



## HEALTH, SAFETY AND ENVIRONMENT

### HEALTH

PIL Pipeline ensures preventive health care through a pre-employment medical inspection and regular medical examinations of all employees including contractors.

- Each compressor station has a minimum of five trained first aiders and first aid kits.
- The company has hospitals in the vicinity of the compressor stations.
- PIL Pipeline keep stocks of anti-venom and scorpion bite medicines at various hospitals along the pipeline route for its own field staff and the general public.

### SAFETY

A Safety Management system has been implemented and is monitored on a regular basis.

- Safety is achieved through operating a discipline Safety Management system which comprises of well documented standard operating procedures, practices, alarm management and monitoring.
- A management framework with clearly defined policies, organization structures, roles and responsibilities, guidelines, audits, training, monitoring and reviewing.
- An Emergency Response and Disaster Management Plan (ERDMP) which is in place.
- Dedicated Emergency Response Vehicles equipped with essential equipment
- All field staff and contractor workers are trained in emergency response procedures.
- Emergency preparedness is evaluated through conducting regular mock drills.
- Pipeline Operations Centre operates on 24 hours a day, 7 days a week, 365 days a year and acts as a nodal point for emergency notification.

### Living and Working Near a Pipeline

It is crucial that those living and working near the pipeline avoid unauthorized activity that may lead to pipeline damage and (or) accidents. PIL Pipeline regularly conducts the Public Awareness Programs for landowners, farmers, villagers, and officials of revenue, administration workers and fire departments. The programs cover the below safety information:

#### What is Natural Gas:

- Natural Gas is much lighter than air and when released rises upwards and diffuses fast. It is colourless, odourless, non-toxic, non-poisonous and highly flammable in nature.

#### Right of Use for the Pipeline:

- PIL Pipeline has acquired the Right of Use (RoU) of a 30-m wide strip of land for the construction, operation and maintenance of pipeline under the provision of Petroleum and Minerals Pipelines (Acquisition of Right of User in Land) Act, 1962 (PMP Act). The ownership of the land remains with the landowners. **Pipeline Access and Security:**
- As per the provisions of the PMP Act all landowners have been communicated to and are obliged to keep the pipeline RoU free of structures, deep rooted trees, wells and tube wells and other permanent obstructions to facilitate accessing the pipeline for routine patrolling, as well as repairs and maintenance to ensure the quality of the pipeline.
- Pipeline signs and markers do not indicate the exact location of a pipeline or RoU. PIL Pipeline is available to help you locate a pipeline. Please call our toll-free number prior to digging near a pipeline.

### Locating a Pipeline

For safety reasons, the pipeline is buried for its entire length except at the Mainline Valve Stations, Metering and Regulating Stations, and Compressor Stations.

#### You can approximately locate the underground pipeline by:

Warning signs, ROU markers and aerial markers are installed at regular intervals along the length of pipeline RoU. Markers indicate the

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approximate location of the underground pipeline and are placed at all locations wherever pipeline intersects a major road, highway, railway, canal, nallah and foreign pipelines. They are also placed at every one kilo meter distance along the pipeline route. Warning signs display the product transported, operator details and One-Call Number. This enables the general public to have a correct contact in the event of emergency or whenever unauthorized activity is seen in pipeline RoU.

**Warning markers do not provide information on the depth and exact position of the pipeline. Pipelines may not follow a straight path between markers. Look for following signs:**

- Warning markers near roads crossings, railroads and along pipeline RoU and on the pipeline itself.
- Aerial markers.
- RoU boundary markers.

Familiarize yourself with pipeline markers on or near your property. If you knock over a marker or if you find markers are missing please call PIL Pipeline for its repair or replacement. If you would like to install more pipeline markers on your property, contact PIL Pipeline staff.

## Excavation

If you are a landowner and need to undertake any excavation work within ROU or in the vicinity of pipeline, please inform PIL Pipeline beforehand.

**What to do if you are digging and disturb a pipeline:**

If you accidentally cause any damage to the pipeline, notify PIL Pipeline immediately. A gouge, scrape, dent or crease to the pipe or coating may cause a future break or leak. PIL Pipeline to take proactive actions to rectify the damage.

## Recognizing Leaks

**How do I recognize a leak?**

Leaks from pipelines are rare but you must also know how to identify a leak and what to do in the unlikely event of leak.

**Look for:**

- Discolored vegetation.
- Bubbling in wet or flooded areas.
- Flames coming from the ground or an exposed pipeline valve.
- A slight mist of ice or frozen area on the pipeline.
- Dirt, dust or water being blown or appearing to be thrown in the air.
- Large quantity of flies/insect/fungus on RoU or equipment.

**Smell for:**

- Natural Gas is odourless, however the scent of gas or petroleum may be present. **Listen for:**
- An unusual hissing or roaring noise coming from a pipeline.
- A “bubbling” sound.

**If you suspect a leak, please do the following:**

- Leave the area immediately and walk 90 degrees to the wind direction, away from leak source.
- Do not touch, breathe or make contact with contact with leaking gases.

- Do not light a match, start an engine, use a telephone (including a cell phone), turn light switches on/off or do anything that may create a spark.
- Turn off any lit gas pilot lights if immediately accessible.
- Turn off any machinery and equipment.
- Divert the vehicular traffic.
- Do not drive into a leak or vapor cloud.

## Emergency Preparedness

PIL Pipeline is responsible for the operational safety of the pipeline. As a part of emergency preparedness PIL Pipeline officials regularly interact with local emergency responders, general public, police services, landowners and neighbours to ensure effective emergency management and staff.

All employees and contractor workforce are trained in emergency response and management procedures which are regularly tested.

## ENVIRONMENT

Environmental stewardship is of great importance to PIL Pipeline and forms part of our overall business plan and strategy.

Some of the key features incorporated in PIL Pipeline assets are:

- Dry Low Emission (DLE) mapping of all Gas Turbine Compressors and LENOX mapping of all Gas Engine generators are performed to minimize the air pollution with optimal efficiency.
- To decrease ozone depletion, HFC-227ea, an environment friendly gas is being used instead of Chlorofluorocarbons (CFC) for extinguishing the fire.
- Rain water harvesting facility is provided at all compressor stations for ground water re-charge.
- Minimum 25% of the total constructed area at each compressor station is developed as green belt and local species of saplings are planted.
- Proactive measures for safe disposal of hazardous waste such as used oil and condensates which are sold only to the Central Government approved recyclers.
- Non-hazardous wastes such as metallic, wooden scrap, plastic material is sold to local scrap dealers.