

## Day 1 - Thursday 12 October 2023

All times are in IST (GMT +5.5 hours)

9:00 AM - 9:10 AM	Opening Remarks by Three Ten Initiative Technologies LLP
9:10 AM - 9:30 AM	Keynote Remarks Title Sponsors - Sulzer India Pvt. Ltd. & Shell India Markets Pvt. Ltd.
9:30 AM - 11:05 AM	<b>Session Theme: Advancements in Column Hardware</b> (9:30 AM - 9:50 AM) - A new high capacity gas distributor-cum-support plate for packed columns Dr. Phaneswararao Damaraju, IIT Delhi (9:50 AM - 10:15 AM) - Convert a conventional naphtha splitter to a dividing wall column at a major Indian Refinery Guiseppe Mosca, Sulzer Chemtech (10:15 AM - 10:40 AM) - ConSep Plus Trays Prakash Katre, Shell India Markets Pvt. Ltd. (10:40 AM - 11:05 AM) - SUPERFRAC® tray technology: Versatile tool for optimized tower design Sandeep Yadav, Koch Engineered Solutions India Pvt. Ltd.
11:05 AM - 11:35 AM	Networking Break
11:35 AM - 12:15 PM	<b>Session Theme: Capacity Enhancement</b> (11:35 AM - 11:55 AM) - Innovative approach: Throughput maximization while processing high API crudes in CDU3 of BPCL KR Rajasekhara Babu Manika, Bharat Petroleum Corp. Ltd. - Kochi Refinery (11:55 AM - 12:15 PM) - Low cost revamp for debottlenecking throughput and increasing the energy efficiency - Case studies on CDU/VDU revamp at HPCL Mumbai Refinery Deepak Kumar Jha, Hindustan Petroleum Corp. Ltd. - Mumbai Refinery
12:15 PM - 12:55 PM	<b>Session Theme: Reliability Improvement</b> (12:15 PM - 12:35 PM) - Engineered temporary cooling solutions for rent improve distillation profitability Massimo Capra, Aggreko Process Services (12:35 PM - 12:55 PM) - Reliability of protective systems and providers Peter Johnson, Integrated Global Services
12:55 PM - 13:45 PM	Lunch
13:45 PM - 14:55 PM	<b>Session Theme: Case Studies</b> (13:45 PM - 14:10 PM) - Resolving fouling issue due to popcorn polymer formation in butadiene purification column Nikunj Patel & Harshal Kharwade, Reliance Industries Ltd. (14:10 PM - 14:30 PM) - Case study imparting flexibility of processing multiple crude blends in existing crude distillation units Prabhat Ranjan Choduhary, Indian Oil Corp. Ltd. - Refinery Head Quarters- New Delhi (14:30 PM - 14:55 PM) - Energy efficiency and sustainability Ratheesh S, Bharat Petroleum Corp. Ltd. - Mumbai Refinery
14:55 PM - 15:25 PM	Networking Break
15:25 PM - 16:30 PM	<b>Session Theme: Novel Separation - I</b> (15:25 PM - 15:50 PM) - Oldershaw column - An essential tool to go from lab to commercial design of complex separation systems Sagar Kale, Reliance Industries Ltd. (15:50 PM - 16:10 PM) - Short path distillation trials for biotech based flavour ingredient separation Dr. Anuradha Mukherjee, Tojo Vikas (16:10 PM - 16:30 PM) - Hybrid pervaporation-distillation: a sustainable technology to break azeotropes for efficient, high-purity solvent recovery Aparna Anilkumar, IISc Bengaluru
16:30 PM - 17:30 PM	Open House Round Table Q&A

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### Day 2 - Friday 13 October 2023

All times are in IST (GMT +5.5 hours)

9:00 AM - 9:10 AM	Opening Remarks by Three Ten Initiative Technologies LLP
9:10 AM - 9:30 AM	<b>Keynote Remarks</b> Pradip Mukherjee, Chief Executive, Board of Radiation & Isotope Technology
9:30 AM - 10:00 AM	<b>Expert Session - I</b>  Considerations for pre-flash drums and pre-flash columns in crude units Henry Kister, Fluor Corp.
10:00 AM - 10:30 AM	<b>Expert Session - II</b>  Steam reboiler performance is tied to proper condensate vessel balancing Jim Risko, Independent Consultant
10:30 AM - 11:20 AM	<b>Session Theme: Revamps I</b> (10:30 AM - 10:55 AM) - Revamping superfractionator with Shell low tray spacing solutions Prakash Katre, Shell India Markets Pvt. Ltd. (10:55 AM - 11:25 AM) - De-bottleneck distillation columns using dividing wall technology Anju Patil, DWC Innovations
11:20 AM - 11:50 AM	Networking Break
11:50 AM - 13:00 PM	<b>Session Theme: Novel Separation - II</b> (11:50 AM - 12:10 PM) - Reliable technology to achieve zero liquid discharge by treating ammoniacal nitrogen rich BMSW evaporator condensate distilleries and making it an integral part of process. Abhishek Tripathi, Paques Environmental Technology India Pvt. Ltd. (12:10 PM - 12:35 PM) - Safe removal of chemical contaminants from wastewater - purification and recycling Joerg Koch, Sulzer Chemtech (12:35 PM - 13:00 PM) - Novel distillation engineering aspects for futuristic second generation (2G) ethanol bio-plants Dr. Ritesh Mittal & Sanjeev Singhal, Engineers India Ltd.
13:00 PM - 13:50 PM	Lunch
13:50 PM - 14:50 PM	<b>Session Theme: Effective Digital &amp; Analytical Interventions</b> (13:50 PM - 14:10 PM) - Online inspection of an amine regenerator column using gamma rays Vinay Bhawe, Board of Radiation & Isotope Technology (14:10 PM - 14:30 PM) - Simulation studies (process / CFD) and digital twins Amar Kale, Bharat Petroleum Corp. Ltd. - Mumbai Refinery (14:30 PM - 14:50 PM) - APC & digital twin in crude distillation units - An amazing synergy Kishor Tonge, Bharat Petroleum Corp. Ltd. - Mumbai Refinery
14:50 PM - 15:35 PM	<b>Session Theme: Revamps - II</b> (14:50 PM - 15:10 PM) - Improving refinery economics using inhouse capability at IOCL Refinery Biswak Sen Das, Indian Oil Corp. Ltd. - Refinery Head Quarters-Delhi (15:10 PM - 15:35 PM) - Use of high performance internals to debottleneck 2 and 3 phase separators in distillation trains Ashraf Lakha, RVT Process Equipment
15:35 PM - 16:35 PM	Open House Round Table Q&A
16:35 PM - 16:45 PM	Closing and Adjournment

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## Delegate Registration: ₹ 25,000 / USD 500+ GST

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