

PROGRAMME

23rd Refining & Petrochemicals Technology Meet

12-14 January, 2019

Bombay Exhibition Centre, Goregaon, Mumbai, India

Aligning Refineries Towards Sustainable Future



पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय

भारत सरकार

Ministry of Petroleum and Natural Gas
Government of India

REGISTRATION

Date	Time	Venue
11 January, 2019	1700 – 2000 hrs	Bombay Exhibition Centre Goregaon, Mumbai
12 -14 January, 2019	0800 – 1300 hrs	Bombay Exhibition Centre Goregaon, Mumbai

12 January, 2019

Inaugural Session

0930 – 1130 hrs

Tea

1130 – 1200 hrs

Technical Session - 1

1200 – 1400 hrs

Venue : Grande "A"

Aligning Refineries Towards Sustainable Future

Session Chairperson : **Shri Sanjiv Singh**
Chairman
Indian Oil Corporation Ltd.

Technical Papers

- 1.1 **Energy Trends and Refinery of Future**
Bharat Goenka, Shell
- 1.2 **Global Energy and Chemical Industry Outlook**
Sanjay Sharma, IHS Markit
- 1.3 **Sustainable Refining**
Dr. Partha P. Maitra, RIL
- 1.4 **Competitive Pathways for Crude to Chemicals**
Ujjal Mukherjee, Chevron Lummus Global LLC
- 1.5 **Global Refining Overview and Asia- Opportunity and Challenges**
Anshuman, Stratas Advisors

Lunch

1400 – 1500 hrs

12 January, 2019

Technical Session – 2

1500 – 1645 hrs

Venue : Grande "A"

Moving Towards Sustainable Future - I

Session Chairperson

Shri M.K. Surana
Chairman & Managing Director
Hindustan Petroleum Corporation Ltd.

Technical Papers

- 2.1 A Process for Drop in Renewable Aviation Fuel: A Key to Sustainable Future**
Dr. Anjan Ray, CSIR-IIP
- 2.2 Crude to Consumables: Transforming the World Around Us**
Sourabh Mukherjee, JACOBS
- 2.3 New Trends and Opportunities in Hydrogen Production**
Martin Skov Skjøth Rasmussen, HTAS
- 2.4 Hydrogen : The Fuel of the Future**
Linde Engineering
- 2.5 A Process for the Catalytic Conversion of Waste Plastic into High Quality Fuels**
Dr. Sateesh Daggupati, RIL

Tea

1645 – 1700 hrs

Technical Session – 3

1700 – 1845 hrs

Venue : Grande "A"

Moving Towards Sustainable Future - II

Session Chairperson

Dr. Anil Kakodkar
Chairman
Scientific Advisory Committee on Hydrocarbons of
Ministry of Petroleum & Natural Gas

Technical Papers

- 3.1 **Improved Production of Bio Gas and Bio CNG from Lignocellulosic Biomass**
Dr. Arvind M. Lali, DBT-ICT
- 3.2 **Converting Municipal Solid Wastes to Drop-in Hydrocarbon Fuels- Extending the Feedstock Choices for the IH2 process**
Harshavardhan J. Choudhari, Shell
- 3.3 **"Biomass Burning in Fields" to "Bio-Crude Reserve of Nation"- A Massive Opportunity in Disguise for Surplus Biomass in India**
Dharmesh Mahajan, Honeywell UOP
- 3.4 **Process Solutions for Transportation Fuels from Renewable Sources**
Varun Ginotra, Axens
- 3.5 **Carbon Recycling : Clean Fuel and Clean Air**
Prabhakar Nair, LanzaTech
- 3.6 **Praj's Integrated 2G Smart Bio-Refinery**
Vasudeo Joshi, PRAJ Industries Ltd.

12 January, 2019

Poster Session – 1

Time duration for display - 0930 to 1845 hrs

- 1. A Substitute to Claus Process for Sulphur and Ammonia Management**
Sagar Shukla, Haldor Topsoe
- 2. Co-processing - An Environmentally Sound Solution for a Zero Waste Future**
Arindam Das, Geo Cycle
- 3. Microwave Assisted Pyrolysis of Waste Mixtures and Catalytic Upgradation for the Production of Fuel Oils**
Dr. R. Vinu, IIT Madras
- 4. Development and Commercialization of Lubricity Improving Additive for Ultra Low Sulphur Diesel Fuel**
Dr. Sandip Bhowmik, Hindustan Petroleum Corporation Ltd. - R&D
- 5. Recovery of Heavy Metals from Petcoke Gasification Slag**
Dr. Sachchit Majhi, Reliance Industries Ltd. - Jamnagar Refinery
- 6. Innovative and Efficient way to produce Sulphuric Acid from Sour Gas of Refineries**
Shanmuga Sundaram, Sud-Chemie
- 7. Bio Crude Co-Refining: The Untapped Opportunity for India**
Dr. Piyali Das, TERI
- 8. Hydrogen Production from Renewable Sources: Moving towards use of Agri-waste Biomass as Sustainable Feedstock**
Dr. Sanjukta Subudhi, TERI
- 9. Bottom of Barrel Upgradation to Fuels via Catalytic Partial Oxidation**
Pudi Satyanarayana Murty, Hindustan Petroleum Corporation Ltd. - R&D
- 10. Exploring Assam Crude UCO potential for VG 10 Grade Naphthenic Oil Production for Transformer Oil Application**
Lalit Kumar, Bharat Petroleum Corporation Ltd. - R&D
- 11. Production Feasibility of Furfuryl Alcohol and Furan Resin from Furfural in Numaligarh Refinery**
Geetali Kalita, Numaligarh Refinery Ltd.
- 12. Tube Inserts for Heat Exchangers**
Nicolas Aubin, PETROVAL
- 13. Energy Efficiency, Optimized**
Sumit Chintawar, ALPHA LAVAL India Pvt. Ltd.

14. **BPCL MR Web based Monitoring of Pumps and Steam Traps**
Priya Bhagwat, Mumbai Refinery, Bharat Petroleum Corporation Ltd.
15. **Installation of Thermo-Compressor to Boost Surplus LP Steam Pressure using MP steam for CTA dryer**
Amit Kumar, Panipat Refinery, Indian Oil Corporation Ltd.
16. **Jet Type Fanless Cooling Tower in CPP at BPCL - Kochi**
Samuthirapandian P., Kochi Refinery, Bharat Petroleum Corporation Ltd.
17. **EngCryoTM: Better Hydrogen Utilization by Cryogenic Hydrogen Recovery**
Ravi Kant Gupta, Engineers India Ltd.
18. **Enhancement in Boiler Efficiency (Utility Boiler) and Emissions Reduction by Use of Oxygen Enriched Gas from Nitrogen Plant**
Manas Kamal Dutta, Numaligarh Refinery Ltd.
19. **Introduction of Lowest Lifecycle Cost (LLC) Pump in BPCL Mumbai Refinery**
Avinash B. Gadekar, Mumbai Refinery, Bharat Petroleum Corporation Ltd.
20. **PAFC Hydrogen Fuel Cell charging by using Tail Gas from PSA system in Ethylene Cracker Unit of Dual feed Petro - Polymer Plant**
Manosh Jyoti Das, BCPL
21. **Dividing Wall Columns for Petrochemical Naphtha Product Upgradation**
Manish Bhargava, DWC Innovations
22. **EB-X Technology: a Solution for a PX Plant's Performance Improvement**
Sachin Joshi, GTC
23. **Scale up Studies and Commercialization of Novel FCC Gasoline Sulfur Reduction Catalyst Additive (BHARAT GSR CAT)**
Chiranjeevi Thota, Bharat Petroleum Corporation Ltd. - R&D
24. **Real Time Optimization: Digital Transformation Initiative for Oil & Gas**
Sweta Aglawe, AVEVA

13 January, 2019

Technical Session – 4

0900 – 1100 hrs

Venue : Grande "A"

Gasification: Towards Sustainability

Session Chairperson : **Dr. Partha P. Maitra**
President
Reliance Industries Ltd.

Technical Papers

- 4.1 **Plasma Gasification - Sustainable route to produce Petrochemicals from Refinery Waste**
Srinivas Moturi, MRPL
- 4.2 **A Pathway through Bio-refinery using Thermochemical Conversion: Opportunities for Biomass as a Mainstream Energy Source**
Prof. S. Dasappa, IISc
- 4.3 **Low Temperature Catalytic Gasification of High-Ash Indian Coal, Agri-Residue and Petcoke into High Quality Syn Gas**
Dr. Asit Das, RIL
- 4.4 **Petcoke to Methanol - Further to Propylene and Acrylic Acid**
Dr. Siddhartha Mukherjee, Air Liquide
- 4.5 **Integrated Refinery Scheme**
Nan Liu, Shell
- 4.6 **Novel Catalysts and Catalytic processes for Converting CO₂ to Fungible Liquid Fuels and Chemicals**
Moti Herskowitz, Ben Gurion University, Israel

Tea

1100 – 1115 hrs

Technical Session – 5

0900 – 1100 hrs
Venue : Grande "B"

Quality Improvement: Options

Session Chairpersons

Dr. Anjan Ray
Director, CSIR - IIP
Shri A.R.S. Bhandari
Senior Vice President, BORL

Technical Papers

- 5.1 Octamax®: An Indigenous Technology for Conversion of Cracked C4 Stream to High-Octane Gasoline**
S. Saravanan, IOC (R&D)
- 5.2 Etherification - Route to High RON Gasoline**
Amardeep Puri, Axens
- 5.3 Octane Solutions - KSAAT, NexOCTANE, MAXISOM Technologies**
Indraneel Nandi, KBR Technology
- 5.4 Enhancing LC - FINING to include LSFO production**
Goutam Biswas, CLG
- 5.5 Octane Boost and Capacity Increase for Hydrotreated Naphtha**
Brant Aggus, Invista
- 5.6 Advances in Alkylation Technologies, AlkyClean®**
Puneet Puri, McDermott Technology

Tea

1100 – 1115 hrs

13 January, 2019

Technical Session – 6

1115 – 1300 hrs

Venue : Grande "A"

Innovations in Refineries – Profit Improvement

Session Chairpersons

Shri Vinod S. Shenoy
Director (R), HPCL

Ms. Vartika Shukla
Executive Director (R&D), Engineers India Ltd.

Technical Papers

- 6.1 Energy optimisation through Utilities Energy Reduction**
Joan Sanroma, KBC
- 6.2 Insights into Reducing Steam System Size and Fresh Water Usage**
Kevin Henke, Solomon Associates
- 6.3 Innovative Business Process for Sulphur Recovery System**
Asawari V. Kelkar, Mumbai Refinery, BPCL
- 6.4 Recovery of Ammonia from Refinery Sour Gases**
V. Kamesh Jayanti, EIL
- 6.5 SWAATS - A New Commercialised Process for Processing Acid Gas and Alternative Product for Sulphur**
Sachin Joshi, GTC
- 6.6 Maximizing Light Olefin Potential from FCC unit**
Mukund Balachandran, Grace

Lunch Break

1300 – 1400 hrs

Technical Session – 7

1115 – 1300 hrs

Venue : Grande "B"

Advances in Refining Technology

Session Chairpersons

Shri M. Venkatesh
Managing Director, MRPL

Shri S.K. Handa
Director (PJ) Designate, Engineers India Ltd.

Technical Papers

- 7.1 **The Power of Pretreat**
Pieter Lusse, Albemarle
- 7.2 **Honeywell UOP Uniflex™ MC™ Technology – Maximizing Profitability with High Residue Conversion**
Honeywell UOP
- 7.3 **ART's Catalyst Technology for Ebullating Bed Resid Hydrocracking**
Balbir Lakhnpal, ART Hydroprocessing
- 7.4 **A Self Sufficient Hydrogen Generation unit : Largest in India**
S.N. Sheshachala, HPCL
- 7.5 **Next Generation Hige based Amine Process**
Mukesh Shivhare, EIL
- 7.6 **From Motor Fuels to Petrochemicals: A Stepwise Implementation Program**
Unlocking Opportunities for Refiners
Dilip Dharia, TechnipFMC

Lunch Break

1300 – 1400 hrs

13 January, 2019

Technical Session – 8

1400 – 1600 hrs

Venue : Grande "A"

Innovations in Refineries: Products

Session Chairpersons

Shri B.V. Ramagopal
Director (R), Indian Oil Corporation Ltd.
Shri Prasad K Panicker
Executive Director (I/C), Kochi Refinery, BPCL

Technical Papers

- 8.1 **Cost Effective Indigenous Dewaxing Catalyst BHARAT-hiCAT for LOBS Production : Development and its Commercial Performance**
BPCL (R&D)
- 8.2 **Production of D 80 (De Aromatised Solvent) in BPCL Mumbai Refinery**
N. Suresh Kumar, Mumbai Refinery, BPCL
- 8.3 **HPCORRMIT - A Novel Cost Effective Inhibitor for LPG Pipelines – A Make in India Initiative**
K. R. Krishna, HPCL (R&D)
- 8.4 **Safer and Effective Sulphiding Chemistry for Refinery and Petrochemical Plants**
Parag Shah, Dorf Ketal
- 8.5 **A Reliable Technology for Liquid Hydrocarbons Drying**
Regis Taillon, Quadrimex Chemical

Tea Break

1600 – 1615 hrs

Technical Session – 9

1400 – 1600 hrs

Venue : Grande "B"

Catalysts: Next Generation 1

Session Chairpersons

Dr. S.S.V. Ramakumar
Director (R&D), Indian Oil Corporation Ltd.

Shri Amar Kumar
Senior VP & Head Ops., Nayara Energy Ltd.

Technical Papers

- 9.1 Novel Catalysts and Catalytic Processes for Converting Waste Biomass to Fungible Liquid Fuels and Chemicals**
Moti Herskowitz, Ben Guiron University, Israel
- 9.2 On Purpose Catalyst Supports for Sophisticated Catalyst Design**
Dr. Alexander Malyschew, SASOL Performance Chemicals
- 9.3 Maximize Refinery Margin by Leveraging Criterion's Hydrocracking Pre-Treat Catalyst and Shell Reactor Internals**
Rambabu Raja, Shell - Criterion
- 9.4 Latest Development in VGO Hydro-treatment Catalysts**
Vaibhav Khandelwal, Axens
- 9.5 Solving Refiner's Challenges through Latest Generation Topsoe's HELPSc™ Technology and HySwell™ Catalyst**
Raju Chopra, HTAS

Tea Break

1600 – 1615 hrs

13 January, 2019

Technical Session – 10

1615 – 1815 hrs
Venue : Grande "A"

IR 4.0: Digital Revolution

Session Chairpersons

Shri C.J. Iyer
Executive Director (I/C), Mumbai Refinery, BPCL
Mr. Sergey Denisov
Chief Development Officer, Nayara Energy Ltd.

Technical Papers

- 10.1 Industry 4.0 in Oil & Gas : Relooking at Digital Transformation with a Risk Based Approach**
Rati Bhattacharya, DuPont
- 10.2 Leveraging Cloud to drive Operational Excellence**
Akshay Gupta, Honeywell UOP
- 10.3 Initiatives and Steps towards Industrial Revolution 4.0**
Priya Bhagwat, Mumbai Refinery, BPCL
- 10.4 Accelerating Digital Transformation in the Indian Refining Industry (IR 4.0)**
Ron Beck, Aspentech
- 10.5 Digital Mission for Downstream : Next Generation Advance Plant Analytics**
Murli Dhar Agrawal, TCS
- 10.6 Digitisation in Petroleum Refineries : A Way Forward**
Simon Rogers, Yokogawa

Technical Session – 11

1615 – 1815 hrs

Venue : Grande "B"

Petrochemicals for Business Sustainability

Session Chairpersons

Shri M.V. Someswurudu
ED (PC-O&M) & Officer-in-Charge, GAIL-Pata
Shri S. Bharatan
CGM (PJ-PS), Hindustan Petroleum Corporation Ltd.

Technical Papers

- 11.1 **Dow Global Technologies LLC, METEOR™ EO-RETRO 2000 Catalyst for Ethylene Oxide Production**
Mark Ballard, DOW
- 11.2 **The EMTAMSM process: A Path to Advanced Paraxylene Production**
Michel Molinier, ExxonMobil Chemical Company
- 11.3 **Adding Value to Refinery LPG Streams : Propane / Butane Dehydrogenation and Polypropylene**
Gijs TenBerge, McDermott Technology
- 11.4 **Refinery Off Gas Cracker**
Reliance Industries Ltd.
- 11.5 **HPPO-The leading PO Technology**
Dr. David Bolz, EVONIK Resource Efficiency
- 11.6 **Evaluating Revamp Configuration Using Catalytic Olefins Technology: A Case Study**
Pratap Vijay Singh, KBR Technology

13 January, 2019

Poster Session – 2

Time duration for display - 0900 to 1815 hrs

- 1. Insitu Supholane Solvent Regeneration using ION Exchange Technology**
D Rajeswari, Kochi Refinery, Bharat Petroleum Corporation Ltd.
- 2. Replacement of Duplex Stainless Steel with Alloy 825 can increase the Service Life of REAC in HCU**
Debashis Thakur, Numaligarh Refinery Ltd.
- 3. State of the Art Methodology for Identification of Amine Traces in Refinery Water System for Identification of Leakage and Losses of Amine**
Dr. Y.S. Jhala, Gujarat Refinery, Indian Oil Corporation Ltd.
- 4. Integrating Block Chain with IR 4.0 for Hydrocarbon Industry**
Parag Bhatt, UPES
- 5. Implementation of “EngHOGTM” Process for Desulphurization of Very Low Pressure Hotwell Offgases**
Sanjib Paul, Engineers India Ltd.
- 6. A Novel Approach to Maximize Power Import from Grid with Improved Reliability in a Captive Power Plant with Double Bus-Bar Arrangement**
Akshata Kotharkar, ONGC Mangalore Petrochemical Ltd.
- 7. Making Hydrogen Back from H₂S: A Modified Thermochemical S-I cycle**
Subham Paul, CSIR - Indian Institute of Petroleum
- 8. K Model: Desktop Solution for Crude Oil Blend Compatibility and Blend Optimization for Increasing Heavy Oil Processing**
Rajeev Kumar, Bharat Petroleum Corporation Ltd. - R&D
- 9. Integration of VAM Technology with LRVP Technology for Replacement of last Two Stages of Steam Ejectors**
Harish SVS, Gujarat Refinery, Indian Oil Corporation Ltd.
- 10. Replacing TAN Constraint with True Corrosivity Constraint in Refinery**
Anurag Verma, Reliance Industries Ltd. - Technology Group
- 11. Closed Sampling System for Pressurized Dome and Cone Roof Tanks**
Basha Nadeem Syedazam, Bharat Oman Refinery Ltd.
- 12. Achieving Operational Excellence in Utility Boiler**
Angshuman Das, Numaligarh Refinery Ltd.

- 13. Advanced Exposure Protection cum Fire Suppression Water Mist Curtain System for Storage Tanks**
Syed Faizan Ali, Bongaigaon Refinery, Indian Oil Corporation Ltd.
- 14. Precious Metal Management for Oil and Petrochemical Industry**
Shankhaneel Borah, PAMP Switzerland
- 15. Efficient Steam Traps and Condensate Management**
Rajesh Kulkarni, Thermax Ltd., Pune
- 16. Novel Method of Food Grade Hexane Production from Par-ISOM Unit**
Syed Imran Ahmed R, Kochi Refinery, Bharat Petroleum Corporation Ltd.
- 17. Shifting to Ammonia Injection for better PH Control in TGTU**
M Venkata Sudhakar, Kochi Refinery, Bharat Petroleum Corporation Ltd.
- 18. E-Mobility and Battery - Present Indian Scenario and Future Scope**
Malay Pramanik, Hindustan Petroleum Corporation Ltd. - R&D
- 19. Octane Barrel Increment with Optimized Energy Utilization Isomerization Case**
Mannu Jha, Mangalore Refinery and Petrochemicals Ltd.
- 20. Adopting Industry 4.0 Revolutionized Digital Technologies in Petroleum Refining and Petrochemical Industry**
Sathish Ganesan Vaithianathan, Paradip Refinery, Indian Oil Corporation Ltd.
- 21. Green Technology for Treatment of Water Utility across Petrochemical Refinery**
Ankit Thakur, Xylem Water Solutions India Pvt. Ltd.
- 22. Indigenous Tail Gas Treating Technology to Process Ultra-low pressure Tail Gas from Sulphur Recovery Unit**
Saptarshi Paul, Engineers India Ltd.
- 23. In house Rigorously Developed EDR Furnace Models for Calculating Fouling Resistance and Recommend Cleaning and Substantiate the Effectiveness of Cleaning Agent**
Prasad V., Mumbai Refinery, Bharat Petroleum Corporation Ltd.
- 24. Coker Furnace Anti foulant**
Bharat Joisar, Dorf Ketel

14 January, 2019

Technical Session – 12

0830– 1030 hrs

Venue : Grande "A"

Catalysts : Next Generation 2

Session Chairpersons

Dr. M.O. Garg
President, Reliance Industries Ltd.
Shri M. Vinay Kumar
Group General Manager (I/C - Refinery), MRPL

Technical Papers

- 12.1 **Luminate™ – Latest Catalyst Innovation to Maximize Value Addition in FCC Units**
Amit Kumar Shah, BASF
- 12.2 **Hydroprocessing of Renewable Feedstocks - Challenges and Solutions**
Sylvain Verdier, HTAS
- 12.3 **Real time Optimization of FCC Catalyst Selectivity**
Paul Diddams, Johnson Matthey
- 12.4 **Accu(R) Spheres : New technology for making small spheres not previously available**
Paul Szymborski, Saint Gobain NorPro
- 12.5 **Catalysts and Process Technologies for Olefin Derivatives - Aligning Refineries towards an Economically Sustainable Future**
John T. Haley, Rezel Catalysts Corporation
- 12.6 **FCC Catalytic Solutions Adsorbents Hydrotreating and Hydrocracking Catalysts**
Oleg Kryukov, KNT Russia

Tea Break

1030 – 1045 hrs

Technical Session – 13

0830 – 1030 hrs

Venue : Grande "B"

Best Operational Practices

Session Chairpersons

Shri S.N. Pandey
Managing Director, CPCL
Shri P.V. Ravitej
CGM, Mumbai Refinery, BPCL

Technical Papers

- 13.1 **Paraxylene Generator: Tatoray Regeneration – First Time in India**
Prashant Kulkarni, OMPL
- 13.2 **Virtualisation Technology for Process Controls**
Royston Rohan Mascarenhas, OMPL
- 13.3 **Robotic Technique for Processing API Separator Sludge**
Dnyanesh Suresh, Mumbai Refinery, HPCL
- 13.4 **Towards Hydrogen Economy - Opportunities and Challenges**
S Barathy, GAIL India Ltd.
- 13.5 **Centralised Mvar and MW control of generators in CPP through Electrical Control System**
Shinod Kumar K.B., Kochi Refinery, BPCL
- 13.6 **How Green, Cool and Energy Efficient is your Cooling System?**
Shailesh Harani, Armec Cooling Tower Pvt Ltd.

Tea Break

1030 – 1045 Hrs

14 January, 2019

Technical Session – 14

1045 – 1215 hrs
Venue : Grande "A"

Benchmarking

Session Chairpersons :

Shri K.K. Jain
Executive Director, Barauni Refinery, IOCL
Shri M.B. Pimpale
Executive Director (Ref. PJ), Mumbai Refinery, BPCL

Technical Papers

- 14.1 Insights into Pipeline Benchmarking and Olefins Benchmarking**
Radhika Ojha, Solomon Associates
- 14.2 Improving Project Performance through Benchmarking : A Refining & Petrochemical Perspective**
Manoj K Prabhakar, Independent Project Analysis Inc
- 14.3 Safety Benchmarking : Insights from Oil & Gas Industry Experience**
Srinivasan Ramabhadran, DuPont
- 14.4 Global Strategies for Successful Execution of Mega Petrochemical Projects**
Arun Kumar Jain, Fluor Daniel

Vote of Thanks
1215 - 1300 hrs
Grande "A"

Lunch
1300 – 1400 hrs

Technical Session – 15

1045 – 1215 hrs

Venue : Grande "B"

Operational Risk Management in Petrochemicals Units

Session Chairpersons

Shri G. Sriganesh
Executive Director (R&D), HPCL

Shri V.J. Rao
Executive Director, Oil Industry Safety Directorate

Technical Papers

- 15.1 **Improving Business Success through Operational Risk Management**
Nicholas Bahr, DuPont
- 15.2 **Safety Design Practices followed for Extrusion Building in a US Polyolefin plant - A Case Study**
Babanna Biradar, Bechtel
- 15.3 **Operator Training and Certification - A Vital Component for Safe Operations of a Petrochemical Plant**
Philippe Buch, IFP Training
- 15.4 **Case studies of the Industrial Disaster (Dust Particle Explosion)**
Balamurugan N, OMPL

Vote of Thanks
1215 - 1300 hrs
Grande "A"

Lunch
1300 – 1400 hrs

14 January, 2019

Poster Session – 3

Time duration for display - 0830 to 1215 hrs

- 1. Auto blending of MS and HSD: Optimization and Minimization of Quality give Away and Operational Excellence to achieve BS-VI**
Dr. Y.S. Jhala, Gujarat Refinery, Indian Oil Corporation Ltd.
- 2. IIOT Application in Refinery - Crude & Vacuum Distillation Unit**
Ashwani Malhotra, Engineers India Ltd.
- 3. Floating Anchors, Provisions for Reducing Refractory Dislodging at CCU Incinerator**
Mohammad Ismail Hussain, Numaligarh Refineries Ltd.
- 4. Making CCR Cooling Water Line Piggable, helping to achieve Throughput of 4000 TPD consistently**
Prafull Vijaykumar Madne, Mumbai Refinery, Bharat Petroleum Corporation Ltd.
- 5. Innovative Modification of Process Air Compressor in PTA to run Unit without Expander**
Joydeep Choudhury, Panipat Refinery, Indian Oil Corporation Ltd.
- 6. Reliability Improvement of GE Make Frame VI GT**
Prabakar K, Kochi Refinery, Bharat Petroleum Corporation Ltd.
- 7. Improve Hydroprocessing Campaign Length and Product Quality with Contaminant Removal**
Hemant Sharma, PALL Corporation
- 8. Pivoting on Higher Cracking Activity and FCC Profitability**
Tiepan Shi, HCpect FCC Catalyst
- 9. Energy Optimisation in a CHP Plant in Refinery**
N.V.B. Subrahmanyam, BHEL GE Gas Turbine Services Pvt. Ltd.
- 10. Recovery of Valuable Hydrocarbons from Petroleum Crude Sludge via Microwave Pyrolysis and Catalytic Upgradation**
P Francis Prashanth, IIT Madras
- 11. Enabling Synergies Delivering Solutions for Butadiene Extraction Units**
Sumit Ghiya, Linde Engineering
- 12. Strategies for Reliability Improvement of Electrical Systems in Petroleum Refineries**
G. Hanmanth Rao, Chennai Petroleum Corporation Ltd.

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Institute of Chemical Technology, Mumbai





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