

## The 2<sup>nd</sup> Knowledge Sharing Workshop for CGD entities

---

Second “Knowledge Sharing Workshop for City Gas Distribution entities” was held virtually on 14<sup>th</sup> February, 2022. The workshop was attended by more than 500 representatives from stakeholders.

The primary objective of the program was sharing of the experiences by established CGDs, the latest technological developments, best industry practices, recent amendments in the PNGRB technical and safety regulations for CGD networks.

Shri S C Gupta, Joint Advisor, PNGRB welcomed the participants and shared that the knowledge sharing workshops are outcome of meetings with industry stalwarts from IGL, MGL, GGL etc. wherein it was decided to provide a platform wherein older CGD entities can share their experience as well as technological upgradations with the new CGD entrants and also learn from each other as CGD networks are expanding in a big way. He informed that few CGD entities are operating for more than 20 years and have upgraded their systems to maintain safety and integrity of the network. Any damage in the CGD network may create safety hazards as well as disruption in the gas supply. Therefore, it is of utmost importance that CGD entities focus on safety and integrity of the networks besides maintaining uninterrupted supplies.

Shri A.K. Tiwari, Member, PNGRB in inaugural address, expressed happiness for overwhelming participation of more than 500 representatives from various stakeholders and highlighted the need of organising interactive forum that maximizes learnings from experience of each other which leads to



reduction of risks in CGD infrastructure & enhance the network delivery efficiencies. He also thanked CGD entities for active participation in the 11<sup>th</sup> CGD Bidding Round and making it most successful ever bidding round. He emphasized the need of development of pipeline infrastructure in India to achieve the PNG and CNG targets. He also emphasised that the best practices in the area of distribution, billing, connection and procurement etc. followed by experienced CGD entities can be adopted by other entities to maintain the safety & integrity of the network.

The inaugural session was followed by insightful presentation of PNGRB made by Shri Jamunalal Rout, Deputy Director (Technical), PNGRB highlighting recent amendments in PNGRB T4S & IMS CGD & ERDMP Regulations, critical audit observations, audit/ inspection process, root causes of incidents in CGD sector and gaps in submission of compliance reports. He also highlighted that the audit/inspection of new GAs should be conducted within one year of operation of all facilities i.e. PNG, CNG and industrial. In case, TPIA T4S audits are conducted with only CNG dispensing stations operational, the entities should conduct another TPIA T4S audit once the other infrastructures PNG connections and industrial connections are operationalized. Three-year periodicity for subsequent T4S audits should be adhered to.

The workshop covered following aspects of CGD operations and associated activities:

- **Integrity of old steel pipes** - Experience Sharing from old entities operating for past many years
  - *Pipeline Threat & Mitigation Plan, CGD network-integrity threats, Monitoring and surveillance of network :- Presented by Mahanagar Gas Limited*
  - *Mitigation options of pipeline coating defects, CP protection, probable cause of failure :- Presented by Gujarat Gas Limited*
  - *Regulatory requirement for maintaining Asset Integrity in CGD sector, various challenges & threats to pipeline, pipeline integrity management plan, integrity assessment tools :- Presented by Indraprastha Gas Limited*
- **Integrity Management System Regulations-** Amendments
  - *Scope & objective of IMS, key element of IMS, implementation plan, Potential threats & its management, recent amendments, key initiatives by ATGL :- Presented by Adani Total Gas Limited*
- **Role of GIS as an Asset Management tool**
  - *Updates in GIS application and MGL journey, functioning of GIS, new GIS initiatives, advantage of GIS :- Presented by Mahanagar Gas Limited*
- **SCADA in CGD**
  - *SCADA architecture, SCADA system in PNG and CNG, Smart data centre for SCADA, challenges, future endeavours :- Presented by Indraprastha Gas Limited.*

- **Discussions on Latest Technologies and SOPs**
  - *Life saver identified by GGL and life saver rules to avoid accidents :- Presented by Gujarat Gas Limited*
  - *App based work permit system, requirement of regulatory compliance, limitations of hard copy permit, digital solution to the challenges :- Presented by Indraprastha Gas Limited*
  
- **CNG Stations – Safety features**
  - *Safety features installed at CNG compressor station, CNG dispenser, Mobile cascade vehicle filling, verification of on-board cylinder testing validity, training of staff :- Presented by Gujarat Gas Limited*
  
- **Operational and Safety aspects of LNG/ LCNG facilities**
  - *Regasification facility, risk associated with LNG, safety aspects of LNG station, operation & maintenance, emergency plan and procedure :- Presented by Torrent Gas Limited*
  - *Benefits of LCNG satellite station, loading/ unloading of LNG tankers, LNG storage tanks, vaporisation of LNG, odourisation, firefighting system and accidental release measure :- Presented by GAIL (India) Limited*
  
- **Hydrogen Blending with Natural Gas in Pipelines**
  - *GAIL's pilot project of hydrogen blending with natural gas in Indore, parameters for hydrogen injection and facilities installed for injection :- Presented by GAIL (India) Limited*
  
- **Types of Gas Detectors – wired / wireless**
  - *Various type of gas detectors including wireless detectors, challenges in CGD network, conventional solution and digital solution :- Presented by Respo Products on behalf of GAIL Gas Limited*
  
- **Learnings from recent incidents at CNG stations**
  - *Third party fatal incident, explosion of on-board cylinder incidents, key findings of these incidents and lesson learnt :- Presented by Gujarat Gas Limited*
  - *Fire incident occurred at DRS, findings of incident, root cause and recommendations to prevent recurrence of such incidents :- Presented by Adani Total Gas Limited*
  - *Flash fire incident due to gas leakage from CNG cylinder, root cause and learning from incident :- Presented by Maharashtra Natural Gas Limited*

The valedictory session was chaired by Smt. Vandana Sharma, Secretary, PNGRB wherein the proceedings of the day were apprised. She opened the house for feedback and suggestions from the participants regarding the workshop and the questions / queries from participants were replied. She emphasized that sharing of experience by



experienced CGD players provides a platform to new entrants to learn best practices in the industry. She stressed upon the importance of compliance of various regulations to avoid recurrence of incidents. She also stressed the need of maintaining continuity of such programs for knowledge sharing which would play an effective role in improving the efficiency in operations besides enhancing safety levels of the industry.

The participants expressed gratitude to PNGRB for organizing a very educative, interactive and learning program.

\*\*\*\*\*