

FORM III
Extraction of coal by a system other than the Board and Pillar system
[See Regulation 100A]

1. General

- (i) Name of Mine
- (ii) Owner
- (iii) District
- (iv) State

2. Particulars of Seam to be worked

- (i) Name/Number
- (ii) Total thickness
- (iii) Working thickness (give section)
- (iv) Nature of roof upto a thickness of atleast 1 metre.
- (v) Nature of floor upto a thickness of atleast 1 metre.
- (vi) Maximum and minimum depth from the Mine Surface.
- (vii) State :
 - (a) the rate of emission of inflammable gas per tonne of coal raised.
 - (b) The percentage of inflammable gas in the general body of air.
- (viii) Is there any history of fire in the seam : (a) in the same mine; or (b) in the adjoining mines ? Give details
- (ix) What is the known or expected incubation period of the seam ?

3. Condition of overlying and underlying seam

- (i) Give section of the strata separately.
- (ii) Are the seams free from water ? If not, give details regarding position of water level.
- (iii) Are the seams extracted/split/standing on pillars/virgin?
- (iv) If the seams have been extracted/split; state if by caving method or by hydraulic stowing or dry stowing.
- (v) Is there any fire in any overlying or underlying seams/sections or at the surface? If so, give detailed history about the same, and the present condition of the fire.
- (vi) State :
 - (a) the rate of emission inflammable gas per tonne of coal raised
 - (b) the percentage of inflammable gas in the general body of air.

4. Proposed method of Development

- (a) Explain in detail the proposed layout of workings.
A layout plan also should be submitted in duplicate showing the area proposed to be worked, and all other features (including surface features) required to be shown on an underground plan maintained under regulation 59.
- (b) Type of machinery to be used for coal cutting/coal getting and for the transport of coal from the face to the surface.

5. Proposed method of extraction

- (a) By hydraulic stowing of sand/crushed material and/or pneumatic stowing by caving method, or
- (b) By longwall retreating or longwall advancing method, or
- (c) By any other special method, like working by inclined slices, horizontal slices and sub-level caving etc.

Note : IN each case, illustrate the manner of extraction in details and with suitable sketches.

- (d) Type of machinery to be used for coal cutting/coal getting and for the transport of coal from the face to the surface.

6. Support

- (a) Proposed method of support during
 - (i) development
 - (ii) depillaring/final extraction

Note : In each case, illustrate with sketches.

- (b) Material to be used for support, whether timber or steel. If steel supports are to be used, state the type whether rigid, friction or hydraulic type, giving the trade, name, if any, of the type of supports.

7. Precautions against Coal Dust.

- (a) Within 60 metres of working faces.
- (b) In the haulage roads and airways.
- (c) In other parts of workings.
- (d) Whether stone dust barriers would be provided ? If not, give reasons.
- (e) Type of stone dust to be used.

8. Precautions against danger from water

1. If provisions of regulation 126 are applicable, state precautions that are proposed to be taken against danger from surface water.
2. If provisions of regulation 127 are applicable, state precautions that are proposed to be taken against danger from underground water.

9. Ventilation

- (1) Surface fan
 - (a) (i) Type
 - (ii) Capacity (state the range) Min. Max.
 - (iii) Water-gauge.
 - (b) Whether the same fan will meet the ventilation requirements of the mine during its different stages of development and depillaring or any other fan(s) will be installed. In the latter case, give details stating the equivalent orifice of the mine at the different stages of its life.
- (2) Underground fans, if any, Type Capacity Auxiliary or Booster
 - (i)
 - (ii)
- (3) Explain the proposed system of ventilation and also indicate on the layout plan:

Ventilating District	Quantity of air in cubic metres/cubic feet.
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- (4) Minimum quantity of air:
 - (1) available per person employed in the largest shift or per daily tones output, whichever greater passing along the last.
 - (2) Ventilating connection for each ventilating district.
- (5) (i) What is the anticipated rate of emission of gas per tonne of coal ?
 - (ii) Maximum percentage (actual or planned) of gas in the return of any ventilating district.

10. Any other relevant details –

Certified that the information given above is correct to the best of my knowledge or belief.

Signature :
 Designation :
 Owner/Agent/Manager
 Date :

Instructions

- 1) Separate sheets may be used in case the space against any of the columns is sufficient for the information required.
 - 2) This form should be submitted in duplicate accompanied by a layout plan showing the area proposed to be worked and all other features (including the surface features) required to be shown on an underground plan maintained under Regulation 59.
 - 3) Equivalent Orifice should be calculated in square metres.]
- [Ministry of Labour and Employment, No.M1-41(30)/57]