

NATIONAL SAFETY AWARDS (MINES)

RULES OF THE CONTEST, 2004 ONWARDS

- 1.0 The contest is open to all mines which come under the purview of the Mines Act, 1952.
- 2.0 The award schemes under the NSA (Mines) are given below:

Scheme – 1

- Longest Accident Free Period (LAFP)

Scheme – 2

- (A) Lowest Injury Frequency Rate per Lakh Manshifts (LIFR-M)
- (B) Lowest Injury Frequency Rate per Million Cubic Metres Output (LIFR-O)

Scheme '1' and '2(A)' cover all mines while scheme '2(B)' LIFR-O is open only to opencast coal mines.

- 3.0 Mines eligible for contest have been classified into 7 major types as given below.

Details of Awards Scheme:

Type of Mine	Description	No of Awards		
		LAFP	LIFR	
			LIFR-M	LIFR-O
Type – 1	COAL MINES Belowground with difficult mining condition	2	2	-
Type – 2	COAL MINES - Belowground (Others)	2	2	-
Type – 3	COAL MINES - Opencast	2	2	2
Type – 4A	METAL MINES – Mechanised opencast with manshifts worked >0.5 lakh	2	2	-
Type – 4B	METAL MINES – Mechanised opencast with manshifts worked ≤ 0.5 lakh		2	-
Type – 5A	METAL MINES - Manual opencast with manshifts worked >0.25 lakh	2	2	-
Type – 5B	METAL MINES - Manual opencast with manshifts worked ≤0.25 lakh		2	-

Type – 6	METAL MINES – Belowground	2	2	-
Type – 7	OIL MINES	2	2	-
Total		14	18	2

Criteria regarding difficult mining condition:

A belowground coal mine operational for at least six months during the contest year is considered to have difficult mining conditions if its working depth is 300 metres or more OR it satisfies at least two of the following conditions:

- (1) working degree III gassy seam;
- (2) having longwall face(s) worked for at least six months;
- (3) having mechanized development/depillaring workings ;
- (4) having depillaring workings with thickness of extraction greater than or equal to 3.6 metres;
- (5) working seam(s) having a gradient of 1 in 3 or steeper.

Criteria regarding belowground mines:

A mine having both belowground and opencast workings is treated as a belowground mine if the output from belowground workings is 50% or more of the total output. Otherwise it is treated as an opencast mine.

Criteria regarding opencast mines:

An opencast mine is considered as mechanized opencast if 50% or more of either the output or the overburden removed from opencast workings during the contest year is obtained from mechanized faces.

4.0 Formulae

For any mine, 3 years period will be considered (ending with the contest year) for calculation.

LAFP = Number of manshifts worked during the longest accident-free period

IFRM = $(50K + S) \times 100,000 / \text{TMS}$

IFRO = $(50K + S) \times 100,000 / \text{Output}$

where

- K = total no. of fatalities in mining statistical accidents in the mine
- S = total no. of workers seriously injured in mining statistical accidents in the mine
- TMS = total manshifts worked in the mine and

- Output = (Coal production in tonnes/1.4) + Overburden removed in cubic metres

5.0 Criteria for awards

LAFP: Values of LAFP of mines which satisfy the condition $LAFP \geq 75\%$ (65% for Type 1 mines) are arranged in descending order. From the list top 2 mines are selected as winner and runner.

LIFR-M: Values of IFRM of mines are arranged in ascending order. In case IFRM values of more than one mine are identical then mines are arranged according to TMS values in descending order. From the list top 2 mines are selected as winner and runner.

LIFR-O: Values of IFRO (applicable for Coal Mines - Opencast) are arranged in ascending order. In case IFRO values of more than one mines are identical then mines are arranged according to Output values in descending order. From the list top 2 mines are selected as winner and runner.

6.0 One Mine One Prize

From the contest year 1999 a system of "one mine, one prize" has been introduced. If a mine is ranked 1st in one scheme and 2nd in another scheme the mine will be selected for the 1st prize only. If a mine gets equal ranks in two or more schemes, the prize to be awarded to the mine will be decided according to the following order of preference: LIFR (output), LIFR (manshifts), LAFP.