

# 24th RPTM

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## Poster Session – 1

### Time duration for display - 0930 to 1830 hrs

- 01. Green Jet Fuel Production from Hydroprocessed Renewable Feedstocks**  
*Torkil Hansen, Haldor Topsoe*
- 02. Photo Electro Catalytic Reduction of Carbon Dioxide - Gateway to Sustainable Energy**  
*Narasimharao Kanna, Hindustan Petroleum Corporation Limited*
- 03. Near Zero Emissions – Clean Air Future**  
*Nitin Sud, Linde Engineering*
- 04. Block Chain in Supply Chain Management**  
*Avratanu Roy, Hindustan Petroleum Corporation Limited*
- 05. A Novel, Sustainable and Profitable Solution for Solid Waste Management: Extraction of Vanadium and Nickel from Gasification Slag and Refinery Spent Catalysts**  
*Venkata Narasimha Rao Chelli, Reliance Industries Limited*
- 06. Iron Poisoning and and Effective Novel Solution for RFCC is demonstration of Technology and Catalytic Development toward Sustainable Future**  
*John Haley, Rezel Catalysts Corporation*
- 07. Inline Crude Oil Blending for Refineries**  
*Thomas W. Edwards, Technics Inc.*
- 08. Crude to Chemicals - Indian Prospective**  
*Himanshu Sharma, EIL*
- 09. Technical Assistance with Densicat Loading**  
*Court Jean-Baptiste, PETROVAL*
- 10. Topsoe Furnace Manager (TFM) – Online Furnace Monitoring**  
*Naveen Kumar, Haldor Topsoe*
- 11. Use of Liquid Liquid Coalescers for treating high TAN Kerosene Streams in Caustic Treatment** *Ashwin Prabhu, Pall Corporation*
- 12. Enhancement of Hydrocracking Unit Performance with Honeywell UOP's Uniflow™ Hydroprocessing Reactor Internals: A Case Study jointly developed by IOCL and Honeywell UOP**  
*Yash Jain, Honeywell UOP; Sangeeta Purkayastha, Indian Oil Corporation Ltd*
- 13. Development of New Solvent for CO<sub>2</sub> Separation in Natural Gas Sweetening Process**  
*Rahul Sharma, GAIL*
- 14. Critical Requirements for Isolation valves– Hydrogen Service**  
*Harsh Kukreja, Honeywell UOP*
- 15. UOP High Performance Tubes for Sustainable Future in Refining and Petrochemicals**  
*Raymond Tucker, Honeywell UOP*
- 16. Low Cost Revamp of Delayed Coking Unit with Odd Number of Drums**  
*Hardeep Singh, Bharat Oman Refineries Limited*

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- 17. Making On-Purpose Propylene and Butylene from Refinery Stream to Aligning Refineries towards an Economically Sustainable Future**  
*Kartik Dhara, Rezel Catalysts Corp*
- 18. Introduction to KBR K-COT Technology (Process & Catalyst)**  
*Amit kumar Parekh, KBR Technology*
- 19. Processing More Resid through an FCC Unit using KBR's RegenMax Technology**  
*Rahul Pillai, KBR Technology*
- 20. A Superior and Less Known Method of Implementation of Advanced Process Control for Hydrogen Management**  
*Susanta Sadhukhan, Bharat Petroleum Corporation Limited*
- 21. A Novel Concept of Reducing Carbon Footprint through Green Energy Recovery (Huge Power Generation at No Extra Cost)**  
*Dinesh Brahma, Numaligarh Refinery Limited*
- 22. Practical Challenges in Tube Side Heat Transfer and Ways to overcome**  
*Ashwin Chandarana, Entech Engineers*
- 23. Improving Combustion Efficiency through Nuclear Magnetic Resonance by creating Harmonic Excitation of Fuel Molecules**  
*A. Ramanathan, Hindustan Petroleum Corporation Limited*
- 24. Integration of Uni-Cracking and Uniflex MC**  
*Prateek Gupta, Honeywell UOP*
- 25. Case Study of Flaring Loss Reduction through Data Analytics**  
*Karthick R, Mangalore Refinery & Petrochemicals Limited*
- 26. The refining-chemical complex of the present and future in a world of energy transition and digitalization**  
*Sarjerao Chopade, AspenTech*

## Poster Session – 2

### Time duration for display - 0900 to 1800 hrs

- 01. Digital Monitoring and Surveillance on Real time basis during RTA – Experience Sharing**  
*Monjit Kumar Borah, Numaligarh Refinery Ltd.*
- 02. Refinery and Petrochemical Integration : An Innovative Approach for Direct Blending of C5 MS Rich Components from PGHU Depentaniser of Naphtha Cracker to Refinery MS Pool**  
*Anurag Sharma, Indian Oil Corporation Limited*
- 03. CATACEL SSR- Tailored Hydrogen Catalyst Technology**  
*Setu Bajpai, Johnson Matthey*
- 04. Furnace Tube Analysis by IR Thermography**  
*Aubin Nicolas, PETROVAL*
- 05. Identifying and Carrying Out Quick Win Strategies that Maximized Refinery Margin by Processing Opportunity Crudes (Condensate)**  
*Prasad V., Bharat Petroleum Corporation Limited*
- 06. Development of Power Purchase Portal For Open Access Power Purchase through Exchange**  
*D.D. Sarkar, Bharat Petroleum Corporation Limited*
- 07. Delimit C3 splitter in Off-Gas Cracker by Reducing C3= losses from FCC unit**  
*Nagashyam Appalla, Reliance Industries Limited*
- 08. Innovative Low Cost Alternative Technique for Vapour Recovery at Retail Outlet during Decantation of Motor Spirit.**  
*Manjunath Halashi, Mangalore Refinery & Petrochemicals Limited*
- 09. Digital start up – Gasoline Treatment Unit, using State of Art Business Wi-Fi Network and Mobility Solutions**  
*Abhishek Pandey, Bharat Petroleum Corporation Limited*
- 10. Modular Approach for Various Recovery Schemes in Refineries and Petrochemical Complex, Nidhi Sharda, Honeywell UOP**
- 11. Topsoe ClearView™ – Meet your Targets every day**  
*Debi Prasad Das, Haldor Topsoe*
- 12. US Crude Processing: Are Indian Refineries Equipped for the New Challenge?**  
*Vivek Srinivasan, Dorf Ketal*
- 13. SMART Preventive Maintenance using Asset Management System**  
*V Muraleedhara Karanth, Mangalore Refinery & Petrochemicals Limited*
- 14. Reliability Initiatives for Sustaining Operation**  
*Nirmalya Nandi, Bharat Oman Refineries Limited*
- 15. Sustainable future: Improving the Competitiveness of the Assets**

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*Manoj Prabhakar, Independent Project Analysis (IPA) Inc.*

**16. Refinery ETPs Sustainable Operation**

*Ajoy Tiwari, Indian Oil Corporation Limited*

**17. First of its Kind PHE in APH of Dual Fired CDU / VDU Heaters at NRL**

*Geetali Kalita, Numaligarh Refinery Limited*

**18. Innovation in Upgradation of HGU Reformer Outlet Pigtail Insulation System to Achieve Reliability & Reduce Downtime**

*Kaushal Joshi, Bharat Oman Refineries Limited*

**19. Project Management – the Ecosystem includes Manufacturing and its Supply**

*Amit Kaul, Honeywell UOP*

**20. Production of Environmental Friendly Rubber Process Oils from Lube Extracts through Improved Process Scheme**

*Srinivasarao Ganagalla, Hindustan Petroleum Corporation Limited*

**21. Use Thermo compressors to Recover Venting of Low-Pressure Steam**

*Manash Kamal Dutta, Numaligarh Refinery Limited*

**22. Leveraging Industry 4.0 IIoT (Industrial Internet of Things) for Monitoring and Mitigation of Crude Column Overhead Corrosion**

*N. Vaartha, Indian Oil Corporation Limited*

**23. Maximizing Profitability for Hydrotreating Units while Reducing the Carbon Footprint by using Excel Rejuvenated Catalysts**

*Nirav Shah, Porocel Industries LLC*

**24. Usage of Stastical Tools in Energy Saving in Petroleum Refinery Sector**

*Dipak D Shukla, Reliance Industries Limited*

**25. Novel Energy Saving Approach - Lift Gas to Riser in Fluidized Catalytic Cracking**

*Satish Khedekar, Hindustan Petroleum Corporation Limited*

**26. Improvement of Anode Grade Delayed Coker unit profitability through Online Process**

*Prantik Mondal, Indian Oil Corporation Limited*

**27. Waste Heat to Power Generation - Case Studies from Refinery and Petrochemical Industries** *Balaji N., Engineers India Limited*

**28. Safety in Petrochemical Project of BPCL Kochi Refinery**

*Abhisek Mohanty, Bharat Petroleum Corporation Limited*

## Poster Session – 3

### Time duration for display - 0900 to 1300 hrs.

- 01. In-house modifications for increasing the reliability of Coplaner Manifold Indexer (CMI) in ParaXylene Unit of a Petrochemical Complex**  
*Ashwin Pai G., Mangalore Refinery & Petrochemicals Limited*
- 02. Hand held Asset Management tool for Electrical Equipments in BPCL, Mumbai Refinery**  
*D.D. Sarkar, Bharat Petroleum Corporation Limited*
- 03. A New Co-Generation in a Post Refinery Expansion (Co-existence of GTG Brayton Cycle + STG Steam Rankine Cycle + Organic Rankine Cycle)**  
*Dinesh Brahma, Numaligarh Refinery Limited*
- 04. APC Implementation in Sulphur Complex**  
*Suresh R., Bharat Petroleum Corporation Limited*
- 05. IR 4.0: Industrial Automation Case Study - Secure Data communication using Unified Architecture (OPC-UA)**  
*Sathiyarayanan, Bharat Petroleum Corporation Limited*
- 06. State-of-the-Art Methodology for Determination of Trace Level Hydrogen Sulphide in Hydrocarbon Streams (ATF) using Colorimetric Method by Spectrophotometer**  
*Y.S. Jhala, Indian Oil Corporation Limited*
- 07. Paving the Way for IR 4.0 - Getting More from Field Devices**  
*Ganesh Bhat, Mangalore Refinery & Petrochemicals Limited*
- 08. Thinking Beyond Pinch Analysis – A Real Case Study**  
*Mukesh H. Patel, Reliance Industries Limited*
- 09. Pioneering Approach for Improvement in Recirculating Sea Cooling Water Quality**  
*Bisetti Gopi, Hindustan Petroleum Corporation Limited*
- 10. A Statistical Approach towards Multi-Variable Non-Linear Predictive Model for the estimation of Reformate RON**  
*Phanishwar Kumar, Hindustan Petroleum Corporation Limited*
- 11. Revival of once Redundant Visbreaker Unit (VBU) at IOCL, Gujarat Refinery for Marpol grade FO (S<0.5 wt %) Production within Shortest Possible Time through Innovative Process Adequacy Study & Maintenance**  
*Pooja Patel, Indian Oil Corporation Limited*
- 12. Wireless Monitoring of Rotary Equipment in Hazardous, Inaccessible & Remote Areas Safety In Petrochemical Units & IR 4.0**  
*Monish B.S., Bharat Petroleum Corporation Limited, Kochi Refinery*
- 13. Added Flexibility in Light Olefin Production Utilizing a World Scale INDMAX FCC Unit**  
*Mr. Shailesh Bansal, Mcdermott (Lummus)*

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**14. FCC Catalysts-Hydrotreating catalysts**

*Anton Saraev, KNT Group Company*

**15. UOP High Performance Tubes for Sustainable Future in Refining and Petrochemicals**

*Abhishek Kadam, Honeywell UOP*

**16. Centralized Emission Monitoring – Case study**

*V. Muraleedhara Karanth, Mangalore Refinery & Petrochemicals Limited*

**17. Innovative Application of Advanced Techniques for Quick, Safe and Reliable Inspection of Storage Tanks in a Refinery**

*Sukant Dev, Indian Oil Corporation Limited*

**18. Utilization of Water Reservoirs in Industries for Generation of Electricity with an Added Advantage of Water Conservation**

*Saurabh Bhartiya, Mangalore Refinery & Petrochemicals Limited*

**19. Production of Drilling Fluid at BPCL-Mumbai Refinery**

*N. Suresh Kumar, Bharat Petroleum Corporation Limited*

**20. IMO Compliant Bunker Fuel – A Challenge for Refiners and IndianOil’s Approach**

*Thanigaivelu M., Indian Oil Corporation Limited*

**21. Dorf Ketal’s Sulfiding Agent – Better & Safer Coke Control for Ethylene Furnaces**

*Naushad Alam, Dorf Ketal*

**22. PDA Unit Revamp for Improved Energy Efficiency using Pinch Analysis**

*Mr. Nandagopal, Chennai Petroleum Corporation Limited*

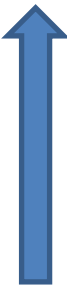
**23. Use of Data Processing Techniques in Refinery Process and Network Monitoring**

*Sowmya Challa, Indian Oil Corporation Limited*

**24. Cloud Based Data –Analytics Solution for Pre-Heat Train Predictive Maintenance in Multi- tenant Architecture**

*MS Miglani, Engineers India Ltd*

**Poster gallery**

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