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# **QUICK REVISION NOTES ON MINE LEGISLATIONS**

COMPILED BY

**P C SAHOO & SACHIN VERMA**

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# NUMERIC

in

## Mine Legislation

Ammended with latest CMR-2017

Compiled by  
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Coal India, SECL, Bishrampur

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## Few Words

This is a compilation of Numeric and related sections of Act, Rule & Regulation applicable to Indian Coal Mines. Hope it will help the Mining Engineers aspirant of different Competitive Examinations & also the practicing Engineers.

This is the second edition with all amendments of CMR-2017.

Suggestions and comments are invited for further refinement.

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Numeric	Unit	Description
35	No	Act No. 35 of 1952, THE MINES ACT, 1952: An Act to amend and consolidate the law relating to the Regulation of labour and safety in mines.
12	Section	"Committee" means a committee constituted under section 12:
72	Hours	"Reportable injury" means any injury other than a serious bodily injury which involves or in all probability will involve, the enforced absence of the injured persons from work for a period of seventy-two hours or more.
7	Days	"Week" means a period of seven days beginning at midnight on Saturday night or such other night as may be approved in writing for a particular area by the chief inspector or an inspector.]
7,8,9,40,45 and 46	Sections	Act not apply in cases –The provisions of this Act, except those contained in [sections 7,8,9,40,45 and 46] shall not apply to –(b) any mine or part thereof in which excavation is being made for prospecting purposes only and n to for the purpose of obtaining minerals for use or sale :provided that -
20	Persons	(i)not more than twenty persons are employed on any one day in connection with any such excavation.
6,15	Meters	(ii)the depth of the excavation measured from its highest to its lowest point nowhere exceeds six, metres or, in the case of an excavation for coal fifteen metres: and (iii) on part of such excavation extends below superjacent ground ; or gravel, shingle, ordinary sand (excluding moulding sand, glass sand and other mineral sands), ordinary clay (excluding kaolin, china clay or fire clay),building stone, [slate,] road metal, earthy fullers earth, [marl chalk] and lime stone.      Provided that - (i) the working do not extend below superjacent ground: or
6	Meters	(ii) where it is an open cast working – (a)the depth of the excavation measured from its highest to its lowest point nowhere exceeds six metres;
50	Persons	(b) the number of persons employed on any one day does not exceed fifty; and (c)explosives are not used in connection with the excavation.
12	Section	12. Committees :-(1) the central government shall, with effect from such date as that government notification in the official gazette, specify in this behalf constitute for the purposes of this may by notification in the official gazette, specify in this behalf constitute for the purposes of this Act, a committee consisting of- a person in the service of the government to as chairman the chief inspector of mines;
2	Persons	12.Committees (c) two persons to represent the interests of miners appointed by the government;
2	Persona	(b)two persons to represent the interests of owners of mines appointed by the central government;
2	Persons	(e)two qualified mining engineers not directly employed in the mining industry, appointed by central government:      provided that one at least of the persons appointed under clause(c) shall be for representing the interests of the persons appointed under clause(c) shall be for representing the interests of workers in coal mines and one at least of the persons appointed under clause (d) shall be for representing the interests of owners of mines.

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Numeric	Unit	Description
1	Month	16. Notice to be given of mining operations – (1) The owner, agent or manager of a mine shall, before the commencement of any mining operation, give to the Chief Inspector, the [Controller,] Indian Bureau of Mines and the District Magistrate of the district in which the mine is situated, notice in writing in such form and containing such particulars relating to the mine, as may be prescribed. (2) Any notice given under sub -section (1) shall be so given as to reach the persons concerned at least one month before the commencement of any noting operation .
6	Meters	19. Drinking water: (2) All such points shall be legibly marked 'DRINKING WATER' in a language understood by a majority of the persons employed in the mine and no such point shall be situated within [six metres] of any washing place, urinal or latrine, unless a shorter distances is approved in writing by the Chief Inspector.
24	Hours	23. Notice to be given of accidents : - (3)[The Central Government may, by notification in the Official Gazette, direct that accidents other than those specified in sub -sections(1) and (1A) which cause bodily injury.
20	Days	(4) A copy of the entries in the register referred to in sub section (3) shall be se nt by the owner, agent or manager of the mine, [on or before the 20th day of January in the year following that to which the entries relate] to the Chief Inspector.
72	Hours	[(5) Whenever there occurs in or about a mine an accident causing loss of life or serious bodily injury to any person, the place of accident shall not be disturbed or altered before the arrival or without the consent of the Chief Inspector or the Inspector to who notice of the accident is required to be given under sub-section(1) of section 2 3, unless such disturbances of alteration is necessary to prevent any further accident to remove bodies of the deceases; or to rescue any person from danger, or unless discontinuance of work at the place of accident would seriously impede the working of the mine; Provided that where the Chief Inspector or the said Inspector fails to inspect the place of accident, within seventy -two hours of the time of the accident, work may be resumed at the place of the accident."]
6	Days	28. Weekly day of rest :-No person shall be allowed to work in a mine for more than six days in any one week.
1,2	Month	29. Compensatory days of rest : -(1) Where in pursuance of action under section 38 or as a result of or the persons employed therein is from the provisions of section 28, any person exempting any mine employed therein deprived of any of the weekly days of rest for which pro vision is made in section 28, he shall be allowed, within the month in which such days of rest was due to him or within the two months immediately following that month, compensatory days of rest equal in number to the days of rest of which he has been deprived.
48	Hours	30. (1) No adult employed above ground in a mine shall be required or allowed to work for more than forty- eight hours in any week or for more than nine hours in any day:

Numeric	Unit	Description
12,5,14	Hours	(2) The periods or work of any such adult shall be so arranged that along with his interval for rest, they shall not in any day spread over more than twelve hours, and that he shall not work for more than five hours continuously before he has had an interval for rest of at least half an hour: [Provided that the Chief Inspector may, for reasons to be recorded in writing and subject to such conditions as he may deem fit to impose, permit the spread over to extend over a period not exceeding fourteen hours in any day.]
2	Shifts	[(3) Persons belonging to two or more shifts shall not be allowed to do work of the same kind above ground as the same time:
48,8	Hours	[31. Hours of work below grounds:-(1) No person employed below ground in a mine shall be allowed to work for more than forty-eight hours in any week or for more than eight hours in any day;
24	Hours	[32. Night shifts :-Where a person employed in a mine works on a shift which extends beyond (a) for the purposes of sections 28 and 29, a weekly day of rest shall mean in his case a midnight –period of twenty-four consecutive hours beginning when his shift ends.
48	Hours	[33. Extra wages for overtime: -(1) Where in a mine a person works above ground for more than nine hours in any day or works below ground for more than eight hours in any day or works for more than forty-eight hours in any week. Whether above ground or below ground, he shall in respect of such overtime work be entitled to wages at the rate of twice his ordinary rate of wages the period of overtime work being calculated on a daily basis or weekly basis whichever is more favourable to him.]
12	Hours	[34. Prohibition of employment of certain persons : No person shall be required or allowed to work in a mine if he has already been working in any other mine within the preceding twelve hours.
10	Hours	[35. Limitation of daily hours of work including over -time work: no person employed in a mine shall be required or allowed to work in the mine for more than ten hours in any day inclusive of overtime]
7	Days	(4) Where it is proposed to make any alteration in the time fixed for the commencement or for the end of work in the mine generally or for any relay or in the rest intervals fixed for persons employed above ground, an amended notice in the prescribed form shall be posted outside the office of the mine not less than seven days before the change is made, and a copy of such notice shall be sent to the Chief Inspector not less than seven days before such change.
18	Years	[40. Employment of persons below eighteen years of age :-(1) After the commencement of the Mine (Amendment) Act, 1983, no person below eighteen years of age shall be allowed to work in any mine or part thereof.
16	Years	(2) Notwithstanding anything contained in sub -section (1), apprentices and other trainees, not below sixteen years of age, may be allowed to work, under proper supervision, in a mine or part thereof by the manager:

Numeric	Unit	Description
16	Years	[43. Power to require medical examination : -(1) Where an Inspector is of opinion that any person employed in a mine otherwise than as apprentice or other trainee is not an adult or that any person employed in a mine as an apprentice or other trainee is either below sixteen years of age or is no longer fit to work, the Inspector may serve on the manager of the mine a notice requiring that such person shall be examined by a certifying surgeon and such person shall be examined by a certifying surgeon and such person shall not, if the Inspector so directs, be employed or permitted to work in any mine until this has been so examined and has been certified that he is an adult or, if such person is an apprentice or trainee that he is not below sixteen years of age and is fit to work.
18	Years	[45. Prohibition of the presence of persons below eighteen years of age in a mine :- Subject to the provisions of sub- section(2) of section 40, after such date as the Central Government may b y notification in the official Gazette, appoint in this behalf, no person below eighteen years of age shall be allowed to be present in any part of a mine above ground where any operation connected with or incidental to any mining operation is being carried on”]
6,7	Time	[46. Employment of women :-(1) No woman shall, notwithstanding anything contained in any other law, be employed-(a) in any part of a mine which is below - ground. (b) In any mine above ground except between the hours 6 am and 7 am.
11	Hours	(2) Every woman employed in a mine above ground shall be allowed an interval of not less than eleven hours between the termination of employment on any one day and the commencement of the next period of employment.
12	Month	Calendar year shall mean the period of twelve months beginning with the first day of January in any year.
1,15,1,20	Days	52. Annual leave wages :-(1) Every person employed in a mine who has completed a calendar year's service therein shall be allowed, during the subsequent calendar year leave with wages, calculated -(a) in the case of a person employed below ground, at the rate of one day for every [fifteen days] of work performed by him, and (b) in any other case, at the rate of one day for every twenty days of work performed by him.
190,240	Days	(2) A calendar year's service referred to in sub -section(1) shall be deemed to have completed: -(a) in the case of a person employed below ground in a mine, if he has during the calendar year put in not less than one hundred and ninety attendances at the mine; and (b) in the case of any other person, if he has during the calendar year put in not less than two hundred and forty attendances at the mine.
12	Weeks	(b) in the case of a female employee, maternity leave for any number of days not exceeding twelve weeks; and
1/2, 2/3	Attendance	(3) A person whose service commences otherwise than on the first day of January shall be entitled to leave with wages in the subsequent calendar year at the rates specified in sub-section(1), if -(a) in the case of a person employed below ground in a mine, he has put in attendances for not less than one half of the total number of days during the remainder of the calendar year: and (b) in any other case, he has put in attendances for not less than two-thirds of the total number of days during the remainder of the calendar year.

Numeric	Unit	Description
30	Days	The total number of days of leave which may be accumulated by any such person shall not at any one time exceed thirty days in all.
15	Days	(5) Any such person may apply in writing to the manager of the mine not less than fifteen days before the day on which he wishes his leave to begin, for all leave or any portion thereof then allowable to him under sub -section (1), (3) and (4).Provided that the number of times in which leave may be taken during any one calendar year shall not exceed three.
3,500	Month, Rupees	63. Obstruction -(1) Whoever obstructs the Chief Inspector and inspector or any person authorised under section 8 in the discharge of his duties under this Act. refuses or willfully neglects to afford the Chief Inspector, Inspector or such person any reasonable facility for making any entry, inspection, examination or inquiry authorised by or under this Act in relation to any mine shall be punishable with imprisonment of a term which may extend to three months, or with fine which may extend to five hundred rupees, or both.
300	Rupees	(2) Whoever refuses to produce on the demand of the Chief Inspector or any registers or other documents kept in pursuance of this Act. or prevents or attempts to prevent or does any thing which he has reason to believe to be likely to prevent any person from appearing before or being examined by an inspecting officer acting in pursuance of his duties under this Act, shall be punishable with fine which may extend to three hundred rupees.
3,1000	Months, Rupees	64. Falsification of records – Penalty for falsification of records.
1, 200	Months, Rupees	65. Use of false certificates of fitness - Penalty for Use of false certificates of fitness.
1000	Rupees	66. Omission to furnish plans etc.
3, 1000	Months, Rupees	67. Penalty for Contravention of provisions regarding employment of labour -
500	Rupees	68. Penalty for employment of persons below eighteen years of age
3, 2000	Months, Rupees	69. Penalty for Failure to appoint manager -
3, 5000	Months, Rupees	70. Notice of accidents : (1) Whoever in contravention of the provision of sub-section (1) of section 23 fails to give notice of any accidental occurrence or to post a copy of the notice on the special notice board referred to in that sub-section and to keep in there for the period specified shall be punishable with imprisonment for a term which may extend to three months, or with fine which may extend to five hundred rupee or with both.
3, 5000	Months, Rupees	70. Notice of accidents : (2) Whoever in contravention of a direction made by the Central Government under subsection (3) falls to record in the prescribed register to give notice of any accidental occurrence shall be punishable with imprisonment for a term which may extend to three months or with fine which may extend to three months or with fine which may extend to five hundred rupees, or with both.

Numeric	Unit	Description
21	Days	71. Owner etc. to report to Chief Inspector in certain cases Where the owner, agent or manager of a mine, as the case may be, has taken proceeding under this Act against any person employed in or about a mine in respect of an offence under this Act, he shall within twenty-one days from the date of the judgement or order of the court report the result thereof to the Chief Inspector.
6, 2000	Months, Rupees	72A. Special provision for contravention of certain regulations - Whoever contravenes any provision of any regulations or of any bye-law or any order made thereunder, relating to matters specified in clauses (d),(l),(m),(n),(o),(p),(r), (s) and (u) of section 7 shall be punishable with imprisonment for a term which may extend to six months or with fine which may extend to two thousand rupees or with both.
2, 5000, 2000	Years, Rupees	72B. Special provision of contravention of order under section 22. Whoever continues to work a mine in contravention of any order issued under subsection (1A), sub-section (2) or sub-section(3) of section 22 or under sub-section (2) of section 22 shall be punishable with imprisonment for a term which may extend to two years and shall also be liable to fine which may extend to two years and shall also be liable to fine which may extend to five thousand rupees. Provided that in the absence of special and adequate reasons to the contrary to be recorded in writing in the judgement of the court, such fine shall not be less than two thousand rupees.
2, 5000	Years, Rupees	72C. Special provision for contravention of law with dangerous results-(1) Whoever contravenes any provision of the Act or of regulation, rule or bye-law or of any order made under (1A) or sub -section (2) of section (3) of section 22 for under subsection (2) of section 22A shall be punishable - (a) If such contravention results in loss of life, with imprisonment which may extend to two years, or with fine which may extend to five thousand rupees, or with both, or
1, 3000	Years, Rupees	72C. Special provision for contravention of law with dangerous results- (b) If such contravention results in serious bodily injury with imprisonment which may extend to one years, or with fine which may extend to three thousand rupees, or with both; or
3, 1000, 3000	Months, Rupees	72C. Special provision for contravention of law with dangerous results- (c) If such contravention otherwise causes injury or danger to persons employed in the mine or other persons in or about the mine, with imprisonment which may extend to three months or with fine which may extend to one thousand rupees, or with both. Provided that in the absence of special and adequate reasons to the contrary to be recorded in writing in the judgement of the court, such fine, in the case of a contravention referred to in clause (a), shall not be less than three thousand rupees.
3, 1000	Months, Rupees	73. General provision of disobedience of others. Whoever contravenes any provision of this Act or of any regulation, rule or bye-laws or of any order made there under for the contravention of which no penalty is herein before provided shall be punishable with imprisonment for a term which may extend to three months, or with fine which may extend to one thousand rupees, or with both.

Numeric	Unit	Description
Double	Punishment	74. Enhanced penalty after previous conviction – If any person who has been convicted for an offence punishable under any of the foregoing provisions (other than section 72B and 72C) is again convicted for an offence committed within two years of the previous conviction and involving a contravention of the same provision, he shall be punishable for each subsequent conviction with double the punishment to which he would have been liable for the first contravention of such provision.
6	Months	79. Limitation of prosecutions – No court shall take cognizance of any offence under this Act, unless complaint thereof has been made – (i) within six months of the date on which the offence is alleged to have been committed, or (ii) within six months of the date on which the alleged commission of the offence came to the knowledge of the Inspector,





Mines Rules-1955

Numeric	Unit	Description
02.07.1955	Date	SRO. 1421 dated 2nd July, 1955 – In exercise of the powers conferred by Section 58 of the Mines Act, 1952 (35 of 1952), the Central Government hereby makes the following rules the same having been previously published as required by sub-section (1) of Section 59 of the Act
35	Section	“The Act” means the Mines Act, 1952 (35 of 1952):
3	Years	<b>[COMMITTEE]</b> <b>[3. Term of office</b> - The term of office of the members referred to in clause (c), (d) and (e) of sub section (1) of section 12 of the Act, shall be three years from the date on which their appointment is notified in the official Gazette:
6	Months	<b>8. Absence from India</b> - (1) Before a member leaves India (a) he shall intimate to the Chairman the date of his departure from and the date of his expected return to India; and (b) if he intends to be absent from India for a period longer than six months, he shall tender his registration.
3	Members	<b>10. Disposal of business</b> - (2) When a question is referred by circulation of papers, any member may request that the question be considered at a meeting of the 1[Committee] and thereupon the Chairman may direct that it be so considered: Provided that if three or more members make such a request, the Chairman shall direct that it be so considered.
14,7,2	Days	<b>12. Notice of meetings</b> - (1) The Secretary to the 1[Committee] shall give at least <b>fourteen days'</b> notice to every member of the 1[Committee] present in India of the time and place fixed for each meeting and shall send to every such member agenda of business to be disposed off at that meeting, not less than <b>seven days</b> before the meeting : Provided that when an emergent meeting is called, at least <b>two days'</b> clear notice shall be given.
4	Members	<b>14. Quorum</b> – No business shall be transacted at a meeting of the 1[Committee] unless at least four members including are present;
6	Months	<b>28. Fresh examination</b> - (1) If any person sent up for medical examination in pursuance section 43 2 is not certified to be fit by the Certifying Surgeon, he shall not without the permission in writing of an Inspector, be sent for another medical examination unless a period of <b>six months</b> has elapsed from the time when he was last sent up for medical examination.
6	Months	<b>29A Applicability of this Chapter</b> - Nothing in this Chapter shall apply to persons who are employed purely on temporary or causal basis for a continuous period not exceeding six months.
5	Years	(b) for the periodical medical examination thereafter of every person employed in the mine at intervals of not more than five years.
12	Months	[Provided that for the persons who are engaged in the process of mining or milling of asbestos, periodic medical examination shall be done at least once in every twelve months and every such examination shall include all the tests in Form “P” of the First Schedule except the X- Ray examination, which shall be carried out once in every three years.
12	Days	<b>29D. Notice of medical examination</b> - (1) In respect of every medical examination under rule 29B, the manager of the mine concerned shall give at least twenty days' prior notice in writing to the person to be examined, in Form M, provided that in case of the initial medical examination of a person seeking employment at a mine, the period of notice may be shorter.

MR-1

Numeric	Unit	Description
10	Days	(3) A person, who for any reasonable cause, fails to submit himself for a medical examination or in accordance with the notice issued to him under sub-rule(i), shall be given a second notice of a minimum period of ten days in Form N, by the manager and a copy of every such notice shall be sent by the manager to the examining authority.
60	Days	Provided further that in case of any dispute, the same shall be referred to the Chief Inspector for his decision within 60 days of the order communicated by the owner, agent or manager of the mine to the said person.
60	Days	Provided further that in case of any dispute, the same shall be referred to the Chief Inspector for his decision within 60 days of the order communicated by the owner, agent or manager of the mine to the said person.
30	Days	<b>29J. Appeal for re-examination</b> - (1) Where as a result of an initial medical examination under clause (a), or of periodical medical examination under clause (b) of rule 29B, a person has been declared unfit for employment in mines or in particular category of mines or in any specified operations in mine , he may, within thirty days of the receipt by him of a copy of the Certificate referred to in sub-rule(2) of rule 29F, file an appeal with the manager of the mine against the declaration aforesaid, and request for a medical re -examination by an Appellate Medical Board constituted under rule 29K.
30, 15	Days	(2)(a) The manager shall arrange to have the appellant medically re -examined by the Appellate Medical Board within thirty days of the receipt of the Appeal, and shall give to the Appellant fifteen days' prior notice of the medical re-examination by the Appellate Medical Board in Form Q.
30	Days	(c) A person who has, without reasonable cause, fails to submit himself for a medical re -examination in accordance with a notice given to him under clause (b) shall cease to be in employment at the mine or in a particular category of mines or in any specified operations in mine, as the case may be, after the expiry of thirty days from the last date notified for his medical re-examination.
1,2	Person	<b>29K. Constitution of Appellate Medical Board</b> - For the purpose of medical re - examination on appeal, the Appellate Medical Board shall consist of the following officers, namely: (a) One duly qualified Medical Officer in the employment of the Directorate General of Mines Safety who shall also act as the Convenor of the Board. (b) One Medical Officer duly qualified in allopathic system of medicine to be nominated by the Chief Inspector in consultant with the Welfare Organisation set up by the Central Government for the persons employed in the mine. (c) One Medical Officer duly qualified in allopathic system of medicine employed in the State or Central Government or a Government undertaking and not below the rank of Assistant Civil Surgeon. Provided that if a Medical Officer under clause (b) or clause (c) is not available, the Appellate Medical Board shall be constituted with two persons only.
20	Day	<b>29P. Annual returns</b> - (1) On or before the <b>20th day of February</b> every year, the manager of every mine shall submit to the Chief Inspector annual returns in respect of the preceding calendar year in Form T.

Numeric	Unit	Description
60, 030	Days	(2) If a mine is abandoned or working thereof is discontinued over a period exceeding sixty days or if a change occurs in the ownership of a mine, the returns required under sub rule (1) shall be submitted within thirty days of abandonment or change of ownership or within ninety days of discontinuance, as the case may be.
500	Persons	<b>29Q Workmen's Inspector</b> - (1) (a) For every mine wherein 500 or more persons are ordinarily employed, the owner, agent or manager shall designate three suitably qualified employees of the mine in consultation with the registered trade union in the mine and where there are more than one registered trade unions, the union recognised as per procedure in practice or the most representative union as per the membership records available at that point of time ,and if there are no registered trade unions, in consultation with the elected representative of the workmen, as technical experts, to carry out inspection of the mine on behalf of the workers employed therein, one each for mining operations, electrical installations and mechanical installations. When the number of persons employed in a mine exceeds 1500, the Workmen's Inspector shall be assisted by one additional Workmen's Inspector in mining discipline for every additional 1000 persons or part thereof.
5, 2	Years	<b>Workmen's Inspector</b> - (b) he has at least five years of experience in mines including at least two years in workings of the mines for which he is nominated,
3	Years	(7) A Workmen's Inspector nominated under sub-rule(1) shall, unless he resigns from his office, hold office for a period of three years from the date of his nomination and shall be eligible for one re-nomination.
15	Days	<b>29S. Action on the report of Workmen's Inspector</b> - (1) The owner, agent or manager of the mine shall enter in the register mentioned in sub-rule (2) of rule 29R, within a period of 15 days from the date of entry in the register, remarks thereon showing the remedial measures taken and the date on which such action was taken.
100	Persons	<b>29T Safety Committee</b> - For every mine wherein more than 100 persons are ordinarily employed, the owner, agent or manager shall constitute a Safety Committee for promoting Safety in the mine;
5	Persons	<b>29U Composition of Safety Committee</b> _ The Safety Committee shall consist of :- (a) the manager who shall be the Chairman ; (b) five officials or competent persons of the mine nominated by the Chairman ; (c) five workmen nominated by the workmen of the mine in accordance with the procedure prescribed in clause (a) of sub-rule(1) of rule 29Q for nomination of Workmen's Inspector; (d) Workmen's Inspector where so designated; and (e) the Safety Officer, or where there is no Safety Officer, the senior most mine official next to the manager, who shall act as Secretary to the Committee;
30	Days	<b>Safety Committee</b> - 5) to meet at least once in 30 days to consider the matter placed before it and any other matter that may be raised by the members and make such recommendations as it may deem fit
15	Days	<b>29W Implementation of recommendations of the Safety Committee</b> - The owner, agent or manager shall, within a period of 15 days from the date of receipt of the recommendations of the Safety Committee, shall indicate to the Secretary to the Safety Committee, the action taken to implement the recommendations.]

Numeric	Unit	Description
2	Liters	<b>30. Quantity of drinking water</b> - (1) The quantity of drinking water to be provided in a mine or any part thereof shall be on a scale of at least two liters for every person employed at any one time and such drinking water shall be readily available at conveniently accessible points during the whole of the working shift.
100	Persons	(2) Where 100 persons or more are employed, either above ground or in opencast workings, at any one time, an Inspector may by order in writing require the drinking water to be effectively cooled by mechanical or other means available.
50	Persons	<b>33. Surface latrines and urinals.</b> -(2) The scale of latrine accommodation shall be at least one seat for every 50 males and at least one seat for every 50 females employed at one time;
50	Persons	<b>Note</b> – In calculating latrine accommodation, any fraction less than 50 shall be reckoned as 50.
1.25	Meters	<b>34. Standards of constructions</b> .- e) the floor and any interior surface of walls up to a height of 1.25 Meters shall be cement punned or otherwise so finished as to provide a smooth impervious surface ,
4	Months	h) the interior walls, ceilings and partitions shall be white-washed once at least in every four months, and the date of such white-washing shall be recorded in a book kept at the mine for the purpose;
7	Days	Provided that this requirement regarding white-washing shall not apply to those parts of walls, ceilings or partitions which are laid in glazed tiles or otherwise finished so as to provide a smooth polished and impervious surface but all these parts shall be washed with suitable detergents and disinfectants at least once in every seven days.
50	Persons	<b>37. Underground latrines</b> - If in any mine more than fifty persons are employed underground at any one time, latrines shall be provided underground on a scale approved by an Inspector at convenient points near the working shafts and at entrances to the districts or sections of the mine. The latrines shall be of a type approved of in writing by an Inspector.
150	Persons	<b>43. 2[First-aid] rooms</b> (1) At every mine employing more than 150 persons on any one day of the preceding calendar year, there shall be provided and maintained in good order a suitable first-aid room.
10	square meters	(3) The 4[first-aid] room shall have a floor space of not less than 10 square meters and shall contain at least the equipment specified in the Second Schedule
1000	Employees	(4)(a) The first-aid room shall be in charge of a qualified medical practitioner, where the number of persons ordinarily employed in a mine is more than 1000, such medical practitioner shall be a whole time employee at the mine.
50	Persons	<b>44. First aid stations</b> .- (iv) at every other place where more than 50 persons are employed at any one time.
300	Meters	<b>First aid stations</b> .- Provided that nothing in this sub-rule shall be construed to require the provision of a first-aid station within 300 meters of another first-aid station.
24	Hours	<b>47. Weekly day of rest</b> – (1) For the purpose of sections 28 and 29, a day of rest for any person shall mean period of rest of at least 24 consecutive hours.

Numeric	Unit	Description
2	Days	<b>49. Compensatory days of rest –</b> (1) The compensatory days of rest to be allowed under sub-section (1) of section 29 shall be so spaced that in any one week not more than two such days shall be allowed to any one person.
2	Months	(2) On or before the last day of every month, there shall be displayed on a notice board outside the office of the mine a list of all persons who have not been allowed compensatory days of rest during that month, and the dates on which compensatory days of rest will be allowed to them in the following two months.
16, 18	Years	<b>52. Employment of apprentices and trainees -</b> No apprentice or trainee of the age of sixteen to eighteen years shall be employed in a mine except under immediate supervision of a competent person and no such apprentice or trainee shall be employed in a mine-
2	Years	<b>53. Register of leave with wages –</b> (2) The register mentioned in sub- rule (1) shall be preserved for a period of two years after the last entry in them has been made and shall not be destroyed even after the expiry of that period unless it has been certified by an Inspector that the leave account therein has been properly transferred to the new registers.
20	Day	<b>54. Information regarding leave with wages -</b> On or before the 20th day of February every year the owner, agent or manager of a mine shall exhibit on the notice board at the office of the mine information regarding leave with wages due to each person employed in the calculated upto the 1st January of that year giving the particulars specified in Form L.
30	Minutes	<b>60. Extra Wages for overtime -</b> [(2)] In calculating overtime on any day, a fraction of an hour less than 30 minutes shall be ignored and a fraction of 30 minutes or more shall be counted as one hour.
1/26	Rate	<b>60. Extra Wages for overtime-[(3)]</b> In calculating the ordinary rate of wages or earnings in the case of a person paid by the month, the daily wages shall be 1/26th of his monthly rate of wages; and in the case of any other person it shall be the ordinary rate of his daily wages or earnings as the case may be.
50, 25	Persons	<b>[62. Provision of shelters -</b> At every mine where more than 50 persons are ordinarily employed, there shall be provided adequate and suitable shelters at or near loading wharves, opencast workings, workshops and mine entrances where 25 or more persons are ordinarily employed for taking food and rest ;
14	Sq. Meter	<b>63. Standards of Shelters -(a)</b> have a floor area of not less than 14 square metres;
2.5, 1.8	Meters	<b>63. Standards of Shelters [(i)]</b> in the case of flat roof a height of not less than 2.5 metres to the lowest part of the roof; and(ii) where the roof is a sloping one, a height of not less than 1.8 metres to the lowest part of the roof and ofnot less than 2.5 metres to the highest part of the roof;]
250	Persons	<b>64. Provision of Canteens -</b> (1) At every mine where in more than 250 persons are ordinarily employed, if the Chief Inspector or an Inspector so requires, there shall be provided and maintained in or adjacent to the precincts of the mine, a canteen for the use of all persons employed ;
15	Meters	<b>65. Standards of canteen –(b)</b> be situated not less than 15 metres from any latrine, urinal, boiler house, engine room, coal heap, ash heap or heap of other material and any other source of dust or smoke;

Numeric	Unit	Description
1, 3	Years	<b>65. Standards of canteen</b> –(e) be white-washed or colour washed inside the rooms and passages at least once a year, and woodwork and structural iron or steel work shall be varnished or painted at least once every three years;
4	Months	<b>65. Standards of canteen</b> –(Provided that the inside walls of the kitchen shall be white washed or colour-washed once everyfour months.
1000,5,2	Persons	<b>69. Canteen Managing Committee</b> -(2) (a) The Committee Shall consist of an equal number of members nominated by the owner, agent 'or [officer in-charge canteen] and elected by the persons employed in the mine. The number of elected members shall be on a scale of one for every 1000 persons employed, provided that the number shall not be more than 5 or less than 2.
500,2500, 2000	Persons	<b>72. Welfare Officer</b> – 2[(1) For every mine wherein 500 or more persons are ordinarily employed the owner, agent or manager shall appoint a suitably qualified person as Welfare Officer, and where the number of persons so employed in a mine exceeds 2500, such Welfare Officer shall be assisted by one suitably qualified additional Welfare Officer for every additional 2000 persons or part thereof employed.]
30	Days	(3) Where by reason of temporary absence, illness or any other similar cause, the Welfare Officer is unable to perform his duties, the owner, agent or manager shall authorise in writing person whom he considers competent, to act in his place ; Provided that no such authority shall have effect for a period in excess of 30 days except with the previous consent of the Chief Inspector.
7	Days	(4) A written notice of every appointment, authorisation, discharge, dismissal, resignation or termination of service of every Welfare Officer and of the date thereof shall be sent by the owner, agent or manager to the Chief Inspector within seven days from the date of such appointment, authorisation. discharge, dismissal, resignation or termination of service.
200	Rupees	(3) A Welfare Officer shall not be given less than two hundred rupees as his basic pay per mensem.
	<b>FORM – A</b>	<b>(See Rule 48(1) - Notice of commencement and end of work</b>
	<b>FORM – B</b>	<b>(See Rules 48(3), 51, 77 and 77.A(2) –Details of employees</b>
	<b>FORM – C</b>	<b>[See Rule 48(3) and 78] -Register of persons employed below ground during the weak commencing.....and ending.....19.....</b>
	<b>FORM – D</b>	<b>[See Rule 48(3) and 78] - Register of persons employed 1[above ground] opencast working during the week commencing.....and ending.....19.....</b>
	<b>FORM – E</b>	<b>[See Rule 48(3) and 78] - Register of persons employed above ground 1[otherwise than in opencast working] during the week commencing----- and ending .... 19</b>
	<b>FORM - F</b>	<b>[See Rule 49(4)] - Register of Compensatory Days of Rest</b>
	<b>FORM – G</b>	<b>(See Rules 53)- Register of Leave Account during the Calendar Year.....</b>
	<b>FORM – H</b>	<b>(See Rule 53) - Register of Leave Account during the Calendar Year.....</b>
	<b>FORM – I</b>	<b>(See Rules 59) - Register of Overtime Wages</b>
	<b>FORM – J</b>	<b>See Rule 76 (1) - * (Return of Reportable accident)</b>
	<b>ANNEXURE– 1</b>	<b>Classification of Accident - By place of work (Column – 5)</b>
	<b>ANNEXURE– II</b>	Classification of accidents by cause (Column 6)

Numeric	Unit	Description
	<b>FORM – K</b>	<b>[See Rule 76 (2)] - Return of Minor Accidents</b>
	<b>FORM – L</b>	<b>(See Rule 54) - Information regarding leave with Wages</b>
	<b>FORM - M</b>	<b>(See rule 29D (1) - Notice of initial/ periodical medical examination under rule 29B</b>
	<b>FORM – N</b>	<b>{See rule 29D (S)} - Second and final notice of initial/periodical medical examination under rule 29 B</b>
	<b>FORM – O</b>	<b>(See rule 29F (2) and 29L) - Report of medical examination under rule 29B (To be issued in triplicate)**</b>
	<b>FORM – P</b>	<b>(See rule 29F (i) and 29L)- Medical Standard of fitness for Persons Employed</b>
	<b>FORM – P-I</b>	<b>(See rule 29F(1) and 29L) Medical standard of fitness for persons to be employed in mines.</b>
	<b>FORM – Q</b>	<b>(See rule 29J(2) 9 (a)) Notice of medical re-examination by Appellate Medical Board</b>
	<b>FORM – R</b>	<b>(See rule 29J(2) (b) ) Second and final notice of medical re-examination by Appellate Medical Board</b>
	<b>FORM – S</b>	<b>(See rule 29L) Report of medical re-examination by Appellate Medical Board</b>
	<b>FORM – T</b>	<b>(See rule 29-P(i)) Annual Return for the year ending on the 31st December</b>
	<b>FORM – U</b>	<b>(See rule 29R and S) Report of WI</b>





Numeric	Unit	Description
57	Section	<b>G.S.R. 1449(E).</b> —Whereas the draft of certain regulations which the Central Government proposes to make, in exercise of the powers conferred by section 57 of the Mines Act, 1952 (35 of 1952) and on the recommendations of the Committee constituted under section 12 of the said Act
20	Years	<b>2 (m)</b> “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 firer;
0.1	Percentage	<b>2 (za)</b> “gassy seam of the first degree” means a coal seam or part thereof lying within the precincts of a mine not being an open cast working whether or not inflammable gas is actually detected in the general body of the air at 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;
0.1 / 10	% / Cu M	<b>2(zb)</b> “gassy seam of the second degree” means a coal seam or part thereof lying within 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 one cubic meter but does not exceed ten cubic meters;
10	Cu M	<b>(zc)</b> “gassy seam of the third degree” means a coal seam or part thereof lying within 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 ten cubic meters;
7	Days	<b>3. Notice of opening.</b> - <b>(1)</b> Provided that in case of change in the boundary of a mine under regulations 121 and 122, a plan showing the new boundary shall be submitted within seven days of the said change.
1	Day	<b>4. Annual returns.</b> - <b>(1)</b> On or before 1st day of February in every year, the owner, agent or manager shall submit to the Chief Inspector, the Regional Inspector and to the District Magistrate annual returns in respect of the preceding year in the Form
60,30,90	Days	<b>(2)</b> If a mine is abandoned or closed or workings thereof is discontinued over a period exceeding sixty days or if a change occurs in the ownership of a mine, the returns required under sub-regulation (1) shall be submitted within thirty days of such abandonment or closure or change of ownership or within ninety days of discontinuance, as the case may be.
60, 30	Days	<b>5. Notice of abandonment, closure or discontinuance.</b> - <b>(1)</b> When it is intended to abandon or close a mine or seam or to discontinue workings thereof for a period exceeding sixty days, the owner, agent or manager shall give a notice in the Form and method as may be specified by the Chief Inspector for the purpose, to the Chief Inspector, the Regional Inspector and to the District Magistrate stating the reasons for such abandonment, closure or discontinuance and the number of persons likely to be affected thereby, not less than thirty days before such abandonment or discontinuance:
60	Days	<b>Provided</b> When on account of unforeseen circumstances a mine is abandoned or discontinued before the said notice has been given or when without previous intention the discontinuance extends beyond a period of 60 days, the notice shall be given forthwith.

Numeric	Unit	Description
60,30	Days	<b>(2)</b> Notwithstanding anything contained in sub-regulation (1), when it is intended to abandon, close or discontinue for more than sixty days any working belowground over which is situated any property vested in the Government or any local authority or any railway or any building or permanent structure not belonging to the owner, the owner, agent or manager shall, not less than thirty days before the date of such abandonment, closure or discontinuance give notice of his intention to the Chief Inspector and the Regional Inspector.
60	Days	<b>(3)</b> When a mine or seam has been abandoned, or the working thereof has been discontinued over a period exceeding 60 days, the owner, agent or manager shall, within seven days of the abandonment or of the expiry of the said period, give to the Chief Inspector, the Regional Inspector and the District Magistrate notice in Form
60,30	Days	<b>6. Notice of reopening.-</b> <b>(1)</b> When it is intended to reopen a mine or seam after abandonment, closure or discontinuance for a period exceeding sixty days, the owner, agent or manager shall, not less than thirty days before resumption of mining operations, give to the Chief Inspector, the Regional Inspector and to the District Magistrate notice in the Form
7	Days	<b>7. Notice of change in ownership and appointment of agent, manager, etc.-</b> <b>(1)</b> When a change occurs in the name or ownership of a mine or in the address of the owner, the owner, agent or manager shall, within seven days from the date of the change, give to the Chief Inspector and the Regional Inspector a notice in the Form
24	Hours	<b>8. Notice of dangerous occurrence or accident.-</b> <b>(1)</b> When there occurs in or about a mine,(b) a readily identifiable event with potential to cause an injury to persons at work, hereinafter referred to as "dangerous occurrence", such as – <b>(xix)</b> spark generated due to electrical flash-over causing burn injury to any person, the owner, agent or manager shall forthwith inform the Regional Inspector about the occurrence by telephone, fax, e-mail or by special messenger; and shall also, within twenty-four hours of every such occurrence, give notice thereof in the Form and method as may be specified by the Chief Inspector for the purpose, to the District Magistrate, the Chief Inspector and the Regional Inspector and in the case of an accident mentioned in clause (a), also to the Competent Authority for payment of compensation:
24	Hours	<b>(4)</b> If death results from any injury already reported as serious under sub-regulation (1) or if any injury other than the serious injury become serious, the owner, agent or manager shall within 24 hours of his being informed of the same, give notice thereof to
7,14	Days	<b>(5)</b> In respect of every persons killed or injured as above, the owner, agent or manager shall send particulars in the Form and method as may be specified by the Chief Inspector for the purpose, within seven days of the occurrence, and also within fifteen days of the injured person returning to duty.
3	Days	<b>9. Notice of disease.-</b> Where any person employed in a mine contracts any disease notified by the Central Government in the Official Gazette under section 25 of the Act, the owner, agent or manager shall within three days of his being informed of the disease, give notice thereof in the Form and method as may be specified by the Chief Inspector for the purpose, to the Chief Inspector, the Regional Inspector, the Inspector of Mines (Medical)

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Numeric	Unit	Description
5,3	Member, Years	<b>10. Board of Mining Examination:-</b> (2) The Board shall consist of the Chief Inspector, who shall be its Chairman (ex officio), and five members possessing degree in mining engineering; with (b) practical experience of not less than two years in management, control, supervision and direction of a coal mine or part thereof; or
3	Years	(3) Every member of the Board other than its Chairman shall hold office for a period of three years from the date of appointment, or until his successor is appointed, whichever is later:
2	Members	<b>12 (b)</b> When any matter is referred to by circulation of paper under clause (a), any member may request that it should be considered at a meeting of the Board, and the Chairman may direct that it shall be so considered but when two or more members so request, the Chairman shall direct that the matter shall be so considered at a meeting to be held.
60	Days	<b>13. Submission of application.-</b> (1) Application for an examination conducted by the Board shall be made to the Board not less than sixty days prior to the date fixed for the examination in a manner and on a form specified for the purpose.
60	Days	(2) Notice regarding the date and place of the examination for the Manager's Certificate, Surveyor's Certificate and Overman's Certificates shall be published under the order of the Board in such periodicals or by any other means as the Board may direct, not less than sixty days prior to the date fixed by the Board for receiving applications.
20	Years	<b>14. Age limit and general qualifications of candidates.-</b> (1) No person shall be admitted as a candidate at any examination held by the Board unless he is twenty years of age.
6,5	Years	<b>15. Practical experience of candidates for Manager's Certificate examination.-</b> (1) No person shall be admitted as a candidate at any examination for a First or Second Class Manager's Certificate other than an exchange Certificate to which the provisions of regulation 21 apply, unless the Board is satisfied that he has had practical experience in coal mine as prescribed under sub-regulation (2) for a period of not less than six and five years respectively:
5,4,2	Years	<b>Provided that a candidate-</b> (a) who has received a diploma in mining or mining engineering or other equivalent qualification approved in that behalf by the Central Government, such period of experience shall be reduced to five and four years respectively; and (b) who has passed a degree in mining engineering or other equivalent qualification approved in that behalf by the Central Government, such period shall be reduced to two years for First Class Manager's Certificate;
2	Years	<b>16. Practical experience of candidates for Surveyor's Certificate examination.-</b> No person shall be admitted as a candidate at any examination for a Surveyor's Certificate unless he has satisfied the Board that he has had not less than two years' practical experience of surveying of a type the Board may specify, subject to the conditions laid down in bye-laws.
6	Months	<b>Provided that</b> such period shall be reduced to six months in the case of a candidate who has attended classes in theoretical and practical surveying at any educational institution approved by the Board subject to the conditions laid down in bye-laws.
3	Years	<b>17. Practical experience of candidates for Sirdar's examination –</b> (1) No person shall be admitted as a candidate at any examination for a Sirdar's Certificate unless the Board is satisfied that he has had practical experience and training in a coal mine for a period of not less than three years:

Numeric	Unit	Description
1,2	Years	<b>17. (1)Provided that</b> such period shall be reduced to a period of one year in the case of a candidate who has received a diploma or certificate in scientific and mining training after a course of at least two years at an educational institution, or who has taken a degree in scientific and mining subject at a university, approved in that behalf by the Board subject to the conditions laid down in bye-laws.
1	Year	<b>18. Practical experience of candidate for Engine Driver's Certificate.-</b> No person shall be admitted as a candidate at any examination for an Engine Driver's Certificate unless the Board is satisfied that he has had practical experience of driving a winding engine or as an assistant to a qualified winding engine driver for a period of at least one year.
7	Attempt	<b>19. Number of attempts at examination.-</b> No person shall be admitted for examination for a particular certificate beyond seven attempts from the date of coming into force of these regulations.
30	Days	<b>24. Suspension or cancellation of Manager's Certificate, Surveyor's Certificate, Overman's Certificate, Sirdar's Certificate, Engine Driver's Certificate or Gas Testing Certificate.-(6)</b> An appeal shall lie against any order of the Board under this regulation before the Central Government within thirty days of such order.
60,1	Years	<b>25. Validity of certificate for managers and officials, etc.- (1)</b> No person shall act as a manager or an official or a winding engineman in a mine after attaining the age of sixty years unless he has obtained, within the preceding one year, a medical certificate of fitness certifying him fit to carry out the duties prescribed for him in the Act and in these regulations and orders made there under:
60/3	Years/month	<b>Provided that</b> if the Chief Inspector or the Regional Inspector is of the opinion that a person as aforesaid, though less than sixty years of age, is medically unfit to carry on the duties assigned to him in the Act and in these regulations and orders made thereunder, the Chief Inspector or the Regional Inspector may, by an order in writing, require such person to obtain a medical certificate of fitness within such period, not exceeding three months, as he may specify therein; and no such person shall continue to act in any capacity as aforesaid after the period so specified unless he has obtained a medical certificate of fitness.
70	Years	<b>25. (3)</b> Notwithstanding anything contained in sub-regulation (1), no person shall act as manager or an official or a winding engineman in a mine after attaining the age of seventy years.
23	Age	<b>27. Qualification and appointment of manager.- (2)</b> No person shall act or be employed as a manager unless he has attained 23 years of age and is paid by, and is directly answerable to the owner or agent of the mine.
2500,600	Tones	<b>27. (3)</b> Subject to the provisions of sub-regulation (4), no person shall act or continue to act, or be appointed, as manager of a mine or mines the average output of which corresponds to the figures given in column (i) of the table below unless he holds the corresponding qualifications given in column (ii) thereof:

Numeric	Unit	Description	
		(i)	(ii)
		For belowground mines: (a) In excess of 2,500 tonnes per month  (b) Not exceeding 2,500 tonnes per month.	A First Class Manager's Certificate not restricted to opencast mines only.  A First Class Manager's Certificate or Second Class Manager's Certificate not restricted to opencast mines only.
		For opencast mines: (c) In excess of 20,000 cubic meter per months of material handled (d) Not exceeding 20,000 cubic meter material handled per month	A First Class Manager's Certificate.  A First Class Manager's Certificate or Second Class Manager's Certificate:
12	Months	<b>27. (5)</b> No person shall act, or be appointed, as manager of more than one mine except with the previous permission in writing of the Chief Inspector and subject to such conditions as he may specify therein: <b>Provided that</b> no such permission shall have effect for a period exceeding twelve months, unless renewed: <b>Provided further that</b> the Chief Inspector may at any time, by an order in writing, vary or revoke any such permission if the circumstances under which the permission was granted, have altered or the Chief Inspector finds that the manager has not been able to exercise effective supervision in the mines under his charge	
30	Days	<b>27. (6)</b> Where by reason of absence or for any other reason, the manager is unable to exercise daily personal supervision or is unable to perform his duties under the Act or these regulations, or orders made thereunder, the owner, agent or manager shall authorize in writing a person whom he considers competent to act as manager of the mine: <b>(ii)</b> no such authorization shall have effect for a period in excess of 30 days, except with the previous consent in writing of the Chief Inspector and subject to such conditions as he may specify therein;	
30	Days	<b>27. (8)</b> No manager shall vacate his office without giving due notice in writing to the owner or agent at least 30 days before the day on which he wishes to vacate his office:	
60	Days	<b>27.(10)</b> Nothing in sub-regulation (6)shall confer on the owner, agent or manager the right to authorise any person not duly qualified to manage the mine under sub regulation (3) to act as the manager except in case of illness or other cause over which the manager has no control, or except with the previous written permission of the Chief Inspector and subject to such conditions as he may specify therein: Provided that the Chief Inspector shall not permit any such authorisation for a period exceeding sixty days from the date on which the mine is worked without a manager duly qualified under sub- regulation (3).	
5	KM	<b>27.(11)</b> The owner or agent shall provide suitable residential accommodation for the manager and the assistant manager within a distance of five kilometers from all mine openings, and every manager, and assistant manager shall reside in the accommodation so provided:	

Numeric	Unit	Description
5000,20000	Tones, Cubic meter	<b>29. Qualification and appointment of safety officer.</b> - In every belowground mine the average monthly output of which exceeds 5,000 tonnes or in every opencast mine the average monthly material handled of which exceeds 20,000 cubic metre, the manager shall be assisted in the work of promoting safe practices in the mine by a safety officer who shall be a person holding the following qualifications, namely:-
15000	Tones	<b>29. (a)</b> in the case of a belowground mine having an average monthly output in excess of 15,000 tonnes, a First Class Manager's Certificate not restricted to opencast mines only;
50000	Tones	<b>29. (b)</b> in case of a mine having opencast workings with an average monthly material handled in excess of 50,000 cubic metre, a First Class Manager's Certificate;
15000,	Tones	<b>29. (c)</b> in case of a belowground mine having an average monthly output in excess of 10,000 tonnes, but not exceeding 15,000 tonnes, a First Class Manager's Certificate or Second Class Manager's Certificate not restricted to opencast mines only;
20000, 50000	Cubic Meter	<b>29. (d)</b> in case of a mine with opencast workings having an average monthly material handled in excess of 20,000 cubic meter but not exceeding 50,000 cubic metre, a First Class Manager's Certificate or Second Class Manager's Certificate;
5000,10000	Tones	<b>29. (e)</b> in the case of a belowground mine having an average monthly output in excess of 5,000 tonnes but not exceeding 10,000 tonnes, holder of a First Class Manager's Certificate or Second Class Manager's Certificate not restricted to opencast mines only, or a degree or diploma in Mining or Mining Engineering approved by the Central Government:
5000,2500	Tones	<b>31. Qualification and appointment of ventilation officer.</b> -In every belowground mine consisting of gassy seams of first degree, the average output of which exceeds 5,000 tonnes or of second or third degree the average output of which exceeds 2,500 tonnes, the manager shall be assisted in the work of supervising the maintenance of ventilation system of the mine in accordance with the provisions of these regulations by a ventilation officer who shall be a person holding the following qualifications, namely:-
15000,10000	Tones	<b>31.(a)</b> in the case of a mine consisting of gassy seams of first degree and having an average output in excess of 15,000 tonnes or a mine consisting of gassy seams of second or third degree and having an average output in excess of 10,000 tonnes, a Manager's Certificate not restricted to open cast mines only; and <b>Provided further</b> that in the case of a mine consisting of gassy seams of first degree and having an average output less than 15,000 tonnes, the Chief Inspector may, considering the nature and extent of workings therein, permit, by an order in writing and subject to such conditions as he may specify therein, combine the post of ventilation officer with that of safety officer appointed under regulation 29.
650, 1.5	Volts, MVA	<b>32. Appointment of engineers.</b> — Provided that where electrical energy exceeding 650 volts is used and the installed capacity of all electrical equipment is 1.5 MVA and above, an engineer holding a degree or diploma in electrical engineering or equivalent qualification as may be recognised by the Central Government, shall be appointed to hold charge of all the electrical equipment installed at the mine in addition to that specified above:

Numeric	Unit	Description
1500	HP	<b>33. Appointment of engineers – Provided further</b> that in case of opencast mines worked by heavy earth moving machinery or in any mechanised mine having belowground workings, in which the aggregate horse power of all the machinery used exceeds 1500, a person holding a degree or diploma in mechanical engineering, mining machinery or equivalent qualification as may be recognised by the Central Government, shall also be appointed to hold charge of all the mechanical equipment installed at the mine in addition to that specified above;
30	Days	<b>33. Appointment of engineers – 4(b)</b> no such authorisation shall have effect for a period in excess of thirty days except with the previous written consent of the Regional Inspector and subject to such conditions as he may specify therein
90	Meter	<b>46. Duties of ventilation officer.– (1)</b> The ventilation officer shall- <b>(s)</b> take necessary steps for proper cleaning, treatment and suppression of coal dust in the mine and see that the arrangements for wet-cutting at the faces and water spraying at and within ninety meters of the working places are properly installed and function satisfactorily;
7	Days	<b>48. Duties and responsibilities of sirdar.– (2)</b> The sirdar shall <b>(i)</b> Where either of the two ways affording means of egress from the district to the surface is not ordinarily used for travelling, travel, once at least in every seven days, the whole of such roadway in order to make himself thoroughly acquainted with the same;
120	Meter	<b>53. Duties and responsibilities of surveyor.– (2)</b> The surveyor shall record in a bound paged book kept for the purpose <b>(a)</b> the full facts when working of the mine have approached to about 120 meters from the mine boundary, or from disused or waterlogged workings;
25	CM	<b>64. General requirements about mine plans.– (c)</b> specify a scale of the plan at least 25 centimeters long and suitably subdivided;
2000:1 ,1000:1	Scale	<b>(d)</b> unless otherwise provided, be on a scale having a representative factor of 2000:1 or 1000:1
3	Month	<b>64.(4)</b> The plans and sections required by these regulations shall be maintained corrected up-to-date which is not earlier than three months:
200	Meter	<b>65. Type of plans.– 1 (b)(iii)</b> every important surface feature within the boundaries, such as railway, road, river, stream, water-course, tank, reservoir, opencast working and building which is within 200 meters of any part of the workings measured on the horizontal plane;
30, 100	Degree, Meter	<b>65. 1(c)</b> where a seam has an average inclination of more than thirty degrees from the horizontal, one or more vertical mine section or sections, as may be required by Regional Inspector, showing a vertical projection of the mine working: <b>Provided that</b> in case of a mine having opencast workings, vertical mine sections showing vertical projections of mine workings at suitable intervals not exceeding 100 m, in both, longitudinal as well as transverse directions, shall be prepared and maintained irrespective of the inclination of coal seam;
60	Meter	<b>65. 1(e)</b> a joint survey plan showing the details required under clause (b) of this sub-regulation and sub-regulations (6) and (7), signed by the surveyor and the manager of the mine and also of adjoining mines having working within 60 meters of the common boundary or where the boundary is in dispute, within 60 meters of the boundary claimed by the owner of the mine concerned signifying the correctness of the common boundary, or the disputed boundaries, as the case may be, and of the position of the working in relation to one another

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Numeric	Unit	Description
150	Meter	<b>65. Type of plans.</b> — (4) The plans maintained under clause (b) of sub-regulation (1) shall also show spot level on the floor of the working – (a) along haulage roadways, at every roadway junction, except in roadways where tramping is done by manual means where the spot levels may be shown at points not more than 150 meters apart;
200	Meter	(3) The plans maintained under clauses (a), (b), (d), (e), (f) and (g) of sub-regulation (1) shall also show surface contour lines drawn at vertical intervals not exceeding five meters (or ten meters in the case of a mine where there are no working belowground or in cases of mines situated in hilly terrain, such other interval as the Regional Inspector may permit by an order in writing and subject to such conditions as he may specify over the whole area lying within 200 meters of any part of the working.
60	Meter	(7) The plans maintained under clause (b) of sub-regulation (1) shall also show the workings, and all features as specified in that clause, both above and belowground of all adjacent mines as are situated within 60 meters, measured on any plane, of the boundary claimed by the owner of the mine.
60	Meter	(8) The owner, agent and manager of every mine shall as soon as its working extend to within 60 meters of the settled boundary with an adjacent mine (or where the boundary is in dispute within 60 meters of the boundary claimed by the owner of the adjacent mine) inform the owner, agent or manager of such mine of the fact of such extension and shall also give all reasonable facilities to the surveyors of its adjacent mines to carry out the surveys and leveling required to be made under this sub-regulation.
60, 30, 90/2	Days/No	<b>66. Plans and sections to be submitted after abandonment, closure or discontinuance.</b> — (1) Where any mine or seam or section thereof is abandoned, closed or the working thereof has been discontinued over a period exceeding sixty days, the person who was thirty days after the abandonment or closure, or within ninety days after the owner of after the discontinuance of the workings, as the case may be, submit to the Chief Inspector two true copies of the up-to-date plan and section of the workings of the mine or seam or section maintained under clauses (a), (b), (c), (e) and (g) of sub-regulation (1) of regulation 65,
30, 90	Days	<b>Provided that</b> if a change of ownership occurs after the abandonment, closure or discontinuance the workings, as the case may be, such plans and sections shall be submitted forthwith. and before the expiry of thirty days of the abandonment or closure or ninety days of the discontinuance of the workings, as the case may be, such plans and sections shall be submitted forthwith.
2	No	<b>71. Outlets from a mine.</b> — (1) Except for the duration of shaft sinking or the drivage of other means of access and egress from the mine together with the necessary development work, no person shall be employed, or be permitted to enter or remain for the purpose of employment, in any working belowground,
30	Meters	<b>71 (3)(a)</b> where the shaft is more than 30 meters in depth, such arrangements shall be by mechanical means. so installed and maintained as to be constantly available for use
1	km	<b>71 (3)(b)</b> where the incline is more than one kilometer in length (one way) or the travel by persons is arduous, a suitable man-riding system approved in writing by the Chief Inspector shall be provided for persons to access and egress from the workings of the mine:
80	Degree	<b>71. (5)</b> where in any shaft, ladders are used as a means of ingress or egress of persons employed in a mine, every such ladder shall – (ii) be securely fixed in the shaft at an inclination of not more than 80 degrees from the horizontal.

Numeric	Unit	Description
9	Meters	<b>71. (5)</b> Every such ladder shall – (iii) be made continuous or without perceptible overlapping or break except at platforms which shall be provided at intervals of not more than nine meters;
1	Meter	<b>71. (5)</b> Every such ladder shall – (iv) project at least one meter above the mouth of the shaft, and above every platform, except where strong holdfasts or handrails are provided;
13.5, 1.8, 1.5	Meter	<b>71. (6)</b> Such shafts, inclines or outlets shall not be less than 13.5 meters distant from one another at any point, and each shall be connected with the other by means of a walkable passage, not less than 1.8 metres high 1.5 metres wide, through the workings belowground that are being served by such shafts, inclines or outlets.
2	No	<b>71. (8)</b> The foregoing provisions of this regulation with respect to shafts, inclines and outlets shall not apply - (b) to any working for the purpose of making a connection between two or more shafts, inclines or outlets;
6	Meters	<b>72. Working shafts.– (3)</b> Every shaft in the course of being sunk shall be provided with a permanent lining of metal, concrete or masonry, which shall at no time, be more than six meters from the bottom of the shaft;
20	Meters	<b>72. Working shafts.– (3) Provided that</b> where iron or steel rings with a substantial lagging are used below the permanent lagging and are kept close to the bottom of the shaft, this distance may be increased to not more than twenty meters:
2	No	<b>74. Outlets from mine parts.</b> – Every part of a mine shall, where practicable, be provided with at least two ways affording means of egress to the surface.
7	Days	<b>75.</b> Periodic examination of shaft, incline and other outlets.– (1) Every shaft, incline and other outlet provided as required by regulation 71 shall be examined, once at least in every seven days, by an overman or other competent person
30/18	HP/ Cm	<b>76. Appointment of winding engineman.– (1)</b> No person shall be appointed as a winding engineman unless he holds an Engine Driver's Certificate: Provided that this sub regulation shall not apply to the driver of an electrical winding engine upto thirty horsepower or a steam or compressed air winding engine which has cylinders not exceeding eighteen centimeters in diameter and which is not used for raising or lowering of persons.
60	Days	<b>77. New winding installations.– (1)</b> When it is intended to bring into use any new winding installation for lowering and raising of persons, the owner, agent or manager shall, not less than sixty days before such use, give notice of such intention to the Chief Inspector and Regional Inspector
1.5	Degree	<b>78. Construction and installation of winding equipment.– (3)</b> Unless otherwise permitted in writing by the Chief Inspector and subject to such conditions as he may specify therein, every engine for winding shall be so situated in relation to the headgear that the winding rope shall not, in the extreme position, subtend in either direction an angle more than one and a half degrees with the plane of the sheave or pulley used in connection with the rope.
80/100	Times	<b>78. (4)</b> The diameter of the drums or sheaves of the winding engine, and of the pulleys and sheaves used in connection with the winding shall, unless otherwise permitted in writing by the Chief Inspector and subject to such conditions as he may specify therein, be not less than eighty times the diameter of the rope in the case of winding installations installed before the 25 th day of October, 1955 and not less than one hundred times the diameter of the rope.

Numeric	Unit	Description
2	Turns	<b>79. Fittings of winding engines.- (4)</b> There shall be at least two turns of the rope on the drum when the cage or other means of conveyance is at its lowest working point in the shaft.
1	No	<b>79.(5)(a)</b> There shall be provided one or more brakes on the drum or the drum-shaft,
1	No	<b>79. 5(c)</b> Where the brake or brakes are power-operated, at least one of them shall be arranged to be applied automatically at all times if the power supply fails.
1	No	<b>74. Fittings of winding engines – (c)</b> Where the brake or brakes are power-operated, at least one of them shall be arranged to be applied automatically at all times if the power supply fails.
1,2,3	Rap	<b>80. Shaft fittings. – (3)</b> In signaling, the following code of signals shall be used and strictly observed: ONE RAP : STOP when engine in motion ONE RAP : RAISE when engine at rest. TWO RAPS : LOWER THREE RAPS : MEN ready to ascend or descend THREE RAPS : IN REPLY men may enter the cage or other means of conveyance:
15	Cm	<b>80. Shaft fittings. – (11) (a)</b> Protective roofing, sufficient to prevent danger from anything falling in the shaft, shall be provided and maintained at the bottom of the shaft. <b>(b)</b> The gap, both vertical and horizontal, between the protective roofing and the top of cage, when the cage is at the bottom of the shaft, shall not exceed 15 centimeters.
1.8, 3.6	Meters	<b>81. Man winding.– (7)</b> Except in friction winders, there shall be provided between the rope and the cage or other means of conveyance, a detaching hook. <b>(8)</b> The space between such detaching hook, measured from the center of the hole for attaching it to the rope shackle, and the detaching-bell or plate when the cage or other means of conveyance is at its normal position at the top of the shaft, shall be not less than 1.8 meters where a geared engine is used, and not less than 3.6 meters where a direct acting engine is used.
1.5	Meters	<b>81. Man winding.– (10) (a)</b> In every shaft, there shall be provided an effective automatic contrivance to prevent overspeeding and over winding, hereinafter called the ‘Automatic Contrivance’, which shall prevent the descending cage from being landed at the pit bottom or other permanent landing at a speed exceeding 1.5 meters per second and also control the movement of the ascending cage in such a manner as to prevent danger to persons riding therein
7	Days	<b>81. (10) (c)</b> Test of every Automatic Contrivance and every brake shall be made by the engineer or other competent persons appointed for the purpose, in the following manner, namely: - <b>(i)</b> once at least in every seven days, by raising each cage or other means of conveyance, in turn, to pass the last control point above the topmost landing;
3	Months	<b>81. (10)(c)</b> Tests of every Automatic Contrivance and every brake -(ii) once at least in every three months, by attempting to land the descending cage at excessive speed.
1.2	Meters	<b>81. Man winding.– (11)</b> In addition to the Automatic Contrivance provided to prevent overwinding, a point shall be fixed and marked on the indicator of the engine in such a way as to show when the cage or other means of conveyance is at a distance of not less than twice the circumference of the drum from the completion of the wind; and if such cage or other means of conveyance contains persons, the winding engineman shall not, as soon as it has reached the point aforesaid, raise it for the remaining distance at a speed exceeding 1.2 meters per second

Numeric	Unit	Description
2	Sides	<b>81. Man winding.– (14) (a)</b> Every cage or other means of conveyance in which persons ride, shall be – (ii) closed in at the two sides in a manner sufficient to prevent persons or things from projecting beyond the sides;
15,25	Cm	<b>14(a)</b> Every cage or other means of conveyance in which persons ride, shall be – (iv) provided with suitable gates or other rigid fences such that the gap between the floor of cage or other means of conveyance and the lowest part of the gate or fence does not exceed 15 centimetres and that between any two members of the gate or fence does not exceed 25 centimetres. Gates or fences shall not open outwards; and they shall be so fitted and maintained that they cannot be accidentally opened.
0.20	Sq.mtr	<b>81. Man winding.– (15)</b> Not more than such number of persons as may be authorised by the manager shall be allowed to ride in the same cage or same deck of a cage or other means of conveyance at one time providing approximately 0.20 square metre of floor area per person
2	No	<b>82. Multi-decks.–</b> Where a cage has two or more decks which are used simultaneously, each floor at a landing shall be connected by an effective signalling device with the main floor of the landing; and only the banksman or the onsetter or an official, as the case may be, at such main floor shall give the action signal after he has satisfied himself that all cage gates are closed.
45,3.6	Meters	<b>84. Winding in sinking shafts.– (2)</b> If the shaft exceeds 45 meters in depth, there shall be provided for each bucket or other means of conveyance a detaching-hook. <b>(3)</b> Between the centre of the hole for attaching the detaching-hook to the rope shackle and the detaching bell or plate, when the bucket or other means of conveyance is at the top landing, there shall be a clear over-run space of not less than 3.6 metres.
150,22.5	Meters	<b>84. Winding in sinking shafts.– (4)</b> Where the shaft exceeds 150 meters in depth,– <b>(a)</b> the bucket or other means of conveyance, when used for lowering or raising persons, shall be provided with sufficient cover overhead for protection from things falling down the shaft; and <b>(b)</b> there shall be provided for each bucket or other means of conveyance, a sufficient number of guides which shall be kept extended to within 22.5 metres of the shaft bottom at all times when sinking is in progress:
150	Meters	<b>Provided that</b> the Regional Inspector may, by an order in writing, require the provision of guides in a shaft less than 150 metres in depth.
2	No	<b>(5)(a)</b> There shall be provided and maintained <b>(i)</b> two separate means of interchanging distinct and definite signals between the bottom and the top of the shaft.
24	Hours	<b>5(b)</b> The signalling appliances shall be examined by a competent person once at least in every 24 hours.
1,2,3	Raps	<b>5(c).</b> Winding in sinking shafts – the following code of signals shall be used and observed in signalling]. ONE RAP .. STOP when engine in motion ONE RAP .. TAKE UP SLACK when engine at rest. ONE RAP .. RAISE SLOWLY TWO RAPS .. LOWER THREE RAPS .. TAKE UP SLACK when men are riding.
22.5	Meters	<b>84. Winding in sinking shafts – 7(b)</b> Where the shaft exceeds 45 metres in depth, the persons working at the bottom of the shaft shall also be protected by an adequate protective covering which shall be kept lowered to within 22.5 metres of the bottom of the shaft at all times when sinking is in progress.

Numeric	Unit	Description
30	Meters	<b>85. Winding ropes, etc. – (2)(a)</b> Except, in a sinking shaft less than 30 metres in depth, every winding rope shall be made of cold drawn steel wire, and the gauge of the wires used in the construction of such rope shall be suited to the diameter of the drums, pulleys and sheaves of the winding installation.
10	Times	<b>85. (2)(d)</b> Subject to such exemption as may be granted by the Chief Inspector in writing and any conditions as he may specify therein, no rope, the breaking load of which at any one point therein is less than ten times the maximum static load on it when the cage or other means of conveyance attached to the end of the rope is at the lowest working point, shall be used.
1	No	<b>(e)</b> At every mine where a shaft is used for lowering or raising persons, at least one spare winding rope suitable for use in such shaft, shall be kept in store.
3.5	Years	<b>85. Winding ropes, etc. – 4(a)</b> No winding rope which has been in use for more than three and half year shall be used for winding purposes :
10	Times	<b>85. Winding ropes, etc.- 5(a)</b> No mode or type of capping shall be used, which fails to withstand a load of at least 10 times the maximum static load thereon.
6.5, 26	Times, Millimeter	<b>85 . (5) (d)</b> Where white metal is used in the capping of ropes, the tapered portion of the socket shall not be less than six and a half times the diameter of the rope for the size up to 26 millimeter and seven and one third times in case of ropes of diameters higher than 26 millimeter.
300	Degree	<b>85 . (5) (e)</b> If white metal is used in the capping of ropes - <b>(i)</b> its melting point shall not exceed 300 degrees centigrade, and its temperature when poured into the socket shall not exceed 363 degree centigrade;
100	Degree	<b>85 . (5) (e)</b> If white metal is used in the capping of ropes - <b>(iii)</b> the socket shall be heated to a temperature of about 100 degrees centigrade before the white metal is poured into it.
6	Months	<b>85. Winding ropes, etc.- (6)</b> Except in friction winder,- <b>(a)</b> every rope shall be recapped once at least in every six months, or if necessary, at shorter intervals and also after every overwind in every six months, or if necessary, at shorter intervals and also after every overwind.
2	Meter	<b>85 . (6) (b)</b> before every recapping, a length, including the capping, of at least two meters shall be cut off the rope, and every piece of rope so cut-off shall be opened and its internal condition examined
6	Years	<b>86. Suspension gear.– (1)</b> All parts of the suspension gears shall be of a type as approved by the Chief Inspector. <b>(2)</b> All parts of suspension gear in regular use shall unless otherwise permitted by the Chief Inspector, be renewed after a period of service of not more than six years, and at shorter intervals, if necessary.
6	Months	<b>86. Suspension gear.– 4(a)</b> All cage chains in general use and all other parts of suspension gear between the rope and the cage or other means of conveyance, including the detaching-hook, shall be taken apart, cleaned and carefully examined as to wear and tear (where necessary by gouging) and for rust and cracks, once at least in every six months,
1	Week	<b>Provided further that</b> detaching hooks used in sinking shafts shall be taken apart, cleaned and carefully examined once at least in every week and the shear pin replaced by a new one every time such examination is carried out.
30	Days	<b>4(b)</b> Every detaching bell or plate used in connection a safety-hook shall be examined, and the opening therein checked by calipers or gauges, once at least in every 30 days.
24	Hours	<b>88. Examination of winding equipment – 1(a)</b> Once at least in every 24 hours – <b>(i)</b> the attachment of the winding rope to the drum, the depth indicator, every part of the suspension gear in the shaft, including cages or other means of conveyance and their gates, and every external part of the winding apparatus, upon the proper working of which the safety of persons depends; and <b>(ii)</b> the brakes of the winding engines;

Numeric	Unit	Description
7	Days	<b>88. Examination of winding equipment – (b)</b> Once at least in every seven days – (i) each winding rope, by passing the rope at a speed not exceeding one meter per second; and (ii) the external parts of the winding engine, the guides and the signaling arrangements fitted in a shaft;
30/0.5/30	Day/meter	<b>88. Examination of winding equipment - 1(c)</b> Once at least in every 30 days, every winding rope, by passing the rope at a speed not exceeding 0.5 metre per second. For the purpose of this examination, the rope shall be cleaned of any entrusted dirt and grease at all places particularly liable to deterioration and at other places, not more than 30 metres apart throughout the length, and any reduction in the circumference of the rope and the superficial condition of the wires as to wear, corrosion, brittleness and fracture at every such place shall be noted;
12	Months	<b>85. Examination of winding equipment – 1(d)</b> Once at least in every 12 months, the winding engine as to the condition of its internal parts.
1.8, 1.2	Meters	<b>89. Gates and fences.– 2(a)</b> At every landing where it is necessary for persons to pass from one side of the shaft to the other, an adequate passby shall be provided for enabling them to do so without entering or crossing the shaft. Every passby so provided shall be not less than 1.8 metres high and 1.2 metres wide, and shall be kept clear of all obstructions.
1/10	No/meter	<b>92. Haulage roadways.– 4(b)</b> at least one run way switch or other effective contrivance below the first stop-block or other effective contrivance at a distance greater than the length of a set or train of tubs: <b>Provided that</b> such distance shall not exceed the length of a set or train of tubs by more than 10 metres:
250	Meter	<b>4(e)</b> tub re-railers at intervals of not more than 250 metres. Where a tubs is re-railed manually, it shall either be detached from the rope or ropes or the haulage engine which works the rope shall be stopped;
1	No	<b>92. Haulage roadways.– 4</b> Where haulage is effected by one or more ropes, -(a) at the top of every inclined plane, at least one stop-block or other effective contrivance to arrest tubs from running or moving out of control;
30	Meters	<b>92-(4)</b> Where haulage is effected by one or more ropes, -(f) on every haulage roadway exceeding 30 metres in length, effective means of transmitting signal from every stopping place on the roadway to the place at which the machinery working the rope is operated.
1,2,3,4	Raps	<b>92-(5)</b> The following code of signals shall be used and strictly observed – ONE RAP .. STOP when in motion TWO RAPS .. LOWER or haul in slowly THREE RAPS .. START when at rest FOUR RAPS .. RAISE or haul out slowly
300	Meters	<b>92-(8)</b> Where in any mine belowground, a system of haulage roadways (and conveyors, if any) extends to a distance of more than 300 meters from the shaft or the entrance to the mine, efficient telephonic communication shall be provided and maintained between the end of every such system and the bottom and top of the shaft or the entrance to the mine, as the case may be:
30	Volts	<b>92. (9) (b)</b> signal wires shall be supported on insulators, and shall not be energised at more than 30 volts;
10	Meters	<b>92. (11)</b> Where any person is allotted to work or pass while the haulage is in motion, manholes for refuge shall be provided at intervals of not more than 10 meters:
20	Meters	<b>92. (11) Provided that</b> where the gradient is less than 1 in 6 such manholes may be provided at intervals of not more than 20 meters.

Numeric	Unit	Description
1.8/1.2/ 0.75	Meters	<b>92-(12)</b> Manholes shall be not less than 1.8 metres in height and 1.2 metres in depth, and not less than 0.75 metres but not more than one metre in width: Provided that where the roadway is less than 1.8 metres in height, the manholes may be made to the full height of the roadway:
0.3	Meters	<b>92-(14)</b> Every manhole shall be kept clean and clear of obstruction, and white washed both inside and for a distance of not less than 0.3 metres around the aperture.
1	Meter	<b>92-(18)</b> At all places where tubs are coupled or uncoupled, there shall be a clear space of not less than one meter – <b>(a)</b> between, the tubs and one side of the roadway; and <b>(b)</b> where there are two or more tracks also between the adjacent tracks.
1.8	Meters	<b>93-(2)</b> Every such travelling roadway shall – <b>(a)</b> be not less than 1.8 meters high for the entire stretch;
30	Degree	<b>93-(2) (b)</b> where the inclination exceeds 30 degrees from the horizontal, be provided with suitable steps or ladders;
45	Degree	<b>93-(2) (c)</b> where the inclination exceeds 45 degrees from the horizontal, be provided, in addition to steps or ladders, with hand rails or ropes so as to ensure safe travel;
60/10	Degree/ meters	<b>93-(2) (d)</b> where the inclination exceeds 60 degrees from the horizontal, be provided, in addition to the steps or ladders and rails or ropes, with suitable platforms at intervals not exceeding 10 metres measured along the slope.
1	Km	<b>93. Travelling roadways.– (6)</b> In case the travelling distance from the incline or adit mouth or pit bottom exceeds one kilometer or the travelling is arduous, the owner, agent and manager shall provide suitable man-riding arrangement as approved by the Chief Inspector, within one year from the date of coming into force of these regulations.
2/20	No/CM	<b>94. Tub and their movement – (1)</b> On every tub there shall be provided and maintained at each coupling end a strong buffer projecting beyond the end and so arranged that when two such tubs are in tandem, the gap between the innermost ends shall not be less than 20 centimeters.
7	Factor of safety	<b>94. (5)</b> Each component of coupling shall have factor of safety of not less than seven in relation to maximum static load which shall be ensured by testing at an interval not exceeding three years and record thereof shall be maintained.
2/10	No/meter	<b>94.(7)</b> Two or more tubs shall not be moved by hand in close succession but shall be coupled and moved together: <b>Provided that</b> two tubs shall be deemed to be in close succession when the distance between them at any time is less than 10 meters.
1 in 20	Gradient	<b>94.(9)-</b> No person while taking a tub down a gradient exceeding 1 in 20, shall go in front of the tub; and in every case where conditions are such that a person cannot control the tub from behind, he shall not take the tub down unless sprags or other suitable contrivances are used to control it.
1 in 20	Gradient	<b>94.(11)</b> Every tub while standing on a track having a gradient of more than 1 in 20 shall unless held effectively by brakes or securely coupled to a haulage rope or locomotive be effectively blocked, chained or otherwise secured.
8	Factor of safety	<b>96. Haulage ropes.– (1)</b> No rope shall be used for purposes of haulage if it has any serious visible defect over any length or its factor of safety is less than eight.
6	Months	<b>96 (2)</b> Every rope which is capped shall be recapped once at least in every six months, and if necessary, at shorter intervals, under the supervision of a competent person.
1	Meter	<b>97. Roadway Conveyors – (1) (a)</b> between the conveyor and one side of the roadway, there is a travelling space from obstruction not less than one meter wide;

Numeric	Unit	Description
30	Meter	<b>97. Roadway Conveyors – (3)</b> On every length of roadway in which a conveyor is installed for transporting loads over a distance exceeding 30 meters, there shall be provided and maintained effective means of transmitting signals from every point on the length of the roadway to the place at which the machinery working the conveyor is operated:
30	Days	<b>97.(6)</b> The manager shall formulate a code of practice for safe installation, operation, maintenance and use of belt conveyor belowground including extension of belt conveyor and shifting it from one place in the mine to another and submit the same to the Regional Inspector at least thirty days before the commencement of the installation of the belt conveyor belowground; and the Regional Inspector may, at any time by an order in writing, require such modifications in the code of practice as he may think fit in the interest of safety.
24	Hours	<b>98. Examination of haulage engines.– (1)</b> It shall be the duty of a competent person to examine carefully- <b>(a)</b> once at least in every twenty-four hours, every haulage engine, brake-wheel, rope and other appliance in use; and
7	Days	<b>98.(1)</b> Examination of haulage engines – <b>(b)</b> once at least in every seven days, every track where the haulage is effected by means of mechanical power of gravity, and every safety contrivance fitted thereon
7	Days	<b>99. Examination of haulage and travelling roadways</b> – It shall be the duty of the overman or other competent person to examine carefully, once at least in every seven days, the state of all haulage and travelling roads and roadways, including roadways leading to all the outlets of the mine which are in use.
1 in 15	Gradient	<b>100 (2)</b> No locomotive shall be used where the gradient of the track exceeds 1 in 15.
2	Wagons	<b>102. Movement of wagons.– (4)</b> Where two or more wagons are moved simultaneously, the wagons shall be coupled together, and the number shall not exceed the number which can be effectively controlled; they shall be moved only by pushing from the sides or from behind the last wagon.
1.2	Meters	<b>102 (11)</b> No material shall be placed or dumped within 1.2 metres from either side of a track of rails.
15	Meters	<b>103. Fencings and gates (2)</b> Where occupied buildings are situated within 15 meters of any haulage road, tramline, rail line or haul road, a substantial fence shall be provided and maintained between such buildings and the haulage road, tramline, rail line or haul road.
45	Degree	<b>105. Opencast workings –(1)(a)</b> the sides shall be sloped at an angle of safety not exceeding 45 degrees from the horizontal or such other angle as the Regional Inspector may permit by an order in writing and subject to such conditions as he may specify therein;
1.5	Meters	<b>105. Opencast workings (1)(b)</b> the sides shall be kept benched and the height of any bench shall not exceed 1.5 metres and the breadth thereof shall not be less than the height:
2.5/1.25/ 1.5	Meters	<b>105.(2)</b> where any pillar is left in situ for the purpose of measurement, its height shall not exceed 2.5 metres; and where the height of such pillar exceeds 1.25 metres, the base of the pillar shall not be less than 1.5 metres in diameter.
45/3	Degree/ meters	<b>105.(3)</b> In coal, the sides shall either be kept sloped at an angle of safety not exceeding 45 degrees from the horizontal, or the sides shall be kept benched and the height of any bench shall not exceed three metres and the breadth thereof shall not be less than the height:
3	Meter	<b>106. Mechanised opencast working.- (4)</b> The height of the benches in overburden consisting of alluvial soil, morum, gravel, clay, debris or other similar ground shall not exceed 3 meters and the width thereof shall not be less than three times the height of the bench.

Numeric	Unit	Description			
3	Meter /Times	<b>106. Mechanised opencast working (5)</b> The height of benches in coal and overburden of rock formation other than that mentioned in sub-regulation (4) shall not be more than the digging height or reach of the excavation machine in use for digging, excavation or removal, and the width thereof shall not be less than - <b>(a)</b> the width of the widest machine plying on the bench plus two meters; or <b>(b)</b> if dumpers ply on the bench, three times the width of the dumper; or			
37.5	Degree	<b>108. Spoil-banks and dumps.- (2)</b> The slope of a spoil bank shall be determined by the natural angle of repose of the material being deposited but, in any case, shall not exceed 37.5 degrees from the horizontal:			
30	Meter	<b>108. Spoil-banks and dumps.- (4)</b> Any spoil bank exceeding 30 meter in height shall be benched so that no bench exceeds 30 meter in height and the overall slope shall not exceed 1 vertical to 1.5 horizontal.			
		<b>108. Spoil-banks and dumps.- (5)</b> The toe of a spoil-bank shall not be extended to any point within 100m of a mine opening, railway or other public works, public road or building or other permanent structure not belonging to the owner.			
3 /4.8	Meters	<b>99. Development work – (2)</b> no gallery in a seam or section shall exceed three metres in height or 4.8 metres in width at any place.			
Depth of seam from surface		Where the width of the galleries does not exceed 3.0 metres	Where the width of the galleries does not exceed 3.6 metres	Where the width of the galleries does not exceed 4.2 metres	Where the width of the galleries does not exceed 4.8 metres
		The distance between centres of adjacent pillars shall not be less than			
1		2	3	4	5
		Metres	Metres	Metres	Metres
Not exceeding 60 metres		12.0	15.0	18.0	19.5
Exceeding 60 but not exceeding 90 metres		13.5	16.5	19.5	21.0
Exceeding 90 but not exceeding 150 metres		16.5	19.5	22.5	25.5
Exceeding 150 but not exceeding 240 metres		22.5	25.5	30.0	34.5
Exceeding 240 but not exceeding 360 metres		28.5	34.5	39.0	45.0
Exceeding 360 metres		39.0	42.0	45.0	48.0
10	Day	<b>112. Depillaring operations.– (9)</b> Where the voids formed as a result of extraction are stowed with sand or other materials, the owner, agent or manager shall, on or before the 10 th day of every month submit to the Regional Inspector a statement giving the quantity of coal raised and the quantity of sand or other material stowed in every district during the preceding month.			
2	Copies	<b>113. Extraction of Coal by method other than bord and pillar system.– (2)</b> An application for permission under sub-regulation (1), shall be made accompanied by two copies of an upto date plan of the area where such development or extraction is proposed, showing details such as the manner and proposed extent of development or extraction.			
14	Days	<b>114. Saving.- (1)</b> Nothing in regulation 111 or regulation 112 shall prevent the driving of any gallery through any pillar or the enlargement of any gallery beyond the limits specified by or under these regulations, where in the opinion of the manager such work is necessary for haulage, ventilation, drainage or any other purpose necessary for the proper working of the mine, if fourteen days' previous notice in writing of the intention to commence such work has been given to the Regional Inspector.			
15	Days	<b>117. Pointing out of contraventions during inspections.- (3)</b> When an entry is made in the register- <b>(b)</b> a copy thereof shall be displayed within one day of the date of such entry on the notice board of the mine for not less than fifteen days.			

Numeric	Unit	Description
15	Days	<b>117. (4)</b> The owner, agent or manager of the mine shall return one copy, within a period not exceeding fifteen days from the date of the entry, to the Chief Inspector or the Inspector who made the entry with remarks thereon showing the action taken to remedy the contravention and the date on which such action was taken.
2/30	No./Degree	<b>118. (4) Multi-section and contiguous working.-</b> Where two or more such seams or sections are worked in a mine, the pillars in one seam or section shall, as far as practicable, be vertically above or below the pillars in the other seam or section unless the strata are inclined at an angle of more than 30 degrees from the horizontal.
3	Meter	<b>118. (5) Multi-section and contiguous working.-</b> The parting left between any two seams or sections shall not be less than three meters in thickness at any place:
45	Meters	<b>119. Working under railways and roads, etc.- (1)</b> No working shall be made and no work of extraction or reduction of pillars shall be conducted at, or extended to, any point within 45 meters of any railway, or of any public works
7.5	Meters	<b>122. Working near mine boundaries in opencast mines.- (2)</b> No working shall be made within a distance of 7.5 meters of the boundary of any mine and, in case of a dispute boundary, no working shall be made within a distance of 7.5 meters of the boundary claimed by the owner of an adjacent mine until such time a binding agreement has been reached as to the correct boundary or the question has been finally determined by a court of law:
30	Days	<b>123. Strata Control and Monitoring Plan.- (3)</b> The manager shall, at least thirty days before the commencement of any operation, submit a copy of the support plan framed under sub-regulation (2) to the Regional Inspector who may at any time, by an order in writing, require such modification in the plan as he may specify therein.
5/25/75	CM	<b>124 Setting of support – (2)</b> Where a prop is set on sand or, other loose material, a flat base-piece not less than 5 centimeter in thickness 25 centimeters in width and 75 centimeters in length shall be used.
8/50	CM	<b>124 Setting of support – (3)</b> The lid used over a prop shall have a width not less than the diameter of the prop thickness not less than 8 centimeters and a length not less than 50 centimeters.
50/1	CM/meter	<b>124. Setting of support – (4)</b> Every bar set for supporting the roof of a roadway shall be set securely on props or on cogs on steel clamps of suitable design and adequate strength, securely fixed on the sides of the roadway in holes at least 50-centimeter-deep made in the sides of the roadway and shall be made and kept tight against roof. Where lagging is necessary the number of laggings shall not be less than one for every meter length of the bar and the laggings shall be made and kept tight against the roof.
1.2	Meter	<b>124. Setting of support – (7)</b> The cogging members shall be not less than 1.2 metres in length.
30	Degree	<b>127 .Steep workings – (1)</b> In workings having an inclination of 30 degrees or more from the horizontal adequate precautions shall be taken to prevent danger to persons from falling or rolling of timber, tools or other appliances or material.
45	Degree	<b>127 .Steep workings – (2)</b> No person shall work or be permitted to work at any place having an inclination of 45 degrees or more from the horizontal, where he is likely to slip or overbalance, unless he is secured by a safety belt or life line or is otherwise safeguarded
15	Meters	<b>128. Fencings and gates.– (2)</b> Where an excavation which has been formed as a result of any mining operation, extends within a distance of 15 meters from a public road or any building, substantial fencing shall be erected and maintained around the excavation.
30	Degree	<b>128. Fencings and gates.– (5)</b> Where a shaft or staple pit or a gallery having an inclination of more than 30 degrees from the horizontal leads directly into a working place or travelling roadway, such place or roadway and any working place situated on its dip side, shall be securely guarded or otherwise protected as to prevent danger to persons from falling materials.

Numeric	Unit	Description
3	Meters	<b>129. Examination by sirdars.- (7)</b> In case of opencast workings, the sirdar shall pay attention to overhangs, undercuts, presence of loose stone, materials or trees, etc., within 3 meters of the edges, foot paths for traveling and carrying loads, fencing on top of the quarry and disused part or abandoned quarries, fencing along footpaths and benches where required, use of personal protective equipment and condition of dumps.
1.5/1.8	Meters	<b>131. Working at height.- (1)</b> No person shall work or travel on any ledge or footpath less than 1.5 meters wide, from where he is likely to fall more than 1.8 meters, unless he is protected by guard rails, fence or safety belt or rope suitably fixed and sufficiently strong to prevent him from falling.
30	Degree	<b>132. General precautions.- (5)</b> No person shall carry or be permitted to carry any load along a road or footpath having an inclination of 30 degrees or more from the horizontal.
1/0.18/ 0.35	Meters	<b>132. General precautions.- (6)</b> Every road or footpath, along which loads are carried by human agency, shall- (i) its breadth shall not be less than one metre; and (ii) at every place where the inclination exceeds 15 degrees from the horizontal, level steps shall be provided such that the vertical height of every step does not exceed 0.18 metre and the distance from the edge. To the back is not less than 0.35 metre.
24/30	Hours/ days	<b>133. Classification of coal seams according to their degree of gassiness.- (2)</b> If in a gassy seam the percentage of inflammable gas in the general body of air or the rate of emission of such gas increases so as to bring that seam into a higher degree of gassiness, the owner, agent or manager shall within 24 hours from his knowledge of such increase, inform the Regional Inspector are also observe all the precautions required to be taken under these regulations in respect of a gassy seam of that degree. The Regional Inspector shall within 30 days of the receipt of such information verify the degree of gassiness by suitable investigations and classify the seam into the appropriate degree of gassiness:
24/60	Hours/ days	<b>Provided that</b> if it is not practicable to observe all the precautions required to be taken under these regulations within 24 hours stipulated in this sub-regulation, the Regional Inspector, on a request in writing by the owner, agent or manager, may defer the observance of the required precautions, subject to such conditions as he may specify, for a period not exceeding sixty days.
30	Days	<b>133. Classification of coal seams according to their degree of gassiness.- (4)</b> The Regional Inspector shall within thirty days from the receipt of the information referred to in sub-regulation (3), verify and investigate the degree of gassiness and classify the same into appropriate degree of gassiness, and till such time as the Regional Inspector so classifies all the precautions required to be observed previously shall be observed.
30	Days	<b>133. (6)</b> The owner, agent or manager shall at least once to every 30 days examine the rate of emission of inflammable gas in cubic metres per tonne of coal raised and the percentage of inflammable gas in the general body of air
24/15	Hours/ meters	<b>135. Surface precautions against fire.- (2)</b> Shale or other carbonaceous material shall not be heaped or dumped, and dead leaves or dry vegetation shall not be allowed to accumulate or remain, and combustible materials other than materials required for use within a period of 24 hours, and inflammable materials, shall not be stored within a distance of 15 metres from any entrance to a mine, which is not effectively sealed off from the workings belowground :
15	Meters	<b>135. Surface precautions against fire.- (5)</b> No person shall light a fire or permit a fire to be lighted in any opencast working within a distance of 15 meters from any entrance to a mine, except by the permission in writing of the manager and only for a special purpose specified in such order.

Numeric	Unit	Description
7	Days	<b>135.(6)</b> A competent person shall, once at least in every seven days, inspect the top of all entrances to a mine, all opencast workings and any ground broken by extraction of coal in order to ascertain whether the precaution laid down in this regulation have been complied with, and for the presence of any fire that may have broken out or any indications thereof.
30	Days	<b>136. Underground precautions against fire.– (7)</b> All unused workings connected to the surface though a walkable entrance which is not permanently closed, shall once at least in every 30 days be inspected by a competent person for signs of illicit distillation of liquor.
7/30	Days	<b>137. Precaution against spontaneous heating.– (12)</b> In order to detect spontaneous heating in early stages, the air in the return airway of every depillaring district and, of every goaf which has not been isolated, shall be - <b>(a)</b> tested for percentage of carbon monoxide once at least in every seven days with an automatic detector of a type approved by the Chief Inspector; and <b>(b)</b> completely analysed once at least in every thirty days with a view to determining the ratio CO- formed/O <sub>2</sub> - absorbed:
7	Days	<b>137. Precaution against spontaneous heating.– (15)</b> All unused workings including unused workings which have not been sealed off, and isolation stoppings built around goaved out areas shall be inspected once at least in every seven days, by a competent person for any fire risk
35	Tonne	<b>139. Equipment for fire-fighting.- (d) Provided that</b> in case of trucks and dumpers of less than 35 tonne capacity used in opencast mines, it may be sufficient if semi-automatic type fire suppression system has been provided;
60	Meters	<b>142. Precautions when a fire exists –(1)(c)</b> where the outlets of openings of the seam are within 60 metres of an active fire or spontaneous heating in a higher seam or on the surface in any ash heap or spoil heap or in any other heap or place or any other fire or spontaneous heating which cannot be controlled immediately or where broken ground connected with the seam exists within 60 metres of such fire or spontaneous heating;
10	Meters	<b>142. 1(d)</b> where the parting with an overlying seam on fire or in which spontaneous heating has taken place; or with surface containing an active fire or spontaneous heating in any spoil heap or ash heap or in any other heap or place; or any other fire or spontaneous heating which cannot be controlled immediately, consist of less than 10 metres of hard rock;
30	Days	<b>142.(3)</b> In every fiery seam or gassy seam of the second or third degree, arrangements shall be made once at least every 30 days to ascertain the atmospheric condition behind the stoppings built to sealed off the area of old workings or such goaf or a fire or spontaneous heating unless such stoppings are capable of resisting force of an explosion.
3	Months	<b>143. Precaution against dust.– (3)</b> The owner, agent or manager of every mine shall, within three months of the coming into force of these regulations and once at least in every month thereafter or whenever the Regional Inspector so requires by an order in writing, cause the air at every work place where airborne dust is generated, to be sampled and the concentration of respirable dust therein determined:
1	Meter	<b>143. Precaution against dust.– (4)</b> The samples drawn under sub-regulation (3) shall as far as practicable, be representative of the levels of dust exposure of work-persons. For this purpose, the sampler shall be positioned on the return side of the point of dust generation and within 1 meter of the normal working position of but not behind the operator or other worker whose exposure is deemed to be maximum in his working group.

Numeric	Unit	Description
5/1.5	No./Times	<b>143. (10)</b> If the average concentration of respirable dust in a series of five samples taken in seven successive normal working shifts during the subsequent month exceeds one and a half times the permissible limit, the relevant operation or operations causing excessive dust shall cease.
80	Meter	<b>143. Precaution against dust.– (13) (d)</b> no plant for the screening or sorting of coal and as far as practicable, no heap of cinder, cement, sand, mortar or other dry and fine material shall be placed within 80 m. of the top of any down-cast shaft or other intake airway nor shall any such material be so handled as to make it air-borne and drawn into such shaft or airway.
60	Meter	<b>143 (13) (e)</b> in every working belowground – every working face and the floor, roof and sides of every roadway or airway within 60 meters thereof shall be, unless naturally wet throughout, regularly washed down to prevent accumulation of dust and shall be kept thoroughly wet during the work shifts;
7/6	Days/ month	<b>143. (13) (h)</b> every device used for the prevention and suppression of dust produced by any machinery, equipment or process as also for the filtering of the exhausted air and every dust respirator shall be inspected once at least in every seven days and shall be thoroughly examined and tested at least once in every month and the results of every such inspection, examination and test shall be recorded in the register maintained under sub-regulation (8).
2000 : 1	Scale	<b>144. Execution of measures for dust control.– (1)</b> There shall be maintained at every mine having workings belowground a dust plan on a scale having representative factor of not less than 2000 : 1
24/7/14/ 30/3	Hours/days/month	<b>144. Execution of measures for dust control.– (c)</b> require treatment with incombustible dust at such intervals of twenty-four hours, seven days, fourteen days, thirty days, three months or other specified period, as the case may be.
75,30,85	%	<b>144. (3)</b> Every part of a mine which is not naturally wet throughout or which is not isolated by explosion-proof stoppings shall be treated: <b>(a)</b> with fine incombustible dust in such manner and at such intervals as will ensure that the dust on the floor, roof and sides and any support or structure shall always consist of a mixture containing not less than 75 per cent. of incombustible matter in case of coal seams containing less than 30 per cent. volatile matter (on dry ash free basis) and 85 per cent. of incombustible matter in case of coal seam containing more than 30 per cent. of such volatile matter
30	%	<b>144.(3) (b)</b> with water in such manner and at such intervals as will ensure that the dust on the floor, roof and sides and or any support or structure is always combined with not less than 30% by weight of water in intimate mixture;
5	%	<b>144 (4)</b> The incombustible dust used for the purpose fo this sub-regulation shall be : <b>(a)</b> such that it does not contain more than 5% of free silica;
24	Hours	<b>144. Execution of measures for dust control.– (6)</b> where any place or part of the mine is to be treated with incombustible dust : <b>(a)</b> before treating with incombustible dust, all coal dust shall be cleaned, as far as practicable, from the roof, sides, floor, props, cogs, bars, brattice cloth or any other objects or structure or place on which coal dust may deposit, and all dust so collected shall be removed to the surface within 24 hours.
5000	Tones	<b>144. (9) Provided that</b> in the case of a mine having an average monthly output of less than 5000 tonnes, the Dust In-charge referred to in this regulation can act as the Sampling In-charge referred to in regulation 145.

Numeric	Unit	Description
150	Meters	<b>145. Check on measures for dust control.– (2)</b> Every return airway as lies within two hundred meters of the last working face and every haulage, tramping or conveyor roadway which is not naturally wet throughout, shall be divided into zones not longer than one hundred and fifty meters each:
50	Meters	<b>145.(3)</b> Every zone formed as aforesaid shall be divided into three equal sections, each not exceeding 50 meters in length.
2000:1	Scale	<b>145. Check on measures for dust control.– (5)</b> The zones and sections, with their numbers and code-letters, shall be clearly marked on a plan prepared on a scale having a representative factor of not less than 2000:1 hereinafter called the “sampling plan”, clearly showing the areas of the mine that are naturally wet throughout.
30	Days	<b>145. (7)</b> Representative samples of dust shall be collected once in every thirty days from every zone, and for this purpose samples may be collected from different sections such as a, b or c in rotation such that, during every such period of thirty days, all samples are collected from the section a or section b or section c.
24	Hours	<b>145. (8)</b> Representative samples referred to in sub-regulation (7) shall be collected in a systematic manner irrespective of the cleaning and treating operations but shall in no case be collected within a period of twenty-four hours of cleaning and treating of any zone, section or part thereof.
3	Months	<b>145. (10)</b> In every travelling roadway, and in every airway other than those specified in sub-regulation (2), samples shall be taken in such a systematic manner and at such intervals not exceeding three months, to maintain proper check on the efficiency of the treatment thereof in terms of sub-regulation (5) of regulation 144.
10	MM	<b>145. (11)</b> Samples of dust shall be collected from roof, sides, and floor, and shall comprise of dust collected to a depth not exceeding five millimeters on the roof and sides, and to a depth not exceeding 10 millimeters on the floor.
10	CM	<b>145. (12)</b> Where a zone is treated with incombustible dust, the samples shall be collected by a method of strip sampling, the strips being as near as possible of equal width of not less than 10 centimeters, and at uniform intervals not exceeding five meters.
30	Grams	<b>145. Check on measures for dust control.– (15)</b> Each sample shall be well-mixed and then reduced in bulk (by quartering) to a weight of not less than 30 grams and each sample so reduced shall be packed in a moisture-proof container which shall be suitably labeled or marked.
7	Days	<b>145. Check on measures for dust control.– (17)</b> Within seven days of taking of each sample, it shall be sent for analysis and the result of such analysis, immediately on its receipt, shall be recorded in a bound-paged book kept for the purpose and every entry in this book shall be signed and dated by the sampling in charge and be countersigned and dated by the manager.
30	%	<b>145. Explanation</b> A place in a mine is considered “Naturally wet throughout” if it is moist enough to keep the coal dust present, at any time, on the roof, sides and floor and other objects at that place so that it is always combined with not less than 30 percent by weight of was in intimate mixture.
30/1.5	Meters	<b>147. Precautions against eruption of gas.–</b> Where any working is extended to within 30 meters of any goaf or disused workings containing or likely to contain an accumulation of inflammable or noxious gases, there shall be maintained at least one bore-hole not less than 1.5 meters deep in advance of the working
30	Days	<b>148. Recovery and exploratory work. – (2)</b> Where it is intended or proposed to reopen a mine or part thereof, which has been isolated, sealed off or flooded with water to deal with a fire or spontaneous heating, the owner, agent or manager shall not less than thirty days before the commencement of such work, give notice in writing of such intention or proposal to the Regional Inspector and the Chief Inspector.

Numeric	Unit	Description
3	Persons	<b>148. (3)</b> Where it is intended to carry out any exploratory work in a mine or part belowground likely to contain irrespirable atmosphere,- <b>(b)</b> no party of less than three persons shall be allowed to proceed to carry out such work
1.5	Meters	<b>149. Danger from surface water (2)</b> every entrance into a mine shall be so designed, constructed and maintained that its lowest point (which means the point at which a body of rising water on surface can enter the mine) shall be not less than 1.5 meters above the highest flood level at that point.
1.2	Meters	<b>149.(5)</b> In every mine which is likely to be endangered by surface water, the highest flood levels and danger levels at least 1.2 meters or as required by the Regional Inspector below the highest flood level, shall be permanently marked at appropriate places on the surface and whenever water rises towards the danger level at any place, all persons shall be withdrawn from the mine sufficiently in advance and for this purpose adequate arrangements of quick communication to all parts of the mine by effective systems shall be provided and maintained.
15	Meters	<b>149. (6)</b> No workings shall be made in any mine vertically below <b>-(b)</b> any spot lying within a horizontal distance of 15 meters from either bank of a river or canal or from the boundary of a lake, tank or other surface reservoir;
14/30	Days	<b>149. (9)</b> A competent person shall, once at least in every fourteen days during the rainy season and once at least in every thirty days during other periods of the year, examine every protective measure provided under sub-regulations (1), (2), (3), (4) and (5), whether in use or not, for their stability
3	Months	<b>149. (10)</b> The protective measure and workings aforesaid shall also be inspected, once at least in every quarter by the manager personally.
60	Meters	<b>150. Danger from underground inundation. – (3)</b> Without prejudice to the requirement of sub-regulation (1) and sub regulation (2), no working which has approached within a distance of 60 meters of any other working (not being the working which has been physically examined and found to be free from accumulation of water or other liquid matter or any material that is likely to flow when wet) and whether in the same mine or in an adjoining mine, shall be extended further except with the prior permission in writing of the Regional Inspector and subject to such conditions as he may specify therein.
2	Copies	<b>150.(4)</b> Every application for permission to extend any working referred to in sub regulation (3) shall be accompanied by two copies of the plan and section
2.4/5	Meters	<b>150.(7)</b> The height or width of any working referred to in sub-regulation (3) or sub-regulation (6) shall not exceed 2.4 meters and there shall be maintained at least one bore-hole near the center of the working face, and sufficient flank bore-holes on each side; and, where necessary, bore-holes above and below the working to intervals of not more than five meters.
15	Days	<b>150. Danger from underground inundation. (11)</b> A plan and section of the working referred to in sub-regulation (10), showing the particulars referred therein shall be prepared and maintained and they shall be brought up to date at least once in every fifteen days.
14	Days	<b>151. Intentional flooding.– (1)</b> When the owner, agent or manager intends or proposes, by introducing water from the surface or from any other part of the mine or from an adjacent mine, to flood any part of the workings of his mine, he shall give, in writing, not less than fourteen days' notice of such intention or proposal to the Chief Inspector and the Regional Inspector and to the management of all adjoining mines and of such other mines as might be affected by such flooding:

Numeric	Unit	Description
14	Days	<b>151. (1) Provided that</b> the Regional Inspector may, be an order in writing and subject to such conditions as he may specify therein, permit such operations to be commenced on any day prior to the expiry of the said 14 days:
60/14	Days	<b>151.(2)</b> If the operations in respect of which notice is given under sub-regulation (1), are not commenced within 60 days from the expiry of the said 14 days, the notice shall be deemed to have lapsed and the provision of the sub-regulation(1) shall apply as if no such notice had been given.
14	Days	<b>152. Construction of reservoir, water dam, etc.– (1)</b> Where in any mine, it is intended to construct a reservoir, dam or other structure to withstand a pressure of water or other material which will flow when wet, or to control an inrush of water, the owner, agent or manager shall give in writing not less than fourteen days notice of such intention to the Regional Inspector
2	Copies	<b>152.</b> which shall be accompanied by two copies of plans and sections showing the design and other details of the proposed construction:
6/2.5	Cu M	<b>153. Standard of ventilation. – (2)</b> For the purposes of securing adequate ventilation as specified in sub-regulation (1), the owner, agent and manager shall ensure that- <b>(a)</b> in every ventilating district, not less than six cubic meters per minute of air per person employed in the district on the largest shift or not less than 2.5 cubic meters per minute of air per tonne of daily output, whichever is larger, passes along the last ventilation connection in the district which means the in-bye most gallery in the district along which the air passes;
19/0.5	%	<b>153. (b)</b> at every place in the mine where persons are required to work or pass, the air does not contain less than 19 percent of oxygen or more than 0.5 percent of carbon dioxide or any noxious gas in quantity likely to affect the health of any person
0.75/1.25	%	<b>153. (c)</b> the percentage of inflammable gas does not exceed 0.75 in the general body of the return air of any ventilating district and 1.25 in any place in the mine;
33.5/30.5	Degree	<b>153.(d)</b> the wet bulb temperature in any working place does not exceed 33.5 degrees centigrade; and where the wet bulb temperature exceeds 30.5 degrees centigrade arrangements are made to ventilate the same with a current of air moving at a speed of not less than one meter per second;
30	Days	<b>153.(e)</b> for ensuring compliance with the provisions of clauses (b), (c) and (d) of this sub regulation, air samples and temperature readings shall be taken at least once in 30 days and the result shall be recorded in a bound paged book kept for the purpose:
10	Meters	<b>154. Main Mechanical Ventilator, its drive and fittings etc. – (1)</b> Every main mechanical ventilator in a mine shall be capable of producing adequate ventilation in the mine or part and shall be installed on the surface at a distance of not less than 10 meters from the opening of the shaft or incline at any point:
7	Days	<b>156. Installation and maintenance of mechanical ventilator. - (3)</b> A competent person appointed for maintenance of mechanical ventilator and booster fan shall once at least in every seven days, examine every mechanical ventilator and booster fan in use and shall record the results of such examination in a bound paged book kept for the purpose and any serious defect revealed by such examination shall without delay be brought to the notice of the manager.
14	Days	<b>156.(8) (a)</b> In every mine in which a mechanical ventilator is in use, the quantity of air shall, once at least in every fourteen days, be measured-
30	Days	<b>156. (8) Provided that</b> in a non-fiery seam or a gassy seam of the first degree it shall be sufficient to take the air measurement once in every thirty days.

Numeric	Unit	Description
30	Days	<b>157. Standing orders.- (1)</b> The manager of every mine in which a mechanical ventilator other than an auxiliary fan is installed shall submit, within a period of thirty days of the installation to the Regional Inspector, standing orders specifying the action that shall be taken with respect to the withdrawal of persons from the mine or part thereof in the event of a stoppage of the ventilator.
25	CM	<b>159. Brattices, doors, stoppings and air-crossings.- (3)</b> The space between the frame of every ventilation door and the roof and sides of the roadway shall be built up with masonry or concrete, not less than 25 centimeters in thickness.
25/15	CM	<b>159. (7)</b> Every stopping between the main intake and main return airways shall be constructed of masonry or brickwork or of concrete without reinforcement, not less than 25 centimeters in thickness, and if constructed of properly reinforced concrete, not less than 15 centimeter thickness or such greater thickness as may be required by the Regional Inspector, and shall be faced with a sufficient thickness of lime or cement plaster to prevent leakage of air.
25/15	CM	<b>159. (10)</b> The partitions and walls of every air-crossing shall be not less than 25 centimeters in thickness if constructed of masonry or of concrete not properly reinforced, and not less than 15 centimeters in thickness if constructed of properly reinforced concrete.
14	Days	<b>159.(12)</b> A competent person shall, once at least in every 14 days, examine every airway, air crossing, ventilation stopping and door in use, and shall record the result thereof in a bound paged book kept for the purpose, and shall sign the same and date his signature.
<b>160. Velocity of air current.-</b> The velocity of air current measured in meters per minute at the place shown in column (2) shall be not less than that shown in column (3) for the different seams shown in column (1) of the Table given below:-		
Degree of gassiness		Place where velocity of air is to be measured
1		2
First <sup>2</sup> [Second or Third] degree		Immediate outbye ventilation connection from the face.
[First or] Second degree		(i) 4.5 metres from any face whether working or discontinued on the intake side of the brattice or partition; (ii) 7.5 metres outbye of the discharge end of an air pipe; (iii) at the maximum span of along wall face.
Third degree		(i) 4.5 metres from any face whether working or discontinued on the intake side of the brattice or partition; (ii) 7.5 metres outbye of the discharge end of an air pipe; (iii) at the maximum span of along wall face.
3	Meter	<b>161. Auxiliary fans.- (1)</b> Every auxiliary fan: (c) shall have an air-duct for conducting the air to or from the face or blind end, which shall be so maintained as to minimise any leakage of air and to ensure an adequate supply of air to within 3.0 meters of the face or blind end.
2	No	<b>161. (4)</b> In every belowground working, conditions for installation of two or more auxiliary fans in the same ventilating district or split shall be specified by the Chief Inspector in a general order.
5	Meters	<b>162. Precautions against fire in ventilation appliances -(2)</b> In the case of every fan other than an auxiliary fan installed belowground the coal or other carbonaceous material exposed in the sides, roof and floor shall be covered with masonry or other adequate protection against fire, for a distance of not less than 5 meters in every direction from the fan.

Numeric	Unit	Description
0.5	%	<b>166. (ii)</b> by a methane detector to be 0.5 per cent. or more in case of mine having degree two seams;
1.25	%	<b>166. (iii)</b> by the lowered flame of a flame safety lamp or, where methane detectors are used, they indicate one and a quarter per cent. or more of inflammable gas in case of mine having degree three gassy seams.
7	Days	<b>167. Inspection of unused workings for gas – (1)</b> In any fiery seam or gassy seam of the second or third degree or where the Regional Inspector may require by an order in writing, all unused workings which have not been sealed off, shall, once at least in every seven days, be inspected by a competent person for the presence of inflammable or noxious gas.
3	Days	<b>169. Determination of percentage of inflammable gas and of environmental conditions (1)(a)</b> The determinations shall be made by a competent person, and either by means of an apparatus of a type approved for the purpose by the Chief Inspector, or by analysis of samples of air. If determinations are made by the analysis of air, the samples shall be analyzed within three days of the taking thereof.
7	Days	<b>169. (1) (c)</b> The determinations shall be made or samples of air taken, as the case may be, once at least in every seven days,
0.8/24	% /Hours	<b>169.(1) (c)(i)</b> if any determination shows the percentage of inflammable gas to exceed 0.8, determination shall be made or samples of air taken at intervals not exceeding twenty-four hours for so long as such content exceeds that percentage and for the seven next following days, unless the Regional Inspector otherwise permits by an order in writing and subject to such conditions as he may specify therein
30/0.6	Days / %	<b>169. (1) (c)(ii)</b> if the determination made during the thirty days immediately preceding any day have shown the percentage of inflammable gas to be below 0.6, it shall be sufficient to make such determination or take such samples, once in every thirty days for so long as such content does not exceed that percentage:
24	Hours	<b>Provided that</b> when any alteration is made in the system of ventilation so as to substantially affect or likely to affect the ventilation of the mine, such determination shall be made within 24 hours of such alteration.
1.25	%	<b>169. Determination of percentage of inflammable gas and of environmental conditions.- (1)(e)</b> if any determination in any ventilating district shows the percentage of inflammable gas to exceed one and a quarter, the supply of electric energy shall be cut off immediately from all cables and apparatus in the district, and a written report thereof submitted to the Regional Inspector forthwith.
30	Days	<b>169. (2)</b> If the Regional Inspector so requires by an order in writing in respect of any mine having workings belowground, determination shall, once at least in every thirty days, be made of temperature, humidity and such other environmental conditions at such points as the Regional Inspector may specify in the order.
4.5	Meters	<b>171. General precautions in gassy mines –(2)</b> No working or gallery shall be extended to a distance of more than 3 meters from the nearest ventilation connection unless the current of air is coursed up to a point within 3 meters of the face by means of fire resistant pipes, tubes, brattices or other material.
3	Meters	<b>171. (3)</b> No narrow 'main' or advance gallery shall be driven more than three metres ahead of the widened gallery.
100	Meters	<b>174. Whitewashing –</b> The roof and sides of the following places belowground in a mine shall be kept effectively whitewashed <b>(b)</b> the top and bottom of every haulage plane, every regular stopping place, siding, landing, bye pass, and junction, except within 100 meters of the face;

Numeric	Unit	Description
50	Persons	<b>175. General lighting .- (1)</b> Adequate general lighting arrangements shall be provided during working hours <b>(b) (ii)</b> in every travelling roadway normally used by 50 or more persons during any shift:
270	Meters	<b>176. Electric lighting in gassy mines – (1)</b> the use of electric energy in parts of mines in which inflammable gas is likely to occur in quantity sufficient to be indicative of danger, electric lighting from a source of supply external to the lighting unit may be used <b>(b)</b> on any other roadway or place not within 270 metres of the nearest face.
7	Days	<b>179. Maintenance and examination of safety lamps.– (6)</b> The manager, assistant manager, or a competent person appointed for the purpose shall, once at least in every seven days, examine thoroughly every safety lamp in use, and shall record the results of examination of every such lamp in a bound paged book kept for the purpose.
2	Type	<b>186. Cases and containers for carrying explosives.- (2)</b> No detonator shall be kept in a case or container which contains other explosives, materials or tools and two or more types of detonators shall not be kept in the same case or container:
40,80	Shots	<b>190. Shot-firers.– (c)(i)</b> in the case of a gassy seam of second or third degree or a fiery seam, forty, if a single shot exploder is used and eighty, if a multi-shot exploder is used;
50,100	Shots	<b>190. Shot-firers.– (c)(ii)</b> in the case of other seams, fifty, if a single-shot exploder is used and hundred, if a multi-shot exploder is used;
60,120	Shots	<b>190. Shot-firers.– (c) (iii)</b> in the case of opencast mines, sixty, if a single shot exploder is used or if blasting is done with ordinary detonators and one hundred and twenty, if a multi-shot exploder is used:
0.3	CM	<b>192. Drilling, charging, stemming and firing of shot-holes.– (1)</b> No drill shall be used for drilling a shot-hole unless it allows a clearance of at least 0.3 centimeters over the diameter of the cartridge of explosives, which it is intended to use.
50	Meter	<b>195. Electric shot-firing.– (7)(b)</b> use a well-insulated cable of sufficient length to permit him to take proper shelter and in case of belowground working sufficient to take two right angle turns of pillar, and in no case, shall this cable be less than 50 meters in length;
500	Meters	<b>196. Taking shelter before firing shots.— (2)</b> In the case of an opencast working the shot-firer shall not charge or fire a shot <b>(b)</b> Unless sufficient warning, by efficient signals or other means approved by the manager, is given over the entire area falling within a radius of 500 meters from the place of firing (hereinafter referred to as the danger zone) an also he has ensured that all persons within such area have taken proper shelter
9	Meters	<b>196.(6)</b> When two working places belowground have approached within nine meters of each other, the blaster shall not fire any shot in any one of the said workings unless all persons have been withdrawn from the other working place and the same has been so fenced off as to prevent persons inadvertently coming in direct line of the shot.
18	Meter	<b>197. Precautions against dry coal dust.-</b> No shots shall be fired at any place belowground unless the place itself and all accessible places, including roof and sides, within a distance of 18 meters have been treated in the manner specified in clause <b>(b)</b> of sub-regulation (3) of regulation 144
5	Meter	<b>198. Conditions requiring use of permitted explosives.– (3)</b> Notwithstanding anything contained in sub-regulation (1), if blasting is done in any stone drift or sinking shaft within five meters of any coal seam or in coal measure drifts or staple shaft from one seam to another only permitted explosives of such types as may be required by the Chief Inspector shall be used:
18	Meter	<b>201. Additional precautions in belowground mines.- (2)</b> Immediately before charging a shot-hole or a round of shot-holes, and again before firing the shots the shot-firer shall carefully test for inflammable gas at all places within a radius of eighteen meters of the place of firing.

Numeric	Unit	Description
5	Minute	<b>204. Misfires.- (1)</b> After firing the shots electrically, no person shall re-enter or be permitted to re-enter the place until five minutes after the source of electricity has been disconnected from the cable.
30	CM	<b>204. (6)</b> Except where the misfire is due to faulty cable or a faulty connection, and the shot is fired as soon as practicable after the defect is remedied, another shot shall be fired in a relieving hole which shall be so placed and drilled in such a direction that at no point shall it be nearer than thirty centimeters from the misfired hole:
1.2	Meter	<b>205. Special precautions in stone drifts.-</b> In stone drifts,- <b>(a)</b> after shots have been fired, all loose rock shall be removed from the face, and the area lying within a distance of 1.2 meters from the face shall be thoroughly cleaned or washed down with water and carefully examined for presence of misfires or sockets
1.5	Times	<b>210. Apparatus under pressure.- (3)</b> Before an air-receiver is cased in or put in commission, the engineer or other competent person shall subject it to a hydraulic test at a pressure at least one-and-a-half times the maximum permissible working pressure and a similar such test shall be made after every renewal or repair and in any case at intervals of not more than three years.
7	Days	<b>213. Working and examination of machinery.- (5)</b> A competent person or persons appointed for the purpose shall, once at least in every seven days, make a thorough inspection of all machinery and plant in use, and shall record the result thereof in a bound paged book kept for the purpose.
6	Month	<b>218. Notice of Intention or proposal of exploration for methane.- (1)</b> Whenever there is any proposal or intention to explore for presence of methane, in any coal seam or coal measure strata of any working or abandoned coal mines or part thereof, with an objective to exploit the methane or any other gases for captive, domestic or industrial purposes, the owner, agent and manager of the mine shall, not less than six months prior to the date of start of such exploration work, give notice in writing in the Form and method as may be specified by the Chief Inspector for the purpose, to the Chief Inspector and also to the Regional Inspector:
30	Days	<b>220. Notice of commencement of extraction of methane.- (1)</b> Whenever there is any proposal or intention to commence or start extraction of methane from any coal seam or coal measure strata of any working or abandoned mines or part thereof, with an objective to exploit the methane or any other gases for captive, domestic or industrial purposes, the owner, agent and manager of the mine shall, not less than thirty days prior to the date of start of such extraction work, give notice in writing in the Form and method as may be specified by the Chief Inspector for the purpose, to the Chief Inspector and also to the Regional Inspector.
60	Days	<b>221. Notice of closure, abandonment or discontinuance of extraction of methane.- (1)</b> Whenever there is any proposal or intention to close or abandon or discontinue extraction of methane from any coal seam or coal measure strata of any working or abandoned mines or part thereof, the owner, agent and manager of the mine shall, not less than sixty days prior to the date of start of such closure, abandonment or discontinuance of extraction work, give notice in writing in the Form and method as may be specified by the Chief Inspector for the purpose, to the Chief Inspector and also to the Regional Inspector.
0.2/0.6	Meter	<b>224. Drill machine.- (4)</b> Drill machine shall not be used at any work place where there is, after allowing for swing of the machine, clear space not less than the following, namely:- <b>(a)</b> below the roof or its support 0.3 meter; and, <b>(b)</b> on the sides 0.6 meter

Numeric	Unit	Description
150	Meter	<b>227. Ventilation plan for methane exploration or extraction belowground.- (5)</b> A coal barrier of not less than 150 meter in thickness shall be maintained in the same seam from old boreholes and present working of the mine from where exploration or extraction of methane is in progress.
500	Meter	<b>232. Methane and other gas monitoring system in case of positive pressure in reservoir.-</b> <b>(2)</b> Methane monitors shall be placed at every five hundred meters interval along the main pipeline in the return air way or at closer interval if so required by the Regional Inspector.
3	Month	<b>232. (6)</b> Calibration of each methane monitor and the system so installed shall be done quarterly and record of the same shall be maintained in a bound paged book kept for the purpose duly signed by the competent person and counter signed by assistant manager-in-charge of methane exploration or extraction operations and the manager.
6	Month	<b>240. Use, supply and maintenance of protective footwear.- (2)</b> The protective footwear referred to in sub-regulation (1) shall be supplied free of charge, at intervals not exceeding six months, by the owner, agent or manager of a mine, who shall at all times maintain a sufficient stock of protective footwear in order to ensure immediate supply as and when need for the same arises.
3	Years	<b>241. Use and supply of helmet.- (2)</b> The helmet referred to in sub-regulation (1) shall be supplied free of charge, at intervals not exceeding three years or such other intervals as the Chief Inspector may specify by a general or special order in writing by the owner, agent or manager of a mine, who shall at all times maintain a sufficient stock thereof in order to ensure immediate supply as and when need for the same arises:
72	Hours	<b>199. Place of accident not to be disturbed –Provided that</b> where the Chief Inspector or the said Inspector fails to inspect the place of accident within seventy-two hours of the time of the accident, work may be resumed at the place of accident.
15	Days	<b>258. Appeal to the Chief Inspector.- (1)</b> An appeal shall lie against an order made by the Regional Inspector under any of these regulations, to the Chief Inspector who may confirm, modify or cancel the order. <b>(2)</b> Every appeal under sub-regulation (1) shall be preferred within fifteen days of the receipt of the order by the aggrieved person.
20	Days	<b>259. Appeal to Committee.- (1)</b> An appeal against any order made by the Chief Inspector under any of these regulations or against any order passed under regulation 258 shall lie, within twenty days of the receipt of the order by the aggrieved person, to the Committee constituted under section 12 of the Act.
	FIRST	<b>FORM I (See Regulations, 3,6,7,8)</b>
	SCHEDULE	<b>Notice of opening, closing or change of name</b>
	FIRST	<b>FORM II</b>
	SCHEDULE	<b>(See Regulation 4) Monthly Return for the Month of .....19</b>
	FORM II	<b>TABLE A : RAISINGS, DESPATCHES AND STOCK (IN TONNES)</b>
	FORM II	<b>TABLE B : MACHINERY</b>
	FORM II	<b>TABLE D : HOURS OF WORK AND EARNING</b>

Numeric	Unit	Description
	FIRST	<b>FORM III</b>
	SCHEDULE	(See Regulation 5) Annual Return for the year ending on the 31st December, 19
	FORM III	<b>TABLE A - EMPLOYMENT</b>
	FORM III	<b>TABLE B – TYPE AND AGREGATE HORSE-POWER OF ELECTRICAL APPARTATUS</b>
	FORM III	<b>TABLE C- TYPE AND AGGREGATE HORSE-POWER OF MACHINERY AND EQUIPMENT</b>
		(OTHER THAN ELECTRICAL APPARATUS)
	FORM III	<b>TABLE D – EXPLOSIVES, SAFETY LAMPS, ROCK DRILLS AND MECHANICAL VENTILATORS</b>
		<b>VENTILATORS</b>
	FORM III	<b>TABLE E – EXPLOSIVES, SAFETY LAMPS, ROCK DRILLS AND MECHANICAL VENTILATORS</b>
	FIRST	<b>FORM IV-A</b>
	SCHEDULE	(See Regulation 9) Notice of Accident/Occurrence
	FIRST	<b>FORM IV-B</b>
	SCHEDULE	(See Regulation 9) Particulars of Deceased/Injured person
	FIRST	<b>FORM V</b>
	SCHEDULE	(See Regulation 10) Notice of Disease notified under section 25
	FIRST	[ <b>FORM VI</b> ]
	SCHEDULE	(See regulation 103A)
	SECOND	(See Regulation 58)
	SCHEDULES	Convention for preparing Plans and Section
Numeric	Unit	Description
	THIRD SCHEDULE	<b>FORM III -Extraction of coal by a system other than the 3[Board] and Pillar system</b> [See Regulation 100A]



## Mines Rescue Rules-1985



Numeric	Unit	Description
02.04.1985	Date	The Mines Rescue Rules, 1985. (3) They shall come into force on the 2nd April, 1985.
3	Years	All the existing rescue stations as on the date of ;coming into force of these rule, shall continue to function for a period of three years from that date.
1,2,18	Persons	(2) At every rescue station there shall be appointed one Superintendent and at least two instructions and also, there shall be maintained a rescue brigade of not less than eighteen rescue trained persons.
60	Days	(3) In case where the absence of the Superintendent at a rescue station exceeds 60 days, the owner shall appoint another Superintendent.
7	Days	(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 in-charge of the region where the mine is situated (hereinafter referred to as Regional Inspector) in Form I.
100/35	Persons/KM	5.Establishment and location of rescue rooms:- (1) At every below ground mine where, more than 100 persons are ordinarily employed below ground and there is no rescue station within its radius of 35 kms. The owner, shall establish and ;maintain on surface close to mine entrance a rescue room:
5000	Persons	Provided that it may be sufficient to provide one rescue room for a number of mines belonging to the same owner where:- (a) the total number of persons ordinarily employed in below ground workings of all such mines does not exceed 5000;
35	KM	(b) The mines are situated radius of 35 kms. From and connected by road with the rescue room :
5000	Persons	Provided further that the Chief Inspector may permit the owner of a group of mines having the total number of persons ordinarily employed below ground in excess of 5000, to use the rescue room as a rescue station excepting the functions of imparting initial training in rescue work, if such rescue room is :-
15	Sets	a) equipped with requisite additional rescue apparatus including at least 15 extra sets of two hour self- contained breathing apparatus;
5	Years	7. Qualifications, experience etc. of Superintendent:- (ii) has 5 years practical experience of below ground work in mines;
3	Years	8. Qualifications, experience etc., of Instructors:- (ii) has 3 years practical exp erience of blow ground work in mines;
3	Years	10. Qualifications, experience etc. of rescue room incharge:- (ii) has 3 years practical experience of below ground work in mines ;
24	Hours	(7)In case of an accident in a below ground mine arising out of the use of any rescue apparatus, a written report thereof shall be sent, within 24 hours of such accident, by the manager of the mine to the Chief Inspector and Regional Inspector in Form II appended to mines rules.
		(8)In case of an accident in a rescue station or rescue room arising out of the use of any rescue apparatus a written report thereof shall be sent , within 24 hours of such accident, by the Superintendent to the Chief Inspector and Regional Inspector in Form II aforesaid.

Numeric	Unit	Description
20.02	Date	(9)The Superintendent shall submit to the Chief Inspector and to the Regional Inspector detailed report on the functioning of the rescue station and rescue rooks under his control in the preceding year on or before the 20th day of February of the succeeding year with particular reference to :-
31.12	Date	(b) Superintendent, instructors, rescue room Incharge and rescue brigades in position, as on the 31st December;
3	No	18.Rescue tracings:- There shall be kept at a below ground mine, more than three legible tracings of the working of the mine upto a date not before three preceding months.
100/5	Persons	19.Appointment of rescue trained persons in mines, their disposition and accommodation:- (1) The manager of a below ground mine, where more than 100 persons are ordinarily employed below ground, shall ensure that at least 5 rescue trained persons are readily available at surface at any time.
500/100	Persons	(2)The manager of a below ground mine, where more than 500 persons are ordinarily employed below ground , shall also ensure that persons on a scale of one man for every 100 persons or part thereof are rescue trained persons.
21-30	Years	20.Selection of persons for training in rescue work:- (i) he is between 21 and 30 years of age and holds a valid First-aid certificate of the standard of the St. John Ambulance Association (India);
12	Months	22.Medical examination etc. of rescue trained person:- Every rescue trained person shall be reexamined once at least in every twelve months by a qualified medical practitioner as may be designated by the manager in accordance with Schedule VI, and in case he is declared medically unfit, he shall cease to be a rescue trained person with effect from the date he has been so declared.
20	Minutes	30.Test of apparatus:- (4).When using rescue apparatus, the leader shall carry a watch, shall record the pressure of the compressed oxygen at intervals of 20 minutes or so, and shall commence the return journey in ample time. During travelling he shall adopt the pace of slowest member, if any member of the team is in distress, shall immediately return to the fresh air base with the whole tea
	<b>FORM I</b>	[See rule 3(4)] Intimation of appointment etc. of Superintendent.
	<b>FORM II</b>	[See rule 11 (7)] Notice of accident
	<b>SCHEDULE I</b>	[See rule 11(1)] Equipment to be kept at a Rescue Station
		<p><b>A BREATHING APPARATUS Nos.</b></p> <ul style="list-style-type: none"> <li>1. Two-hours self –contained breathing apparatus 54</li> <li>2. Short duration self-contained breathing apparatus 6</li> <li>3. Absorbent charges 2,000</li> </ul> <p><b>B. RESUSCITATING APPARATUS</b></p> <ul style="list-style-type: none"> <li>1. Resuscitating Apparatus 12</li> <li>2. Spare cylinders 8</li> </ul> <p><b>C.TUBE APPARATUS</b></p> <ul style="list-style-type: none"> <li>(a)Pressure type with belows 2</li> <li>(b)Spare helmets 2</li> <li>(c)Pressure type with fan 1</li> </ul>

	<p><b>D.ANCILLA RY EQUIPMENT</b></p> <p>1.Oxygen cylinders 12      2.(a) Oxygen pump (hand driven) 4      (b) Oxygen pump (power driven) 2      3. Bobin meter 3      4. Flow meter 2      5. Universal tester 2      6. Pressure gauge testing device 2      7. Oxygen testing apparatus 1      8. Apparatus testing tool kit 8</p> <p><b>E. LAMPS ETC. AND GAS TESTING DEVICE</b></p> <p>1. Flame safety lamps with maintenance kit 8      2.Electric safety lamps</p>
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Mines VT Rules-1966

Numeric	Unit	Description
12	Days	<b>6. Scope and Standard -</b> (2) Every person proposed to be employed belowground in a mine, (other than a person who has held any such previous employment) shall, before he is so employed, undergo - (b) a course of practical training on actual operations for a period of not less than twelve working days
3	Lectures	<b>8. Scope and standard -</b> Wherever a person returns to employment on the surface or in opencast working or to employment belowground in a mine, after an absence from work for a period exceeding one year he shall, within one month of his joining duty, undergo refresher training as detailed in the Fourth Schedule, which shall include a minimum of - (1) Three safety lecture and demonstration in the case of persons working on the surface or in opencast workings;
6	Lectures	<b>8. Scope and standard -</b> (2) Six safety lectures and demonstrations in addition to the training specified in clause (1) in the case of persons working belowground in a non-gassy mine;
3	Lectures	<b>8. Scope and standard -</b> (3) Six further lectures and demonstrations about the danger of inflammable gas and methods of living with the same, in addition to the training specified in clause (1) and (2) in the case of persons working belowground gassy mine.
1/5	Times	<b>9. Training of persons already employed -</b> Every person in employment in a mine at the date of commencement of this rule shall undergo the refresher training as specified in Rule 8, and it shall be sufficient compliance with this rule if, before the expiry of every year from such commencement, at least one-fifth of the person so employed are given such training.
6	Months	<b>12. Training of timber Mistry -</b> Every person who: (i) is newly employed as timber mistry in a mine, or (ii) has not worked as a timber mistry in a mine for a period of six months immediately preceding his employment or re-employment , undergo a course of training in timber as specified in the Fifth Schedule, in addition to the course of training specified under Chapter- III or Chapter IV as may be applicable to him.
6	Months	<b>13. Training of persons in handling of explosives -</b> (1) Every person other than a qualified shotfirer or blaster who is likely to be employed on a job which involves handling of explosives shall , before he is so employed, in addition to the course of training specified, under Chapter III or Chapter IV as the case may be , undergo a course of training in the handling and use of explosives, as detailed in the Sixth Schedule. Every person who has undergone the said training shall undergo the training again before re-employment if he has not worked in handling explosives for a continuous period of six months or more before such re-employment.
4	Lectures	<b>13. (2)</b> Notwithstanding anything contained in sub rule (I), in the case of metalliferous mines having opencast working only, the course of training may be confined to not less than four lectures and demonstration covering only such items of the Sixth Schedule as refer to opencast working and general principals of shotfiring.
3	Months	<b>14. Training of person on shotfiring -</b> (1) Every person eligible to appear at the Shotfirer's Certificate of Competency Examination and who intends to appear at the said examination within the succeeding three months, shall,, before he appears for the examination and in addition to the training specified in Rule 13 undergo a course of training as detailed in the Seventh Schedule.
1	Months	(2) Notwithstanding anything contained in Rule 3, the training specified in the Seventh Schedule shall also be undergone within one month of employment, or re-employment, as the case may be,

Numeric	Unit	Description
6	Months	(ii) every person who though qualified to fire shots has not worked as a shortfirer for a continuous period of six months or more, on re-employment as a shotfirer :
8	Lecture	(3) Notwithstanding anything contained in sub-rules (1) and (2) in the case of persons, working in metalliferous mines having opencast workings only, or holding blaster, restricted certificate, it shall be sufficient if the course of training is confined to not less than eight lecture and demonstrations and covering only such items of <i>Seventh Schedule</i> as refer to opencast workings and general principles of shotfiring.
1	Year	<b>16. Time limit in respect of the training of persons already employed on banding of explosives-</b> Notwithstanding anything contained in these rules, every person employed on handling of explosives shall undergo the training specified in Rule13 within a period of one year from the date of commencement of this rule.
1	Year	<b>17. Periodical training in gas testing-</b> Every person holding a gas testing shall once in every year, person eligible to appear at the Gas-testing Certificate Examinations and who intends to appear at the examination within the succeeding three months, shall before he appears for the examination, undergo a course of training as detailed in the 8th Schedule.
30	Days	<b>20. Training Officer:</b> - (2) Provided that except in a case where the person so authorised possesses the qualifications and experience specified by the Chief Inspector under sub-rule (1), the authority to act as Training Officer shall cease to have effect on the expiry of 30 days from the date of the authorization unless an order in writing has been obtained from the Chief Inspector or the Regional Inspector for the continuance of such person beyond the said period.
0.50	Rs	<b>25. Training allowance:</b> - Every trainer shall, in addition to his normal wages, be paid by the owner, agent or manager a training allowance of Rs.0.50 per trainee for every day a trainee has worked under his supervision. Not more than two trainees shall be placed under the charge of a trainer at a time.
1.50	Rs	<b>27. Stipend to trainees -</b> (1) Every person, while undergoing training under Chapter III and under Rule 12 & 15 shall be paid by the owner, agent or manager, daily allowance, for each day of attendance, of any amount equivalent to the wages (inclusive of allowances) which will be payable to him on employment after completion of training, subject to maximum of Rs. 1.50 per day.
	<b>FIRST SCHEDULE</b>	{See Rule 6 (1) } <i>Course of Theoretical and Gallary training for surface and opencast workers.</i>
	<b>SECOND SCHEDULE</b>	{See Rule 6 (2) (a)} <i>Course of Theoretical and Gallery training for workers below ground.</i>
	<b>THIRD SCHEDULE</b>	{See Rule 6 (2)(b)} <i>Course of special additional training for entrants to gassy mine,</i>
	<b>FOURTH SCHEDULE</b>	{See Rule 8 and 10} <i>Course for Refresher Training.</i> (Each talk to be followed by discussion. Duration of each talk and discussion to be not less than two hours.)
	<b>FIFTH SCHEDULE</b>	{See Rule (12) } <i>Course of Training for Timber Mistry</i> (Training in First Aid to be given to every trainee who has not already undergone such training.)

Numeric	Unit	Description
	<b>SIXTH SCHEDULE</b>	<b>(See Rule 13)</b> <i>Course of Training in the handling and use of explosives.</i>
	<b>SEVENTH SCHEDULE</b>	<b>{See Rule (14)}</b> <i>Course of Training on short firing</i>
	<b>EIGHTH SCHEDULE</b>	<b>(See Rule 17)</b> <i>Course of Training in Gas-Testing.</i> (Demonstration to be arranged with every talk and each talk to be followed by discussion. The duration of each talk and discussion to be not less than two hours.)
	<b>FORM- A</b>	<b>{See Rule 28 (1)}</b> Certificate of Training for employment in a mine on surface and in opencast working/belowground in non-gassy mine.
	<b>FORM- B</b>	<b>{See Rule 28 (1)}</b> <i>Certificate of refresher Training */Training of special categories of workmen.</i>
	<b>SCHEDULE - XII</b>	<b>SYLLABUS FOR JOB- TRAINING.</b>
	<b>ANNEXURE - 'G'</b>	<b>On the Job Training For Apprentices Outside Apprenticeship Act.</b>
	<b>SCHEDULE 'B- I'</b>	<b>BIO - DATA FORM</b>
	<b>SCHEDULE - C- I</b>	<i>First Schedule under V.T.Rule 6(1)</i> Course of Theoretical and Gallery training for surface and opencast Workers.
	<b>SCHEDULE - C - II</b>	<i>Under 2nd Schedule of V.T.Rule (2) aa :</i> Course of Theoretical and Gallery training for workers belowground.
	<b>SCHEDULE - C - III</b>	<i>Third Schedule under V.T. Rule (2) b:</i> Course of special additional training for entrants to gassy mines.
	<b>SCHEDULE - 'D'</b>	<b>CLASS ROOM INDUCTION TRAINING</b>
	<b>SCHEDULE - 'E'</b>	<b>FIRST AID</b>
	<b>SCHEDULE -'F'</b>	<i>Eighth Schedule under V.T.Rule 17.</i> <b>COURSE OF TRAINING IN GAS TESTING</b>
	<b>SCHEDULE - 'H- I'</b>	<b>BLOCK SYLLABOUS FOR "ON THE JOB TRAINING '</b>
	<b>SCHEDULE - ' H- H'</b>	<b>BLOCK SYLLABUS FOR 'ON THE JOB TRAINING'</b>



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