NITI Aayog | ATAL INNOVATION MISSION

MEGA TINKERING DAY

ONE DAY NATION-WIDE EVENT FOR YOUNG INNOVATORS

12th August 2025 10 am – 11 am

Handbook

A One Stop Solution for ATL Stakeholders

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MTD 2025

MEGA TINKERING DAY

Welcome Note & Vision

Atal Innovation Mission (AIM), under **NITI Aayog**, drives innovation and entrepreneurship across India through initiatives like Atal Tinkering Labs (ATLs). ATLs are modern makerspaces in schools, designed to spark creativity and curiosity among students (grades 6-12) by giving them hands-on access to technologies like 3D printers, IoT kits, robotics, and electronics.

- 10,000 ATLs have been established in 35 states and union territories, across 722 districts.

- Over 1.1 crore students have been engaged, contributing to more than 16 lakh innovation projects.

- ATLs are present in over 60% government/government-aided schools and 96% girls/co-ed schools, ensuring wide and inclusive participation.

To celebrate India's journey in student innovation, AIM is going to host **Mega Tinkering Day** on **August 12, 2025**.

- All 10,000 ATL schools and their stakeholders will participate.

- For one hour, students nationwide will simultaneously create Do-It-Yourself projects.

- The event unites students, mentors, educators, and partners, reinforcing the mission to make tinkering and innovation a pan-India movement.

Mega Tinkering Day 2025 - Overview

Mega Tinkering Day is a one-day event where students from all 10,000 ATLs will build a DIY project together, with the goal of promoting an innovative spirit among students and creating a national highlight event.

10,000+ ATLs	**1.1 Crore+** Students	**722 Districts** in India
1 Goal: Innovation	**DIY Project Creation:** 30 Minutes – 1 Hour	

Key Objectives of the Event

OBJECTIVES

1. Be a part of India's Largest Tinkering Event

2. Promotes the Spirit of Innovation among students

3. Encourages DIY STEM Learning
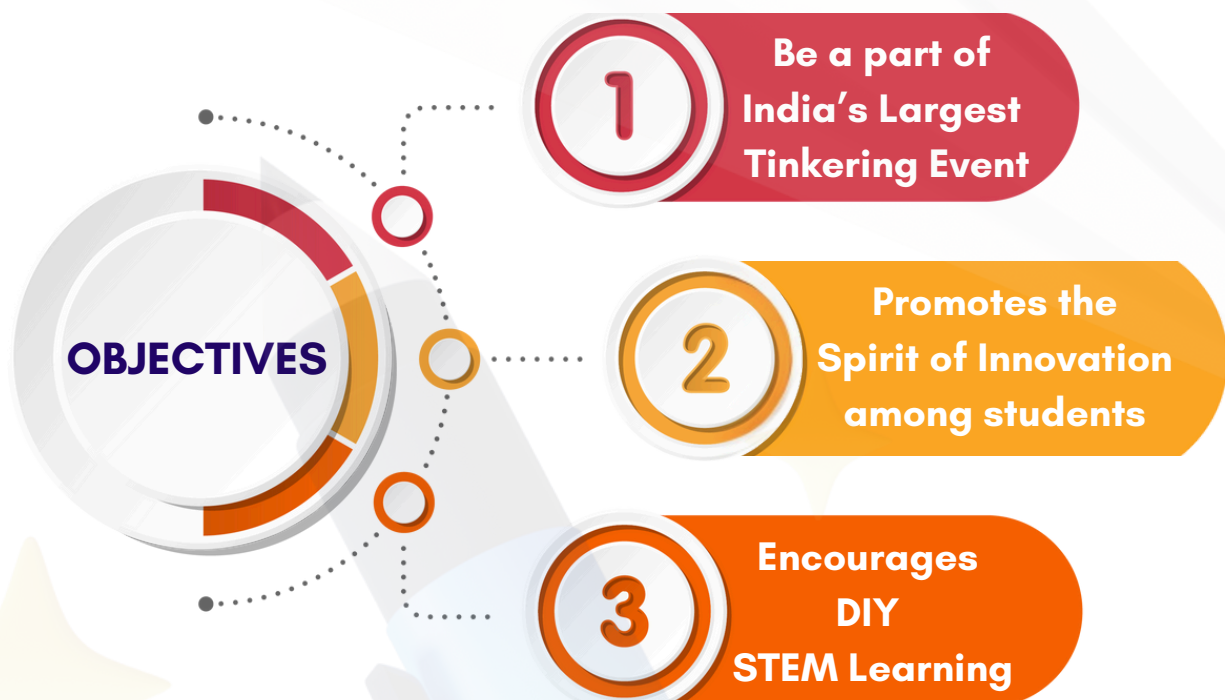
What to do for the Mega Tinkering Day?

Registration
Fill up the registration form by clicking the button.

REGISTER HERE

SCAN HERE

On Mega Tinkering Day!
Make sure your maker space has good internet, a projector, webcam and a welcoming environment.

Get Students Ready
Group the students and hand out all the tools and Materials needed for the project.

Join the Zoom session
Log in on time and follow the live instructions by the facilitators.
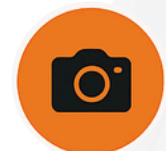
Capture the magic
Share the photographs on Facebook/Twitter using @atalinnovationmission @aimtoinnovate #insertMTDTAG @NITIAayog.

Post-Event Submissions
Fill up the participation form, submit the logistics details by clicking the submit button.

SUBMIT

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Great ideas begin with great opportunities
Give your students the stage they deserve.

Roles and Responsibilities of Stakeholders

To ensure a smooth and impactful experience during Mega Tinkering Day, the following guidelines have been curated for all participants involved in planning, facilitating, and executing the event.

For Mentors/Facilitators:

- Please register yourself as a mentor in this Google form and fill in details about which school you will be visiting.
- Please be in your registered school on 12th August from 10 - 11 am to oversee the smooth conduct of the event.
- Familiarize yourself with the activity flow and materials in advance.
- Conduct a short briefing with students before starting the hands-on activity.
- Encourage participation, creativity, and teamwork during the session.
- Help document the event with photos/videos, highlighting both process and outcomes.
- Assist the ATL in-charge in filling out and submitting all post-event forms.

For ATL In-Charges:

Pre-event:

- Please register your school via the pre-registration form confirming your participation on MTD

During the event:

- Ensure the camera, internet, and speakers are working properly and of good quality. It should cover the entire ATL in the frame.
- Make sure your ATL is equipped with all the materials required for the activity
- Log in to the online session and encourage students to follow along

Post Event :

- Fill out the submission form circulated by AIM on or before 14th August

For ATL Sarthis:

- Kindly organize the event in any of the three possible ways:
  a. Organize the event on your premises, inviting students and teachers from cluster schools.
  b. Distribute your team members/professors/students/volunteers to visit cluster schools during the event, as per your capacity.
  c. Hybrid mode: Mix of a. and b. that is, Organize at your premises + Physical visits by volunteers.
- Provide mentorship and guidance to students and teachers for project enhancement and presentation.
- Facilitate coordination with local authorities, guest schools, and stakeholders for smooth execution.
- Observe, assess, and report ATL performance to help identify areas of improvement. Promote ecosystem-building by encouraging collaboration and showcasing best practices.

For State Education Department:

- It is requested that the State Department issue official communication to all schools encouraging active participation in Mega Tinkering Day 2025 on 12th August.
- The State Department may kindly advise District Nodal Officers to visit ATL schools under their jurisdiction on the day of the event to oversee and support the smooth execution of activities.
- Such formal directives from the State level will play a crucial role in mobilizing schools, ensuring preparedness, and maximizing outreach for MTD

For School Heads:

- Encourage a supportive and energetic atmosphere on campus.
- Visit the ATL during the session to engage with students and mentors.
- Promote the event through internal communication channels and social media.
- Ensure all required approvals/logistics for participation are in place.

Event Breakdown

Plan, Tinker, Reflect

This Event Breakdown serves as a structured guide to help schools plan, execute, and showcase their participation effectively. Divided into three phases — Pre-Event, Event Day, and Post-Event Activities — it outlines a series of engaging challenges, step-by-step instructions, and documentation practices. The goal is to ensure that every participating school captures the spirit of tinkering, promotes teamwork, and amplifies their ATL's impact through social media and community engagement.

Pre-Event Activities

Build the Buzz Before the Big Day!

Before the excitement of Mega Tinkering Day unfolds, showcase your preparation journey through these fun and engaging challenges. Get your ATL ready, spotlight your team, and create a wave of energy on social media!

Challenge 1: Show Us Your ATL Space

- Click a Photo of your ATL or setup space – clean, well-lit, and full of energy.
- Caption idea: Here's where ideas will come to life! Our ATL is set and ready for Mega Tinkering Day.
- Post with tags: @atalinnovationmission @aimtoinnovate @NITIAayog #MTD2025

Challenge 2:
Selfie with Your Tinker Captain

- Take a Selfie with your student Tinker Captain – the leader of your school's tinkering team.
- Caption: Include their name, class & one leadership quality.
- Hashtags: #MegaTinkeringDay #TinkerCaptain #ATLInnovation #MTD2025

Challenge 3:
Behind the Scenes Reel

[● REC]

- Record a 25–30 sec video of your team prepping – arranging kits, setting up, or decorating the ATL.
- Caption: "Getting ready for Mega Tinkering Day!"
- Hashtags: #MegaTinkeringDay #ATLPrep #BehindTheScenes #MTD2025

Challenge 4:
Tour Your Setup Space

- Walkthrough Video of your ATL – show seating, projector, webcam, and DIY materials.
- Talk us through how you're setting up for a smooth tinkering day.
- Hashtags: #MegaTinkeringDay #ATLPrep #BehindTheScenes #MTD2025

Event Day Activities

Let the Tinkering Begin!

Mega Tinkering Day is all about hands-on creativity, teamwork, and fun! Here's a smooth step-by-step plan to help you run the day effortlessly — from welcoming students to sharing the final moments online.

● Step-by-Step Flow

1. Welcome and Entry
- ✓ Let students enter the ATL or event space.
- ✓ Make sure seating, kits, and AV setup are ready.

2. Orientation by ATL In-charge
- ✓ Welcome students, mentors, and any special guests.
- ✓ Brief everyone on the day's plan and the theme.

3. Introduce the DIY Project
- ✓ Explain what the students will build (e.g., vacuum cleaner).
- ✓ Talk about how it's useful in real life.

4. Material Check
- ✓ Ask students to open their ATL kits.
- ✓ Replace any missing items before beginning.

5. Connect to Live Session
- ✓ Start the national live stream on time.
- ✓ Make sure everyone can hear and see clearly.

6. Hands-on Tinkering Begins
- ✓ Students follow the session and build their projects.
- ✓ Encourage teamwork and creativity.

7. Mentor Support
- ✓ Mentors walk around, help students, and solve problems.

8. Capture the Moments
- ✓ Take photos and videos of students building and mentors guiding.
- ✓ Get close-up shots and wide views of the ATL action.

9. Project Completion & Testing
- ✓ Let students test and showcase their finished models.

10. Group Photo
- ✓ Take a big group photo with all students and projects.

11. Wrap-up & Clean-up
- ✓ Appreciate everyone's efforts.
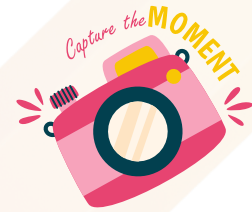- ✓ Ensure materials are packed and the space is clean.

Post-Event Activities

Reflect, Celebrate & Share!

After all the tinkering and excitement, it's time to look back, capture memories, and showcase what your students built and learned. These final steps help wrap up the event meaningfully and preserve the spirit of innovation.

Challenge 5
Post-Event Reflections

- Capture the Moments – Take a group photo with students and their projects. Record short clips of students, teachers, or mentors sharing what they built and learned.
- Add a Caption – Highlight what was built and any fun or surprising moments.
- Post with hashtag: #MegaTinkeringDay #ATLReflections #WhatWeBuilt #MTD2025

Challenge 6
Build a Tinkering Journal

- Student Journals – Ask students to fill a one-page journal:
  - What did we build?
  - What challenge did we face?
  - What would we improve next time?
- Share & Store – Post a few great entries on your schools social media handlers with hashtags #MegaTinkeringDay #ATLReflections #WhatWeBuilt #MTD2025 and save the rest for ATL records.

Final Step
Submit Your participation

- Upload all required documents and media as per the instructions on or before 14 August,2025

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SUBMIT

Benefits & Recognitions

- Participation Certificate for enrolled schools

- National spotlight

- Join 10,000+ Schools across India

- Boost Students' creativity and innovation skills

Overall Checklist

- ☐ Finalise the event location
- ☐ Finalise school tinker captain
- ☐ Finalise the number of student teams participating(3 to 5 students per team)
- ☐ Finalise the attendance sheet for the event day(for students)
- ☐ Get the DIY materials ready
- ☐ Check whether all the technical devices are working properly, if not fix them before the event date
  - ○ Computer ○ Internet ○ Speakers ○ Webcam ○ Projector
- ☐ Have a power backup
- ☐ Backup device arranged(PC/Laptop)
- ☐ Send invite to mentors/school heads/guests for a visit on the event day

Event Day Checklist: Did you...?

- ☐ Take attendance
- ☐ Create a volunteer task list:

  - ○ Volunteers for setting up the event space

  - ○ Volunteer for handling materials

  - ○ Volunteer for operating projector

  - ○ Volunteer for capturing photos and videos

Post Event Checklist: Did you...?

- ☐ Submit pictures from your event
- ☐ Upload pictures to Regional FB Page
- ☐ Collect a written testimonial of your experience
- ☐ Collect a written testimonial of student's experience
- ☐ Submit press links or coverage (if applicable)
- ☐ Submit list of thank you's (if applicable)
- ☐ Complete feedback survey
- ☐ Send out Certificates of Participation

Challenges Checklist:

Mark your progress and see where you stand!

- ☐ Challenge 1: Show Us Your Maker Space

- ☐ Challenge 2: Selfie with Your School Tinker Captain

- ☐ Challenge 3: Behind the Scenes Reel – Prep in action

- ☐ Challenge 4: Tour Your Setup Space

- ☐ Challenge 5: Post-Event Reflections

- ☐ Challenge 6: Build a Tinkering Journal
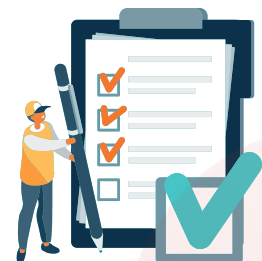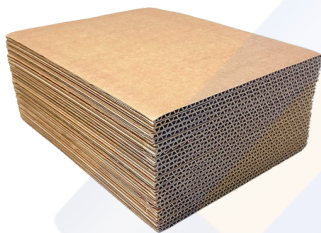
List of Materials (for 1 team of 4-5 members)

◯ **9v Battery**	◯ **Propeller**	◯ **Hot Glue Gun**
◯ **5V/ 12V DC Motors**	◯ **Hook wires**	◯ **Scissors**
◯ **Cardboard**	◯ **Plastic Bottle**	◯ **White Bandage**
◯ **Double Sided Tape**	◯ **Soldering Kit**	◯ **Switch**

Schools are free to procure materials, as per the number of projects they wish to make

FAQs – Mega Tinkering Day

1. What is Mega Tinkering Day?

Mega Tinkering Day is a special event where students explore, create, and showcase innovative projects using Atal Tinkering Lab resources. It is conducted in collaboration with AIM and other participating schools.

2. How long does the event last?

The event typically runs for 30-45 minutes, including project building, showcasing, and reflections.

3. Who can participate in the event?

All the ATL as well as Non-ATL schools can participate in the Mega Tinkering Day Event.

4. What equipment is needed to conduct the event?

You will need:

- Laptops or PCs or Smart Boards with internet access
- Webcams for video coverage
- The required toolkit and materials (available in the ATL)
- A clear space for students to work

5. Is photo and video documentation mandatory?

Yes. Schools must capture clear photos and videos of students working on their projects and submit them as part of the event report.

6. How should schools share event photos and videos?

Photos and videos should be uploaded to the google form provided by the AIM. Files should be named properly for identification.

7. What reporting is required after the event?

Schools must:

- Fill and submit the participation form
- Complete the feedback form describing their experience
- Share photo and video documentation

Addendums

PARTICIPATION DECLARATION LETTER

[School Letterhead]

Date: [DD/MM/YYYY]

Ref. No.: [Insert Reference Number]

PARTICIPATION DECLARATION LETTER

Mega Tinkering Day 2025

To Whom It May Concern,

This is to certify that [Full Name of the School], located at [Complete Address], actively participated in the Mega Tinkering Day 2025 organized under the Atal Innovation Mission, NITI Aayog on 12th August 2025.

A total of [Number of Students] students from our school took part in the event and engaged in hands-on STEM-based tinkering activities in alignment with the objectives of the Mega Tinkering Day.

We are proud to be a part of this nationwide celebration of innovation and creativity.

Warm regards,

[Signature with Stamp]

[Name of the Principal / Head of School]

[Designation]
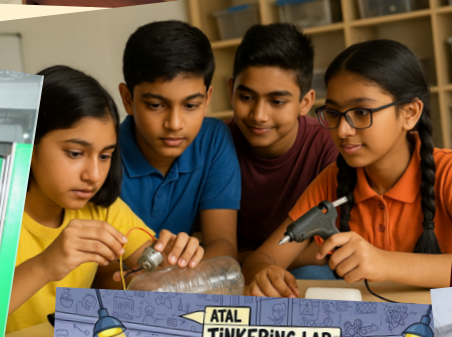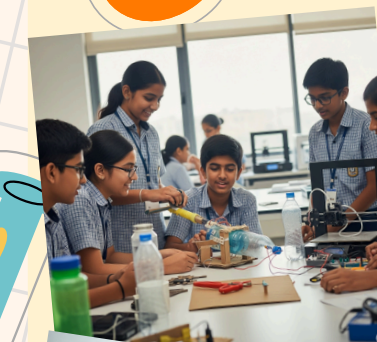
[Contact Number]

[Email ID]

Click to download sample

Participation Fuels Passion, Passion Sparks Innovation

GREAT!

GALLERY

WE CONTINUE TO TINKER!

COOL JOB!

BRAVO!