PROGRAMME

22nd Refining & Petrochemicals Technology Meet

13-15 January, 2018

Mayfair Convention, Bhubaneswar, Odisha, India

Emerging Trends in Downstream Hydrocarbon Sector





पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय भारत सरकार Ministry of Petroleum and Natural Gas Government of India

REGISTRATION/COLLECTION OF BADGES

Mandap, Hotel Mayfair Lagoon, Bhubaneswar

12th January 2018 : 1700 hrs to 2000 hrs

Mayfair Convention, Bhubaneswar

13th January, 2018 : 0730 hrs to 0900 hrs

1400 hrs to 1800 hrs

14th January, 2018 : 0800 hrs to 1200 hrs 15th January, 2018 : 0800 hrs to 1000 hrs

Inaugural Session

0930 - 1200 hrs Venue: Central Hall

Technical Session - 1

1230 – 1400 hrs Venue : Central Hall

Emerging Trends in Refining & Petrochemicals - I

Session Chairman : Shri R. Ramachandran

Director (Refineries)

Bharat Petroleum Corporation Ltd.

- 1.1 Global Refining Outlook
 N. Ravi Venkatesh, IHS Markit
- 1.2 Emerging Trends in Downstream Hydrocarbon Sector Dr Partha P. Maitra, RIL
- 1.3 Emerging Trends in Downstream Petroleum Research
 Dr S.S.V. Ramakumar, Indian Oil Research & Development Centre

Technical Session – 2

1500 – 1630 hrs Venue : Central Hall

Emerging Trends in Refining & Petrochemicals - II

Session Chairman : Shri B.V. Ramagopal

Director (Refineries) Designate Indian Oil Corporation Ltd.

Technical Papers

- 2.1 Petrochemical Industry Trends and Opportunities Focus on India Sanjay Sharma, IHS Markit
- 2.2 **Emerging India in Petrochemicals** *Eshwar Yennigalla*, S&P Global Platts
- 2.3 **Hydrocarbon Sector Challenges & Opportunities** S.K. Handa, Engineers India Ltd.
- 2.4 Seven Ways in which Residue Gasification can Unlock Value Chain for Indian Refiners

Robert Schouwenaar, Shell

Technical Session – 3

1645 – 1815 hrs Venue : Central Hall

Refining and Beyond

Session Chairman : Shri Ajay N. Deshpande

Director (Technical)

(Addl. Charge of Chairman & Managing Director)

Engineers India Ltd.

- 3.1 Innovative Routes to Petrochemicals / Chemicals Morten Schaldemose, Haldor Topsoe
- 3.2 Emerging trends in Downstream Hydrocarbon Sector Sean Smyth, ExxonMobil
- 3.3 Electric Vehicles and the Impact on Refining Business in India and the World George Popps, Stratas
- 3.4 Transforming Refining & Petrochemicals Sector "Oil to Chemicals" Sourabh Mukherjee, JACOBS

Poster Session - 1

Time duration for display - 0930 to 1815 hrs

1. Use of Plastic Waste in Road Construction

Nikhil Gupta, Indian Oil Corporation Ltd., Bongaigaon Refinery

2. Improve Energy Efficiency and Robustness of Refinery through Maximizing Heat Recovery at Crude Distillation Unit

Nur Suhaili, PETRONAS

3. Mild Hydrocracking of VGO - Clean Fuel Flexibility

Kevin D. Carlson, CRI/Criterion Catalyst Company

 Commissioning of 60 KTA PP Plant (Novolen Technology) with Specific Focus on the Study on the Effect of CO-Catalyst, External Donor on Ziegler Natta Catalyst and Hydrogen Response

Mamta Lama, Brahmaputra Cracker and Polymer Limited (BCPL)

5. Low Cost Heater Revamp by Split Flow Technology

Gauri Pawar, Hindustan Petroleum Corporation Ltd., Mumbai Refinery

6. Enhancing Energy Efficiency in Petroleum Refinery Sector of India through Perform, Achieve & Trade (PAT) Scheme: Opportunities & Policy Solutions

S.S. Saini, Bureau of Energy Efficiency

 Process Simulation and Techno-economic Analysis for Production of Propylene Oxide from Petro-FCC of BPCL Kochi Refinery

Pintu Maity, Bharat Petroleum Corporation Ltd., Corporate R&D Centre

8. Differentiated Solvent for Refinery Tail Gas Treating Performance Enhancement with Improved Emission Compliance

Ritesh Gulabani, DOW

9. UOP Solutions to Impact Hydrogen Management

Prateek Pachauri, Honeywell UOP

10. Multi-functional Additive for Polypropylene

Jatinder Singh Dhaliwal, Indian Oil Research & Development Centre

11. Leveraging Wireless Technology for Process Control

Shyamal Bibar, ONGC Mangalore Petrochemicals Ltd.

12. Heat Transfer Enhanced Technologies for Energy Efficiency Improvement in a time of Environmental Challenges

Amrendra Bet, TechnipFMC

13. Evaluating Revamp Configuration Using Catalytic Olefins Technology: A Case Study

Rajeev Singh, KBR Technology

14. Increased Refinery and Petrochemicals Integration by Gasification - The Future

Bhatu Chaudhary, Linde Engineering

15. Impact of Upstream Refinery Operations on Effluent Treatment Plant

J.K. Joshi, Engineers India Ltd.

16. Topsoe's Scale Catcher Technology for Mitigating Pressure Drop in Hydroprocessing Units

Anuj Seth, Haldor Topsoe

17. A Novel Bi-functional Catalyst for the Production of Middle Distillates from Naphtha

Dr. Rajaram Bal, CSIR, Indian Institute of Petroleum

18. Flow Battery: An Efficient Hybrid Energy Storage and Conversion System for Reliable Stationary Power Application in Refineries

Malay Pramanik, HP Green R&D Centre, Hindustan Petroleum Corporation Ltd.

19. Energy efficiency improvement in Reformer of Hydrogen Unit at Numaligarh Refinery

Geetali Kalita, Numaligarh Refinery Ltd.

Technical Session – 4

0830 – 1030 hrs Venue : Central Hall

Advances in Refining Technology

Session Chairman : Shri L.K. Vijh

Director (T) Designate, EIL

Shri S.M. Vaidya

Executive Director (Ops), RHQ, IOCL

- 4.1 **MS** quality Upgradation -Challenges & Approach for 95 RON beyond 2020 *Brij Behari,* Indian Oil Corporation Ltd.
- 4.2 **Produce High Octane Gasoline in a Sustainable Way** *Varun Ginotra and Francois Baron*, Axens
- 4.3 **WSA Technology To Improve Reliability & Profitability of Refinery** *Jens Kristen Laursen,* Haldor Topsoe
- 4.4 Options for Increasing Margins with Invista's DTL™ and Straight Run Upgrading Technologies

 lan Woodcock, Invista
- 4.5 BHTS ThruPlus® Enhanced Double Fired Furnace Technology for Increased Coker Heater Run Lengths

 R.C. Kaarthik, Bechtel

Technical Session – 5

0830 - 1030 hrs Venue : Crystal Hall

Gasification

Session Chairpersons : Dr. Partha P. Maitra

President, Reliance Industries Ltd

Ms. Vartika Shukla Executive Director, EIL

- 5.1 Gasification Solutions for the Refinery and Petrochemical Industry

 Anil Sarin, CB&I
- 5.2 Syngas from Gasification of Low Value Fuels as a Feedstock for Petrochemicals

 Synth Single / Elips Depict
 - Sunil Singhal, Fluor Daniel
- 5.3 Indigenous Gasifier Technology and Fabrication Capability for Long-Term Energy Security

 Murur Venkatesh Prabhu, Larsen & Toubro
- 5.4 Carbon Recycling : Clean Fuel and Clean air Prabhakar Nair, Lanzatech
- 5.5 **Petcoke Gasification: A Better Option for Petcoke Utilisation in India**Aakash Agarwal, Indian Oil Corporation Ltd., BD (Petrochemicals)

Technical Session – 6

1045 – 1300 hrs Venue : Central Hall

Innovations in Refining

Session Chairman : Shri M. Venkatesh Director (R), MRPL

Technical Papers

- 6.1 Production of Petrochemical, Hexane, as a By-product from Isomerization Unit
 - Shreya Kondapalli, Bharat Petroleum Corporation Ltd., Mumbai Refinery
- 6.2 Low Cost Anti-Coking & Sulfiding Additive for Gas/Naphtha Cracker & Hydrotreating Catalyst
 Biswajit Shown, Reliance Industries Ltd.
- 6.3 In-situ Solvent Purification Using Ion-Exchange Technology Rajeswari D., Bharat Petroleum Corporation Ltd., Kochi Refinery
- 6.4 Development and Commercialization of In-house Technology for Production of High Quality Low Benzene Gasoline by Novel Extractive Distillation of High Olefinic FCC Gasoline

 Abhishek Jha. Reliance Industries Ltd.
- 6.5 Innovative Solution to Meeting Today's Gasoline Specifications Matthew Clingerman, Dupont
- 6.6 Innovative Process and Catalytic Technologies from Chevron Lummus Global Opens up Newer Frontiers

 Subhasis Bhattacharya, Chevron Lummus Global

Lunch Break 1300 – 1400 hrs

Technical Session – 7

1045 – 1300 hrs Venue : Crystal Hall

PVC - Options

Session Chairpersons : Shri K.K. Jain

Executive Director, (BD-PC), IOCL

Shri K. Ravi

Executive Director, West Coast Refinery, BPCL

Technical Papers

7.1 **PVC: India Perspective**Clement Choo, S&P Global Platts

- 7.2 **PVC Production by Carbide route**Naresh Jain and Shirish Puranik, DCM Shriram
- 7.3 Advanced PVC Process Improving Product Quality and Lowering Capital Investment
 Sagar Nawander, KBR Technology
- 7.4 **VCM / PVC Technology** *J.K. Joshi*, Thyssenkrupp
- 7.5 Consideration on Development of PVC and Relevant Sector In India Zhao Minwei, TCC China
- 7.6 PVC RIL Experience Rajesh Biyani, Reliance Industries Ltd.

Technical Session – 8

1400 – 1600 hrs Venue : Central Hall

Energy Efficiency Improvement

Session Chairpersons : Mr. Charles Reith

CEO, Solomon Associates

Shri K.K. Acharya

Head of Central Technical Services, RIL

Technical Papers

8.4

- 8.1 Innovative Ideas in Energy Conservation Vartika Shukla, Engineers India Ltd., R&D
 - 8.2 Energy Cost Efficiency Index[™]- Insights into Changing Energy Mix Trends Kevin Henke, Solomon Associates
- 8.3 Energy Conservation by Waste Heat Recovery from Low Temperature Process Streams

 G.V. Sathish, Indian Oil Corporation Ltd., Paradip Refinery
 - C.V. Garristi, indian on corporation Etc., Faradip Neimer
 - Energy Efficiency Improvements at GSFC, Vadodara Utkarsh Yajnik, Gujarat State Fertilizer Corporation Ltd.
- 8.5 Organic Rankine Cycle-Prospects of Implementation in Refineries
 Piyush Kant and Alexey Shorokhov, GCE Group

Tea Break 1600 – 1615 hrs

Technical Session – 9

1400 - 1600 hrs Venue : Crystal Hall

Styrene and Derivatives

Session Chairpersons : Shri M.V. Ravi Someswarudu

ED (PC-O&M) & OIC, GAIL

Shri S. Bharatan CGM, HPCL – HQ

- 9.1 **Derivatives of Styrene** *V.T. Nandakumar,* Supreme Petrochem
- 9.2 **Styrene Value Chain** *Malini Hariharan*, ICIS
- 9.3 Styrene from Py Gas Myths and Facts Sachin Joshi, GTC
- 9.4 UOP/Lummus Technology for Production of Ethylbenzene and Styrene Monomer
 Rakesh Kumar, CB&I

Technical Session – 10

1615 – 1815 hrs Venue : Central Hall

Advances in Catalyst Management

Session Chairpersons : Dr M.O. Garg

President (R&D), RIL Shri U. Venkataramana Director (Tech), CPCL

- 10.1 GRANITE™ sets the New Benchmark in FCC Technology Carel Pouwels, Albemarle
- 10.2 Catalyst Developments Enable Improved FCC Unit Profitability Bilge Yilmaz, BASF
- 10.3 **FCCU Catalytic Solutions** *Dr Kryukov O. Viktorovich*, KNT Group Russia
- 10.4 Innovative Catalyst & Adsorbents for Up-Gradation of Ethylene & Propylene Monomers to Polymer Grade

 Aravind Narayanam, Sudchemie
- 10.5 **Precious Metal Management** Shankhaneel Borah, MMTC - PAMP

Technical Session - 11

1615 – 1815 hrs Venue : Crystal Hall

Olefins

Session Chairpersons : Shri M.R. Meshram

ED (PC and R&D), GAIL Shri T.D.V.S. Gopalakrishna

CGM, IOCL-PDR

- 11.1 Linde Steam Cracker & UNIPOL™ PE Process Integration Franz Dalitz, Linde Engineering
- 11.2 **High Value Petrochemical Intermediates** *François Baron, Axens*
- 11.3 METEOR™ Ethylene Oxide/Ethylene Glycol Process Technology Mark Ballard, DOW
- 11.4 Sustainable Development in Polyolefin Industry Dr Shin-ichi Kojoh, Mitsui
- 11.5 UNIPOL® PP Leading PP technology with broadest product capability Yogesh Mishra, W.R. GRACE

Poster Session - 2

Time duration for display - 0830 to 1300 hrs

 KF 780 STARS®: The New, Proven All-Round Catalyst for Distillates & VGO Hydrotreating

Sudipto Chakraborty, Albemarle

2. Innovative method to treat fire water through ultrasonic systems

Mahendra Singh Bhadauria, Bharat Oman Refinery Ltd.

3. Power savings by Provision of PM (Permanent Magnet) blower in ETP

Narayan Salvi, Bharat Petroleum Corporation Ltd., Mumbai Refinery

4. Complete Conversion of High Sulfur Residual Fuel Oil to Petrochemicals

Goutam Biswas, Chevron Lummus Global

5. Concept of Hydrogen flaring control in HGU - An Energy Efficiency Measure

Manikandan Thannasi, Chennai Petroleum Corporation Ltd.

 Development of Alternate Processes for Lower Olefins (C2-C4): Taking a Step Forward

Indrajit K. Ghosh, CSIR, Indian Institute of Petroleum

7. Covalent Organic Framework (COF) Materials for Methane Storage

Nandakumar T., GAIL (India) Ltd.

8. Optimise Furnace Performance & Productivity by Topsoe Digital Service Initiative (Topsoe Furnace Manager (TFM) and TrueTemp™)

Sachin Panwar and Ronnie Dalsgaard, Haldor Topsoe

9. Energy Efficient Design with Light Desorbent Parex Aromatics Technology

Anup Dhaigude, Honeywell UOP

 Energy Efficiency & Reliability Improvements in Design of New Full Conversion Hydrocracker at HPCL Visakh Refinery

Prasanth Gudavalli, Hindustan Petroleum Corporation Ltd., HQ

11. Improved Heat Integration by Introduction of Hot Separator Drum in Prime G+ Unit

Rohit Sachan, Hindustan Petroleum Corporation Ltd., Mumbai Refinery

12. Novel Design of Attrition Rig for FCC Catalyst Selection for Improved Reliability

Somanath Kukade, HP Green R&D Centre, Hindustan Petroleum Corporation Ltd.

13. A Cost Effective and Novel Dewaxing Aid Polymer for Lube Refinery: A Make in India Product Development

CH Siva Kesava Raju, HP Green R&D Centre, Hindustan Petroleum Corporation Ltd.

14. HPFurnOKare online heater cleaning chemical

Sairam Madala, HP Green R&D Centre, Hindustan Petroleum Corporation Ltd.

15. Innovative Way to Troubleshoot Polypropylene (PP) Resin Pneumatic Conveying System

Mousom Some, Indian Oil Corporation Ltd., Paradip Refinery

16. Refinery and Petrochemical Integration- Concept of Petrochemical Refinery

Ritwik Kumar Hatial, Mangalore Refinery and Petrochemicals Ltd.

17. Energy Management System implementation for cross country hydrocarbon pipelines, Opportunities & challenges: Experience sharing of PCRA

Atul Vyawahare, Petroleum Conservation & Research Association

18. Advances in Hydroprocessing Catalyst Technology

Samarth Shah. Porocel Industries

19. Premium FCC Catalysts and Additives for Today's Refining Challenges

Mukund Balachandran, W.R. GRACE

20. Molecule Based Naphtha Flow Sheet towards Optimization of Xylenes Recovery

Bhoja Kandela, Reliance Industries Ltd.

Poster Session - 3

Time duration for display – 1400 to 1815 hrs

 Producing Superior Quality Plant Fuel from FCCU Clarified Oil Using Cold Filtration Technology

Sasi I., Bharat Petroleum Corporation Ltd., Kochi Refinery

2. Foray of Advanced Process Control into CCR Regeneration Section

Shreya Kondapalli, Bharat Petroleum Corporation Ltd., Mumbai Refinery

3. Innovative Approach by Carrying Out Online Sulphiding of Hydrogenator in Hydrogen Generation Unit to Reduce Turn-Around Days

D.K. Zutshi, Bharat Petroleum Corporation Ltd., Mumbai Refinery

4. Hydrogen Recovery from Refinery off Gas Using Metal Membrane-Laboratory Development and Process Economics

Rajesh Vankayala, Bharat Petroleum Corporation Ltd., Corporate R&D Centre

5. Reactive Adjunct Technology: Innovative Desalting Chemical Program

Vivek Srinivasan, Dorf Ketal

 EngHOG™- An Optimized Process for Desulfurization of Very Low Pressure Off-Gases

Alka Sharma, Engineers India Ltd.

7. Cryogenic Hydrogen Recovery: Technology for Efficient Refinery Hydrogen Management EngCryo™

Ravi Kant Gupta, Engineers India Ltd.

8. Integrated Advanced Maintenance System improves the Reliability

Tilak V. Patel. Essar Oil Ltd.

9. Improving SRU Reliability

Dharmendra Pandey, Essar Oil Ltd.

10. Improve Process Design Accuracy Using Uncertainty Analysis

Soumitro Nagpal, Fluor Daniel

11. IT-OT Integration for Enhancing Environmental Governance: A Case Study of HPCL - MR

Harsh Kujur and Sukhwinder Singh, Hindustan Petroleum Corporation Ltd., Mumbai Refinery

12. HPCoSoL - Novel process for selective aromatics extraction for enhancing lube oil yields

Srinivasa Rao Ganagalla, HP Green R&D Centre, Hindustan Petroleum Corporation Ltd.

13. Sludge Volume Measurement in Refinery Oil Storage Tanks by Thermography Method

Krishna Sarkar, Hindustan Petroleum Corporation Ltd., Visakh Refinery

 Reliability Improvement with High TAN Crude: New Methodology for Determination of Total Naphthenic Acid (NAN) and TAN in Crude Oil by using Potentiometric Techniques

Dr Y.S. Jhala, Indian Oil Corporation Ltd., Gujarat Refinery

15. A New Tool for unit Optimization and reliability improvement by Gas Chromatographic Simulated Distillation (HTSIMDIS) for the Determination of the Boiling Point Distributions of Crude Oils

Dr Y.S. Jhala, Indian Oil Corporation Ltd., Gujarat Refinery

16. Energy Savings in GT Atomizing Air

V.K. Srivastava, Indian Oil Corporation Ltd., Haldia Refinery

17. Emerging trends in automation for future refineries

Sudhanshu Shekhar, Indian Oil Corporation Ltd., Paradip Refinery

18. Improved Delayed Coking Process through Use of Additive

Pradeep P.R., Indian Oil Research & Development Centre

19. Economic Analysis of Various Integration Models for Use of Pet Coke

Mangalore Refinery and Petrochemicals Ltd.

20. Energy and Water conservation by Coagulant Change over from Aluminum Sulfate to Poly Aluminum Chloride (PAC) at a Conventional Water Treatment Plant

Manash Kamal Dutta, Numaligarh Refinery Ltd.

Technical Session – 12

0830- 1030 hrs Venue : Central Hall

Biomass Upgradation

Session Chairpersons : Shri L.K. Vijh

Director (Technical) Designate, EIL

Dr. S.K. Puri CGM, IOCL (R&D)

- 12.1 Production of High Quality Bio-Oil from Biomass Residues and Waste Plastics via Microwave Assisted Co-Pyrolysis and Catalytic Upgradation Vinu Ravikrishnan, Indian Institute of Technology, Madras
- 12.2 Low Temperature Catalytic Gasification of Biomass in to High Quality Syngas without Liquid Production

 Dr Sateesh Daggupati, Reliance Industries Ltd.
- 12.3 Conversion of Mixed Organic Residue Feedstocks to Drop-In Hydrocarbon Fuels via the IH2® Technology

 Vikrant Urade, Shell
- 12.4 Bio-Oil: An Introduction to the Next Opportunity Feedstock for FCC Dilip Dharia, Technip

Technical Session – 13

0830 - 1030 hrs Venue : Crystal Hall

Automation

Session Chairman : Shri S.S. Sunderajan

Managing Director, BORL

Technical Papers

- 13.1 **Benefiting from Digital Transformation in Refining Today and Tomorrow** *Ron Beck*, AspenTech
- 13.2 Industry 4.0 in Refinery & Petrochemical Industries Srivardhan Gandhi, Engineers India Ltd.
- 13.3 Connecting people and processes for smarter production Danielle Schindlbeck, Honeywell UOP
- 13.4 Reliable Power Solution for Petchem Complex- Grid Islanding Satyabrata Mishra, GAIL (India) Ltd.

Tea Break 1030 – 1045 Hrs

Technical Session – 14

1045 - 1245 hrs Venue : Central Hall

2G Ethanol

Session Chairpersons : Shri Gandham Sriganesh

ED, HPCL (R&D)
Shri M. Vinaykumar
CGM (I/C), MRPL

Technical Papers

14.1 Axens' innovative solutions for processing multiple biomass-derived feedstocks

Larissa Perotta, Axens

- 14.2 **Praj's Integrated 2G Smart Bio-refinery**Vasudeo Joshi, PRAJ Industries
- 14.3 **The Future of Biofuels in India** Shreerang Kardale, Stratas
- 14.4 **BioRefinery from Bamboo Feedstock A Game Changer** *Rupam Kumar Sarmah,* Numaligarh Refinery Ltd.

Technical Session – 15

1045 – 1245 hrs Venue : Crystal Hall

Best Practices and Operational Excellence

Session Chairpersons : Shri G.S. Singh

Executive Director, Paradip Refinery, IOCL

Shri S.N. Pandey

ED (Optimisation), IOCL-CO

- 15.1 Best Practices to Meet the Challenge of Heavier Residue Processing Opinder K. Bhan, Shell
- 15.2 Best Practices on Corrosion Mitigation at Sulfolane Extraction Unit Azmad B.A. Ghani, PETRONAS
- 15.3 Technological solution for Enhancing safety and productivity of storage tanks and Terminals

 Prasad Thomas. Ecotech
- 15.4 Present, Future Scenario of Petrochemical Sector and role of Opal Rajeev Vijay, OPaL
- 15.5 Chloride Removal Best Practices For Reliable & Profitable Operations

 Himanshu Chauhan, Johnson Matthey

Vote of Thanks

1245 – 1300 hrs Venue : Central Hall

> Lunch 1300 – 1400 hrs

Poster Session - 4

Time duration for display - 0830 to 1400 hrs

- Air Flow Improvement with Latest Technology Whizz Wheel Air Fin Cooler Nilesh Jadhao, Bharat Oman Refinery Ltd.
- 2. Innovative Steps carried out for Confirming Exchanger Leak While Unit in Operation
 - S. Navinraj, Bharat Petroleum Corporation Ltd., Kochi Refinery
- Crude and Vacuum Unit Furnace Skin Temperature Calculation through Online Simulation Using Aspen Online

Priya Bhagwat, Bharat Petroleum Corporation Ltd., Mumbai Refinery

 Reliability Improvement of Centrifugal Pumps in Hydrocarbon Service namely LGO, VD, LVGO and HVGO in CDU3 Unit

Santosh Kale, Bharat Petroleum Corporation Ltd., Mumbai Refinery

Steam Saving by Installing Welded Plate Type Heat Exchanger in RMP, ARU, SWS1

Rahul Pawar, Bharat Petroleum Corporation Ltd., Mumbai Refinery

6. DeBottlenecking of OHCU Product Stripper Performance by Modification of Internals in Product Stripper

Sitangshu Gupta, Chennai Petroleum Corporation Ltd.

7. New Method for Increasing Significant Gas Oil Yield and Energy Efficiency in Crude Distillation Unit

Dr Sunil Kumar, CSIR, Indian Institute of Petroleum

- 8. Energy Improvement Measures In Grassroot CDU VDU Design A Case Study

 Abhijeet Kumar Ram, Engineers India Ltd.
- Revamping Diesel Hydrotreating Unit for simultaneous co-processing of Diesel and VGO

Sachin Shrivasatava, Hindustan Petroleum Corporation Ltd., Mumbai Refinery

10. Energy Efficient Dividing Wall Column process for the production of Chemical Grade Propylene from C3/C4 rich streams of FCCU

Marial Abhijeet Vijay, HP Green R&D Centre, Hindustan Petroleum Corporation Ltd.

11. Swift Identification of Leaks Online in High Pressure Exchangers in DHT - A Case Study

G.V. Madhav, Hindustan Petroleum Corporation Ltd., Visakh Refinery

12. Changing Energy mix

Muralidhar Behera, Indian Oil Corporation Ltd., Corporate Optimization

13. Steam Reduction in ISOM and INDMAX

Mamoni Basumatary, Indian Oil Corporation Ltd., Guwahati Refinery

 Case Study Regarding Online Identification of Leaking Breech lock Exchanger and Innovative Approach Adopted To Troubleshoot the Leak in DHDT Unit of Paradip Refinery

Prasanta Adhikari, Indian Oil Corporation Ltd., Paradip Refinery

 Pressure Swing Adsorption Unit – The Preferred Separation Technology in Refineries

Mangesh Gampawar, Linde Engineering

16. Fresh Catalyst vs In-Situ/Ex-Situ Regenerated Catalyst: Process Parameters & Economics in High Severity Hydrocracker

Ritwik Kumar Hatial, Mangalore Refinery and Petrochemicals Ltd.

17. Improving Energy Efficiency in Fluidized Catalytic Cracking Unit – A Practical Experience

Mannu Jha, Mangalore Refinery and Petrochemicals Ltd.

18. Helical Baffle Exchanger- A Shift in Use of Heat Exchanger Technology- A Case Study in Numaligargh Refinery Ltd.

Rupam Goswami, Numaligarh Refinery Ltd.

 Catalyst and Technology Support – Journey from the Fuel Based Refinery to High Margin Petrochemical Feedstock Refining

John T. Haley, Rezel Catalyst Corporation

20. DHDS Throughput Maximization by Using Heavy Kerosene as Filter Backwash

Ashish Manne, Reliance Industries Ltd.

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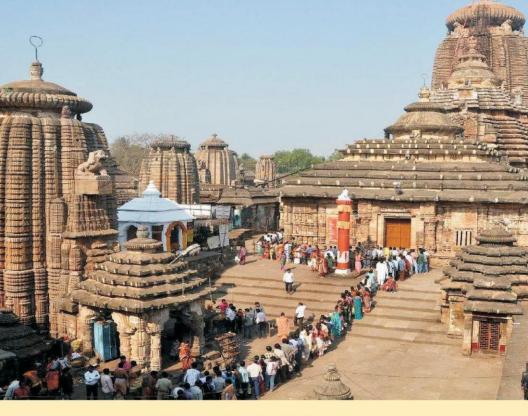






Notes

Notes



Lingaraja Temple, Bhubaneswar



Puri Jagannath Rath-Yatra



Konark Sun Temple



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