

Report on Industrial Visit to CSIR-CMERI Centre of Excellence Farm Machinery (CoEFM)

Date of Visit: October 6, 2025

Venue: CSIR-CMERI, Ludhiana, Punjab

On 6th October 2025, Dr. Amandeep Kaur Sohal, Assistant Professor and PG-Coordinator, Dept. of CSE along with M.Tech.(CSE) students, visited the CSIR-CMERI Centre of Excellence for Farm Machinery (CoEFM), Ludhiana. Upon arrival, the team was warmly welcomed and guided by Dr. Chanchal Gupta, Senior Scientist, CoEFM, MERADO Ludhiana

The session began with an introduction to the institute's research domains, completed research projects, ongoing projects and work culture of organization. Dr. Chanchal Gupta addressed the students, highlighting future scope of Computer Science and Engineering and its growing role in the field of farm machinery and automation. He discussed various emerging technologies being adopted in agricultural engineering and demonstrated some of the ongoing projects at the centre.

During the interaction, students were also briefed about the institute's objectives, research activities, and staff expertise. Dr. Gupta also expressed interest in fostering further collaboration and interactions with students from other departments of Guru Nanak Dev Engineering College (GNDEC), Ludhiana.

The visit proved to be an enriching experience for the students, providing them valuable industrial exposure and an opportunity to understand recent technological advancements and real-world research applications. The session enhanced their awareness of how interdisciplinary knowledge—particularly from computer science—can contribute to innovations in farm machinery and sustainable agriculture.



Ludhiana, Punjab, India 🇮🇳

Vv65+rxj Gndec Complex, Gill Park, Ludhiana, Punjab 141003, India

Lat 30.862333° Long 75.859125°

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About the Institute:

The **Central Mechanical Engineering Research Institute (CMERI)** is the apex R&D institute for mechanical engineering under the aegis of the Council of Scientific and Industrial Research (CSIR). Being the only national level research institute in this field, CMERI's mandate is to serve industry and develop mechanical engineering technology so that India's dependence on foreign collaboration is substantially reduced in strategic and economy sectors. Besides, the institute is facilitating innovations and inventions for establishing the claims of Indian talent in international fields where Indian products shall ultimately compete. In the new millennium, CMERI is poised to expand its horizon of research activities so as to steer the country forward in cutting-edge and sunrise fields.

In view of the large size of the country and innumerable industrial establishments needing such solutions, the task was considered beyond the capacity of single research unit. This led to the conception of the **Centre of Excellence for Farm Machinery (CoEFM)**, erstwhile name MERADO as an Extension Centre concentrating on problems related to the development needs of the small and medium scale industries.