



15<sup>th</sup>-17<sup>th</sup> December, 2025

**TECHNICAL PROGRAM (Poster Sessions)**

**Monday, 15<sup>th</sup> December 2025**

Session	Poster Session 1
Room	Lobby, Fairmont Bab Al Bahr, Abu Dhabi
Poster No.	Title
P1-01	<i>Optimizing Dendrite Free Anodes for Zinc Ion Batteries using PEG functionalized Carbon Nanotube,</i> <b>Abdullah Shaikh</b> , Khalifa University
P1-02	<i>Finding a Best Catalysis for a Plasma Based Ammonia Synthesis with the Help of Agglomeration Energy by DFT,</i> <b>Aneesh Kumar S</b> , IIT Delhi – Abu Dhabi
P1-03	<i>Hydrophobic Deep Eutectic Solvent-Embedded Ultrafiltration Membranes for Efficient Pharmaceuticals Removal from Municipal Wastewater,</i> <b>Anjali Goyal</b> , Khalifa University
P1-04	<i>Optimizing Ferroelectric Photovoltaic Performance in KBNNO Ceramics via Grain Size Engineering,</i> <b>Ankit Chahar</b> , Jawaharlal Nehru University New Delhi
P1-05	<i>Investigating Thermal Performance of PCM-Based Thermal Energy Storage with Porous Fins: A Coupled CFD - ML Approach,</i> <b>Ankit Kumar</b> , IIT Delhi – Abu Dhabi
P1-06	<i>Machine Learning Approaches for Prediction of the Coefficient of Discharge of Broad Crested Weirs,</i> <b>Ashwin Chitravanshi</b> , IIT (BHU) Varanasi
P1-07	<i>Sustainable Oil Spill Cleanup Using Milkweed–Waste Cotton Needle-Punched Nonwoven Blends,</i> <b>Chandra Jeet Singh</b> , IIT Delhi
P1-08	<i>Materials-Led Passive Cooling Retrofit for a Lecture Hall in Abu Dhabi,</i> <b>Deepanshu Babbar</b> , IIT Delhi – Abu Dhabi
P1-09	<i>Circular Valorization of Textile Wastewater in Concrete Production: A Sustainable Material Approach for Water–Energy Nexus,</i> <b>Deepti Surana</b> , IIT Delhi
P1-10	<i>Designing Heat-Resistant Self-Healable Adhesives through Polybenzoxazine Vitrimers with Dual Dynamic Networks,</i> <b>Gaurav Rai</b> , IIT Delhi
P1-11	<i>Pyrolysis of Electrostatically Enriched Precursors Produce Pt<sub>3</sub>Ni Nanocatalysts Supported on Nitrogen-doped GO with a Low Overpotential for HER ,</i> <b>Hafna T</b> , IIT Palakkad
P1-12	<i>Nanostructured Polybenzoxazine Particles-Supported Ammonia Borane for Hydrogen Storage and Release,</i> <b>Ingita Tiwari</b> , IIT Delhi
P1-13	<i>Machine Learning Based Dynamic Model of Solar Thermal Power Plant,</i> <b>Mani Bhushan</b> , IIT Bombay
P1-14	<i>Harnessing Mechanical Energy with Rotationally Aligned Piezoelectric TMDs Composite Materials: A Step Toward Flexible and Sustainable Energy Storage Systems,</i> <b>Mayuri Srivastava</b> , IIT Delhi
P1-15	<i>Interface-Engineered Polyaniline Composites on Diverse Supports for Efficient Michael Addition Catalysis,</i> <b>Md Imteyaz Alam</b> , IIT Delhi
P1-16	<i>Development of Sulphur and Nitrogen Doped Fluorescent Carbon Quantum Dots for Hydroquinone Sensing,</i> <b>Murli Dhar Mitra</b> , IIT (BHU) Varanasi
P1-17	<i>Development of a Correlation for Assessment of BIPV Potential Under Shading Constraints,</i> <b>Priyanka Rai</b> , Malaviya National Institute of Technology Jaipur
P1-18	<i>Low Temperature Oxidation of Ethylene by Co<sub>3</sub>O<sub>4</sub> Catalysts ,</i> <b>Roshni Madampadi</b> , IIT Palakkad
P1-19	<i>Hybrid Conductive Additive for Stable Graphite-Based Li-ion Anodes,</i> <b>Rudraksh Gupta</b> , IIT Delhi



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P1-20	<i>Cadmium Ion Removal from Wastewater using Activated Carbon under Variable Experimental Condition</i> , <b>Shahid Ikbal</b> , IIT (ISM) Dhanbad
P1-21	<i>Analyzing Charging Performance of High Temperature Shell and Tube Latent Heat Storage</i> , <b>Mallayya Swami</b> , IIT Delhi
P1-22	<i>Hourly Ahead Solar Irradiation Forecasting using Deep Learning Models</i> , <b>Tarun Goel</b> , IIT Delhi
P1-23	<i>Eco-inspired Multifunctional Hydrogels via Free-Radical Polymerization for Ultra-Sensitive Sensing, Recovery, and Reuse of Rare Earth Elements</i> , <b>Somya Sadaf</b> , IIT Gandhinagar
P1-24	<i>Wastewater to Wardrobe: Phycocyanin from Oxygenic Photogranules for Eco-Functional Textiles</i> , <b>Vivek Kumar Nair</b> , IIT Delhi
P1-25	<i>Synergistic <math>g\text{-C}_3\text{N}_4/\text{BiFeO}_3</math> Binder-free Cathode: Sustainable Photoelectron Oxidation of Dimethyl Phthalate</i> , <b>Yasser Bashir</b> , IIT Delhi
P1-26	<i>Understanding Pd/CHA Zeolites Function under Cold-Start Conditions: An Operando FT-IR Spectroscopy and Microreactor Approach</i> , <b>Yusra Hamid</b> , University of Lisbon
P1-27	<i>Reusing End-of-Life Solar PV Panels as Silicon Anodes for Lithium-Ion Batteries: A Review</i> , <b>Zarrin Khan</b> , IIT Bombay
P1-28	<i>Life Cycle Assessment of Methane Abatement Technologies using Small Language Model Mixture of Experts</i> , <b>Bilal Rasheed</b> , IIT Delhi – Abu Dhabi
P1-29	<i>Climate-Justified Optimization for Decentralized Ammonia Production via Green Hydrogen and Haber-Bosch Process using Deep Learning</i> , <b>Mehbooba C</b> , IIT Delhi – Abu Dhabi
P1-30	<i>Multi-Objective Superstructure Optimization and Techno-Economic Assessment of Electrified <math>\text{CO}_2</math> to Methanol Conversion</i> , <b>Sarthak Mazumder</b> , IIT Delhi – Abu Dhabi
P1-31	<i>Integrating Science, Engineering, and Policy for Sustainable Aerospace Innovation in Africa</i> , <b>Yasir Aliyu</b> , UAVS
P1-32	<i>Machine Learning Enhanced Prediction of Voltage Capacity Dynamics in Gradient Aged Lithium-Ion Batteries</i> , <b>Jibin M Joy</b> , IIT Delhi – Abu Dhabi
P1-33	<i>Optimizing Land and Energy: Sustainable Underground Storage for a Resilient Energy Transition</i> , <b>Altaf Usmani</b> , Engineers India Limited
P1-34	<i>Bimetallic <math>\text{CoCdS}_2</math>: A Promising Supercapacitor Material for Energy Storage Devices</i> , <b>Pratiksha Borse</b> , University of Mumbai
P1-35	<i>Production of <math>\text{CO}_2</math> Adsorption on Data-Driven Metal Organic Frameworks (MOFs) using Machine Learning</i> , <b>Ashutosh Yadav</b> , IIT Jammu
P1-36	<i>Machine-Learned Solvent-Implicit Coarse-Grained Modeling of Biomimetic Lipid Bilayers</i> , <b>Ayishwarya Dutta</b> , IIT Delhi – Abu Dhabi
P1-37	<i>Liquid Structure of Localized High Concentration Electrolyte for Lithium-Ion Battery</i> , <b>Navneet Singh</b> , IIT Delhi – Abu Dhabi
P1-38	<i>Design of Material (Metal Organic Framework) for Carbon Capture: A Computational Approach Integrated with Atomistic Simulation</i> , <b>Tanay Das</b> , IIT Delhi - Abu Dhabi



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**TECHNICAL PROGRAM (Poster Sessions)**

**Tuesday, 16<sup>th</sup> December 2025**

Session	Poster Session 2
Room	Lobby, Fairmont Bab Al Bahr, Abu Dhabi
Poster No.	Title
P2-01	<i>Wind Power Forecasting Using Various Forecasting Techniques</i> , <b>Aditya Kumar</b> , NIT Trichy
P2-02	<i>Smart Multi-Layered Wall Insulation Using Recycled Waste Materials</i> , <b>Ahmad Deeb</b> , Khalifa University
P2-03	<i>A Context-Dependent Network DEA Framework with Directional Distance Functions for Sustainable Decision Intelligence: Insights from the Indian Banking Sector</i> , <b>Akash Jain</b> , Netaji Subash University of Technology Delhi
P2-04	<i>Impact of Dual Acetylation and Temperature on Xylan-Cellulose Interactions</i> , <b>Ankit Joshi</b> , IIT (ISM) Dhanbad
P2-05	<i>Boosting Hydrogen Evolution on Halogenated MXenes via Surface Termination Engineering: A Data-Informed Computational and Experimental Strategy</i> , <b>Ankita Kumari</b> , IIT Delhi
P2-06	<i>Sound Absorption Prediction in TPMS Metamaterials via Machine Learning</i> , <b>Vignesh Sekar</b> , Khalifa University
P2-07	<i>Hybrid-CGAN-Based Modeling and Experimental Study of Thermal Comfort in Extreme Mining Protective Clothing</i> , <b>Bukke Kiran Naik</b> , NIT Rourkela
P2-08	<i>Deep Neural Network-Based Dynamic Plantwide Modeling of a Hybrid Solar Thermal Power Plant</i> , <b>Dibyajyoti Baidya</b> , IIT Bombay
P2-09	<i>Optimizing Sustainable Energy Planning in Delhi: A Hybrid Machine Learning and Time Series Approach for Solar Potential Forecasting</i> , <b>Dipali Pawar</b> , IIT Delhi
P2-10	<i>Carbide Volume Fraction in Cobalt-based Alloys using ML techniques</i> , <b>Vishakh Pradeep Kumar</b> , Heriot-Watt University
P2-11	<i>Development of Multifunctional Textiles using Bio-derived Coumaric Acid against Pathogens, Vector-borne Diseases, and Environmental Stressors</i> , <b>Gulshitar Aalam</b> , IIT Delhi
P2-12	<i>Development of Machine Learning Integrated Moving Horizon State Estimator for Processes Subject to Missing Data and Delayed Measurements: Application to Industrial Scale Penicillin Production Process (IndPenSim)</i> , <b>Vishnu Roshan</b> , IIT Ropar
P2-13	<i>Machine Learning Potentials to Guide Reaction Mechanisms at the Metal-Water Interface</i> , <b>Jayendran Iyer</b> , IIT Delhi
P2-14	<i>Bioinspired Metamaterials for Sustainable Noise Reduction</i> , <b>Kamal K Sirivuri</b> , Khalifa University
P2-15	<i>Production of H<sub>2</sub>-rich Syngas Production through ML-driven Catalyst and Process Condition Optimization with Experimental Validation and Mechanistic Insights</i> , <b>Kaushik Kundu</b> , IIT Delhi
P2-16	<i>Forecasting Building Thermal Demand Using Machine Learning</i> , <b>Lloyd Corcoran</b> , Cardiff University
P2-17	<i>AI-Driven Local Positioning System for Secure and Autonomous Navigation in Resource-Constrained Environments</i> , <b>Misgina Tewelde</b>
P2-18	<i>CNN-LSTM Based Multi-Height Wind Speed Prediction for Sustainable Wind Energy Applications</i> , <b>Mohan Narayan Gupta</b> , IIT (BHU) Varanasi
P2-19	<i>Data-Driven Catalytic Depolymerization of Lignin: Sobol-Bayesian Optimization Framework for High-Yield Guaiacol Production</i> , <b>Nagasree Keerthi Pujari</b> , IIT Hyderabad



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Room	Lobby, Fairmont Bab Al Bahr, Abu Dhabi
Poster No.	Title
P2-20	<i>High-Throughput and Data-Driven Search for Stable Optoelectronic AMSe<sub>3</sub> Materials</i> , <b>Nikhil Singh</b> , IIT Delhi
P2-21	<i>Data-Driven Indoor Air Quality Forecasting: A Machine Learning Approach for Smart and Healthy Buildings</i> , <b>Sajid Mannan</b> , IIT Delhi
P2-22	<i>Industrial-Scale Prediction of Cement Clinker Phases using Machine Learning</i> , <b>Sheikh Junaid Fayaz</b> , IIT Delhi
P2-23	<i>Explainable Machine Learning Based Multi-Objective Optimization Framework for Ammonia Recovery from Digestate</i> , <b>Shobhita Sharma</b> , IIT Delhi
P2-24	<i>Data-Driven Prediction of Polymer Adhesion on Heterogeneous Surfaces via Attention based Learning</i> , <b>Sibasankar Panigrahy</b> , IIT Delhi
P2-25	<i>Machine Learning-Driven TMDCs-based Sensors for Discrimination of Volatile Amines in Complex Mixtures</i> , <b>Snehraj Gaur</b> , IIT Delhi
P2-26	<i>AI-Enabled Design Verification and Validation: Strengthening Process Safety through Intelligent Engineering Assurance</i> , <b>Subhadra Devi Saripalli</b> , IIT Madras
P2-27	<i>Artificial Neural Network Framework for Exploring the Flammability Space of Eco-Friendly Refrigerants</i> , <b>Sultan Al Ali</b> , Khalifa University
P2-28	<i>Basal Plane Passivation of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXenes through Prussian Blue Analog Nanoparticles Anchoring for Efficient and Selective Electrochemical Ammonia Synthesis</i> , <b>Aamir Yaseen Bhat</b> , IIT Delhi
P2-29	<i>Boosting Mg Battery Performance using InSe/C Composite Cathode</i> , <b>Gazal Gupta</b> , IIT Delhi
P2-30	<i>Suppressing Agglomeration and Boosting Proton Storage in 1D Mesoporous Co<sub>3</sub>S<sub>4</sub>-Carbon Nanofiber Composites for Flexible Supercapacitors</i> , <b>Sagar Munjal</b> , IIT Delhi
P2-31	<i>Experimental Investigation of Charging and Discharging Pattern of a Shell and Tube Thermal Energy Storage System</i> , <b>Sudhir Kumar Gupta</b> , IIT Delhi
P2-32	<i>Comprehensive Life Cycle Assessment of CO<sub>2</sub>-Enhanced Oil Recovery Pathways in Indian Oilfields: Evaluating Emission Trade-offs and Net Carbon Balance</i> , <b>Dinesh Joshi</b> , Khalifa University
P2-33	<i>Unexpected Lowering of Charge-Transfer Resistance in Ultra-Long Cycled (&gt;30,000 Cycles) Solution-Processed Laminar-Crystalline Li<sub>3</sub>VO<sub>4</sub> Anodes and its Li<sub>3</sub>VO<sub>4</sub>  LFP Full Cells Performance in 18650 form factor</i> , <b>Tejveer Singh Anand</b> , IIT Delhi
P2-34	<i>Performance Enhancement of Parallel Flow Direct Contact Membrane Distillation using Localized Heating</i> , <b>Ravi Kumar Kandasamy</b> , IIT Delhi
P2-35	<i>Lightweight, Strong, Sustainable Graphene-Wood Composites as Aerospace Structural Materials</i> , <b>Afnan Elmubasher Malik</b> , Khalifa University
P2-36	<i>Optimization of Radiator Fin Geometry in Formula 1 Cars Using Machine Learning</i> , <b>Keshvi Singh</b> , IIT Delhi – Abu Dhabi
P2-37	<i>Molecular Modelling of the Gram-negative Bacterium Escherichia coli Cell Envelope</i> , <b>Jyoti Rai</b> , IIT Delhi – Abu Dhabi
P2-38	<i>Modulating Molecular Interaction in Deep Eutectic Solvent-Based Electrolytes Enables Enhanced Reactive CO<sub>2</sub> Capture</i> , <b>Mrityunjay Kumar Jha</b> , IIT Delhi – Abu Dhabi



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Session	Poster Session 3
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Poster No.	Title
P3-01	<i>Development of GIS-Based Maps and Change Detection for Groundwater Quality Assessment of Agra, Uttar Pradesh, Abhimanyu Verma, IIT (BHU) Varanasi</i>
P3-02	<i>Green Encapsulation of Metal Oxide and Noble Metal ZnO@Ag for Efficient Antibacterial and Catalytic Performance, Aisha Noor, IIT Delhi</i>
P3-03	<i>Investigating the Electrochemical Performance and Degradation Mechanism of Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> for Sodium-Ion Batteries, Akshita Sharma, IIT Delhi</i>
P3-04	<i>Review: Bottlenecks of Indian Waste Management &amp; AI Driven Solutions, Amna Rahman, IIT Bombay</i>
P3-05	<i>Unveiling Medium-Dependent Synergistic Role of Metals and Active sites in Prussian Blue Analogue-Derived FeCoTe for Hydrogen Evolution using Electroanalytical Techniques, Bhawna Rathor, IIT Delhi</i>
P3-06	<i>Biomass Briquettes as a Low-Carbon Alternative Fuel for Hard-to-Abate Industries, Bishakh Choudhury, IIT Delhi</i>
P3-07	<i>Design of Bend-Compensated Large Mode Area Fibers for Single-Mode High-Power Laser Systems, Soorej Thekkeyil, IIT Delhi</i>
P3-08	<i>Chew, Goldberger &amp; Low equations: Eigensystem Analysis and Applications to One-Dimensional Test Problems, Chetan Singh, IIT Delhi – Abu Dhabi</i>
P3-09	<i>An Integrated Process-Structure-Property Model for Recycled Carbon Fibre Needlepunched Nonwovens: Towards Sustainable Structural Materials, Danvendra Singh, IIT Delhi</i>
P3-10	<i>Unveiling Chemical Evolution of Electrode-Electrolyte Interface in Sodium Ion Batteries from Machine Learning Potential-based Simulations, Dhananjay, IIT Delhi</i>
P3-11	<i>Impact of Geometry Structure on Hydrogen Desorption Behaviour in Metal Hydride Storage System, Gaurav Arora, IIT Delhi</i>
P3-12	<i>Assessment of Stability of Natural Colored Pigments in Indigenous Food Products, Gaurav Meena, IIT Delhi</i>
P3-13	<i>Hydrogen Storage Capacities in Nanoporous M2(m-dobdc) Metal-Organic Frameworks at Near Ambient Temperatures, Himani Joshi, IIT Indore</i>
P3-14	<i>Semi-Markov Modeling Based Reliability Analysis and Cost Optimization of Intelligent Transportation Systems Assisted with Cloud-Fog Server, Ishu Jain, Netaji Subhas University of Technology Delhi</i>
P3-15	<i>Integration of Solar Powered Distillation in Dairy Effluent Treatment, Ishwin Saini, Heriot-Watt University</i>
P3-16	<i>Resilient Pathways for Electricity and Emissions Futures in the United Arab Emirates: AI-Powered Predictive Modeling, Issa Zaiter, Khalifa University</i>
P3-17	<i>Multi-days Ahead Times Series Forecasting of Sea Surface Temperature using Transformer Models, Jayaram Valluru, IIT Ropar</i>
P3-18	<i>CO<sub>2</sub> Capture over Biomass Derived Porous Carbon Materials, Khushbu Bhavsar, Sardar Vallabhbhai National Institute of Technology, Surat</i>
P3-19	<i>Surface-Engineered Pd/g-C<sub>3</sub>N<sub>4</sub> Catalysts for Light-Driven Formic Acid Dehydrogenation at Room Temperature, Mathivathani J R, IIT Delhi</i>



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Poster No.	Title
P3-20	<i>Process-level Evaluation of Adsorbents and Cycle Configurations for Post-Combustion CO<sub>2</sub> Capture</i> , <b>Mohammad Al Hamadi</b> , Khalifa University
P3-21	<i>Photonics to Physiology: BCN@CMC Nanocomposites for Optoelectronics and Biomedical Devices</i> , <b>Mohan Manjunathaswamy</b> , Khalifa University
P3-22	<i>From Bulk Solvents to Confined Spaces: Redefining Reaction Environments</i> , <b>Mohd Ussama</b> , IIT Delhi – Abu Dhabi
P3-23	<i>Eco-friendly Co-precipitation Processed BaZn(VO<sub>4</sub>)<sub>2</sub> Nanoparticles as a Promising Anode Material for Li and Na-ion Batteries</i> , <b>Mohd Saqib</b> , IIT Delhi
P3-24	<i>AI-Augmented Socio-Technical Viability Framework for Multi-Criteria Evaluation of Energy Storage Technologies</i> , <b>Mohit Murarka</b> , IIT Delhi – Abu Dhabi
P3-25	<i>Efficient Simulation of Two-Dimensional Anisotropic Reaction–Diffusion Systems via Hybrid Cubic B-Spline Differential Quadrature: Applications to Tumor Growth Modeling</i> , <b>Nadeem Malik</b> , NSUT Delhi
P3-26	<i>AI-Driven Wind Resource Modeling for Efficient Wind-to-Hydrogen System Design at Jaisalmer</i> , <b>Nagasree Keerthi Pujari</b> , IIT Hyderabad
P3-27	<i>Performance Enhancement of Type IV Hydrogen Tanks Using Expanded Graphite</i> , <b>Omar El Khatib</b> , Khalifa University
P3-28	<i>Bridging Science and Policy: A Bibliometric Study of Nutritional Food Security in India</i> , <b>Pallavi Muwania</b> , Delhi Technological University
P3-29	<i>Exploring MOF – Hydrocarbon Integration for Sustainable Adsorption Cooling: An Accelerated Approach using Bayesian Optimization and Monte Carlo Simulations</i> , <b>S Muthukrishnan</b> , IIT Kanpur
P3-30	<i>Towards Generalizable ML-Based Molecular Dynamics: Challenges in Simulating Complex Minerals and Cementitious Materials</i> , <b>Sajid Mannan</b> , IIT Delhi
P3-31	<i>CO<sub>2</sub> Hydrogenation utilizing Pd/SBA-15 Catalyst: Identifying Scaling Behavior to Optimize Selectivity for CO and CH<sub>4</sub> Production</i> , <b>Sanket Bhumare</b> , National Chemical Laboratory Pune
P3-32	<i>Study of Drying Behavior of Multiple Sizes of Orthodox Tea Particle and CO<sub>2</sub> Reduction in Solar Drying for Small Tea Growers</i> , <b>Shantanu Kumar</b> , IIT Delhi
P3-33	<i>Synthesis of Butyl Butyrate as a Sustainable Aviation Fuel Using V<sub>2</sub>O<sub>5</sub>-Supported Silicomolybdic Acid Catalyst</i> , <b>Shariq Farhan Elahi</b> , Curtin University, Australia and IIT (ISM) Dhanbad, India
P3-34	<i>High-<math>\kappa</math> Interface Engineering for Energy-Efficient Spin–Orbit Torque Memories: A Materials Pathway Toward Digital Sustainability</i> , <b>Shubham Bhatt</b> , IIT Delhi
P3-35	<i>Concerted Photo and Chemical Ageing of Microplastics and its Transport Behaviour in Saturated Soil</i> , <b>Namita Das</b> , BITS Pilani Dubai
P3-36	<i>Bridging Financial Inclusion and Climate Action: Sustainable Pathways for Mobile Financial Services</i> , <b>Anuj Mohan Sherry</b> , Ericsson India Private Limited
P3-37	<i>Smart Thermal Management of Subsurface Pipelines for Hydrogen and District Energy Systems</i> , <b>Arjun Satheesh</b> , IIT Delhi – Abu Dhabi
P3-38	<i>Multiphysics Heat Transfer in Underground Energy Pipelines: Soil Conduction, Radiative Losses, and Materials-Led Efficiency Gains</i> , <b>Arjun Satheesh</b> , IIT Delhi – Abu Dhabi