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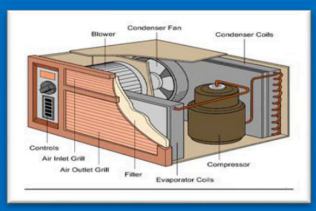
OZONE CELL INITIATIVE: SUSTAINABLE URBAN COOLING THROUGH DISTRICT COOLING SYSTEMS

OVERVIEW AND OBJECTIVES

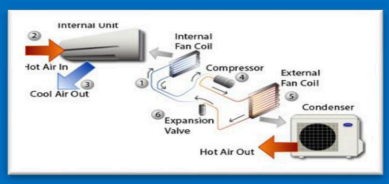
Rourkela, being a prominent hub for steel production and heavy industries, faces unique challenges in managing industrial cooling requirements. Steel plants, in particular, demand innovative solutions to optimize cooling systems, improve energy efficiency, and reduce environmental impact.

This workshop will delve into the critical aspects of retrofitting older steel plants with advanced District Cooling Systems (DCS). These systems enable precise monitoring and control of cooling processes, leading to enhanced operational efficiency.



Window AC

Centralized AC



Split AC

AGENDA OF MEETING

- Industrial cooling requirements in Rourkela focus primarily on steel plants.
- Retrofitting older industrial plants with modern cooling systems poses significant challenges.
- Waste heat recovery systems offer opportunities to enhance energy efficiency.
- Industrial wastewater can be utilized for sustainable cooling solutions.

MAJOR STAKEHOLDERS

- Eminent Professors in the field of HVAC
- HVAC Site Manager, NIT Rourkela
- SAIL Site Manager, Rourkela
- Major HVAC Dealers
- HVAC Site Manager (Malls: Cinepolis, Forum Galleria and Hospitals)

EMINENT PROFESSORS

Prof. M.P Maiya
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Prof. Maddali Ramgopal
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8th February 2025

Mechanical Sciences Building, NIT Rourkela

Organized by
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