
Corporate HSE Department
Noida
The 17th Annual HSE Workshop was organized by Corporate HSE Department on March 02, 2017 at GAIL Jubilee Tower, Noida on the theme, “Fire Protection of high rise Buildings”. The workshop was attended by 46 delegates comprising of OICs/WICs, and F&S In-charges from the work centres. The workshop was inaugurated by ED (O&M-CO).

**Welcome Address by GM (HSE)**

The workshop started with welcome address by Shri S P Garg, General Manager (HSE). The highlights of the activities by HSE being:

- GAIL has won various OISD Awards for the year 2014-15. HVJ pipeline under the category cross country pipeline, GPU Gandhar under the category consistent performer and Pata & Vijaipur under processing plant.
- Behavioural Based Safety (BBS) concept regular follow up has taken place at sites.
- Revision of Incident Reporting System for GAIL incorporating all the requirements of the ministry.
- A seminar on “Safe transportation of Hydrocarbon through cross country pipeline” was held at Bengaluru jointly with National Safety Council.
- MOU has been signed with GAIL and National Safety Council for Cooperation in different fields.
- Online Monthly HSE report submission implemented in Corporate Intranet and has become online.
- EHSM system has been implemented in SAP with the support of BIS.
Inaugural Address by ED (O&M- CO)

Shri A N Pandey, Executive Director (O&M- CO) addressed the participating delegates and appreciated the activities being carried out by Corporate HSE Department.

He opined that the theme of the HSE Workshop is of high relevance as on date, as GAIL is having many buildings which are high rise. Due to land cost appreciating considerably and shortage of land in city areas, we are seeing more & more high rise buildings coming up.

Shri A N Pandey, ED (O&M- CO) at the Inaugural Session
Address by ED (PC and E&P)

Shri M. V. Ravi Someswardu, Executive Director (PC and E&P) addressed the participating delegates. He urged that every individual should actively contribute toward safety enhancement and sites should also play vital role. He also opined that “Safety” should not only be considered as HSE’s job, it is every ones responsibility.

Regarding the subject, he told that longer egress time and availability of many people in vertical area, requires entirely different evacuation strategy for high rise building.

Shri M. V Ravi Someswardu, Executive Director (PC and E&P) at the Inaugural Session
Inaugural Session
During Inaugural session OIC’s Pata, Gandhar, Jaipur, Bangalura, Vijaipur, Rajamundry and Mumbai were connected through Video Conferencing.

Address by ED (PC), Pata

On receipt of CMD Trophy for best HSE Installation, OIC Pata in his address expressed his happiness on the safety performance of the plant and assured that similar performance will be repeated. He further mentioned about massive efforts made for safe completion of last shutdown jobs at Pata.
Award of CMD Trophy & BBS awards

During 17th Annual HSE Workshop, CMD Trophy for the year 2015-16 among all the sites was awarded to the HDPE-I of Pata Petrochemical.

Similarly, Best BBS implementation trophy and certificates for 2016 were awarded to GPU Gandhar in process plant category, Jhabua Compressor Station in Central Region category, Maharashtra Region pipeline, Mumbai under Corporate region category and Cauvery basin, Karaikal under Southern region category.

DGM (F&S), Pata receiving CMD Trophy for HDPE-I, Pata Plant
Glimpses of the Program
Technical sessions:
Three technical sessions were organised during entire day of the workshop.

Technical Session-I
The first technical session was chaired by Shri A N Pandey, ED (O&M-CO). This session had total five presentations, one by Shri Sanjay Tomar, Divisional Officer, Delhi Fire service, Second presentation was given by Dr. Chandra Tripathi, DGM(MS)-CO, third presentation was taken by Shri D K Sharma, DGM (F&S)- Vijaipur and the fourth one by Shri G Senthil, CM(F&S)- Bangaluru.

Mr Sanjay Tomar Divisional Officer, Delhi Fire Service enlightened participants about the problems associated with high rise buildings, aspects of life and fire safety, means of escape and places of safety in high rise building, Means of escape and fire drill and fire prevention and protection. Informative videos were also shared which showed the effect of fire on the building structure and their impact on Building failure / collapse.

Dr. Mrs.Chandra Tripathi gave her presentation on Medical Emergencies during fires in high rise buildings. She discussed about the case study of fire drill for one of the tower of Petronas tower at Kuala Lampur Malaysia. The necessary arrangements, preparedness by the hospitals prior to conducting the drill, the evacuation time etc. She described on, what type of emergencies were seen during fire, detailing about CPR and the procedure, type and degree of burns and the required precautions etc.

Third and fourth session presentations were made by DGM (F&S), Vijaipur and CM (F&S) Bengaluru about GAIL Central region and Southern region respectively.

Mr. Aman Sharma, Dy. Director (UP Fire Service) was our one of the guest for the program. During his address, he conveyed the likely changes in High rise building regulations that are under discussion and may become applicable. Further he discussed about various Special firefighting equipment’s available soon in his jurisdiction and the new ones those were under procurement.
Session faculties
**Technical Session-II**

The Second technical session was chaired by Shri M V Ravi Someshwardu, ED (PC and E&P). This session had total three presentations, one by Shri Dr. Saurabh Dalal of NDMA. Second presentation was given Shri J Paul, DGM (F&S)-Pata and the third presentation was taken by Shri Hirdesh Kumar, DGM (O&M-F&S)-CO.

Dr. Saurabh Dalal gave presentation on Medical Preparedness in case of Fire in High Rise Buildings. He talked of the case study of Amri Hospital, Kolkata and fire at Morshedabad, Fire incidents due to Tsunami along with major fires outside India also.

He talked about dos and don’ts to be taken care in case of fires and degree of burns. Their identification and action desired on case to case basis.

He further talked about the Hydraulic evacuation system available with some of set ups. At the time of crisis, these systems are not of much use, as it requires time for it to reach at site, assemble and its limited capacity to bring down the people safe.

Rescue team are not the Super heroes and it should not danger itself while trying to help others. Always remember “Not Fire but Smoke is the biggest Killer”.

Second and third presentations were presented by GAIL DGM (F&S), Pata and DGM (F&S) Corporate- O&M respectively.
ED (PC and E&P) chairing Technical session -II
Technical Session-III

Third technical session was chaired by Dr. Narendra Kumar, ED (CP). This session had total two presentations, one by Shri Mohd. Moizuddin, Head EHS North India- L&T, and the Second presentation was given by Shri A C Bhushan, Sr. Engineer (Corporate HSE, Noida).

Shri Mohd. Moizuddin, is heading Larsen & Tubro EHS, North. He is actively involved in Safety aspects associated for Construction and post Construction activities involved in L&T. He was involved in World’s tallest building (ie. Burj Khalifa- DUBAI) during its construction and looked after HSE Management of Iconic building.

He presented safety aspects of High rise buildings during Construction and Post Construction. He also discussed on the safety aspects taken care during design and construction of Burj Khalifa.

Shri Mohd. Moizuddin, EHS expert discussed various alternatives taken in design to take care of the structures safety. One point in particular was shared, the tallest structure (Burj Khalifa- Dubai) is using higher melting point steel. Refuge areas are constructed so as to take care of fire situation for three (03) hours.

To assist in the evacuation of occupants, it is having designated elevators feature a "lifeboat evacuation" mode, allowing fire brigade personnel or trained staff to transport occupants from upper portions of the tower to designated discharge lower levels.

The elevators include full operating capability on both primary and emergency power.

The superstructure is supported by a large reinforced concrete mat, which is in turn is supported by bored reinforced concrete piles. The design is based on extensive geotechnical and seismic studies.

The Structural system of Burj Khalifa in addition to its aesthetic and functional advantages, the “Y” shaped plan is utilized to shape the structural core of Burj Khalifa. This design helps to reduce the wind forces on the tower, as well as to keep the structure simple and foster constructability.

Mr A C Bhushan, from Corporate HSE presented on EHSM and HSE Benchmarking.
Sh. Mohd. Moizuddin, Head-HSE L&T, North Region

Dr. Narendra Kumar, ED (CP) chairing Technical session -III
Take away of the Workshop

GM (HSE) summarised the following take away from the workshop

i.  Relook at Fire Protection of High rise Buildings in GAIL by each F&S head in respective area.
ii. Regular Mock drills in such buildings (at least once in six month).
iii. Mapping of all F&S System Maintenance of such buildings in SAP.
iv. Prepare office Disaster Management plan of the buildings as per NDMA guidelines.
v. Get Fire Safety Audit of each GAIL’s high rise buildings done by third party, once in 2 years.
Vote of Thanks

At the end of the day’s program, Shri Dushyant Kumar, DGM (HSE) proposed a vote of thank to all the Executive Directors for their gracious presence and valuable advice to the participants. Their presence is moral boosting to all of us.

He thanked to all the external faculties for taking out their valuable time and sharing their rich experience on the subject. He also thanked all the participants for sparing their time & looking forward to their contribution during the course of workshop.