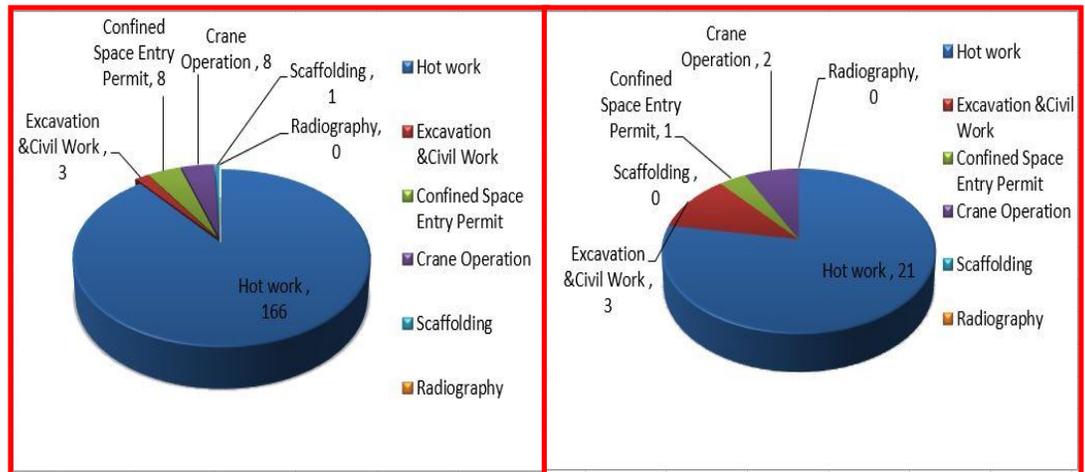


**Permit to Work System at NRL Korangi & K.T**

Permit is regarded as a written agreement between the person authorizing the work and the person receiving the permit to work. Following Permit to Work were issued in the Month of **December 2019** at Korangi & K.T.



Korangi Refinery

Keamari Terminal

**Safe Man Hours**

NRL Safety Board is updated by second week of every month. Safety Board shows the number of Safe Man-hours worked by NRL MPT and Non MPT Staff. By the Grace of Al Mighty Allah and joint efforts by all of us, we have achieved **32.8588 millions** safe man-hours with out Lost Time Injury as on **31st Dec 2019**. Let us all give top priority towards safety, as there is no job, which cannot be done in a safer way.

**32.86 Million Safe man hours till 31st December 2019**



## TURNAROUND OF PRODUCTION LUBE-I REFINERY CONDUCTED

Turnaround of Production Lube-I Refinery Started on **November 19th 2019** and had been under progress throughout **December 2019**. During this Turnaround / Shutdown several Maintenance jobs were being performed to increase the performance and efficiency of the **Only Two Stage Refinery of the Country**.

**Overhauling of All the Furnaces and Installation of New Burner Management System in the Furnaces during Turnaround will lead to the control of Gaseous Emissions in the Environment as well as enhance the Performance of the Plant.**

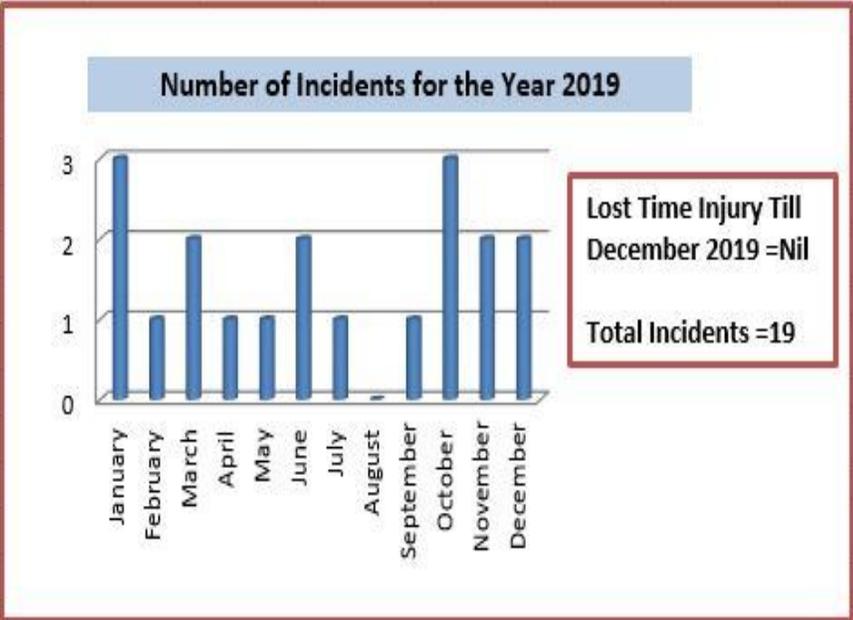


# OUR AIM: **NO** ACCIDENTS



## INCIDENT / ILL HEALTH AND LOSS TIME INJURY

<b>Incident</b>	An incident is an unplanned, undesired event that adversely affects completion of a task.
<b>Near miss</b>	A near miss describes incident where no property was damaged and no personal injury sustained, but when given a slight shift in time or position, damage and / or injury easily could have occurred
<b>Accident</b>	An accident is an undesired event that results in personal injury, property damage and equipment damage.
<b>Loss Time injury (LTI)</b>	If any NRL employee on duty had on the job accident, which render the employee medically unfit to resume of his duty next 24 hours is considered to be lost time injury (LTI).



## INTERNAL / EXTERNAL MONITORING CONDUCTED BY HSE DEPARTEMENT



Ambient Air Monitoring



Drinking Water Sampling



Effluent Sampling



Stack Emission Testing



Noise Monitoring in Plant



NRL In-house / Internal Monitoring

## Safety Article: Safety Practices for a Successful Plant Shutdown (Continued)

The following are some of the best safety practices for a successful plant shutdown:

### ◆ **GIVE YOURSELF ENOUGH TIME TO PLAN:**

The single best thing you can do for a successful plant shutdown is to **give yourself enough time to plan the outage effectively**. The standard recommendation is that you **begin planning four months before the scheduled outage**.

### ◆ **RE-EDUCATE YOUR WORKFORCE ABOUT SAFETY:**

Plant turnaround safety is something that needs to be refreshed each year, given the high level of risk associated with the work. Include an emergency response procedure, and invest in the safety of your workers ahead of time. Consider outsourcing safety training to safety training management platforms such as Safe Force or Industrial Training Services to save time and money.

### ◆ **TEST FOR EXPOSURE RISK:**

Some plants, typically chemical, pose a real risk of exposure to toxic chemicals. This might include acidic chemicals, flammable gases, toxic fumes, airborne fibers, etc. Bring on a specialist to test for exposure risk, and check out OSHA's resources on Controlling Exposures if you detect hazards you need to control.

### ◆ **COMMUNICATE:**

Plant shutdowns can be dangerous. **One of the best ways to avoid injuries is with communication**. Develop your own code: phrases to quickly flag that there is a danger or that some form of swift response is needed to resolve the immediate danger. **This can be as simple as 'do not energize.' or 'do not operate.'**—these safety slogans, talk messages, and/or banners can save you time and an avoidable injury.

### ◆ **ASSIGN QUALIFIED PERSONNEL:**

Heavy machinery plays a large role in most shutdowns. **Make sure that the workers you assign to man this machinery are trained and qualified**, and that there is always someone spotting outside the machine to guide their transport of the equipment.

