हिन्दुस्तान पेट्रोलियम

सत्यमेव जयते

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Centre For High Technology
Ministry of Petroleum & Natural Gas
Government of India

HP GREEN R&D CENTER

in coordination with

CENTRE FOR HIGH TECHNOLOGY

is conducting

ACTIVITY COMMITTEE MEET

on

"Fluidized Catalytic Cracking Unit"

DATE: 28th & 29th AUGUST
VENUE: HPGRDC Bengaluru

HPGRDC- BENGALURU

HPCL has set-up its prestigious '**HP Green** R&D Centre' at Bengaluru, India in the year 2016 with an objective to develop innovative & path breaking technologies and products specific to petroleum refining sector. This is HPCL's 'Temple of Learning & Knowledge hub'. This Green R&D Centre has been set-up in eastern fringes of Bengaluru, The Garden City of India, and is located 15 km from ITPL / Whitefield and approximately 43 km from the Bengaluru Airport. It is among the cluster of Oil Marketing Terminals located in the vicinity

HP Green R&D Centre has been built in phases in a sprawling lush green campus of 107 acres. The Phase–I of the Green R&D Centre has laboratories pertaining to petroleum refining in the areas of FCC/ RFCC, Hydroprocessing, Catalysis, Bioprocesses, Crude Evaluation & Fuels Research, Analytical, Process Modelling & Simulation and Nano Technology. Each laboratories are equipped with the latest state-of-the-art research facilities/equipment. In April 2022, Green R&D Centre expanded its research facilities with the inauguration of 7 new Labs under Phase-II in the field of Petrochemicals & Polymers, Engine Testing, Tribology, Corrosion Studies, Novel Separations, Residue Upgradation and Battery Research. Further, the Green R&D Centre expanded its research and operating domain with the inclusion of Hydrogen lab, Digital lab, Water Research lab, Bitumen & Pavement research and Global Technology Centre.

The R&D Centre is recognized by the Department of Scientific and Industrial Research (DSIR) and has collaborations with almost all premier research institutes in India and abroad. The R&D Centre has made major technical accomplishments in terms of developing & commercializing novel technologies/products in refineries, contributing towards meeting the renewable energy demands, which led to significant cost advantages and efficiency improvements in HPCL.

CENTRE FOR HIGH TECHNOLOGY (CHT)

Centre for High Technology (CHT) was established as a dedicated technology cell of the Ministry of Petroleum & Natural Gas (MOP&NG) in 1987 to assess future requirements, acquire, develop, and adopt technologies in the elds of refinery processes, petroleum products, work relating to modernization of technologies, etc. CHT was registered as a Society, under the Societies Registration Act of 1860, on 09-03-1992. CHT is headed by an Executive Director (ED) and functions under the overall guidance and supervision of the Governing Council (GC) with the Secretary, Petroleum & Natural Gas, Government of India as its Chairman. There is also an executive committee to carry out the directions of the Governing Council and implement the plans and programs of CHT.

ABOUT THE MEET

"Fluid Catalytic Cracking (FCC) is a major secondary refining process for conversion of heavy hydrocarbons into value added lighter products such as Gasoline, LPG, Propylene. It enhances the profitability of a refinery. Flexibility in replacing the catalyst and additives without shutdown make this process highly flexible and provides an excellent opportunity to integrate with petrochemical. In this competitive business environment, flexible refining technologies like Fluid Catalytic Cracking (FCC) provides a competitive edge to refiners to produce value added products and intermediates for petrochemical production. Deep understanding of process features and catalyst potential are essential to exploit the benefit of the process. With this backdrop, CHT is organizing two days Activity Committee Meeting on "**Fluidized catalytic Cracking unit" on 28th and 29th Aug, 2025** in association with HP Green R&D Centre in Bangalore."

PROGRAM SCHEDULE

Date	Program Details
Inauguration (09:30-10:30 hrs.)	➢ Opening Remarks by Dir-R, HPCL ➢ Welcome address by ED, HPGRDC ➢ Theme address by ED, CHT ➢ Key-Note address
28th and 29th Aug'25 Presentations (10:30 – 13:30 hrs.) Lunch Break (13:30 – 14:30 hrs.) Presentations (14:30 – 17:30 hrs.)	Presentation by Refineries/R&Ds/Consultants/ Vendors. Each Presentation shall be given 15minute time plus 5 min for Q and A ➢ Feed stock Management ➢ Catalyst/ additive management ➢ Minimization of Catalyst loss and poisoning ➢ Optimization of process conditions ➢ Yield optimization ➢ Energy efficiency improvement and Encon Schemes ➢ Flue gas & emission management ➢ Integration with petrochemicals ➢ Innovation in FCCU ➢ Trouble Shootings ➢ Improvement Schemes ➢ Case Studies ➢ Shutdown and startup time management/Major experiences
Q&A Session	After every presentation
Concluding session:	➢ Key Takeaways and closing remarks by Convener ➢ Vote of thanks by CHT

GET IN TOUCH

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Bangalore, officially known as Bengaluru, is the vibrant capital of Karnataka and one of India's most dynamic metropolitan cities. Situated on the Deccan Plateau at an elevation of over 900 meters, it enjoys a moderate climate year-round. Often referred to as the "Silicon Valley of India", Bangalore is a leading hub for information technology, biotechnology, aerospace, and start-ups, hosting numerous multinational companies and research institutions.

The city's history is a rich tapestry shaped by the Vijayanagara Empire, Kempegowda, Hyder Ali, and Tipu Sultan, as well as the British colonial era. This blend of influences is reflected in its architecture, gardens, and cultural diversity.

Bangalore is home to notable attractions such as the sprawling Lalbagh Botanical Garden, the historic Bangalore Palace, and the lush Cubbon Park. Visitors can also explore Vidhana Soudha, a grand example of neo-Dravidian architecture, and Tipu Sultan's Summer Palace with its Indo-Islamic elegance. The city's thriving art, music, and cafe culture complement its bustling markets and modern malls. Well-connected by road, rail, and the Kempegowda International Airport, Bangalore links seamlessly to major national and international destinations. A cosmopolitan blend of technology, heritage, and greenery, Bangalore offers a unique experience that bridges India's past and future, making it one of the most sought-after destinations in the country.