

TECHNICAL SESSION PLAN
INTERNATIONAL O&M CONFERENCE: IPS-2019

Theme: Generating Safe, Reliable, Eco-friendly, Flexible Power - With State of Art Technologies

13th Feb 2019 Pandit Deen Dayal Upadhyay Auditorium, Raipur

Inauguration of IPS- 2019 & “Techno Galaxy- 2019” at 1000-1130 hrs.

High Tea – 1130-1230 hrs.

Venue	Main Auditorium	Sankalp	Siddhi
1230-1330	Session- 1 Generating Safe, Reliable, Eco-friendly, Flexible Power - With State of Art Technologies 1. Theme Paper 2. Turbine-Generator Torsional Vibration Fundamentals , EPRI, USA 3. Digitalizing the Brownfield, Bentley, USA 4. Versatile use of UAV in power utilities, B&V USA	Session- 4 Flexibilisation 1. Techno-Economics of Flexible Operation, Deloitte, India 2. Flexible Generation & Real-time prediction of equipment failure, Intertek, USA 3. An Investigation Of Various Approaches To Flexibility In Thermal Power Plants, NTPC, Dadri 4. Flexibilization of thermal power plant, NTPC, Bongaigaon	Session- 7 Challenges in Power System 1. Catastrophic Turbo Generator Failure , Manav Energy, Bengaluru 2. Smart Distributed Power Generation through digitalization, ABB, Switzerland 3. Mitigation of ARC Flash Using Digital Technology, NTPC, Simhadri 4. ESP Up gradation for Eco friendly Power Generation, NTPC, Unchahar
1330 -1430 hrs. Lunch			
	Main Auditorium	Sankalp	Siddhi
1430-1600	Session -2 Steam Turbine 1. KWU design Turbine Hydraulic system Modernization, Siemens, India 2. Analysis Of Condenser Vacuum Deterioration Due To Air Ingress From TDBFP Seals, NTPC, Ramagundam 3. Innovative Technique To Separate Mineral Oil From Contaminated FRF Oil, NTPC, Dadri 4. Analysing Vibration Problems by Study of sidebands in vibration signatures, NTPC, Korba 5. In situ machining of HPT Inlet flange, NTPC, Farakka	Session-5 Steam Generator & Auxiliaries 1. Design of High Energy Piping for Cyclic Thermal Loading, NTPC, Engg. 2. Use of PAUT for evaluation of new & old weld joints, NTPC, TSTPS 3. Acromat Thermocouple weld failure, NTPC, Lara 4. Countering High Upper Radial Bearing Temperature In XRP 1003 Mills, NTPC, Kahalgaon 5. Improving Performance of HP-1103 Mills , NTPC, Mouda	Session-8 Safety & Environment Management 1. Innovative approaches for building safety Culture, NTECL, Vallur 2. Bio mass Utilisation for air quality improvement, JCoal, Japan 3. Safety Simulator Training Center-Based On VR & AR Technology , NTPC, Gadawara 4. MAC Curve & ICP Mechanism For NTPC APCPL, Jhajjar 5. Waste Management: A Plethora of Opportunities, NTPC, Korba
1600 – 1630 hrs. Tea Session			
1630-1815	Session -3 Electrical Systems 1. Overview Of COMTRADE Standard, Practical Case Studies, Crompton, India 2. Incipient Fault Detection In Generator, NTPC, Singrauli 3. IoT Solutions in Centralized IED Management, NTPC, COS 4. High Tank Body Temperature in Large GT, NTPC, Engg 5. Complete Rewinding Of 250 MW Generator, NTPC, Bongaigaon 6. 400 KV Bus Splitting, NTPC, Kahalgaon	Session-6 Innovative Operation Practices 1. Condensate Throttling Technique for Flexible Load Control, Singareni Thermal Plant 2. Achieving 105% unit capability , NTPC, Sipat 3. Industry 4.0 in Power Plant Operations - A Step towards Digital Power Station, NTPC, Ramagundam 4. 3-I Concept of Ash Utilisation, APCPL, Jhajjar 5. Environment Friendly Utilization of Fly Ash, NTPC, Vindhyachal 6. Pulse Power Technology for ESP performance, NTPC, NETRA	Session-9 Control & Instrumentation 1. UOI platform for Remote monitoring, NTPC, Kahalgaon 2. Reliable SWAS - A Challenge in Flexible Operation, NTPC, CQA 3. Control System Integration, NTPC, Simhadri 4. Clinker Detection and Evacuation Monitoring Mechanism, Lanco, Gurugram 5. Digital Transformation in Power Plants: The NTPC Way, NTPC, Engg 6. Drone Based inspection & Monitoring, NTPC, NETRA

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Venue	Main Auditorium	Sankalp	Siddhi
0930-1115	Session – 10 Efficiency & Energy Conservation <ol style="list-style-type: none"> Innovative Approach for Energy Efficiency, SAGTA Eng. Ltd., China Acoustic gas temperature measurement - Improvement of efficiency, B & D GmbH, Germany. Resolution of High Condensate DO issue, NTPC, Korba Multifunctional Combustion Catalyst for reduction of Emission, Abhitech Energycon Ltd Plant Economist – O&M Techno Economic Decision Model, Lanco, Amarkantak Reliability Centered Maintenance of Crushers, NTPC, Kudgi 	Vendor Session Presentation by the participants of “Techno Galaxy – 2019”	Session – 13 Chemistry <ol style="list-style-type: none"> Water Chemistry Management, Mettler toledo, USA Best practices of Power Plant Chemistry, Tata Power, Mundra VGB Standard S006-2012 - A guideline for modern SWAS in cycling Power Plants, Swan Analytische Instrumente AG, Switzerland Challenges of Online Chloride monitoring, NTPC, TSTPS Challenges of Cycle Chemistry Management during Cyclic operations, NTPC, COS Impact Of Coal With Different Characteristics On Boiler Performance And Plant Operability, NTPC, Mouda
1115 -1130 hrs. Tea Session			
1130-1300	Session – 11 Renewable Energy <ol style="list-style-type: none"> Thermal Energy Storage System For Solar, NTPC, Kayamkulam Battery Energy Storage System for Optimum Solar Energy Integration, NTPC, Engg. Microgrids Co-existing with the Grid, NSB, Noida Utilization of Biomass (paddy straw) as co-fuel in thermal power plants, NTPC, Dadri Solar thermal energy storage using reversible thermochemical route, NTPC, CenPEEP 	Vendor Session Presentation by the participants of “Techno Galaxy – 2019	Session – 14 Hydro Generation <ol style="list-style-type: none"> Sediment management in hydropower reservoirs, CEA, MoP Impact of environmental flow on hydropower projects, NTPC, Engg In-house design modifications - TGB temperature stabilization, NHPC, Parbati Challenges in Small Hydro Project, NTPC, Singrauli Experience in hydropower generation, NTPC, Koldam
1300 -1400 hrs. Lunch			
1400-1530	Session – 12 Fuel & Ash Management <ol style="list-style-type: none"> Unloading through wagon tippler, NTPC, Mouda Innovative approaches for repair of highrise structure, NTPC, Korba Ductile Iron pipeline solution for transporting wet ash slurry, Electrosteel castings ltd., Kolkata Sustainable Solutions for Bottom Ash & Fly Ash Disposal, NTPC, Mouda Optimization Of Coal Supplies For Generating Reliable, Cost Effective And Eco Friendly Power, NTPC, FM 	Session – 15 Cooling Tower & Water Management <ol style="list-style-type: none"> Water Treatment and Reutilisation, Jcoal, Japan Optimisation of Specific Water Consumption, APCPL, Jhajjar Underground CW Duct Leakage Arresting, NTPC, Farakka Fill Pack Clogging Problem – A Threat To Induced Draught Cooling Tower, NTPC, TSTPS Addressing CW Pump Vibrations – Case Study, NSPCL, Bhilai 	Session – 16 Academics for Power generation <ol style="list-style-type: none"> Capacitance based wireless power transfer: Future of EV charging station, KIET, Ghaziabad Cooling Tower Performance Improvement- Case Study, IIT Delhi Requirement of Air Drying Plant for Pneumatic Conveying of Fly Ash, Thapar Institute, Patiala Analysis Of Convective Heat Transfer, NIT Raipur Energy Saving in Industries by selection of proper Lubricants for Machines and Equipments, NIT Raipur
1530 – 1545 hrs. Tea Session			
1600-1730 Valedictory Session and Internal Review Meeting			

Exhibition and presentation by the participants of “Techno Galaxy - 2019” from 9:30 – 13:00 hrs at Sankalp