

# **Star Rating Registration Process for Coal Mines**

# Why in News?

Recently, the Ministry of Coal has announced the commencement of the **Star Rating Registration process of** <u>Coal</u> **and Lignite Mines** for the financial year 2022-23.

# What is the Process of Registration?

#### Parameters:

- The Star Rating policy aims to evaluate mines based on various factors across seven key parameters namely,
  - Mining Operations,
  - Environment-related parameters,
  - · Adoption of Technologies,
  - Best Mining Practices,
  - Economic performance,
  - · Rehabilitation & Resettlement,
  - Worker-related Compliance and Safety & security.

#### Process:

• Participating mines will **undergo** a **self-evaluation process**, and the top 10% performing mines will be further validated through inspections conducted by a committee.

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- While the remaining 90% of the mines will undergo an online review process, all
  participants can contribute to the evaluation by reviewing other mines.
- The evaluation will be conducted by the Coal Controller's Organization.
- The ratings awarded range **from Five Star to NO Star**, comprehensively evaluating each mine's achievements.

# Aim:

 It aims to foster competitiveness among mines and recognize their outstanding performance based on compliance of statutory provisions, adoption of advanced mining technology and economic achievements.

### What is Coal?

### About:

- It is a type of fossil fuel found in the form of sedimentary rocks and is often known as 'Black Gold'.
- It is a **conventional source of energy** and is widely available. It is used as a domestic fuel, in industries such as iron and steel, steam engines and to generate electricity. Electricity from coal is called thermal power.
- The leading coal producers of the world include China, US, Australia, Indonesia, India.
- Indian coal has high ash content, which varies from 35 to 45%, compared with that of coal in other parts of the world, which is around 15% while it has low sulphur content, about 0.5%.

#### Distribution of Coal in India:

- Gondwana Coal Fields (250 million years old):
  - Gondwana coal makes up to 98% of the total reserves and 99% of the production of coal in India.

- Gondwana coal forms India's metallurgical grade as well as superior quality coal.
- It is found in Damodar (Jharkhand-West Bengal), Mahanadi (Chhattisgarh-Odisha), Godavari (Maharashtra), and Narmada valleys.
- Tertiary Coal Fields (15 60 million years old):
  - Carbon content is very low but is rich in moisture and Sulphur.
  - Tertiary coalfields are mainly confined to extra-peninsular regions
  - Important areas include **Assam, Meghalaya, Nagaland,** Arunachal Pradesh, Jammu and Kashmir, Himalayan foothills of Darjeeling in West Bengal, Rajasthan, Uttar Pradesh, and Kerala.

#### Classification:

- Anthracite (80 95% carbon content, found in small quantities in I&K).
- **Bituminous** (60 80% carbon content and is found in Jharkhand, West Bengal, Odisha, Chhattisgarh and Madhya Pradesh).
- **Lignite** (40 to 55% carbon content, high moisture content and is found in Rajasthan, Lakhimpur (Assam) and Tamil Nadu).
- **Peat** (less than 40% carbon content and it is in the first stage of transformation from organic matter (wood) to coal).

## **UPSC Civil Services Examination Previous Year Question (PYQ)**

### Q1. Which of the following is/are the characteristic/characteristics of Indian coal? (2013)

- 1. High ash content
- 2. Low sulphur content
- 3. Low ash fusion temperature

### Select the correct answer using the codes given below:

- (a) 1 and 2 only
- **(b)** 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Ans: (a)

**Source: PIB** 

PDF Reference URL: https://www.drishtiias.com/printpdf/star-rating-registration-process-for-coal-mines