



भारतीयप्रौद्योगिकीसंस्थान (भारतीयखनिविद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

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Jharkhand School Innovation Challenge (JH-SIC) 2024 Grand Finale at IIT (ISM) Dhanbad

The prestigious **Jharkhand School Innovation Challenge (JH-SIC) 2024** concluded with an exciting Grand Finale at the **Golden Jubilee Lecture Theatre (GJLT), IIT (ISM) Dhanbad**. The event, organized by the **Naresh Vashisht Centre for Tinkering and Innovation**, celebrated the remarkable creativity and technical skills of school students from across the state.

This year, over **850 students** from **260 schools** participated in the challenge, competing in two categories: **Junior** (focused on Sustainable Development Goals) and **Senior** (centered on Cyber Physical Systems). The top 10 teams from each category, who were shortlisted after several evaluation rounds, showcased their **working prototypes** during the finale.

In the **Junior Category**, the **Mahendra Muni Saraswati Shishu Vidya Mandir, Madhupur** team took home the top prize of ₹25,000 with their project on *Smart City Eliminate Waste Management and Air Pollution*. The project focuses on using IoT and smart sensors to tackle waste management issues and reduce air pollution in urban areas.

In the **Senior Category**, **Kairali School, Ranchi** secured the winning title with their innovative project on *Automatic Crop Monitoring and Irrigation System*. This system uses real-time data to optimize water usage in agriculture, promising greater efficiency and sustainability.

The Director of IIT (ISM) Dhanbad, **Prof. Sukumar Mishra**, congratulated all the participants and highlighted the significance of platforms like JH-SIC in fostering a culture of innovation among students.

The evening ended with the award distribution ceremony, where the winning teams were honored with **trophies** and **cash prizes** for their outstanding projects.

Prof. Dheeraj Kumar, Deputy Director, IIT (ISM); Prof Alok Kumar Das, Dean IIE; Prof Rajni Singh, Dean Corporate Communication and others including Prof. R Anand were also present during the function.

Here are the top winners:

Junior Category:

- **Winner:** Mahendra Muni Saraswati Shishu Vidya Mandir, Madhupur
Project: Smart City Eliminate Waste Management and Air Pollution
Cash Prize: ₹25,000
- **1st Runner-Up:** Kerala Samajam Model School, Jamshedpur
Project: Smart Industrial Pollution Tracker and Controller
Cash Prize: ₹15,000



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- **2nd Runner-Up:** De Nobili School, Mugma
Project: AI-Driven Water Distribution and Optimization System
Cash Prize: ₹10,000
- **Consolation Prize:** Kasidih High School, Jamshedpur
Project: Automobile Precipitator
Cash Prize: ₹5,000

Senior Category:

- **Winner:** Kairali School, Ranchi
Project: Automatic Crop Monitoring and Irrigation System
Cash Prize: ₹50,000
- **1st Runner-Up:** Kerala Samajam Model School, East Singhbhum
Project: Automated Parking System
Cash Prize: ₹30,000
- **2nd Runner-Up:** Dhanbad Public School, Dhanbad
Project: Watchful Eye: Safeguarding with AI-Powered Security
Cash Prize: ₹20,000
- **Consolation Prize:** D.B.M.S English School, Jamshedpur, East Singhbhum
Project: MINDS (Mining Intelligent Navigation And 3D Surveying)
Cash Prize: ₹10,000

Rajni Singh

Dean (Corporate Communications)