

# MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

## FINAL PARTICIPATION REPORT

# GOVERNMENT ACHIEVEMENTS & SCHEMES EXPO-2026

25–27 July 2026 | Bharat Mandapam, Pragati Maidan, New Delhi



*MNIT Jaipur representatives with the event dignitary during the concluding ceremony at Bharat Mandapam, New Delhi.*

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Dr. Sundeep Kumar</b> | Assistant Professor, Department of Management Studies,<br>Malaviya National Institute of Technology Jaipur |
| <b>Kushagra Singh</b>    | B.Tech Student, Department of Mechanical Engineering,<br>Malaviya National Institute of Technology Jaipur  |

## 1. Executive Summary

Malaviya National Institute of Technology Jaipur participated in the Government Achievements & Schemes Expo-2026, held from 25 to 27 July 2026 at Bharat Mandapam, Pragati Maidan, New Delhi. Organized by NNS Media Group with four concurrent sectoral expos, the event brought together more than 100 exhibitors and attracted thousands of visitors from more than 25 states. The platform connected government departments, autonomous bodies, public-sector undertakings, higher-education institutions, industry professionals, academics, students and the general public.

The MNIT Jaipur stall displayed eight interdisciplinary posters and supporting visual or material demonstrations. The exhibit portfolio communicated the Institute's contribution to biodegradable materials, pilgrimage crowd management, lithium-ion battery health monitoring, artificial-intelligence-enabled diagnostics, digital financial inclusion and startup incubation. The representatives explained the projects to school and college students, teachers, officials, professionals and members of the public through audience-specific presentations and question-and-answer interactions.

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Event</b>                        | Government Achievements & Schemes Expo-2026                                                  |
| <b>Dates and venue</b>              | 25–27 July 2026; Bharat Mandapam, Pragati Maidan, New Delhi                                  |
| <b>Organizer</b>                    | NNS Media Group                                                                              |
| <b>MNIT Jaipur representatives</b>  | Dr. Sundeep Kumar and Kushagra Singh                                                         |
| <b>Exhibit portfolio</b>            | Eight interdisciplinary posters with visual and material demonstrations                      |
| <b>Primary engagement</b>           | Students, teachers, professionals, officials and general visitors                            |
| <b>Official participation scale</b> | 100+ exhibitors across government, public-sector, institutional and technology domains       |
| <b>Recorded audience reach</b>      | Thousands of attendees representing more than 25 states                                      |
| <b>Post-show programme features</b> | Workshops, seminars, interactive sessions, product/service demonstrations and media coverage |

The participation culminated in MNIT Jaipur being awarded 1st Prize for “Excellence in Translating Technology into Societal Impact.” The recognition reflected the Institute's ability to communicate technically diverse work through clear public-facing explanations and to connect research outcomes with sustainability, accessible healthcare, safer public systems, inclusive livelihoods and national development. The Expo also drew the presence and support of public representatives, farmer leaders, educationists, officials and sector stakeholders, thereby creating a wider platform for dialogue and institutional visibility.

## 2. Institutional Leadership, Guidance and Delegation

The national-level participation was enabled through the leadership, administrative support and coordination of MNIT Jaipur. The contribution of the following institutional leaders and representatives is gratefully recorded.

| Name                           | Role and contribution                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prof. N. P. Padhy</b>       | Director, MNIT Jaipur — institutional leadership, encouragement and approval for national-level representation.                                                |
| <b>Prof. Kanupriya Sachdev</b> | Dean of Students Welfare, MNIT Jaipur — administrative guidance, student-support facilitation and institutional coordination.                                  |
| <b>Dr. Aneesh Prabhakar</b>    | Assistant Professor and Flagship Coordinator, Centre for Energy & Environment, MNIT Jaipur — programme facilitation and coordination support.                  |
| <b>Dr. Sundeep Kumar</b>       | Assistant Professor, Department of Management Studies — institutional coordinator, exhibitor, presenter and visitor-engagement lead.                           |
| <b>Kushagra Singh</b>          | B.Tech Student, Department of Mechanical Engineering — student exhibitor, co-presenter and support for the sustainable-materials exhibit and stall activities. |

### Delegation responsibilities

- Coordination of the Institute's participation, exhibit preparation and on-site representation.
- Installation and sequencing of posters, arrangement of the display table, materials and digital equipment.
- Explanation of the projects at introductory, general and technical levels according to the visitor group.
- Interaction with school students, college students, teachers, officials, professionals and general visitors.
- Completion of participation, recognition and closing formalities and maintenance of the documentary record.

## 3. Official Authorization and Government Communication

MNIT Jaipur issued Office Order No. 477 dated 24 July 2026 authorizing Dr. Sundeep Kumar, Assistant Professor, Department of Management Studies, to coordinate the Institute's participation in the Government Achievements & Schemes Expo-2026 at Bharat Mandapam, New Delhi. The authorization was issued in pursuance of Ministry of Education communication No. M.11013/03/2026-CDN concerning participation in the exhibition.

### Administrative scope of participation

- Representation of MNIT Jaipur at the national exhibition and coordination of the stall.
- Preparation, transportation, installation and presentation of posters and display material.
- Engagement with visitors and communication of the Institute's research, innovation and public-welfare contributions.
- Completion of travel, accommodation, local logistics and other approved participation requirements in accordance with Institute rules.
- Submission of an institutional participation report supported by official documents, certificates and photographs.

## 4. Event Profile, Concurrent Expos and Official Post-Show Findings

The Government Achievements & Schemes Expo-2026 was organized by NNS Media Group over three days, from 25 to 27 July 2026, at Bharat Mandapam, New Delhi, together with the Rising PSEs Expo-2026, International Agriculture, Horti and Organic Expo-2026, Indian Dairy Industry and Fisheries Expo-2026, and Food and Technology Expo-2026. The official post-show report describes the exhibition as a national platform for presenting government achievements, welfare schemes, research and development initiatives, technological advances, products and services from government departments, autonomous bodies, boards, higher-education institutions, financial institutions, agencies and public-sector undertakings. The audience included government officials, industry professionals, academics, students and the general public.

|                            |                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Main event</b>          | Government Achievements & Schemes Expo-2026                                                                             |
| <b>Concurrent expos</b>    | Rising PSEs; International Agriculture Horti & Organic; Indian Dairy Industry & Fisheries; Food & Technology            |
| <b>Dates</b>               | 25, 26 and 27 July 2026                                                                                                 |
| <b>Venue</b>               | Bharat Mandapam, Pragati Maidan, New Delhi                                                                              |
| <b>Organizer</b>           | NNS Media Group                                                                                                         |
| <b>Inauguration</b>        | Inaugurated by Shri Raj Bhushan Choudhary, Hon'ble Union Minister of State for Jal Shakti, Government of India.         |
| <b>Participation scale</b> | More than 100 exhibitors representing government initiatives, institutions, agencies and PSUs.                          |
| <b>Attendance</b>          | Thousands of visitors from more than 25 states, including officials, professionals, academics, students and the public. |



*Dr. Sundeep Kumar explaining the biodegradable vegan-leather process, material samples and societal relevance to a visiting student group at the MNIT Jaipur stall.*

#### 4.1 Objectives Recorded in the Official Post-Show Report

The official post-show report identifies six interconnected objectives: showcasing the achievements and success stories of government departments, councils, boards, institutions, public-sector enterprises and agencies; promoting current and forthcoming welfare schemes; demonstrating research, development and technological advances; supporting nation building and industry through the contribution of institutions such as IITs, NITs and other higher-education institutions; fostering direct public engagement with government representatives; and encouraging networking and collaboration among government bodies, financial institutions and citizens.

#### 4.2 Participation Scale and Sectoral Breadth

More than 100 exhibitors participated, presenting flagship schemes, innovations, welfare initiatives and development milestones. The exhibition covered a broad national-development spectrum: Atomic Energy; Space and ISRO; Home Affairs; Defence; Heavy Industries; Electronics and Information Technology; Railways; Housing and Urban Affairs; AYUSH; Chemicals and Fertilizers; Civil Aviation; Coal; Commerce and Industry; Communications; Consumer Affairs, Food and Public Distribution; Corporate Affairs; CSIR; Culture; Cooperation; Development of the North Eastern Region; Earth Sciences; Education; Environment, Forest and Climate Change; External Affairs; Finance, Banking, Insurance and Research Institutions; Fisheries, Animal Husbandry and Dairying; Food Processing Industries; Health and Family Welfare; Information and Broadcasting; Jal Shakti; Labour and Employment; Law and Justice; Micro, Small and Medium Enterprises; Mines; Minority Affairs; New and Renewable Energy; Panchayati Raj; Petroleum and Natural Gas; Ports, Shipping and Waterways; Power; Road Transport and Highways; Rural Development; Science and Technology; Skill Development and Entrepreneurship; Social Justice and Empowerment; Statistics and Programme Implementation; Steel; Textiles; Tourism; Tribal Affairs; Women and Child Development; Youth Affairs and Sports; and Agriculture and Farmers Welfare.

### 4.3 Inauguration and Distinguished Visitors

The Expo was inaugurated by Shri Raj Bhushan Choudhary, Hon'ble Union Minister of State for Jal Shakti, Government of India. During his visit, the Minister interacted with exhibitors, appreciated their contributions and emphasized the value of such platforms in increasing public awareness of government welfare initiatives. The official post-show report also records the following distinguished visitors and institutional representatives.

| Distinguished visitors recorded in the official post-show report                                                   |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Shri Satinder Kumar Bhalla - Secretary, North Eastern Council, Government of India                                 | Prof. Sukanta Roy - Dean (Academic), NIT Mizoram                                           |
| Shri Shamim Akhtar (DANICS) - Special Secretary, Administrative Reforms Department, GNCTD                          | Prof. Pabitra Kumar Biswas - Dean (Research and Consultancy), NIT Mizoram                  |
| Commodore Rakesh Chillar (Retd.) - Chairman and Managing Director, Braithwaite Burn & Jessop Construction Co. Ltd. | Dr. D. P. Singh - Senior Regional Director and Head, IGNOU                                 |
| Shri Vinay Thakur - Director General, BISAG-N                                                                      | Dr. Shyni Duggal - Regional Director, IGNOU                                                |
| Shri Alok Gupta - Head, CC & PR, Central Coalfields Limited                                                        | Dr. David Pertin - Joint Registrar, Rajiv Gandhi University                                |
| Dr. Savita Arora - Director, Delhi State Cancer Institute                                                          | Dr. Dipriyalynkhei - Horticulture Development Officer, Department of Horticulture / MgSFAC |
| Lt. Col. Satyendra Panday - Joint Director (ESF), Ex-Servicemen Contributory Health Scheme                         | Shri Paras Verma - Junior Engineer, Department of Irrigation and Flood Control, Delhi      |
| Dr. Neena Thakur - Director, Delhi Jal Board                                                                       | Shri Ravi Gupta - Assistant General Manager, NALCO                                         |
| Dr. Praveen Pankaj - Director, Geological Survey of India                                                          | Shri Anil Kumar Shrivastava - Public Relations Officer, Modern Coach Factory, Raebareli    |
| Shri Rajesh Kumar - Director, National Test House, NR Ghaziabad                                                    | Shri Naresh Chaudhary - National President, Bhartiya Kisan Union                           |
| Dr. Aditya - AR/PRO, Dr. B. R. Ambedkar University Delhi                                                           | Shri Vishvendra Kumar - National Bureau Chief, National News Service                       |

In addition to the visitors listed in the organizer's report, the event also received support and presence from public representatives and stakeholder leaders, including Kamlesh Paswan and farmer leader Rakesh Tikait, along with many other educationists, officials, sector representatives and members of civil society.

### 4.4 Supporting Organizations, Workshops and Programme Features

| Organizations identified as sponsors/supporting institutions in the post-show report |                                                                                                                                               |                                           |                                         |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| NIXI                                                                                 | Airports Authority of India (AAI)                                                                                                             | Bridge & Roof Company                     | South Eastern Coalfields Limited (SECL) |
| Bharat Electronics Limited (BEL)                                                     | BBJ Kolkata                                                                                                                                   | IISER Kolkata                             | Digital India BHASHINI Division         |
| Tea Board                                                                            | NTPC                                                                                                                                          | Life Insurance Corporation of India (LIC) | IRCTC                                   |
| REC                                                                                  | PFC                                                                                                                                           | POWERGRID                                 | The New India Assurance Company         |
| Dimension                                                                            | Official post-show finding                                                                                                                    |                                           |                                         |
| <b>Workshops and seminars</b>                                                        | Sessions addressed farmer welfare and measures for making Indian agriculture more productive, with participation from experts and audiences.  |                                           |                                         |
| <b>Interactive sessions</b>                                                          | Visitors interacted directly with government officials and representatives of different departments, enabling queries and real-time feedback. |                                           |                                         |
| <b>Product and service displays</b>                                                  | Government initiatives, products and services were presented together with demonstrations of technological advances and new services.         |                                           |                                         |
| <b>Media coverage</b>                                                                | The Expo received extensive media attention, broadening dissemination of information on government achievements and welfare schemes.          |                                           |                                         |

## 4.5 Attendance, Public Engagement, Outcomes and Lessons

The official post-show report records an overwhelming response, with thousands of attendees from more than 25 states. Participants came from Uttar Pradesh, Uttarakhand, Punjab, Haryana, Bihar, Rajasthan, Mizoram, Jammu and Kashmir, Gujarat, Karnataka, Kerala, Tamil Nadu, Odisha, Himachal Pradesh, Meghalaya, Nagaland, Maharashtra, Andhra Pradesh, Sikkim, Assam, Goa, Chhattisgarh and other regions. Public interest was visible through sustained engagement at interactive booths and information counters, while feedback highlighted the value of comprehensive information and direct interaction with government and institutional representatives.

| Post-show dimension                | Finding and institutional relevance                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Increased awareness</b>         | The event raised public awareness of government programmes, institutional achievements and development initiatives.                                        |
| <b>Enhanced collaboration</b>      | Networking among government bodies, institutions, financial organizations and stakeholders generated opportunities for future collaboration.               |
| <b>Public feedback integration</b> | Visitor feedback can support improvement of future programmes, exhibits and communication approaches.                                                      |
| <b>Media impact</b>                | Wide coverage contributed to publicizing government achievements, welfare schemes and institutional initiatives.                                           |
| <b>Challenge and lesson</b>        | The post-show report identifies feedback collection as an area that can be further streamlined for systematic analysis and integration into future events. |
| <b>Overall conclusion</b>          | The Expo achieved its objectives of showcasing achievements, engaging citizens, promoting welfare schemes and strengthening cross-sector interaction.      |

## 5. Participation Objectives, Stall Arrangement and Exhibit Portfolio

### Objectives of MNIT Jaipur's participation

- Showcase selected research, technology, planning, management and incubation initiatives of MNIT Jaipur.
- Translate technical work into understandable explanations for students and general visitors.
- Demonstrate the public, industrial and national-development relevance of the displayed projects.
- Encourage young visitors to explore science, engineering, management, artificial intelligence and entrepreneurship.
- Build visibility for MNIT Jaipur as an institution connecting academic research with practical societal outcomes.

### Eight displayed exhibits

| No. | Exhibit                                                                         |
|-----|---------------------------------------------------------------------------------|
| 1   | IREAU: Biodegradable Vegan Leather from Agricultural Waste                      |
| 2   | Crowd Management Plan for Khatu Shyam Ji                                        |
| 3   | Deep Learning-Enabled Thermal Imaging for Lithium-Ion Battery Health Monitoring |
| 4   | AI-Based Automated Microscopic Urinalysis System                                |
| 5   | AI-Enabled Speaking Stethoscope for Cardiovascular Disease Detection            |
| 6   | SILICO-AI: Portable Computer-Aided Diagnostic System for Silicosis              |
| 7   | FinTech Innovation and Financial Inclusion among Street Vendors                 |
| 8   | MNIT Innovation and Incubation Centre                                           |

## 6. Consolidated Day-Wise Activity Schedule

The three-day participation was organized as a progressive sequence covering installation, visitor engagement, technical explanation, outreach, recognition and closing formalities.

| Date                        | Activity sequence                                                                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>25 July 2026 — Day 1</b> | Arrival and registration; stall allocation and setup; mounting and sequencing of posters; arrangement of materials, laptop and display equipment; internal orientation; opening visitor interactions and introductory explanations.                                                          |
| <b>26 July 2026 — Day 2</b> | Full-day public and student outreach; structured explanation of the eight exhibits; material and process demonstrations; question-and-answer sessions; interaction with teachers, professionals, officials and general visitors; photographic documentation.                                 |
| <b>27 July 2026 — Day 3</b> | Continued presentations and focused discussions; concluding visitor engagement; final documentation; participation certificates; 1st Prize for “Excellence in Translating Technology into Societal Impact”; official plaque, memento and bouquet presentation; closing and stall completion. |

## 7. Day 1 — 25 July 2026: Installation, Orientation and Opening Engagement

The first day focused on converting the allotted exhibition space into a coherent MNIT Jaipur presentation area. The representatives checked the stall, mounted the posters in a logical sequence, arranged the table and seating, placed the laptop and display material, and ensured that the projects could be explained to different audiences without congestion.

- Verification of institutional signage, poster order and lighting.
- Arrangement of sustainable-material samples, laptop-based content and explanatory material.
- Preparation of short introductory explanations for school students and detailed versions for technical visitors.
- Initial interaction with visitors and orientation regarding the wider MNIT Jaipur exhibit portfolio.
- Review of safety, material handling and visitor movement inside the stall.

## 8. Day 2 — 26 July 2026: Intensive Outreach and Demonstration

The second day recorded the highest concentration of structured interactions. Presentations were adapted according to age, background and interest. School groups received problem–solution explanations supported by visuals and examples, while technical visitors were provided with information on methodology, reported performance, implementation pathways and national relevance.

- Demonstration of how agricultural residue can be converted into a biodegradable leather-like material.
- Explanation of crowd-flow planning, holding areas, parking, signage, surveillance and emergency response for Khatu Shyam Ji.
- Discussion of thermal imaging and deep learning for rapid grading of lithium-ion battery health.
- Explanation of AI-enabled urinalysis, cardiovascular screening and silicosis detection.
- Discussion of UPI, financial inclusion and credit readiness among street vendors.
- Communication of the incubation pathway and support ecosystem available through MNIT Jaipur.

## 9. Day 3 — 27 July 2026: Concluding Presentation, Recognition and Closure

The final day combined continued visitor engagement with completion of the formal exhibition process. The representatives responded to pending questions, summarized the exhibit portfolio for new visitors, documented the stall and prepared the participation records. The closing phase also included institutional recognition, presentation of participation certificates and ceremonial award and memento activities.

- Final explanation sessions covering sustainability, public safety, health technology, finance and incubation.
- Interaction with visitors seeking additional technical or institutional information.
- Completion of photographic documentation and verification of certificates.
- Receipt of First Prize for “Excellence in Translating Technology into Societal Impact” by MNIT Jaipur.
- Presentation of the official first-prize plaque, commemorative mementos and bouquet during the concluding ceremony.
- Orderly closure of the stall and completion of the three-day institutional representation.

## 10. Educational Outreach and Visitor Engagement

A major outcome of the participation was direct educational outreach. The stall functioned as an interactive learning space where visitors could ask questions, compare applications and connect technical solutions with familiar social and industrial problems. The explanations were designed to be concise, accurate and audience appropriate.

| Visitor group               | Engagement approach                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| School students             | Simple problem–solution narratives, visual demonstrations, career motivation and encouragement to ask questions. |
| College students            | Methodology, prototype pathways, data interpretation, entrepreneurship and interdisciplinary applications.       |
| Teachers and faculty        | Educational relevance, project context, research translation and institutional collaboration possibilities.      |
| Professionals and officials | Implementation feasibility, public value, performance information, scale-up and policy relevance.                |
| General visitors            | Practical benefits, accessibility, sustainability, safety, affordability and livelihood implications.            |

### 10.1 Prominent Visitors, Stakeholder Support and Interaction Highlights

The official post-show report documents the presence of senior government officers, public-sector leaders, university administrators, scientists, institutional representatives and farmer-organization leaders. Their participation, together with the support of public figures such as Kamlesh Paswan and farmer leader Rakesh Tikait, strengthened the national character of the Expo. At the MNIT Jaipur stall, visitors engaged with the representatives through poster explanations, material demonstrations, technical questions and discussions on affordability, validation, scalability, rural deployment, environmental benefits and pathways from research to societal use.

At the MNIT Jaipur stall, the interaction moved beyond poster viewing. Visitors examined material samples, discussed the working logic of the displayed technologies and raised questions concerning affordability, validation, scalability, rural deployment, environmental benefits and pathways from laboratory research to field implementation. School and college students were encouraged to connect the exhibits with career possibilities in engineering, management, artificial intelligence, healthcare technology, sustainability and entrepreneurship.

The visitor response indicated strong interest in four recurring themes: conversion of agricultural waste into useful products; affordable and indigenous diagnostic technologies; safer management of high-footfall public spaces; and digital systems that improve inclusion, monitoring and decision-making. These conversations reinforced the importance of presenting research in language that is scientifically responsible yet understandable to diverse audiences.

## 11. Exhibit 1 — IREAU: Biodegradable Vegan Leather from Agricultural Waste

The IREAU exhibit was presented by Dr. Sundeep Kumar and Kushagra Singh. It addressed the environmental burden associated with animal leather, polyurethane-based synthetic alternatives, crop-residue burning and persistent leather waste. The project proposed conversion of agricultural residue into a leather-like material with practical product applications.

### Process and value proposition

- Rice stubble is treated, ground and converted into a homogenized material paste.
- The processed material is combined with a supporting cloth and thermally cured into leather sheets.
- The final material is designed to provide a leather-like look, touch, tensile strength and water resistance without polyurethane.
- The poster reports use of approximately 4 kg of agricultural residue per kg of leather, creating an additional value pathway for farm waste.
- The material is presented as biodegradable and recyclable, supporting circular-economy and crop-residue-management objectives.

## 12. Exhibit 2 — Crowd Management Plan for Khatu Shyam Ji

The crowd-management exhibit was presented on behalf of the AMRUT Centre for Urban Planning and Capacity Building, MNIT Jaipur. Prof. Nand Kumar was identified as Project Investigator and Dr. Sundeep Kumar as Project Co-PI and presenter. The work addressed the management of very high pilgrimage footfall at Khatu Shyam Ji through integrated spatial planning, mobility regulation, monitoring and emergency preparedness.

### Integrated intervention framework

- One-way pedestrian movement, entry–exit separation and batch-wise release.
- Holding zones and designed queue corridors to control pressure and reverse movement.
- Peripheral parking, e-rickshaw routing and improved approach-road and junction management.
- CCTV, sensors, public-address systems, dashboards and dynamic information support.
- Wayfinding signs, help points, drinking water, shade, sanitation and emergency lanes.
- Coordinated standard operating procedures linking detection, information, control, dispersal and response.

## 13. Exhibit 3 — Deep Learning-Enabled Thermal Imaging for Battery Health Monitoring

The battery-health exhibit was developed by Kartik Kumar, Ramdutt Arya, Dr. Sundeep Kumar and Dr. Kapil Pareek. It addressed the need for rapid, economical and non-destructive grading of lithium-ion cells. Thermal images captured during operation were used as inputs for deep-learning-based classification of cell health conditions.

- Fast, image-based and non-destructive detection of temperature distribution.
- Automated classification of cells with different health conditions.
- Potential for economical grading of a large number of cells compared with lengthy conventional tests.
- Fully functional prototype and patent-granted status, as reported on the poster.
- Relevance to battery manufacturing quality, pack assembly, safety, lifecycle management and electric mobility.

## 14. Exhibit 4 — AI-Based Automated Microscopic Urinalysis System

The automated urinalysis system was associated with DeepLife Innovations Pvt. Ltd. and the MNIT Innovation and Incubation Centre. It addressed the limitations of manual microscopic urinalysis, which is time-consuming, labour-intensive and dependent on trained personnel. The system integrates sample processing, microscopic image acquisition, AI-based detection and report generation.

- Sample loading in a cuvette followed by centrifugation.
- Autofocus and scanning of multiple microscopic high-power fields.
- AI-based detection and localization of urine sediments.
- User-interface reporting with automated interpretation and provision for manual verification.
- Identification of more than eight categories of sediments.
- Poster-reported sensitivity of 92.5% and precision of 91%.

The device was presented as an indigenous and affordable diagnostic solution for hospitals, laboratories, rural regions and tier-II locations, with reduced equipment and per-test costs compared with existing systems.

## 15. Exhibit 5 — AI-Enabled Speaking Stethoscope for Cardiovascular Disease Detection

The Speaking Stethoscope exhibit was developed by Faisel Mushtaq, Dr. Kuldeep Singh, Rannit Sahu, Raghav Arora and Raja Babu Panwar. It proposed an AI-enabled device capable of acquiring phonocardiogram signals, removing noise, extracting relevant features and classifying heart sounds to support frontline screening for valvular heart disease.

- Overall reported accuracy of 92% on the custom dataset.
- Classification of aortic stenosis, mitral regurgitation, mitral stenosis, normal sounds and tricuspid regurgitation.
- Potential support for paramedics and workers in remote areas where specialist expertise may be limited.
- Demonstration of how embedded artificial intelligence can convert a passive sensing instrument into a decision-support device.

## 16. Exhibit 6 — SILICO-AI Portable Diagnostic System for Silicosis

SILICO-AI is an AI-based portable computer-aided diagnostic system developed for early detection of silicosis from chest X-rays. The poster identified Faisel Mushtaq, Dr. Kuldeep Singh, Dr. Satyendra Singh Chauhan, Rajesh Kumar and Dr. Priyanka Harjule as the project team. The system combines specialized hardware, interactive software and artificial-intelligence algorithms to support detection in occupational-health and resource-constrained settings.

- Sensitivity of 97.44% and precision of 99.07% on a two-class normal/silicosis dataset.
- Sensitivity of 85% in a multiclass pulmonary-condition setting.
- Indian Patent No. 570357, as reported on the poster.
- Funding support from the Directorate of Specially-Abled People, Government of Rajasthan, as displayed on the poster.
- Potential use where timely access to radiologists and advanced diagnostic infrastructure is limited.

## 17. Exhibit 7 — FinTech Innovation and Financial Inclusion among Street Vendors

The FinTech exhibit was based on an ICSSR-sponsored project in the Department of Management Studies, MNIT Jaipur. Dr. Shweta Sharma was identified as Project PI and Dr. Sundeep Kumar as Project Co-PI and presenter. The project examined how digital financial services can strengthen street-vendor livelihoods while addressing barriers relating to trust, literacy, devices, connectivity, gender and formal credit.

- Primary survey of street vendors in Rajasthan and Karnataka and binary logistic regression for adoption determinants.
- 86% reported benefits in savings, budgeting and reduced cash risk.
- 80% reported improved income associated with digital demand.
- 83% felt empowered in their operations.
- 82% indicated that digital transaction history was still not sufficient for credit access.
- Policy emphasis on local-language literacy support, women-focused training, affordable connectivity, grievance redressal and acceptance of verified transaction histories for alternative credit assessment.

## 18. Exhibit 8 — MNIT Innovation and Incubation Centre

The MNIT Innovation and Incubation Centre exhibit communicated the Institute's technology-business incubation ecosystem, infrastructure, selection process, startup portfolio, mentoring pathway and achievements. It enabled visitors to understand how academic ideas can progress through prototype development, intellectual-property support, pilot testing, funding readiness and enterprise creation.

- Dedicated infrastructure of approximately 70,000 sq. ft.
- A footprint of 146 startups, including 24 student startups.
- 269 programmes benefiting more than 25,000 ecosystem participants.
- More than 400 incubatees and over 1,500 employment opportunities generated.
- INR 13.00 crore raised by incubatee startups.
- Support covering market research, MVP development, intellectual property, pilot testing, scaling, marketing, funding and compliance.

## 19. Integrated National Relevance and Public Value

The eight exhibits formed a coherent institutional narrative linking sustainability, safe infrastructure, industrial technology, affordable healthcare, inclusive livelihoods and entrepreneurship. Each project began with a clearly defined public or industrial problem and moved toward an evidence-based solution, prototype, implementation framework or support ecosystem.

| National-development theme                 | Contribution of the exhibit portfolio                                                                          |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Sustainability and circular economy</b> | IREAU converts agricultural residue into a biodegradable material and supports value creation from crop waste. |
| <b>Safe and resilient infrastructure</b>   | The Khatu Shyam Ji plan integrates spatial design, mobility, monitoring, amenities and emergency readiness.    |

| National-development theme              | Contribution of the exhibit portfolio                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Industrial technology and energy</b> | Thermal imaging and deep learning support faster battery-health monitoring and manufacturing quality.        |
| <b>Accessible healthcare</b>            | Urinalysis, Speaking Stethoscope and SILICO-AI apply indigenous AI-enabled systems to diagnostic access.     |
| <b>Inclusive livelihoods</b>            | The street-vendor project connects digital payments with financial well-being and formal credit readiness.   |
| <b>Innovation and enterprise</b>        | The incubation centre provides the pathway from idea to prototype, mentoring, incubation and startup growth. |

## 20. First Prize for Excellence in Translating Technology into Societal Impact

During the concluding phase of the Expo, Malaviya National Institute of Technology Jaipur was awarded 1st Prize for “Excellence in Translating Technology into Societal Impact.” The official plaque records the recognition in the name of MNIT Jaipur and links it to the Institute’s ability to translate academic and technological work into outcomes of direct public value. The award reflected the clarity of the presentation, the breadth of the interdisciplinary exhibit portfolio, the faculty–student collaboration of Dr. Sundeeep Kumar and Kushagra Singh, and the sustained engagement conducted with visitors during the three-day exhibition.

**AWARDED 1ST PRIZE TO MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR FOR EXCELLENCE IN TRANSLATING TECHNOLOGY INTO SOCIETAL IMPACT**



Official first-prize plaque presented to MNIT Jaipur for excellence in translating technology into societal impact.



Presentation of commemorative mementos to the MNIT Jaipur representatives during the concluding felicitation.



Bouquet presentation in the presence of the event dignitary during the formal award ceremony.

The close-up photograph above records the exact wording of the first-prize plaque. The accompanying felicitation photographs document the presentation of commemorative mementos and the bouquet during the concluding ceremony in the presence of the event dignitary.

## Participation certificates

The organizer also issued individual exhibitor participation certificates to Dr. Sundeep Kumar and Kushagra Singh, confirming their participation as exhibitors in the Government Achievements & Scheme Expo-2026 at Bharat Mandapam, New Delhi.



Participation certificate — Dr. Sundeep Kumar.



Participation certificate — Kushagra Singh.

## 21. Major Outcomes, Learning and Recommendations

### Major outcomes

- Participation within a national exhibition ecosystem comprising more than 100 exhibitors and thousands of visitors from over 25 states.
- Engagement with the broader event programme of workshops, interactive sessions, government and public-sector displays, live demonstrations and media outreach.
- National-level visibility for MNIT Jaipur through a multi-sector exhibition at Bharat Mandapam.
- Communication of eight interdisciplinary exhibits to students, teachers, professionals, officials and the public.
- Direct educational outreach encouraging interest in engineering, management, sustainability, AI and entrepreneurship.
- Effective faculty–student collaboration in institutional representation and public communication.
- 1st Prize for “Excellence in Translating Technology into Societal Impact,” participation certificates, the official award plaque and commemorative mementos.
- A strong documentary record for institutional reporting, outreach and future exhibition planning.

### Key learning

- Complex projects become accessible when explanations begin with a familiar problem and a practical example.
- Material samples, prototype visuals and process diagrams increase attention and questioning.
- School, college, professional and official audiences require different levels of technical detail.
- A diversified portfolio creates a stronger institutional narrative than isolated projects.
- Consistent visitor engagement, clear project communication and structured documentation strengthened institutional visibility and future follow-up.

### Recommendations for future participation

1. Prepare QR-coded one-page briefs linked to approved project pages and short videos.
2. Carry safe working demonstrations or concise prototype videos wherever feasible.
3. Prepare one-minute, three-minute and technical presentation scripts for different audiences.
4. Maintain a visitor register recording institutions, interests and potential follow-up.
5. Provide pre-event orientation to student representatives on the complete exhibit portfolio.

6. Prepare an institutional exhibit catalogue and approved caption bank before the event.

## 22. Conclusion and Acknowledgement

MNIT Jaipur's participation in the Government Achievements & Schemes Expo-2026 successfully combined institutional representation, interdisciplinary research dissemination, educational outreach and public engagement within a national event involving more than 100 exhibitors and thousands of visitors from more than 25 states. Dr. Sundeep Kumar coordinated and presented the Institute's participation, while Kushagra Singh represented the student community and supported the sustainable-materials exhibit, visitor demonstrations and wider stall activities.

The eight displayed projects demonstrated the Institute's capacity to connect academic knowledge with practical public value. The exhibit portfolio addressed agricultural-waste utilization, safe pilgrimage mobility, battery-health monitoring, affordable diagnostics, occupational health, cardiovascular screening, digital financial inclusion and startup incubation. Together, these projects reflected MNIT Jaipur's contribution to Atmanirbhar Bharat, Digital India, Startup India, sustainable development and Viksit Bharat@2047.

The 1st Prize for "Excellence in Translating Technology into Societal Impact," the official award plaque, commemorative mementos and participation certificates formally acknowledged the quality and societal relevance of MNIT Jaipur's representation. The visitor interactions demonstrated that the stall operated as an active educational and outreach platform and strengthened the visibility of MNIT Jaipur at a prominent national venue.

### Acknowledgement

The participating team expresses sincere gratitude to Prof. N. P. Padhy, Director, MNIT Jaipur, for institutional leadership and encouragement. Special thanks are extended to Prof. Kanupriya Sachdev, Dean of Students Welfare, for administrative guidance and support, and to Dr. Aneesh Prabhakar, Assistant Professor and Flagship Coordinator, Centre for Energy & Environment, for facilitation and coordination.

The team also acknowledges the Ministry of Education, Government of India; the Competent Authority and administration of MNIT Jaipur; the Department of Management Studies; the Department of Mechanical Engineering; the Centre for Energy & Environment; the AMRUT Centre for Urban Planning and Capacity Building; the MNIT Innovation and Incubation Centre; project investigators, faculty members, researchers, startup teams and students whose work was displayed; NNS Media Group and the event organizers; and all visitors, teachers and students who engaged with the MNIT Jaipur stall.

|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| <b>Prepared by</b>            | Dr. Sundeep Kumar, Assistant Professor, Department of Management Studies, MNIT Jaipur |
| <b>Student representative</b> | Kushagra Singh, B.Tech Student, Department of Mechanical Engineering, MNIT Jaipur     |
| <b>Event</b>                  | Government Achievements & Schemes Expo-2026                                           |
| <b>Venue and dates</b>        | Bharat Mandapam, New Delhi; 25–27 July 2026                                           |

### Institutional significance and follow-up potential

- The participation strengthened MNIT Jaipur's visibility among school and college communities at a prominent national venue.
- The visitor response demonstrated the value of presenting research through clear visuals, practical examples and direct dialogue.
- The faculty–student representation provided a replicable model for future exhibitions and public-outreach programmes.
- The award recognition created a benchmark for clarity, relevance and visitor engagement in future institutional participation.
- The contacts and interests generated during the Expo can support continued outreach, collaboration and dissemination of approved project information.

| Follow-up area                | Suggested institutional action                                                                   |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Educational outreach</b>   | Share approved project briefs and career-oriented material with interested schools and colleges. |
| <b>Research dissemination</b> | Route technical enquiries to the relevant investigators and project teams.                       |

| Follow-up area               | Suggested institutional action                                                                                |
|------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Innovation engagement</b> | Provide approved information on incubation, startup support and prototype development.                        |
| <b>Institutional archive</b> | Preserve official orders, certificates, award records, posters and selected photographs for future reference. |

## Official Post-Show Report - Integrated Findings and Complete Documentary Record

The organizer's four-page post-show report provides the official event-level record of the Expo's objectives, participation scale, inauguration, distinguished visitors, supporting organizations, workshops and seminars, interactive sessions, product and service displays, media coverage, attendance, public engagement, outcomes, impact and lessons learned. Every substantive point has been integrated into the main narrative of this report. For complete documentary evidence, all four pages of the official post-show report are reproduced in full in Annexure D.

**Annexure. A — MNIT Jaipur Office Order No. 477 dated 24 July 2026**

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY

Jawahar Lal Nehru Marg, Jaipur, Rajasthan 302017

F. No. 477Date: 24.07.2026**OFFICE ORDER**

In pursuance of letter No M. 11013/03/2026-CDN dated 13.02.2025, received from the Department of Higher Education, Ministry of Education, Government of India, regarding participation in the Government Achievement and Schemes Expo 2026 Dr. Sundeep Kumar, Assistant Professor, Department of Management Studies is permitted attend to coordinate the Institute's participation in the exhibition to be held from 25<sup>th</sup> to 27<sup>th</sup> July, 2026 at Bharat Mandapam (Pragati Maidan), New Delhi.

The nominated faculty member shall make necessary arrangements for successful exhibition and representation of MNIT Jaipur in the aforementioned event.

The expenditure towards stall setup, travel, boarding and lodging, local conveyance, food charges and other miscellaneous expenses, including stationery, poster printing, display materials, models, etc., shall be in accordance with the financial approval accorded by the Competent Authority and the applicable Institute rules.

Dr. Sundeep Kumar is also permitted to travel by hired taxi / own car from Jaipur to Delhi and back during the aforementioned period.

This issues with the approval of the Competent Authority.

  
Registrar (I/c)  
MNIT Jaipur

**Copy to: -**

1. Dean (Student Welfare).
2. Head, Department of Management Studies.
3. Dr. Sundeep Kumar, Assistant Professor, Department of Management Studies.
4. Assistant Registrar (Accounts).
5. Coordinator, MoE Flagship Programme.

फोन Phone : (0141) 2529078/2713204, फैक्स Fax : (0141) 2529029, वेबसाइट Website : [www.mnit.ac.in](http://www.mnit.ac.in)

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An Institute of National Importance under Ministry of Education, Govt. of India

*Official authorization for coordination and representation of MNIT Jaipur at the Delhi Expo.*

## Annexure. B — Official Event Brochure

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**GOVERNMENT ACHIEVEMENTS & SCHEMES EXPO-2026**

**Biggest Show on Govt. Achievements**

**25-26-27 July, 2026**  
Bharat Mandapam (Pragati Maidan) New Delhi




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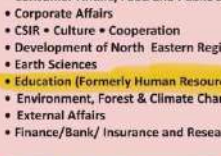


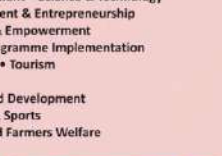















Official brochure showing the exhibition title, venue, dates and concurrent sectoral expos.

## Annexure. B — Official Post-Show Report (Page 1 of 4)



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**Post Show Report of**  
**‘Government Achievements & Schemes Expo- 2026’**  
and concurrent shows  
‘Rising PSEs Expo’, ‘International Agriculture, Horti and Organic Expo’,  
‘Indian Dairy Industry and Fisheries Expo’, ‘Food and Technology Expo’

**1. Executive Summary:**

The ‘Government Achievements & Schemes Expo-2026’ along with concurrent shows, ‘Rising PSEs Expo’, ‘International Agriculture, Horti and Organic Expo’, ‘Indian Dairy Industry and Fisheries Expo’, and ‘Food and Technology Expo’ was successfully organized by NNS Media Group over 3 days from July 25 to July 27, 2026 at Bharat Mandapam, New Delhi. This expo was aimed at showcasing the achievements, welfare schemes, research and development initiatives, technological advancements, and a wide range of products and services from various government departments, autonomous bodies, boards, higher education institutes, financial institutions, agencies, and Public Sector Undertakings (PSUs) under the central and state governments.

The expo attracted a diverse audience, including government officials, industry professionals, academics, students, and the general public. The event was an excellent platform for disseminating information on government initiatives and fostering interaction between different stakeholders.

**2. Objectives of the Expo:**

- **Showcasing Achievements:** Highlighting the achievements and success stories of various government departments, councils, boards, institutions, PSEs and agencies.
- **Promoting Welfare Schemes:** Informing the public about ongoing and upcoming welfare programs aimed at enhancing the quality of life.
- **Demonstrating Research & Development:** Presenting the latest R&D projects and technological advancements.
- **Promoting Nation Building & Industry Support:** Institutions like IITs, NITs and other higher education institutions train top-tier engineers, scientists, and technical leaders to build national infrastructure, advance domestic industries, and foster economic growth. Research and Innovation.
- **Fostering Public Engagement:** Provide an opportunity for citizens to engage directly with government representatives and learn about various schemes and services.
- **Encouraging Collaboration:** Facilitating networking and collaboration among different government bodies, financial institutions, and the public.

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## Annexure. B — Official Post-Show Report (Page 2 of 4)



**GOVERNMENT  
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### 3. Participation

- Over 100 + exhibitors covering a broad spectrum of government initiatives and programs from diverse sectors participated in the expo, presenting their **flagship schemes, innovations, welfare initiatives, and development milestones**. The event was a vibrant display of cross-sectoral collaboration, public outreach, and institutional excellence.

### 4. Key Highlights

- Inauguration Ceremony:** The expo was inaugurated by **Shri Raj Bhushan Chaudhary Ji, Hon'ble Union Minister of State for Jal Shakti, Govt. of India**. During his visit, the Hon'ble Minister interacted with several exhibitors, appreciating their contributions and efforts. In his address, he emphasized the importance of such platforms in raising public awareness about government welfare schemes and lauded NNS Media Group for facilitating meaningful engagement. He also encouraged broader participation from more departments in future editions.
- Shri Satinder Kumar Bhalla** Secretary, North Eastern Council, Govt. of India
- Shri Shamim Akhtar (DANICS)** Special Secretary, Administrative Reforms Dept., GNCTD
- Commodore Rakesh Chhillar (Retd)** Chairman & Managing Director, The Braithwaite Burn & Jessop Construction Co. Ltd.
- Shri Vinay Thakur, DG, BISAG-N**
- Shri Alok Gupta, Head of Department CC & PR, Central Coalfields Limited.**
- Dr. Savita Arora** Director, Delhi State Cancer Institute.
- LT. COL Satyendra Panday, Joint Director (ESF) Ex-Servicemen Contributory Health Scheme**
- Dr. Neena thakur** Director Delhi Jal board
- Dr Praveen Pankaj** Director Geological survey of India
- Shri Rajesh kumar** Director National Test house, NR Ghaziabad
- Dr. Aditya, AR/ PRO, Dr. BR Ambedkar University, Delhi**
- Prof. Sukanta Roy** Post- Dean (Academic) Dept- Nit Mizoram
- Prof. Pabitra Kumar Biswas** Post- Dean (R&C) Dept- Nit Mizoram
- Dr. D. P. Singh** Senior Reginoal Dirctor & Head- IGNOU
- Dr. Shyni Duggal** Reginoal Director- IGNOU
- Dr. David Pertin** Joint Registrar Dept- Rajiv Gandhi Universty
- Dr. Dipriyalngkhei** Horticulture development officer Department of horticulture- MgSFAC
- Shri Paras verma** JE department of Irrigation & Flood control delhi
- Shri Ravi Gupta** AGM NALCO
- Shri Anil Kumar Shrivastava** PRO Moden Coach Factory Raebareli
- Shri Naresh Chaudhary** National President, Bhartiya Kisan Union.
- Shri Vishvendra Kumar, National Bureau Chief, National News Service.**

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FOOD & TECHNOLOGY  
EXPO



Indian Dairy



विश्व भारती



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## Annexure. B — Official Post-Show Report (Page 3 of 4)



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- **Workshops and Seminars:** A number of workshops were conducted deliberating on various issues covering the welfare of farmers and making Indian agriculture more productive. These sessions saw active participation from experts and the audience, fostering insightful discussions.
- **Interactive Sessions:** Visitors had the opportunity to interact directly with government officials and representatives from various departments, allowing for real-time feedback and queries.
- **Product and Service Displays:** A wide range of government initiatives, products, and services were on display, with live demonstrations of technological advancements and new services.
- **Media Coverage:** The event received extensive media coverage contributing to the broad dissemination of information.

**5. Attendance and Engagement**

- The expo witnessed an **overwhelming response from visitors**, attracting **thousands of attendees from more than 25 states across India**. Participants came from distant and diverse regions including Uttar Pradesh, Uttarakhand, Punjab, Haryana, Bihar, Rajasthan, Mizoram, Jammu & Kashmir, Gujarat, Karnataka, Kerala, Tamil Nadu, Odisha, Himachal Pradesh, Meghalaya, Nagaland, Maharashtra, Andhra Pradesh, Sikkim, Assam, Goa, Chhattisgarh, and many others.
- Visitors enthusiastically engaged with the exhibits, utilizing the platform to stay informed about **key government schemes, developmental programs, and institutional achievements**.
- **Public Engagement:** High levels of public interest and engagement were evident, with long queues at interactive booths and information kiosks.
- **Feedback:** Feedback was overwhelmingly positive, with attendees praising the comprehensive information available and the opportunity to engage directly with government officials.

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**6. Outcomes and Impact**

- **Increased Awareness:** The expo successfully raised awareness about various government programs and initiatives among the public.
- **Enhanced Collaboration:** The event facilitated networking among different government bodies and institutions, leading to discussions on future collaborations.
- **Public Feedback Integration:** Feedback collected from attendees will be used to improve future programs and initiatives.
- **Media Impact:** The wide coverage of the event in the media has significantly contributed to publicizing government achievements and welfare schemes.



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**7. Challenges and Lessons Learned**

- **Feedback Collection:** The process of collecting and analyzing public feedback can be streamlined for more effective integration into future initiatives.



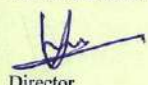
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**8. Conclusion:** The 'Government Achievements & Schemes Expo – 2026' and concurrent shows was a resounding success, achieving its primary objectives of showcasing government achievements, engaging with the public, and promoting welfare schemes.



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Thanking you  
Yours faithfully  
For NNS Events & Exhibitions Pvt. Ltd.



Director  
Contact Person: 9540400966, 9540400968



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## Annexure. C1 — IREAU: Biodegradable Vegan Leather from Agricultural Waste



### IREAU: Biodegradable Vegan Leather From Agricultural Waste

Dr. Sundeep Kumar, Kushagra Singh

Malaviya National Institute of Technology Jaipur, Rajasthan

#### Introduction

- IREAU is a sustainable materials startup focused on developing premium, eco-conscious alternatives to conventional leather for the fashion and lifestyle industries.
- Our mission is to reduce environmental impact by addressing challenges associated with animal leather production and synthetic polyurethane-based leather.
- We transform agricultural waste into value, creating innovative materials that support circular economy principles while generating additional value from underutilized resources.



#### Challenges

- **Animal leather production** generates approximately 650 kg CO<sub>2</sub>-equivalent emissions per square meter of leather and consumes large amounts of water and chemicals.
- More than 90 million tonnes of crop residue are burned annually in India, significantly contributing to air pollution and greenhouse gas emissions.
- Around 8 million tonnes of leather and synthetic leather waste are discarded globally each year, with most polyurethane-based materials persisting in landfills for decades.
- Over 70% of consumers prefer sustainable products, yet many brands struggle to find eco-friendly materials that match conventional leather in performance and aesthetics.
- The global vegan leather market is projected to exceed USD 100 billion by 2030, but existing alternatives often face challenges related to scalability, cost, and end-of-life biodegradability.

#### Solution

##### Process Flow



Rice Stubble



Chemical Treatmet



Grinding



Thermal curing of leather sheets



Paste Homogenization



Leather sheet



Leather sheet with cloth



Leather with animal leather texture

#### Importance

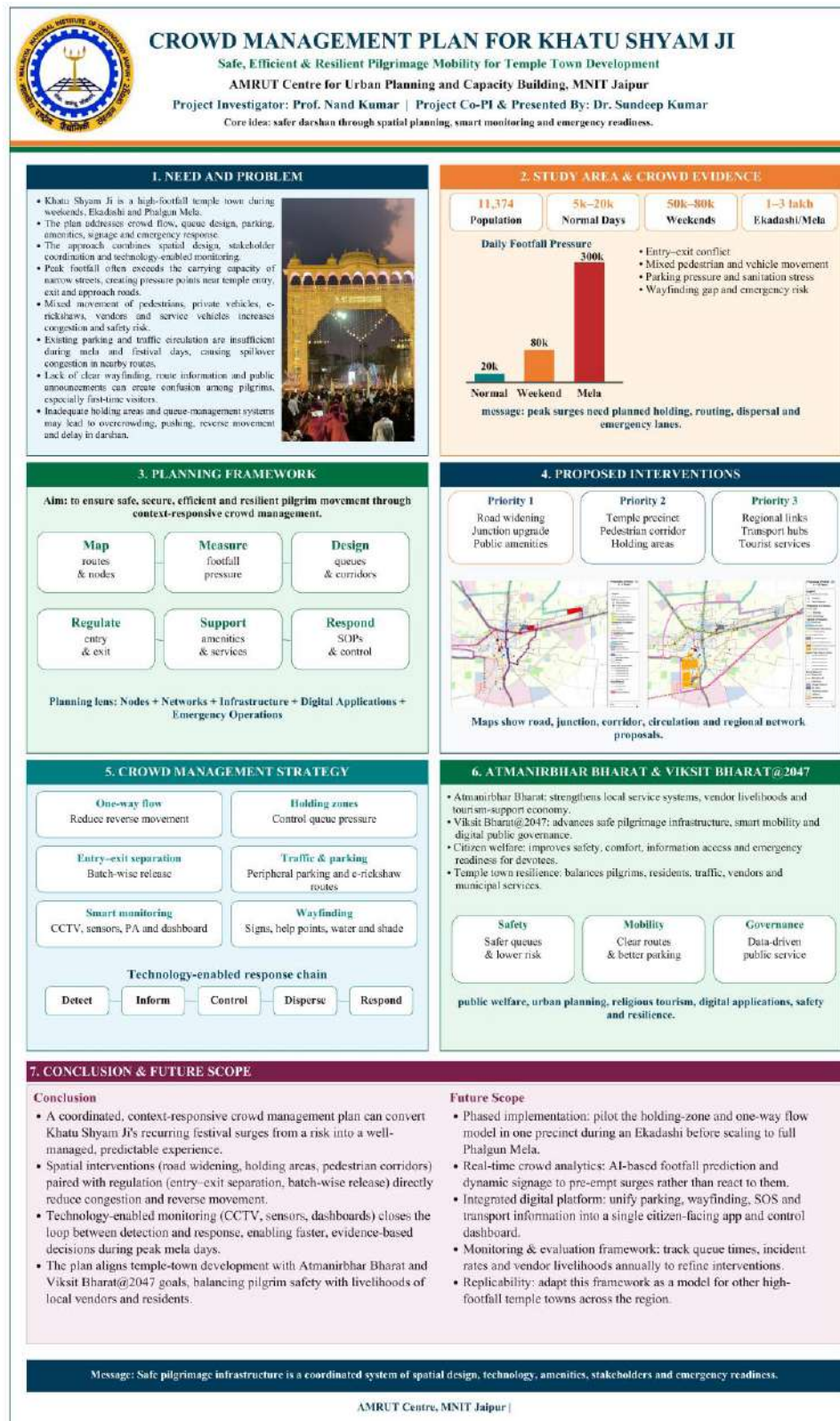
- **Biodegrades rapidly** — designed to degrade within 29 hours in sewage treatment plants or about 3 months in biorestorative conditions, reducing long-term waste.
- **Creates environmental value** — utilizes 4 kg of agricultural residue per kg of leather, generating additional income for farmers and helping reduce crop-burning-related air pollution.
- **Sustainable performance** — delivers a leather-like look, touch, feel, tensile strength, and water resistance without polyurethane, while remaining biodegradable and recyclable.
- **Supports circularity** — can be recycled multiple times and contributes to soil health by increasing nitrogen content after degradation.
- **Reduces dependence on conventional leather** — offers a lower-impact alternative to animal leather and synthetic PU-based leather, helping address pollution and resource consumption.

#### About Us



Full sustainable-materials poster presented by Dr. Sundeep Kumar and Kushagra Singh.

## Annexure. C2 — Crowd Management Plan for Khatu Shyam Ji



Full crowd-management and pilgrimage-planning poster.

## Annexure. C3 — Lithium-Ion Battery Health Monitoring



### Deep Learning-Enabled Thermal Imaging System for Automated Lithium ion Battery Health Monitoring

Kartik Kumar<sup>1</sup>, Ramdutt Arya<sup>1</sup>, Sundeep Kumar<sup>2</sup> and Kapil Pareek<sup>1\*</sup>

Centre for Energy and Environment, Malaviya National Institute of Technology Jaipur, Rajasthan

Department of Management Studies, Malaviya National Institute of Technology Jaipur, Rajasthan

[Kapil.cee@mnit.ac.in](mailto:Kapil.cee@mnit.ac.in)

#### Introduction

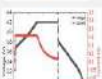
- Growing demand for lithium-ion batteries due to their high energy and power density.
- Li-ion batteries comprise the anode, cathode, separator, electrolyte, and current collectors.
- Battery manufacturing involves multiple complex processes and critical parameters.
- Maintaining consistent manufacturing quality is challenging.
- Minor process variations and uneven aging lead to differences in State of Health (SoH).
- Cells with different SoH reduce battery pack performance, safety, and lifespan.
- Rapid, accurate, and automated battery health monitoring and grading are essential.

#### Problem Statement

SoH estimation methods, like capacity testing, Electrochemical Impedance Spectroscopy (EIS), Incremental Capacity Analysis (ICA), and Differential Voltage Analysis (DVA), are time-consuming, expensive, and often require specialized equipment.

##### Direct method

###### Capacity test



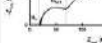
SOH =  $\frac{C_{\text{measured}}}{C_{\text{rated}}}$

###### Cycling



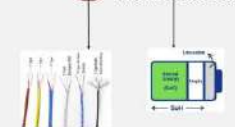
SOH =  $\frac{C_{\text{measured}}}{C_{\text{rated}}}$

###### EIS test



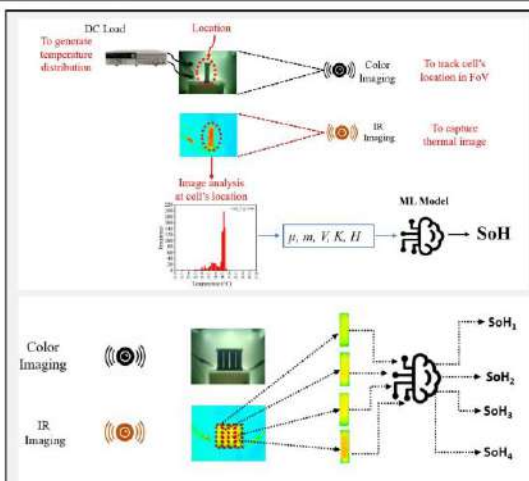
##### Indirect method

$$V = I \cdot R + \frac{dQ}{dt} \cdot \frac{dV}{dQ} + \frac{dT}{dt} \cdot \frac{dV}{dT}$$

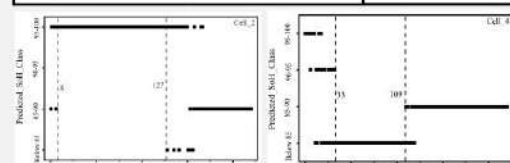
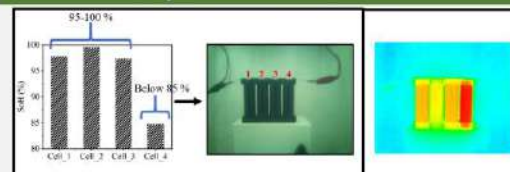


#### Solution

- Thermography (IR sensing) provides a fast, non-destructive, image based detection of temperature distribution
- Non-uniform aged cells are identified via distinct temperature distribution linked to degradation
- Statistical analysis and Deep-Learning based algorithms on the obtained data provide an automated framework for SoH grading



#### Experimental Results



#### Industry Relevance

- Fully functional working prototype (Patent granted)
- Highly economical, large number of cells' SoH grading
- Faster and accurate than existing grading methods



Full deep-learning and thermal-imaging poster.

## Annexure. C4 — AI-Based Automated Microscopic Urinalysis System



### AI-based Automated Microscopic Urinalysis System

*\*DeepLife Innovations Pvt. Ltd.*  
 MNIT Innovation and Incubation Center (MIIC)  
 Malaviya National Institute of Technology Jaipur



#### Introduction

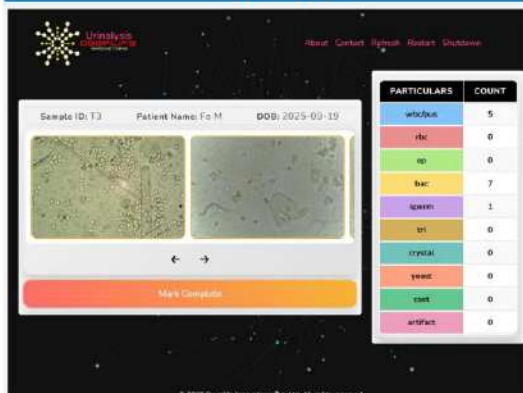
- Urine analysis is used to diagnose a wide range of health conditions, including kidney disorders, urinary tract infections, and metabolic diseases.
- In India, millions of patients undergo routine urine examinations each year, forming a crucial component of preventive and diagnostic healthcare.
- Conventional urine tests are slow, error-prone, and heavily reliant on scarce skilled manpower, with no guarantee of standardized results.
- Automation of this process through advanced imaging and AI-based object detection enables faster, more accurate, and standardized diagnosis.

#### Overall Working Scenario

- The device comprises a specialized hardware paired with a user-friendly interactive software.
- The diagnostic software utilizes sophisticated artificial intelligence based algorithm for efficient diagnosis.



#### Preview



#### Problem statement

Current situation of Manual Microscopic urinalysis in India :

- Multiple steps: centrifugation, particle counting, and reporting
- Time-consuming and labor-intensive: Low efficiency and increasing workloads in high-volume clinical settings
- Further exacerbated in rural settings and II-tier cities where clinical diagnostic facilities are limited

#### Solution: An AI Powered Device

- We've engineered a diagnostic device capable of centrifugation, capturing multiple microscopic images of a urine sample, and AI-based urine sedimentation detection.
- The device not only quantifies the presence of various sediments but also provides their location on the image for manual verification.



#### Experimental Results

- The device identifies more than 8 categories of sediments in the urine samples.
- We've attained a **sensitivity** rate of **92.5%** and a **precision** rate of **91%** on the urine samples.

#### Importance

The device is of great importance in hospitals and clinical settings, especially in rural regions with limited healthcare resources, as it provides an indigenous solution at nearly one-fourth the cost of existing equipment and almost half the cost per test, making advanced diagnostics more accessible and affordable for the Indian market.

*Full AI-enabled urinalysis poster.*

## Annexure. C5 — AI-Enabled Speaking Stethoscope



## AI-Enabled Speaking Stethoscope for Cardiovascular Disease Detection

Faisal Mushtaq<sup>1</sup>, Kuldeep Singh<sup>1</sup>, Rannit Sahu<sup>1</sup>, Raghav Arora<sup>1</sup>, Raja Babu Panwar<sup>2</sup>

<sup>1</sup> Malaviya National Institute of Technology Jaipur, Rajasthan, India

<sup>2</sup> Nirwan University, Rajasthan, India

### Introduction

#### CLINICAL CHALLENGE

- Cardiac auscultation is essential for diagnosing VHDs as it remains the primary, cost-effective frontline screening tool for identifying turbulent blood flow associated with valvular heart diseases.
- Traditional stethoscopes only amplify sound without providing automated diagnostic interpretation.
- Ambient clinical noise and respiratory sounds frequently mask subtle pathological murmurs.
- Current limitations include high inter-listener variability and the need for specialized expertise.

#### THE OPPORTUNITY

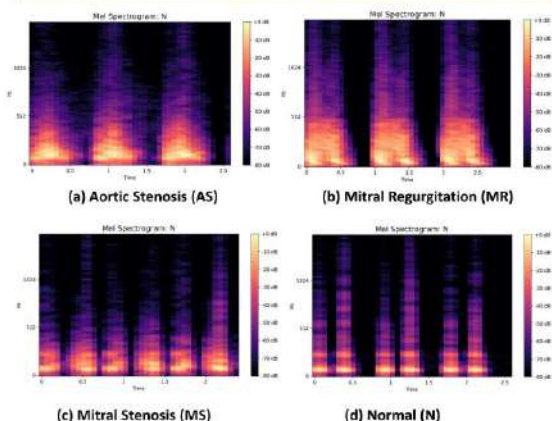
- Recent AI and Deep Learning advancements offer a path to improve diagnostic accuracy.

### Problem Statement

- Traditional stethoscopes only act as passive sensors and amplifiers, lacking automated diagnostic intelligence.
- Clinical noise and respiratory artifacts often mask subtle heart sounds, increasing diagnostic variability and errors.
- Developed an AI-enabled "Speaking Stethoscope" for real-time Valvular Heart Disease (VHD) detection.

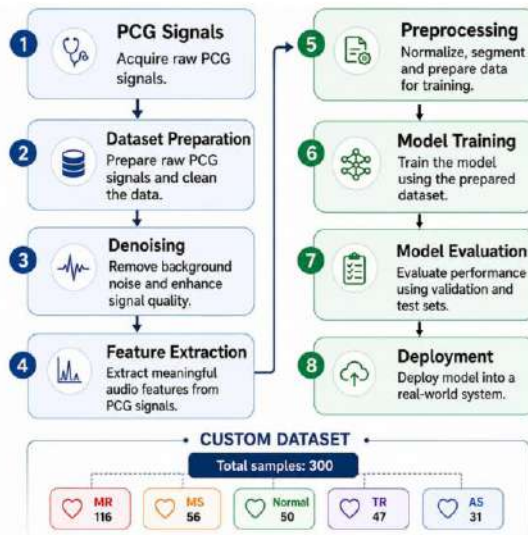


### Visualizations



### Solution

#### PCG Signal Classification and Model Deployment Workflow



### Experimental Results

| Class  | Precision (%) | Recall (%) | F1-score (%) | Accuracy (%) |
|--------|---------------|------------|--------------|--------------|
| AS     | 98            | 85         | 91           | 92           |
| MR     | 99            | 86         | 92           |              |
| MS     | 91            | 97         | 94           |              |
| Normal | 83            | 98         | 90           |              |
| TR     | 89            | 93         | 91           |              |

### Prototype

#### Innovation

The device speaks the Diagnosis directly into the professional's ear.

#### Healthcare

Empowers paramedics and workers in remote areas with accurate diagnostic tools.



Full cardiovascular-disease-detection poster.

## Annexure. C6 — SILICO-AI Diagnostic System for Silicosis



## SILICO-AI: An AI-Based Portable Computer-Aided Diagnostic System for Silicosis Disease

Faisal Mushtaq, Kuldeep Singh,  
Satyendra Singh Chauhan, Rajesh Kumar, Priyanka Harjule  
Malaviya National Institute of Technology Jaipur, Rajasthan



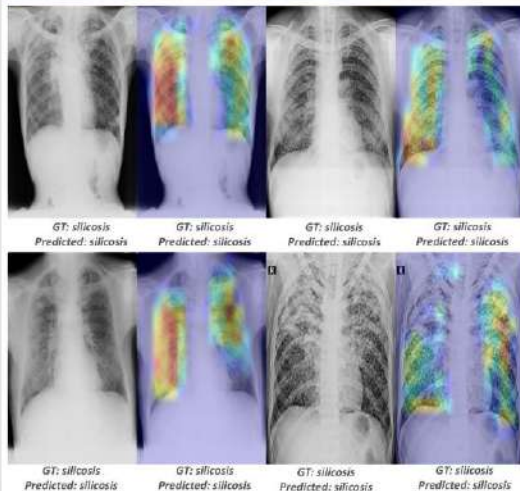
### Introduction

- **Silicosis** is a progressive and incurable lung disease caused by long-term inhalation of crystalline silica dust.
- In **India**, about 10 million workers are exposed to inorganic dust with majority of them are from the Indian states of Rajasthan, Gujarat, Madhya Pradesh and Andhra Pradesh.
- Diagnosis is often made through a combination of medical history, physical examination, **chest X-rays**, and pulmonary function tests.
- According to International Labor Organization, chest radiography is the most affordable and accessible radiological test available for physical examination of workers exposed to dust.
- Diagnosing pulmonary conditions demands **skilled radiologists** who visually interpret X-ray images, leading to **time-consuming** processes and subjective assessments.

### Challenges

- In early stages, the radiographic changes associated with silicosis may be **subtle** and **easily missed**, especially by less experienced radiologists.
- Diagnosis exhibits **variability** among the radiological observers.
- Silicosis often coexists with other lung diseases, such as tuberculosis or emphysema, which can further complicate interpretation of X-ray findings.

### Visualization



### Solution: An AI Powered Device

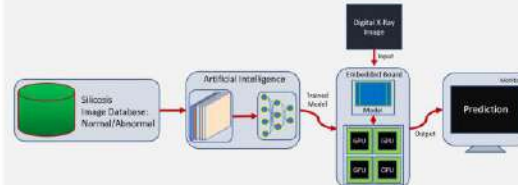
- We've engineered a **portable** diagnostic device tailored for early detection of silicosis from chest X-rays.
- The device not only confirms the presence or absence of silicosis but also identifies the specific lung areas affected by silicosis disease.



A portable silicosis diagnosis device

### Overall Working Scenario

- The device comprises a specialized hardware paired with a user-friendly interactive software.
- The diagnostic software utilizes sophisticated artificial intelligence based algorithm for efficient diagnosis.



### Experimental Results

- We've attained a **sensitivity** rate of **97.44%** and a **precision** rate of **99.07%** on a two-class dataset comprising Normal and Silicosis categories.
- Additionally, in a multiclass pulmonary condition settings, we've reached a sensitivity rate of 85%.

### Importance

- The device is of great importance in any hospital or clinical settings, especially in rural regions where access to healthcare resources and technological infrastructure may be limited.

\* Funded by: Directorate of Specially-Abled People, Govt. of Rajasthan, India (Project ID.: 1000113529)

\* Indian Patent Granted (Patent No. 570357)

Full portable silicosis-diagnosis poster.

## Annexure. C7 — FinTech and Financial Inclusion among Street Vendors



## Understanding the Role of Fintech Innovation and Financial Inclusion in Promoting Digital Financial Services among Street Vendors

ICSSR Project | Department of Management Studies, MNIT Jaipur |

Project PI: Dr. Shweta Sharma | Project Co PI &amp; Presented By: Dr. Sundeeep Kumar

### 1. INTRODUCTION & SCHEME RELEVANCE

- Street vendors are central to informal employment, local markets and urban services.
- Cash dependency continues because of trust, literacy, documentation and infrastructure barriers.
- UPI, mobile banking and e-KYC can convert basic access into formal usage and credit readiness.

PM SVANidhi

working capital + digital discipline

PMJDY

account access + identity

UPI / India Stack

QR payment + e-KYC

Digital India

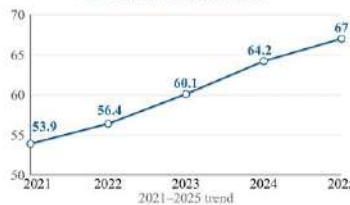
secure digital services

### 2. CHALLENGES IN DIGITAL ADOPTION

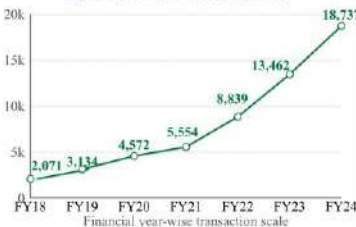
- Digital literacy gap
- Low awareness of digital and financial services.
- Trust deficit
- Fear of fraud, cyber risk and platform errors.
- Access & infrastructure barriers
- Limited smartphones, costly data and weak connectivity.
- Gender and institutional gaps
- Women vendors need safer support and grievance redressal.
- Formal credit linkage gap
- Digital transaction history is not always accepted as credit evidence by banks and financial institutions.
- Operational difficulty
- Vendors face problems in handling failed transactions, refunds, QR issues and customer disputes during busy working hours.

### 4. PROJECT SNAPSHOT

National progress is rising; the key task is last-mile inclusion for street vendors.  
RBI Financial Inclusion Index



### Digital Payment Transactions (crore)



Inclusion scale: 5.3 million street vendors identified across India. Digital-finance growth must reach informal livelihood groups.



QR-based payment at street-vendor

### 6. POLICY RECOMMENDATIONS

- Link Jan Dhan accounts with UPI for active usage.
- Run local-language digital literacy camps near vending zones.
- Provide women-focused training, safe spaces and peer mentors.
- Use verified digital transaction history for alternative credit scoring.
- Improve affordable smartphones, low-cost data and connectivity.
- Create simple FinTech interfaces and grievance redressal helpdesks.
- Strengthen PM SVANidhi with urban livelihood schemes.
- Helps bring cash-based vendors into formal banking, insurance, pension and credit systems through regular digital usage.

### 3. RESEARCH DESIGN & INCLUSION FRAMEWORK

- Primary survey of street vendors from Rajasthan and Karnataka.
- Binary Logistic Regression for determinants of adoption.
- Descriptive analysis for challenges, well-being and scheme support.
- Framework: Vendor → Jan Dhan → UPI QR → Digital Transaction → Credit History → Financial Well-being.

Access

Usage

Credit

Safety

Well-being

Empowerment

### 5. FINDINGS, OUTCOMES & INTERPRETATION

86%

savings, budgeting &amp; reduced cash risk

80%

income improved due to digital demand

83%

felt empowered in operations

82%

digital history not enough for credit

- Younger and better-educated vendors show higher adoption.
- Women and older vendors face stronger adoption barriers.
- Urban location, business visibility and customer demand increase digital engagement.
- Formal credit access positively influences digital payment usage.
- FinTech works best with literacy, trust, infrastructure, grievance support and credit linkage.

### 7. ATMANIRBHAR BHARAT & VIKSIT BHARAT@2047

- Atmanirbhar Bharat
- Self-reliant micro-entrepreneurs through safer transactions, formal records and credit readiness.
- Viksit Bharat@2047
- Inclusive growth, digital empowerment, financial resilience and citizen-centric delivery.
- Goa-event relevance
- Public welfare schemes, Information Technology, MSMEs, livelihoods and social inclusion.
- Digital India alignment
- Strengthens UPI adoption, digital payments, e-KYC, DBT access and secure use of financial platforms among informal workers.
- Sustainable livelihood development
- Supports income stability, business visibility, savings discipline and long-term financial security for street vendors.

### 8. OVERALL CONTRIBUTION

- Access alone is not enough; sustained usage requires trust, literacy, infrastructure, grievance redressal and credit linkage.
- Expected changes: safer transactions, better budgeting, stronger scheme uptake and livelihood resilience.
- Policy message: convert digital transaction history into usable credit evidence for informal workers.
- Targeted support is needed for women, older vendors and low-literacy vendors so that digital finance does not widen existing inclusion gaps.
- Local-language training, peer mentors and helpdesks near vending zones can improve confidence and reduce fear of fraud or transaction failure.
- Strengthening PM SVANidhi, PMJDY and UPI linkages can help vendors move from informal cash dependence toward formal savings, credit access and self-reliant livelihoods.
- The project contributes to safer pilgrimage management by reducing crowd pressure, movement conflicts and emergency-response delays.
- It supports better temple-town planning through improved pedestrian circulation, parking regulation, public amenities and signage systems.
- The plan strengthens coordination among temple trust, police, municipality, transport, health services, vendors and volunteers.
- Technology-enabled monitoring such as CCTV analytics, sensors and public information systems can improve real-time crowd control.
- Overall, the project supports Viksit Bharat@2047 by promoting safe religious tourism, citizen welfare, resilient infrastructure and inclusive local economic development.

Department of Management Studies, MNIT Jaipur | Sponsored by ICSSR, New Delhi

Full ICSSR-sponsored street-vendor financial-inclusion poster.

## Annexure. C8 — MNIT Innovation and Incubation Centre

**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**  
**MNIT INNOVATION AND INCUBATION CENTRE**  
 JLN Marg, Jaipur-302017 | [miic.mnit.ac.in](mailto:miic.mnit.ac.in) | [miic@mnit.ac.in](mailto:miic@mnit.ac.in)

**HIGHLIGHTS OF TBI @ MNIT JAIPUR**

- Dedicated 70000 sq. ft. state-of-art infrastructure.
- Vibrant footprint of 146 start-ups with 24 student start-ups
- Strong ecosystem network and mentoring support
- Organized 269 Programs, benefiting 25000+ ecosystem participants.
- 400+ number of incubatees • 1500+ employment generated
- 13.00 cr fund raised by incubatee start-ups

**ABOUT MIIC**

**STATE-OF-ART INFRASTRUCTURE**

- 80 independent rooms & common equipment worth more than INR 2.5 Cr.
- Laboratory facilities of MNIT Dept. and Centers made available for start-ups

**SECTOR AGNOSTIC STARTUPS IN**

- Product Design and Development
- Environment and sustainability
- ICT Solutions
- Process Innovation
- Material Innovation
- Product Design & Service Aggregator

**ECOSYSTEM CONNECTS AND PROGRAMS**

- Synergistic connects with Ecosystem stakeholders and industry associates like CII, FICCI, ASSOCHAM, CUTE, MSME, TIE Rajasthan, IIT Bombay, Nasscom etc.
- Strong mentor support including Alumni, Faculty and Industry Experts.
- Organized 269 Programs for holistic growth of startups, benefiting 25000+ participants.

**STRATEGIC SUPPORT**

- Market research
- MVP development
- IP protection
- Prototype Development
- Pilot testing
- Scaling-up planning
- Marketing Support
- Working capital
- Funding Support
- Statutory compliances
- Tinkering Lab

**SELECTION PROCESS**

```

graph LR
    A[Inviting Applications  
Interested Startups & Entrepreneurs  
Register / miic@mnit.ac.in] --> B[Submission of an innovative business plan in a defined Template]
    B --> C[Presentation before the Expert committee]
    C --> D[Approved Ideas invited to sign Incubation Agreement / MOU]
    D --> E[Signing of Incubation Agreement / Company formation]
    E --> F[Handholding Support to Incubated Start-ups]
    F --> A
  
```

**STARTUP PORTFOLIO**

**Major Areas:**

- Deep-Tech
- Agri-Tech
- Environment and Sustainability
- Electronics Manufacturing
- Health Care and MedTech
- Clean Energy
- Drones and UAV Technology
- Robotics and Automation
- Ed-Tech, etc.

**ACHIEVEMENTS**

- Svaarogya Medical Devices Pvt. Ltd. selected in DST NIDHI's compendium amongst top 50 women led startups pan India.
- Supporting Innovators in ESDM Domain through STPI's Electropreneur Park 2.0.
- Internship Program benefiting 2400+ students
- Puro Corporation selected among the top 75 startups of India.

Full incubation and startup-ecosystem poster.

## Student Interaction and Guided Poster Explanation



*Faculty-student representation with a visiting student group at the MNIT Jaipur stall.*



*Focused explanation of the biodegradable vegan-leather process and its environmental relevance.*



*Hands-on discussion around sustainable-material samples, visual aids and the exhibit table.*

## Material Demonstration and Public Dialogue



Group interaction with visiting students and an accompanying teacher in the MNIT Jaipur exhibit area.



Discussion of the sustainable-materials exhibit with members of the general public.



Wide view of a guided interaction showing multiple exhibits and visitor movement within the stall.