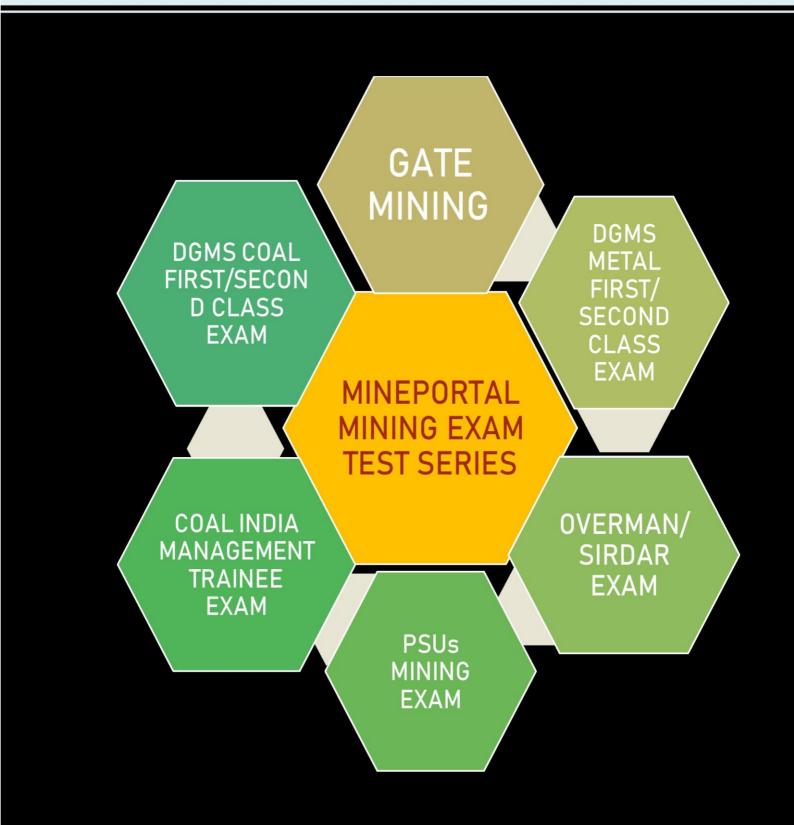
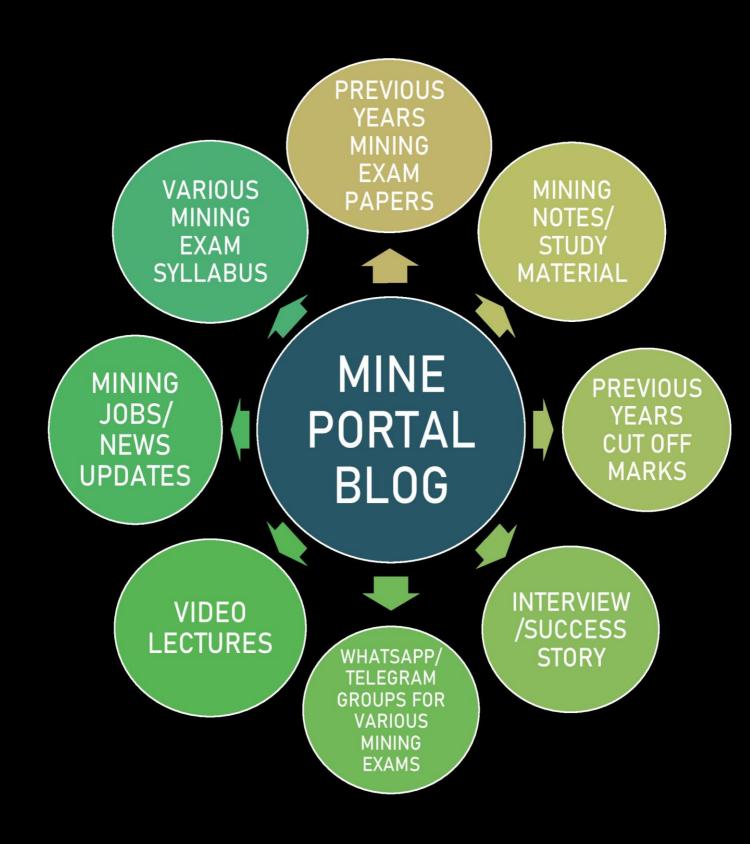
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# 2019

# **DGMS Technical Circular No. 1 of 2019**

Subject: Safe conduct of operations in Workover Oil/Gas Mines.

In accordance with the deliberations of the workshop and also detailed discussions with various stake holders, the following recommendations were arrived at in respect of any workover oil/gas mine in operation:

1. It shall be ensured that no person carries any electric device or any means capable of causing fire in workover area within 30m from any tank, separator, oil well, oil/gas manifold at the installation including in Zone-2 hazardous area.

## **DGMS Technical Circular No. 2 of 2019**

Subject: Safety provisions for Diamond Wire Saw Machines and its Operations.

To address the risks associated with Diamond wire saw cutting operations in Mines, following safety provisions shall be strictly adhered with:

#### 1) Operation and Maintenance:

- a) The **Manager**, in consultation with Engineer of the Mine, shall specify adequate danger areas for protection from the flying off elements and shall ensure that persons are not deployed within the danger zone/area during operation of the machine.
- b) Detailed Codes of Practice for operation and Maintenance of Diamond Wire Saw Machine shall be framed by **Manager** of the Mine in consultation with Engineer of the mine and the same shall be enforced.

# DGMS Legislative Circular No. 2 of 2019

Subject: Equal employment opportunities for women in mines and exemption from the provisions of section 46 of the Mines Act, 1952.

#### 1) In case of women employed in any mine above ground:-

- a) The owner of a mine may deploy women between the hours of **7 pm and 6 am** in the mine above ground including opencast workings.
- b) The deployment of women shall be subject to the framing and implementation of Standard Operating procedures on the basis of guidelines issued in this regard by the Chief Inspector of Mines from time to time.
- c) The deployment of women shall **not** be in a group of **less than 3 in a shift**.

#### 2) In case of women employed in any mine below ground:-

- a) The owner of a mine may deploy women between the hours of 7 pm and 6 am in technical supervisory and managerial work where continuous presence may not be required.
- b) The deployment of women shall be subject to the framing and implementation of Standard Operating procedures on the basis of guidelines issued in this regard by the Chief Inspector of Mines from time to time.
- c) The deployment of women shall **not** be in a group of **less than 3 in a shift**.

# 2020

## DGMS Technical Circular No. 3 of 2020

Subject: Guidelines for scientific study under Regulation 106 of Coal Mine Regulations, 2017

#### 1) Factor of Safety

a) The minimum factor of safety to be considered for design of pit, bench & dump slope shall in any case not be less than **1.50** for permanent or long-standing slopes and **1.30** for all other cases.

## DGMS Technical Circular No. 4 of 2020

Subject: Prevention of inflammable gas hazards in belowground coal mines - reg.

- 1) Gas Drainage: A suitable pre-mining methane drainage system shall be adopted in coal seams with gas content>10 m³/t to reduce gas content of coal seam below the critical level to achieve safe belowground working conditions.
- 2) **Monitoring:** A Tele-monitoring system having a sensor for continuous monitoring of methane (CH4) and carbon monoxide (CO) may be provided in every mine having seams of **2**<sup>nd</sup> **and 3**<sup>rd</sup> **degree** gassiness. The system should have a feature to automatically cut off power in case the percentage of **CH4 exceeds 0.75%** and **noxious gases exceed 50 ppm** along with automatic alarm system.

## DGMS Technical Circular No. 5 of 2020

Subject: Safe conduct of Drilling and Production operations in Oil & Gas Mines.

#### A.1- General:-

- 1) It shall be ensured that persons deployed within **30 m** of any tank, separator, oil well, oil/gas manifold in the installation including zone-2 hazardous area(s), do not carry and electronic device, cigar etc.
- 2) Entire process area shall be kept under intrinsically safe CCTV surveillance recordings of which shall not be kept at least for 30 days. Before deleting the data it shall be examined for unsafe act/practice.

# **DGMS Technical Circular No. 7 of 2020**

Subject: Safe conduct of operation at railway sidings of the mines.

1) For loading operation of empty railway wagons after rake placement, sampling or any work in the vicinity of 25KV Traction line (Overhead Line), Mine authority shall take a written "Permit to Work" from Railway Authority and also the controlling isolator shall be locked so that it can't be operated by any unauthorized person.

# **DGMS Technical Circular No. 8 of 2020**

Subject: Recommendations of 12<sup>th</sup> National Conference on Safety in Mines held on 28<sup>th</sup> & 29<sup>th</sup> January, 2020 at New Delhi.

- 1) Machinery for Surface or Opencast Operations
  - a) The **GPS-GSM based vehicle navigation system** shall be used in large mines in a phased manner.
  - b) Protection against Fatigue: Long or Extended Hours of driving **beyond 8 continuous hours** with a **rest interval of half an hour after Four hours** of continuous operation, shall not be permitted.

- 2) Transportation Machinery in Underground:
  - a) All steam winders should be replaced with electric winders in a phased manner within a period of 5 years. OR Alternate access to the mine (Inclines or Shafts) may be implemented within same period.
  - b) Detailed Survey of all winding installations which completed **20 years** shall be carried out by a committee of experts and its recommendations shall be implemented.
- 3) Prevalence of Pneumoconiosis/Silicosis amongst workers, present status of dust control measures and strategy for improvement:
  - a) Permissible respirable dust levels be brought down to 1.0 mg/m3 (in case percentage of free silica in mines is up to 5) or 5 divided by percentage of free Silica in Dust, from the present level, in the line of prescribed limits of National Institute for Occupational Safety and Health (NIOSH), USA.
  - b) For early detection of Silicosis amongst Miners of Stone quarries, Medical examination should be conducted at least once in every year and chest Radiography once in every two years.
  - c) All mining companies shall have the services of at least one Doctor qualified in OH and trained in ILO classification of chest radiographs.

# **DGMS Technical Circular No. 10 of 2020**

Subject: Protection against lightning in mines.

1) In case of every mine, the Lightning risk assessment study shall be carried out with an emphasis to calculate Expected number of lightning flashes per square kilometer per year. It is instructed that the mine shall mandatorily be equipped with adequate lightning protection in the event of measure of Exposure risk i.e Expected number of lightning flashes per square kilometer per year coming in excess of 10-5 (1 in 100,000).

## DGMS Technical Circular No. 14 of 2020

Subject: Precautions against premature blast of Site Mixed Emulsion (SME)/Site Mixed slurry (SMS) explosive.

- 1) Fragmentation of boulders by blasting shall be avoided. Rock breaker or other similar device shall be used for breaking the boulder. If it is at all necessary to carry out blasting in boulder, large diameter holes shall not be drilled in it. Instead, in such cases **small diameter (32mm)** holes shall be drilled and blasted by small diameter explosive cartridges in small quantity.
- 2) Simultaneous blasting of charged holes in benches and that in boulders shall not be done.
- 3) Standard Operating Procedure (SOP) for handling and use of explosives including SME explosive shall be framed on the basis of assessed risk.