



CSMSS

**CHH. SHAHU COLLEGE OF ENGINEERING,
CHH SAMBHAJINAGAR**



DEPARTMENT OF ELECTRICAL ENGINEERING

Name of the event:	Industrial visit to Gangamai Sugar Factory and Cogeneration Plant
Date of the event:	29 th September 2026.
Participants	Students of Second Year Electrical Engineering (Total: 51 students & 2 Staff)
Name and Address of the Industry	Gangamai Sugar Factory, A/p Taluka Shevgaon, Dist. Najik Babhulgaon, Maharashtra 414502
Summary of the event:	Electrical Engineering students and faculty conducted an industrial visit to the Gangamai Industries Sugar Factory and cogeneration plant located at Najik Babhulgaon. The Gangamai facility operates on a zero-waste, converting sugarcane into sugar, ethanol, and bio-compost. The factory exemplifies modern industrial integration—combining sugar production with 40 MW bagasse-based cogeneration. This captive power plant fulfils the factory's massive internal electrical and thermal demands while actively exporting surplus electricity to the Maharashtra state power grid. Factory staff comprehensively explained and showed the sugar production process to all students. Important stages include 1) Cane Reception, 2) Juice Extraction, 3) Clarification, 4) Crystallization, 5) Centrifugation. We noted the factory's use of advanced technology and efficient waste management practices. Bagasse—fibrous residue from canes is used to generate steam that drives turbines coupled to electrical generators. The factory's safety protocols provided valuable insights into industrial applications.
Outcome:	➤ The industrial visit successfully bridged the gap between theoretical classroom concepts and real-world electrical engineering applications. It provided Direct observation and identification of heavy electrical machinery, switchgear, and protective relays in a live industrial setting. ➤ Control room access provided Students observation of SCADA system, how operators monitor real-time load distribution, manage power factor correction, and utilize predictive fault-detection systems to prevent downtime.
Photo:	 GPS Map Camera Gangamai Industries & Constructions Pvt. Ltd. (GIACPL)  Shevgaon, Najik Babhulgaon, Maharashtra 414502, India Lat 19.431200° Long 75.334000° Tuesday, 29/09/2026 02:21 PM GMT +05:30 Google Group photo taken at Gangamai Sugar Factory on 29/09/2026.


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