Program Agenda (Tentative)

Day 1: **(19.11.2026)**

Time	***Session***	**Brief Objectives**
10.00 – 10.30	Inauguration & Context Setting • Registration • About the Program Opening remarks (GIDM & PNGRB)	To welcome participants, introduce the programme objectives and set the context for capacity building in process safety within the oil and gas sector.
10.30 – 11.30	NaTech Hazards and Disaster Risk Management in Oil & Gas Operations • Fundamentals of Disaster Risk Management (DRM) • Climate Change and Emerging Trends • NaTech Hazard Identification	This session examines DRM in oil and gas operations with a focus on NaTech risks, where natural hazards trigger industrial accidents. It highlights climate-related risks and strategies to integrate mitigation into operations and emergency planning
11:30 – 11:45	*Tea/ Coffee Break*	
11:45 – 13:00	*Introduction to PNGRB ERDMP Framework*	*Salient Points of PNGRB Regulations 2010 (Annexures,Checklists and Schedule)* *Classification of Emergencies (Level I–III)* *Onsite/Offsite Hazards + Use of MSDS and AnnexureI,Risk Matrix, ALARP Concept, Threshold Criteria.*
13:00 – 14:00	*Lunch*	
14:00 – 15:15	*Risk Assessment in Action: Learning from Real-World Good Practices*	*Tatipaka NG pipeline Catastrophic Incident of GAIL;Styrene Gas Leak Incident;Richmond Refinery Major Fire incident at California;* *Jaipur & Buncefield terminal catastrophic Incidents.*
15.15 – 15.30	*Tea/ Coffee break*	
15.30 – 16.45	*Hazard Identification and Risk Assessment (QRA)*	Concept and Scope of QRA, Hazard Identification Techniques, Types of Hazards, Data Requirements for QRA, Frequency Analysis, Consequence Analysis, Risk Estimation and Metrics, Risk Acceptance Criteria, Risk Mitigation Measures, Integration with ERDMP
16.45 – 17.00	*Wrap-up – Day 1*	

Day 2: (20.11.2026)

Time	Session	Brief Objectives
10:30 - 11:45	Learning from Near-Miss Reporting	Real-world PSU case examples Root cause discussion using Bowtie/ Fault Tree methods, Organizational learning from failure signals, Behavioral (Human) Aspects
11.45 – 12:00	Tea/ Coffee Break	
12:00 – 13:15	Scenario-Based Group Work	Quantitative Risk Assessment (QRA), Case Exercises: bowtie concept based risk assessment, Pipeline rupture, tank truck fire, Risk estimation, zone mapping, consequence modelling
13:15 – 14:15	Lunch	
14:15 – 15:30	Case Study Session:	Industrial Emergency Management and Lessons Learned Understand real-world industrial incidents and derive operational and regulatory insights.Overview of a major incident Analysis of overall ERDMP implementation: planning, coordination, communication, and recovery, Discussion of gaps in risk assessment, resource management and regulatory compliance. Key learnings: how to prevent recurrence and strengthen facility resilience
15.30 – 15.45	Tea/ Coffee break	
15.45 – 17.00	Advanced Interpretation of Pre-Emergency Planning and (Reg.: 10) Emergency Response Measures (Reg.-13) under PNGRB ERDMP Regulations, 2010	Regulatory Intent and Strategic Framework, Interpretation of Level 1–3 emergencies and decision-making protocols. Advanced strategies for fire, leaks, explosions and pipeline incidents.ECC operations, inter-agency integration and mutual aid management.Root-cause analysis, regulatory reporting and continuous ERDMP improvement.
17:00 – 17:15	*Wrap-up – Day 2*	

Day 3:

Time	***Session***	**Brief Objectives**
10:30 - 11:45	*Post-Incident Recovery and Business Continuity Planning (BCP)*	BCP alignment with ERDMP Logistics & vendor readiness Environmental, financial, and public trust recovery.
11.45 – 12:00	*Tea/ Coffee Break*	
12:00 – 13:15	*ESG Integration and Emergency Preparedness*	ESG expectations in oil & gas KPIs and ERDMP synergy Community and regulator engagement strategies, Public information management & Media management
13:15 – 14:15	*Lunch*	
14:15 – 15:15	*Enhancing Climate and Disaster Resilience in Oil & Gas Sector*	Climate hazards and infrastructure exposure, Adaptation measures: flood protection, heat resilience, Group activity: Design a climate-resilient terminal
15.15 – 17.00	*Group Exercise and PPT*	Group (Refinery) - I (Making ERDMP and process of getting Certification) Group (LPG Bottling Plant)- II (Making ERDMP and process of getting Certification)Group (POL) - III (Making ERDMP and process of getting Certification)Group (CGD) - IV (Making ERDMP and process of getting Certification)Group (Cross country pipelines) - V (Making ERDMP and process of getting Certification)
17.00 – 17.15	*Tea/ Coffee break*	
17.15 – 17.45	*Closing Session*	Summary of key learnings, Feedback collection, Certificate distribution and vote of thanks

Expected Outcome and Way Forward

- Participants will gain practical knowledge and skills to identify, assess and manage process safety risks in oil and gas operations;
- Improved understanding of regulatory requirements and compliance with safety standards;
- Enhanced ability to prevent major accidents and respond effectively to emergencies;
- Strengthened safety culture and adoption of best practices within their organizations;
- A joint certificate of successful completion will be awarded to participants by Petroleum and Natural Gas Regulatory Board (PNGRB) and Gujarat Institute of Disaster Management (GIDM) upon completion of the program.

About the Organisers

The Petroleum and Natural Gas Regulatory Board (PNGRB) is the statutory regulatory body established under the PNGRB Act, 2006, responsible for regulating the downstream oil and gas sector in India, including pipelines, city gas distribution networks and ensuring technical standards, safety and fair competition. It plays a critical role in developing regulations, enforcing safety norms and promoting orderly growth of the sector.

The Gujarat Institute of Disaster Management (GIDM), an apex institution of the Government of Gujarat, has been at the forefront of strengthening disaster risk management in the state through focused efforts in human resource development, capacity building, training, research and knowledge dissemination, with the objective of enhancing resilience across sectors.