

MEMORANDUM OF UNDERSTANDING (MoU)

Between

Indian Institute of Information Technology Manipur ("IIIT Manipur"), a higher education institute located at Imphal, Manipur and **Drone Training Node Inspector General Assam Rifles South** (DTN IGAR (S)), a drone training and technology provider located at Modi Garrison, Chandel District.

Effective Date

18 Aug 2025

1. Purpose.

This MoU establishes a collaborative framework for training, research, curriculum development, and deployment in drone technology, including fabrication, application and security integration.

2. Scope of Collaboration.

2.1. Training & Certification ("TRG")

2.1.1. Trainee Program. IIIT Manipur and DTN IGAR (S) will collaborate in training students ("trainees") of Assam Rifles either at the DTN facility or IIIT Manipur campus on jointly formulated curriculum.

2.1.2. Training to include practical flight lessons, maintenance and DGCA-aligned certification.

2.2. Guest Lecture Series. Guest lectures at DTN IGAR (S) and IIT Manipur for both Basic and Advanced drone courses would be conducted by faculty.

2.3. Site Visits & Field Exposure. Field visits to DTN would be permitted for the IIITs, aiming to understand real-world drone use-cases and emerging challenges first hand.

2.4. 3D Printing of Augmented Reality (AR) Components. Joint workshops and training sessions on Augmented Reality-enabled payload design using 3D printing techniques would be formulated.

2.5. Low-Cost Drone Fabrication. Collaborative modules to fabricate and assemble affordable drones using open-source hardware would be formulated.

2.6. In-House 3D Printing Operations. Use of 3D printing facility at IIIT and DTN would be exploited for manufacturing drone components and spare parts.

2.7. NETRA SENA (Facial Recognition based Security System)

2.7.1. System Deployment. Collaborative efforts would be made to formulate modalities on installation & validation of IIIT-Manipur's NETRA SENA Security System for security of Assam Rifles Garrison.

2.7.2. Integration of Drone Feeds. Collaborative effort would be made to develop a unified software platform to integrate live aerial drone feeds into NETRA SENA for real-time surveillance.

2.7.3. Border Refugee Management. Joint efforts would be made to launch pilot projects using NETRA SENA to assist refugee management in border villages with live data streaming facility to responsible agencies.

2.7.4. Vehicle Mounted Modular System. Collaboration efforts will be made to design and test modular version of NETRA SENA to enable advanced capabilities for IS column deployments in required areas.

2.7.5. Counter Insurgency/ Counter Terrorism Operations. Collaboration would be undertaken to initiate pilot projects using NETRA SENA to assist in surveillance & reconnaissance of insurgents in SoO/ TNO Camps/ hideouts/ populated areas in hinterland with real time data relay to earmarked Command & Control Centres.

2.8. Student Projects and R&D.

2.8.1. Secure Communication System Project. Student-led R&D of both institutions would be hand held to install encrypted drone-linked communication systems at forward posts as capstone or elective projects.

2.8.2. Defence Application Test Bed. Joint efforts would be undertaken to establish a lab test-bed environment using actual drone platforms for multiple defence-related student and faculty projects.

3. Roles & Responsibilities.

S/No	Party	Responsibilities
3.1.	IIIT Manipur	Provide classroom/dissemination venues, academic supervision and student participation.
3.2.	DTN IGAR (S)	Deploy trainers, facilities, certifications, technical hardware/software and field access.
3.3.	Joint Task Force	Establish oversight committee (Two members each) to coordinate scheduling, curriculum design, resource allocation and evaluation methods.

4. Financial Arrangements.

4.1. Specific funding responsibilities with regards to course fees, equipment, travel and certification costs would be jointly formulated.

4.2. Funding options would be jointly explored via institute grants, government programs or cost-sharing arrangements.

4.3. Collaboration efforts would be made to formulate budget for each training/ event in advance and ratified by both parties.

5. Duration, Extension & Termination.

5.1. Effective Period. The MoU would be valid for five years from signing date and renewable upon mutual written agreement.

5.2. Review. Joint annual review meeting would be decided to assess achievements and modify objectives mutually.

6. Intellectual Property (IP) & Publications.

6.1. IP rights developed jointly will be co-owned and dispute, if any would resolved via a constituted committee.

6.2. License terms would be negotiated on case-to-case basis, if external commercialization is pursued.

6.3. Any publication of jointly developed IP-based project would require prior written approval from both parties.

7. Confidentiality & Data Sharing.

7.1. Shared data/ resource information shall remain confidential.

7.2. Academic outputs like non-sensitive student thesis would be exempted.

8. Monitoring & Evaluation.

8.1. Joint Task Force (JTF) would meet quarterly to review implementation against milestones.

8.2. JTF would evaluate success metrics in terms of trainee count, certifications issued, research outputs & deployments activated.

9. Promotion & Reporting.

9.1. Joint publicity material (press releases, event reports etc) thesis would be issued as and when required upon mutual consent.

9.2. Annual report summarizing training, visits, projects and field deployments would be published as and when need arises.

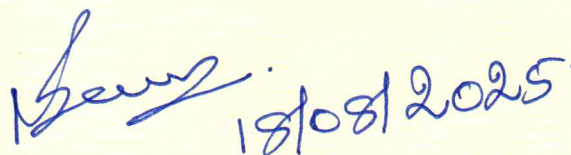
10. Dispute Resolution.

10.1. Both parties would agree to resolve disputes via amicable discussions.

10.2. Failing which, disputes may be escalated to an arbitrator in accordance with Indian arbitration law.



Inspector General Assam Rifles (South)
18 Aug 2025



Indian Institute of Information Technology
Manipur
18 Aug 2025