



भारत सरकार  
श्रम एवं रोजगार मंत्रालय  
खान सुरक्षा महाननदेशालय

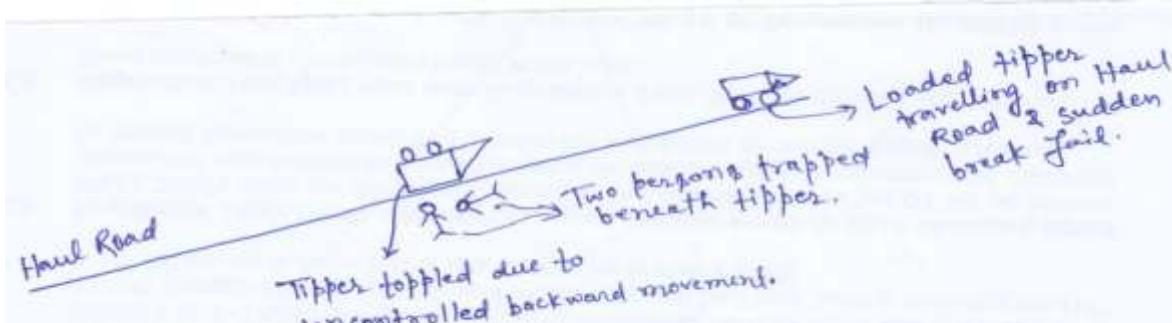


**SAFETY ALERT: 36**

**Dhanbad, dated 04.12.2025**

**SUBJECT:** Fatal accident occurred due to toppling of tipper at Sarmanda Stone Mine.

1. Name of Mine : Sarmanda Stone Mine (3.0 Acres)
2. Name of Owner : Shri Sujit Kumar Mandal  
District : East Singhbhum  
State : Jharkhand
3. Mineral : Stone
4. Date and time of accident : 11.11.2025, 4 P.M.
5. Place of accident : Opencast
6. Killed : (1) Name: Robin Sardar  
Designation: Tipper helper  
Age: 25 years  
Experience: 6 months in Tipper helper (work) Operation.  
  
(2) Name: Subhrojit Gope  
Designation: Munsi (Non-Mining Supervisor)  
Age: 27 years  
Experience: 8 months in Munsi (Non-Mining Supervisor) Operation.
7. Seriously Injured : NIL
8. Brief Cause : While a loaded tipper moving on the haul road due to sudden failure of break, the driver unable to control the movement of tipper in the backward direction, meanwhile the dumper helper jumped down from the tipper (Hywa) and another excavator operator walking on the haul road coming from the pit bottom, the tipper got toppled, both dumper helper and excavator operator trapped between the toppled tipper and haul road resulting into two fatal injuries.
9. Sketch showing the accident:



Sketch showing the fatal accident occurred with two persons at Sarmanda Stone Mine of owner - Sujit Kumar Mandal

## 10. Best Practices

### **Engineering & Mechanical Controls**

#### a) Brake Health and Redundancy

- Mandatory daily inspection of: Service brake, Parking brake, Emergency brake and Retarder system
- Ensure functional dual braking system and fail-safe parking brake.
- No dumper should be deployed without: Valid brake test record, OEM-recommended pressure levels, Proper hydraulic and air lines

#### b) Automatic Reverse Protection & Speed Control

- Install: Reverse alarm systems, Retarders, Automatic transmission protection to prevent unintended backward rolling, Speed limiters

#### c) Healthy Tyres & Suspension

- Worn-out tyres increase risk of slipping/rollback.
- Ensure: Proper tyre pressure, No cracks, cuts or bulges

### **Haul Road Design & Stability**

#### a) Proper Gradient and Width

- Maintain gradient within statutory/OEM limits.
- Maintain haul road width minimum:
  - 3 times the dumper width (one-way)
  - 5 times the dumper width (two-way)

#### b) Berms and Safety Bunds

- Provide strong, well-compacted embankments/berms to prevent vehicles rolling off the edge.

### **Operational Controls**

#### a) Strict Prohibition of Riding on Dumpers

- Dumper helpers should not travel on dumpers (Hywa) while operating or moving on haul roads.
- Only driver permitted inside the cabin.

#### b) Maintain Safe Distance From Heavy Machines

- All pedestrians—including operators walking to/from machines—must: Use designated pedestrian pathways, Stay minimum 20 m away from HAUL road edges, Never walk behind or in front of moving equipment