
21	Autodesk	Students are supposed to use Fusion software to generate NC code with machine details & tool library for any industrial component. students should possess technical skills in areas such as CAD/CAM software, G-code programming, toolpath optimization, and machining fundamentals. Additionally, their project ideas should demonstrate a viable solution to a real-world problem, ensuring feasibility and practicality in implementation.	Hardware	SIH1544	Smart Automation
20	Autodesk	Research and redesign a conventional aerospace component commonly found in air vehicles and utilize Fusion software to reimagine its design. Students can use Fusion Features such as Generative Design, Topology Optimization, Additive Build etc. The redesigned component should showcase innovation, enhanced functionality, and improved efficiency, all while being optimized for 3D printing.	Hardware	SIH1543	Smart Automation
19	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1542	Space Technology
18	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1541	Toys & Games
17	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1540	Smart Automation
16	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1539	Fitness & Sports
15	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1538	Heritage & Culture
14	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1537	MedTech / BioTech / HealthTech
13	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SIH1536	Agriculture, FoodTech & Rural Development

12	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1535	Smart Vehicles
11	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1534	Transportation & Logistics
10	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1533	Robotics and Drones
9	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1532	Clean & Green Technology
8	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1531	Transportation & Logistics
7	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1530	Renewable / Sustainable Energy
6	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1529	Blockchain & Cybersecurity
5	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1528	Miscellaneous
4	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1527	Disaster Management
3	AICTE, MIC- Student Innovation	Student Innovation	Hardware	SIH1526	Smart Education
2	Godrej Appliances	Innovating for Sustainability: Driving Smart Resource Conservation (Energy & Water) in Home Appliances (Refrigerators, Air Conditioners, Washing Machines and Desert Air Coolers)	Software	SIH1525	Smart Resource Conservation
1	Godrej Appliances	Innovating for Sustainability: Driving Smart Resource Conservation (Energy & Water) in Home Appliances (Refrigerators, Air Conditioners, Washing Machines and Desert Air Coolers)	Hardware	SIH1524	Smart Resource Conservation