

## PRELIMINARY OF CMR

1) In these regulation, unless the context otherwise requires -

a) "abandoned working" means such working, as has been abandoned with no intention of working in future.

b) "Abandoned mine methane" (AMM) means a natural gas recovered from abandoned coal mines or part thereof;

c) "Act" means the mines act, 1952.

d) "approved safety lamp" and "electric torch" means respectively a safety lamp or an electric torch, manufactured by such firm and of such type as the chief inspector may from time to time specify by a general or special order;

e) "assistant manager" means a person possessing a manager certificate appointed in writing by the owner, agent or manager to assist the manager in the management, control, supervision and direction of the mine or part thereof and who holds the rank immediately below the manager and superior to an overman and a sirdar.

f) "auxiliary fan" means a forcing fan or an exhausting fan used belowground wholly or mainly for ventilating one or more faces forming part of a ventilating district.



g) "average output" of any mine, means the average output per month during the preceding financial year of the total output from all workings within the specified mine boundaries.

h) "banksman" means a person appointed to superintend the lowering and raising of person, tools and materials and to transmit signals at the top of a shaft or incline.

i) "booster fan" means a mechanical ventilator used belowground for boosting the whole current of air passing along the intake or return airway of a mine ventilating district.

j) "coal" includes anthracite, bituminous coal, lignite, peat and any other form of carbonaceous matter sold or marketed as coal.

k) "coal mine methane" (CMM) means a natural gas recovered from a coal mine or part thereof;

l) "Committee" means a committee appointed under Section 12 of the Act.

m) "Competent Person" in relation to any work or any machinery, plant or equipment means a person who has attained the age of twenty years and who has been duly appointed in writing by the manager as a person competent to supervise or perform that work, or to supervise the operation of that machinery, plant or equipment and who is responsible for the duties assigned to him, and includes a shot riner.



S) "disused working" means such workings in a mine where work has been temporarily stopped, but which are accessible and include unused working.

"Explosive" shall have the same meaning as is assigned to it in the Explosive Act, 1884

U) "face" means the moving front of any working piece or the free end of any gallery, road way or drift.

V) "Fifty seam" means a seam in which a fire or spontaneous heating exists in the working belowground or in open cast working lying with in the precincts of a mine.

W) "Financial year" means a period of 12 months from the first day of April to the last day of march of the successive year.

X) "Flame proof enclosure" shall have the same meaning as defined under the central electricity Authority Regulation 2010.

Y) "Furn" means a furnace as may be specified by an order or instruction by the chief inspector under these regulations.

Z) "Gases" includes fume or vapour; Zay) "gassy seam of the first degree" means a seam or part thereof lying with in the precincts of a mine not being an open cast working whether

of non inflammable gas is actually detected in the general body of the air or any place in its workings below ground, or when the percentage of the inflammable gas:



if and when detected, in such general body of air does not exceed 0.1 and the rate of emission of such gas does not exceed one cubic meter per tonne of coal produced.

Zb "gassy seam of the second degree" means a coal seam or part thereof lying with in the precincts of a mine not being an open cast working in which the percentage of inflammable gas in the general body of air at any place in the workings of the seam is more than 0.1 or the rate of emission of inflammable gas per tonne of coal produced exceeds  $1 \text{ m}^3$  but does not exceed  $10 \text{ m}^3$ .

Zc "gassy seam of the third degree" means a coal seam or part thereof lying with in the precincts of a mine not being an open cast working in which the rate of emission of inflammable gas per tonne of coal produced exceeds  $10 \text{ m}^3$ .

Zd "general body of air" means the general atmosphere in a coal seam and includes the atmosphere in the roof cavities, but does not include general atmosphere in the sealed off area or in any borehole drilled in coal or in the adjacent strata.

Zef "goaf" means any part of workings below ground where down or pillar or part thereof, or in the case of longwall workings, coal has been extracted but which is not a working place.



Z1) "haul road" means any passage or road, which is maintained and used in connection with the working or opencast mines for passing of machinery with in the precincts of a mine;

Z2) "Heavy Earth moving machinery" means machinery used in opencast mines for drilling, dredging, hydraulicking, ripping, dozing, grading, excavating, loading or transporting mineral or overburden;

Z3) "incline" means an inclined passage or road either on the surface or belowground

Z4) "intrinsically safe" shall have the same meaning as defined under the Central Electricity Authority Regulations 2010.

Z5) "inset" means a landing or platform in a shaft and includes an excavation therefrom

Z6) "between the top and the bottom of the shaft, ZK) "locomotive" means -

if any locomotive or any stationary or portable engine, or a compressor, boiler or steam apparatus which is or

if any such equipment used for cutting, drilling, loading and transport of material which is or

if any such apparatus, appliance or combination of appliances, is or any intended for developing, storing, transmitting, converting or utilizing energy which is or

if any such apparatus, appliance or combination of appliances, if any power developed, stored, transmitted & converted or utilized therefor is used for intended for use in connection with



Zf 'manager' means a manager appointed under regulation 2F;

Zf 'manufacture' means an individual, association or individuals, company or institution who manufactures machinery, plant, equipment, appliance or substance for use in coal mines;

Zf 'material' includes coal, stone, debris, or any other material;

Zf 'mine' for the purpose of sub-section IV under these regulations, means all excavating work in the mine boundary and all premises within the mine boundary and all premises, plants, machinery and works as specified in clause (i) of sub-section (1) of section 2 of the Act and the same shall collectively constitute a mine;

Zf 'mine' means the fault of episode of an entire change of explosives in a shot hole or blast hole;

Zf 'month' means a calendar month;

Zf 'official' means a person appointed in writing by the Minister, agent or manager to perform duties of supervision in a mine or part thereof and includes an assistant manager or ventilation officer, a safety officer or supervising engineer, a dust in-charge or overman or a binder, an engineer and a surveyor;

Zf 'onsite' means a person appointed to superintend the raising and lowering of person hoists and material and to transmit signals

or any other signals;



Z1) "Overman" means a Person processing a manager or overman's certificate, appointed by the manager in writing; under any designation whatsoever, to perform the duties of supervision or control in a mine or part thereof and is as such superior to a stibart;

Z2) "permitted explosive" means an explosive manufactured by such firm and of such type as the chief inspector may, from time to time specify by a general or special order;

Z3) "pipeline" means a pipeline laid or being used in a mine for the purpose of pumping or supply of water, sand skowing or fiving of material other than sand skowing, nitrogen flushing or for any other purpose including extraction of coal mine methane; Abandoned mine methane and other associated pipelines;

Z4) "principal official" means the senior-most officer in mining discipline on duty in the mine;

Z5) "public road" means the ~~several~~ road maintained for public use and under the just direction of any Government or local authority;

Z6) "quarter" means a period of 3 months ending on the 31st march, 30th June, 30th September and 31st December;

Z7) "railway" means a railway as defined in the railway Act 1989;



ZZa) "Regional Inspector" means an inspector of mines having jurisdiction over a geographical area in which the mine is situated and over which he exercises his power under the Act.

ZZb) "river" means any stream or current of water, whether seasonal or perennial and include its banks extending up to the highest known flood level;

ZZc) "risk" means combination of likelihood of a specific unwanted event and its potential consequences;

ZZd) "roadway" means any part of passage or gallery below ground which is maintained in connection with the working of a mine.

ZZe) "schedule" means schedule appended to these regulations;

ZZf) "shaft" means a way or opening leading from the surface to workings below ground or from one part of the workings below ground to another in which a cage or other means of conveyance can travel freely suspended with or without the use of guideline;

ZZg) "shot-firer" means a person so appointed under regulation 190;

ZZh) "socket" means a shot pole or blast hole or part thereof remaining after being charged with explosive and blasted and which is not known to be a misfired hole;

ZZi) "supplier" means an individual, association of individuals, company or institution who supplies a technology, machinery, plant, equipment, appliance or substance for use in coal mine.



ZZ) "Sub" includes a wagon, cart, truck or any other vehicle or rail for conveying materials;  
ZZK) "Ventilation district" means any part of a mine belowground as has an independent intake airway commencing from a main intake airway and an independent return airway terminating at a main return airway and in the case of a mine part thereof which is ventilated by natural means the whole mine of part;

ZZL) "working" means any excavation made or being made in a mine for search of or obtaining coal;

ZZM) "working place" means any place in a mine to which any person has lawful access;

2) words and expression used in these regulations and not defined herein but defined in the Act shall have the meanings respectively assigned to them under the Act.

DUTIES OF SAFETY OFFICER:

- 1) The duties of the safety officer shall be -  
a) To visit surface and underground parts of the mine with a view to meet the workers on the spot, to talk to them on matters of safety and invite suggestion thereon;  
b) To take charge of the newly recruited staff and show them around the mine pointing out the safe and unsafe acts during of the course of the work in the mine;



- c) to investigate all types of accidents and incidents in the mine including minor accident and analyse the same with a view to pinpoint the nature and common causes for accidents in the mine.
- d) to maintain detailed statistics about mine accidents and to analyse the same with a view to pinpoint the nature and common causes of the accidents in the mine;
- e) to study and apprise the manager of all possible source of danger such as inundation, fire, coal, dust and others;
- f) to hold safety classes and give safety talks and lectures to the members of the superior staff;
- g) to organise the safety weeks and other safety education and propaganda programme in mine;
- h) to see that all concerned mine employees are fully conversant with various standing order (such as those relating to stoppage of mine mechanical ventilators and to the occurrence of a fire or other emergency in the mine) codes of practices and support plan;
- i) to provide assistance in the formulation of programme for training at the mine level including vocational training, cramming in a gas testing and training in first aid etc.



if he report to the manager as a result of his visit to the various part of mine as to whether the provision of the Act, and the rules and regulations made thereunder are being complied with in the mine;

K) to promote safe practices generally and to lend active support to any measure intended for furthering the cause of safety in the mine and follow up measures for compliance to the recommendation of the safety committee and workman's inspector;

L) to assist the manager in any other matter relating to safety in the mine.

2) The safety officer shall ensure that an appropriate emergency plan as required under these regulation is put in place and the requirement of the same are implemented.

3) Except in an emergency, no duties other than those specified above shall be assigned to the safety officer.

4) The safety officer shall maintain in a bound paged book a detailed record of the work performed with every day.



## RESCUE RULES

→ THIS RULE MAY BE CALLED MINE'S RESCUE RULE 1985.

→ THEY SHALL BE APPLIED BELOW GROUND MINES.

→ ON 2ND APRIL 1985.

RESCUE ROOM?

→ RESCUE ROOM MEANS AS ESTABLISHED AND MAINTAIN UNDER RULES 1985.

RESCUE STATION?

→ MEANS ESTABLISHED AND MAINTAIN UNDER THE RULE 3.

RESCUE ATTAINED PERSON?

→ MEANS A PERSON CERTIFIED BY THE SUPERINTEND TO BE RESCUE TRAINED PERSON UNDER SUB-RULES 1 OF RULE 2.

SUPERINTENDED?

→ MEANS A SUPERINTENDED A RESCUE STATION APPOINTED UNDER SUB RULE 2 OF RULE 3.

INSTRUCTOR?

→ MEANS A PERSON APPOINTED AS SUCH A UNDER SUB-RULE 2 OF RULE 3.

RESCUE STATION AND LOCATION OF RESCUE STATION?

→ ESTABLISHMENT AND LOCATION OF RESCUE STATION

(1) THE CHIEF INSPECTOR MAY PERMIT OR REQUIRE THE OWNER OF A BELOW GROUND MINE OR GROUP MINES TO ESTABLISH AND MAINTAIN RESCUE STATION WITH SUCH DESIGNS AND SPECIFICATION AND AT SUCH PLACE/PLACES AS MAY BE CONSIDER NECESSARY IN CONSULTATION WITH THE OWNER.



(2) provide that where there are below ground mines belonging to more than one owner the chief inspector may permit to require two or more owners to jointly establish a common rescue station.

(3) provide further that on the existing rescue station as on the date of coming into force of these rules shall continue to function a period of three years from that date.

sub-rule (3)

2) At every rescue station there shall be appointed one superintendent and at least two instructors and also there shall be maintained a rescue brigade of not less than fifteen rescue trained persons.

3) In case where the absence of the superintendent at a rescue station exceeds 60 days, the owner shall appoint another superintendent.

(4) the owner shall within seven days from the date of assumption or relinquishment of charge by the superintendent inform the chief inspector and the inspector incharge of regions where the mine is situated in Form I.

(5) Functions of rescue station & the functions of rescue station shall include:

(1) Imparting instruction in rescue and recovery work.



A. Improving refreshment arrangements for rescue known person.

(iii) Providing support by 1st's owner rescue teams and or these below ground mines where there is no. rescue room.

5. Establishment and location of rescue room:-

If at every belowground mine where more than 100 person are ordinarily employed below ground and there is no rescue station with in 1st's radius of 35 kms. The owner shall establish and maintain on surface close to mine entrance a rescue room.

Provide that it may be sufficient to provide one rescue room for a number of mines belonging to the same owner where -  
of the total number of person ordinarily employed in below ground workings of all such mines does not exceed 5000, and

(b) The mines are situated radius of 35 kms from and connected by road with rescue room;

→ provided further that the chief inspector may permit the owner of a group of mines having the total number of person ordinarily employed below ground in excess of 5000 to use the rescue room as a rescue station excepting the removal of imparting in the framing in rescue work if such rescue room is -

6. Functions of rescue room:-

A rescue room shall provided facilities for the storage assemble, testing and adjustment of breathing apparatus and other rescue equipment and apparatus and for their speedy repairs for mines.



① Qualification, experience or Superintendent: After coming into force of these rules no person shall be appointed as Superintendent unless he -

- (i) is a rescue trained person
- (ii) has 5 years practical experience of below ground work in mine and;
- (iii) holds a first class manager's certificate of a type not restricted to open cast workings.

② Qualification, experience of instructors:

After the coming into force of these rules no person shall be appointed as instructor unless he -

- (i) is a rescue person
- (ii) has 3 years practical experience or below ground work in mines and
- (iii) hold a manager's certificate of a type not restricted to open cast workings.

③ Duties of instructors:

- (i) under the direction of superintendent the instructor shall -
  - (a) impart course of instructions and practices to persons selected for training in rescue and recovery work as well as to rescue trained persons and maintain a record thereof and;
- (b) make inspection test and adjustment of rescue equipment and apparatus and maintain record thereof;



(14) Duties and responsibilities of rescue room incharge :-

- Every rescue room incharge shall
- a) display prominently a list of mines served by this
  - b) maintain the equipment and apparatus kept at the rescue room in perfect order;
  - c) maintain a proper record of all rescue equipment and apparatus kept at the rescue room and inspection thereof; and
  - d) not allow any ~~un~~ unauthorised person to enter into or permit any unauthorised person to take out any apparatus or equipment from the rescue room.

(15) Duties of rescue trained person posted at rescue station :-

The rescue trained person shall -

- a) Obey orders of the superintendent and instructor and assist them in discharge of their functions;
- b) attend to message telephone calls and wireless and maintain record thereof;
- c) maintain the rescue station in neat and tidy condition
- d) maintain the equipment and apparatus kept at the rescue station in perfect order
- e) perform rescue and recovery work in mines
- f) not leave rescue station without obtaining permission from the superintendent.



## ②⑧ Leader F

Every rescue team engaged in work with breathing apparatus in a mine shall be under a leader who shall be appointed by the superintendent.

## ③① Duties of leader below ground F

(1) The leader shall not engage in manway work. He shall give his attention solely to directing the team and to maintaining its safety. He shall examine the roof and supports during the journey and if there is any likelihood of fall at any place along the roadway shall not proceed further until the team has made the place secure.

(2) The leader shall keep the team together and shall not allow any member of team to stray.

## ③② Rescue team member duties F

(1) The number of person in any rescue team using breathing apparatus in a mine shall not be less than five but more than six, including the leader.

(2) In case there is no provision in any of the breathing apparatus carried by the rescue team for a extension for supply of oxygen to another person from emergency, the team shall carry a self rescuer.

(3) members of rescue team shall in general use the signals prescribed in schedule VIII in communicating to one other.



(4) In travelling with rescue apparatus on, every member of the team shall keep the place given to him when numbering off. If the pace is too quick or if distress is felt, the member shall at once call attention to the fact.

### (24) Duties of manager in emergency:-

(1) On receiving information of any emergency likely to require the service of a rescue team, the manager or in his absence the principal official present at the surface shall immediately:-

- (a) Inform the rescue room or the rescue stations serving the mine for necessary assistance
- (b) Summon rescue trained person employed in the mine
- (c) Inform the owner, agent, or manager of nearby mines to make available the service of rescue trained persons employed there in if so required;
- (d) Inform the rescue station about the nature of the occurrence; stating whether assistance would be needed from the rescue station
- (e) Summon medical assistance; and
- (f) Send information of the occurrence to the Regional Inspector.



(19) All rescue and recovery work at a below ground mine shall be conducted under the control, direction and supervision of the manager of the mine or in his absence the principal official present at the surface.

(20) selection of persons for training in rescue work -

No person shall be selected for training in rescue work unless:-

(i) he is between 21 and 30 years of age and holds a valid first-aid certificate to the standard of the St. John Ambulance Association.

(ii) he is certificated by the manager that he has sufficient underground experience for the purpose of rescue work;

(21) Duties and responsibilities of superintendent:-

(1) The superintendent shall ensure that all the rescue equipment and apparatus kept at the rescue station, rescue rooms and at the entrance of the below ground mine under his control are -

(a) maintained in perfect working order;

(b) inspected by instructors at specified intervals and;

(c) Tests are conducted and adjustments are made.

(2) The superintendent shall be in overall control of the rescue station and the rescue rooms served by such rescue station.



(3) The superintendent shall ensure that adequate stock of the spare parts and supplies are kept for maintaining rescue equipment and apparatus in perfect working order.

(4) The superintendent shall countercheck the records maintained under sub-rule (1) of rule 13.

(6) The superintendent shall make periodical inspection rescue rooms and the apparatus and equipment under his control.

(5) The superintendent shall ensure that person selected for initial training and those under going refresher training receive the prescribed course of instructions and practices and, are issued the credit certificates for the same.

(7) In the event of an emergency at a below ground mine superintendent shall perform such rescue and recovery work as may be assigned to him by manager or in his absence by the principal official present at the surface. He shall within three days of completion of the rescue or recovery work send a report thereof to the regional inspector or the chief inspector.



## SHELTER \* Regulation - 62

→ At every mine where more than 50 persons ordinarily employed there shall be provided adequate and suitable shelters at near loading unloading open cast working, workshop and mine entrance where as on more person ordinary employed for taking food and rest.

→ Provided that any canteen maintain in accordance with this rules may be regarded part of the requirement.

## Regulation - 63

### Standard of shelter:

(A)

i) Every shelters shall have floor area not less than  $14 \text{ m}^2$  and in the case of flat roof a height of less than  $2.5 \text{ m}$  to the part of roof and;

ii) where the roof is sloping on a height of not less than  $1.8 \text{ m}$  to the lower part of the roof and not less than  $3.5 \text{ m}$  to the height part of the roof.

(B) so constructed as to afford effective protection from the weather.

(C) To be constantly provided with adequate supply of cool and wholesome drinking water during working over mine.

(D) Always be maintain clean and tidy condition.



## Provision of Canteen : Regulation - 64

1) At every mine where more than <sup>250</sup> 200 persons are ordinarily employed, if the suitable arrangements approved by him for serving food, drink and other items to the persons employed are provided and maintained in addition to the canteen required under this sub-rule.

2) If in any case the chief inspector or inspector is satisfied that no inconvenience will be caused to the employees concerned if a single canteen is provided to serve neighbouring mines, he may by an order in writing and subject to such conditions as he may specify therein, authorise the owner, agents or manager of such mines provided jointly a single canteen.

## Standard of canteen Regulation - 65

a) Be constructed in accordance with plans and specifications approved by the chief inspector or an inspector.

b) Be situated not less than 15 m<sup>2</sup> from any latrine, boiler house, engine room, coal heap, ash heap or heap of other material and any other source of dust or smoke.

c) Be sufficiently lighted during all hours when open for use.



d) Be provided with a washing place for females, suitably separated or screened to secure privacy.

e) Be white-washed or colour-washed inside the rooms and passages at least once a year and wood work and structural iron or steel work shall be varnished or painted at least once every three years.

f) Be provided that the inside walls of the kitchen shall be white-washed or colour washed once every four months.

#### Furniture and equipment:- Regulation - 66

In every canteen there shall be provided and maintained:-

a) sufficient furniture, utensils and other equipment necessary for its efficient operation.

b) an adequate supply of cool, wholesome drinking water

c) suitable clean clothes per persons cooking and serving food, drink etc.

#### Cleanliness Regulation - 67

1) The canteen and its precincts shall be kept in a sanitary condition.

2) An adequate supply of hot water shall be provided for cleansing utensils and equipment and all furniture utensils.



# Mines Act

## 12) committee :-

(1) The central Government shall, with effect from such date as that Government may, by notification in the Official Gazette, specify in this behalf, constitute for the purpose of this Act, a committee consisting of -

(a) a person in the service of the Government not being the chief inspector or an inspector appointed by the central government to act as chairman;

(b) the chief inspector of mines;

(c) two persons to represent the interests of ~~workers~~ of mines appointed by central government.

(d) two persons to represent the interests of owners of mines appointed by central government

(e) two qualified mining engineers not directly employed in the mining industry appointed by the central government;

provide that one at least of the person appointed under clause (c) shall be for representing the interests of workers in coal mines and one at least of the person appointed under the clause

(d) shall be for representing the interests of owners of coal mines.



(2) without prejudice to the generality of sub-section (F), the central government may constitute one or more committees to deal with specific matters relating to any part of the territories to which this act extends or to a mine or a group of mines and may appoint members thereof and the provision of sub-section (1) shall apply for the constitution of any committee under the sub-section as they apply for the constitution of a committee under the sub-section.

(3) no act or proceeding of a committee shall be invalid by reason only of the existence of any vacancy among its members or any defect in the constitution thereof.

### 13. Functions of the committee:-

(1) The committee constituted under sub-section (1) of section 12 shall-

(a) consider proposals for making rules and regulation under this act and make appropriate recommendations to the central government.

(b) enquire into such accidents or other matters as may be referred to it by the central government from time to time and make reports there on; and



(c) subject to the provision of sub section (2) here and decide such appeals or objections against notices or orders under this act or the regulations, rules or bye-laws thereunder, as are required to be referred to it by this act or as may be prescribed

(2) The chief inspector shall not take part in the proceedings of the committee with respect to any appeal or objection against an order or notice made or issued by him or act in relation to any matter pertaining to such appeal or objection as a member of the committee.

#### 14. Power of the committees:

(1) A committee constituted under section 12 may exercise such of the powers of an inspector under this act as it thinks necessary or expedient to exercise for the purpose of discharging its functions under this act.

(2) A committee constituted under section 12 shall for the purpose of discharging its function have the same powers as are vested in a court under the code of civil procedure 1908 when ~~trying~~ trying a suit in respect of the following matters namely-

- (a) discovery and inspection;
- (b) enforcing and attendance of any person and examining him on oath;
- (c) compelling the production of documents; and
- (d) such other matters as may be prescribed